

American Rescue Plan Act (ARPA) Commission Workshop

City of St. Augustine

*City Commission Meeting
February 28, 2022*

Contents

Proposed Water/Sewer Infrastructure Projects for ARPA..... 3

Proposed Cyber Security Infrastructure Projects for ARPA..... 5

Replacement of Public Sector Revenue 6

Public Comment for ARPA uses: 7

ARPA Timeline: 8

Street Sweeper Timeline: 8

Initial List of Projects..... 9

Evolution of Proposed Projects 11

Capital Improvements Plan..... 16

Proposed Water/Sewer Infrastructure Projects for ARPA

SLFRF funds may be used to make necessary improvements in Water and Sewer infrastructure.

Local governments have a tremendous need to address deferred maintenance in drinking water systems and removal, management, and treatment of sewage and stormwater, along with resiliency measures needed to adapt to climate change.

From Treasury's Overview of Final Rule

West Augustine Septic to Sewer Conversion

One Time Project Expense (est): **\$2,000,000**

ARPA funding devoted to the septic to sewer conversions would go towards a number of projects, including: West 3rd Street Gravity Sewer Extension project; Pearl Street Gravity Sewer Improvements project; an additional to be determined sewer extension project in the Duval/St Johns Street area; and Septic to Sewer Conversion projects for residents who currently live adjacent to gravity sewer in West Augustine and are currently utilizing septic tanks. Additionally, this funding could be used for a new sanitary sewer lift station depending on the West Augustine Master Plan that is underway.

Stormwater Master Plan

One Time Project Expense (est): **\$2,110,000**

The City's Comprehensive Plan Under the Conservation and Coastal Management Element recommended that the City update its stormwater master plan within two (2) years. The last stormwater master plan was completed in 2013. Since then, we've had a Coastal Vulnerability Assessment and Strategic Adaptation Plans completed with multiple other studies to address our coastal flood vulnerabilities and future challenges. This updated stormwater resilience master plan will build upon the previously completed work (such as the South Davis Shores Resilience Study), integrating all relevant previous studies done to date. This will include the State's recent guidance and requirements for completing a vulnerability study and to evaluate rainfall, coastal surge, and compound flooding. In general, the study will:

- Re-evaluate our flood risk using the latest data and projections for sea level rise (taking into consideration climatic patterns, changes to groundwater levels, rainfall patterns, saltwater intrusion etc.)
- Identify opportunities for improving water quality
- Identify resilient natural and built coastal features and infrastructure strategies
- Consider cost-benefit analysis for identified strategies, including an economic analysis to consider the social and environmental impacts of the various strategies
- Outreach and educational component
- Provide a "road map" for capital improvement projects to better prioritize our limited resources

SCADA Improvements

One Time Project Expense (est): **\$510,000**

Supervisory control and data acquisition (SCADA) is comprised of software programs and hardware such as programmable controllers, sensors and monitors that allow on to monitor process operations either locally or remotely. The City currently has three (3) SCADA systems that are in use at the Water Treatment Plant (WTP), Waste Water Treatment Plant (WWTP) and at our lift/pump stations within waste water collections (WWC). The system at the WWTP is independent of the other two divisions and monitors all of the operations and process controls within the plant. The system at the WTP monitors not only operations at the plant, but also the wellfield and storage tanks. The system for WWC's is located both at the WWC field office and within the WTP. The main reason for this is the WTP is a 24/7 operation and also monitors any alarms for the WWC system and can dispatch someone after hours if needed. The City had a consultant evaluate all three systems and consolidated all of the gathered data into a basic white paper. The

traditional next step would be to take this white paper and produce a SCADA master plan. These plans typically cost \$200,000 to \$300,000. In some cases, once a master plan has been developed, the recommended technology may already be out of date or not as beneficial from when the plan was initially started. In order to maximize the budget for this project, we are not going to generate a master plan and will be implementing the latest technology to upgrade our system. Some of the main features of a new and/or improved upon system will be decoupling the WWC system from the WTP system as well as gaining other improved efficiencies. This reduces the burden on the WTP operator and will also limit the possibility of an alarm being overlooked. Once a consultant has been selected, it is anticipated this project will take 12 to 18 months to be completed.

WWTP Outfall Repair

One Time Project Expense (est): **\$550,000**

The outfall at the WWTP conveys the treated effluent from the contact basin to the intracoastal waterway. The pipes original anchoring system has degraded over time and was further compromised during Hurricanes Matthew and Irma (attached photo = 1,000 words). While the pipe itself did not sustain any damage, the possibility exists that the pipe could move from the designed and approved footprint. If the pipe migrated out of the footprint it is highly probable it would sustain damage which would impact overall operations at the plant. A consultant has already been contracted for this project and 60% plans have been developed. The consultant can proceed to final design and bid for a cost of \$60,000. It is anticipated that the project can be bid, awarded and completed within the next 12 to 16 months and not exceed the overall budget

WWTP Generator Replacement

One Time Project Expense (est): **\$550,000**

The generator at the WWTP not only serves as emergency power for the plant, but also is used by Florida Power and Light during peak power demands (and pays us for the power use). The generator is near or at its end of service life. Currently we are planning on spending more money on the existing generator for a new switch gear. We also have to install a concrete pad approximately 1,700 square feet in size to accommodate flood proofing of the generator room. The replacement of the generator is not currently listed on the CIP. It was our intention to include a new generator in the BTU expansion and upgrades. This is a separate project from the headworks improvements. By purchasing a new generator now, it would eliminate the expense of a new switch gear and concrete pad installation since a new unit has a self-contained fuel tank and is elevated to a height that flood proofing would not be necessary.

Proposed Cyber Security Infrastructure Projects for ARPA

SLFRF may be used for modernization of cybersecurity for existing and new broadband infrastructure, regardless of their speed delivery standards. This includes modernization of hardware and software.

From Treasury's Overview of Final Rule

(Total Annual) \$457,824.32, (One Time Costs) \$51,901.73, (Combined Total est) **\$509,726.05**

Smart Care Basic (Gwanda Managed Service)

Annual Cost: \$68,700.00

4 Year Cost \$274,800.00

Smart Care Basic provides the city with a managed approach to endpoint security, log and event management, and backup maintenance. The City will no longer need to purchase and maintain endpoint security software, this includes patch management, antivirus, and anti-malware security software. Internet connection monitoring and logging to ensure that city services are not impacted by ISP outages. The service also includes monitoring backup solutions to ensure that critical data is protected. This covers 176 endpoints.

Azure Active Directory (COSA 188 + Police Dept 88)

Annual Costs:

\$19,872.00

4 Year Cost \$79,488.00

Azure Active Directory, Premium 1 licensing will provide the City with Multifactor Authentication (MFA). MFA will further protect city assets from possible intrusion from outside entities and prevent unwanted logins. Azure AD will also provide Single Sign On (SSO) to other applications that are utilized within the City allowing seamless access to all city services once a user is logged in preventing the need for multiple passwords and integration with MFA.

Zoho Manage Engine Desktop Central

Annual Costs: \$6,050.00

4 Year Cost \$24,200.00

Desktop central is currently in use by the City it provides centralized security management and secure remote access to city IT staff. It also includes a module for mobile device management. This will allow City IT staff to remotely manage and control policy on City cellular devices. This will ensure that these devices are up to date and have controlled access to City network resources.

Police Department Office 365 Migration

Annual Costs: \$18,934.08

4 Year Cost \$79,336.32

The Police Department currently has a depreciated version of Exchange that will no longer be supported by Microsoft and is going to be coming to end of service life in 2022. The server will no longer receive updates and patches. Moving the Police department to Office365 government cloud will ensure compliance as well as meeting cyber security requirements.

MX250 & MX84 Hot Spare Security Appliances

One Time Cost: \$21,239.87

Currently the single point of failure for all network connectivity and City services is the MX250. The single point of failure for Utilities and lift stations is the MX84 edge security appliances. Installing hot spare devices will improve security and availability to all services and network connected devices throughout the city.

Windows Server Datacenter 2019

One Time Cost: \$30,661.86

Windows server datacenter 2019 is required to bring the City and Police department server infrastructure up to date. Currently the city has several servers running on older editions of windows server that are coming end of useful service life. These servers will no longer be receiving critical security updates and will no longer be able to receive support from Microsoft.

Replacement of Public Sector Revenue

Use ARPA funding is allowable up to the amount of revenue losses to provide for government services. Services traditionally provided by recipient governments, are government services. Treasury Final Rule for SLFR

Street Sweepers

One Time Project Expense: **\$500,000**

The two City street sweepers have reached the end of their useful Service Life and are requiring increased repair and maintenance to sustain operational service. Approved for purchase December 13, 2021, City Commission Meeting. Vehicles are on order and in production estimated delivery March and August '22.

Police Vehicles

One Time Project Expense (est): **\$120,000**

Completes the replacement of aging vehicles for St Augustine Police Officers.

Police Department Evidence Shed

One Time Project Expense (est): **\$200,000**

The Police Department requires a new evidence storage shed to maintain compliance with Florida Accreditation achieved in 2021. The current processing and secured storage area is insufficient to meet this standard, and the department has outgrown the space. Currently, the Police Department must rely on other local agencies to assist in the processing and storage of evidence and oversized items.

Garbage Trucks

One Time Project Expense (est): **\$700,000**

Residential trash, recycling and yard debris collection is accomplished with five (5) rear load vehicles. These vehicles are in operation 5 days a week. The vehicles are 5 to 8 years old. Typically, these vehicles should be replaced every 5 years. Solid waste would like to purchase a new rear load vehicle and a new side load vehicle. The side load vehicle would improve efficiency by eliminating the need for staff on the back of a truck. Additionally, the side load vehicle can service up to 1,200 homes compared to 800 homes by a conventional rear load.

Public Comment for ARPA uses:

Received four emails, three to arpa@citystaug.com and one direct to the Assistant City Manager.

- Lightner Building Window, Structure and Roof repairs.
- Address flooding through raising Avenida Menendez Seawall.
- Expand or modernize sewerage pump/treatment station in Uptown.
- Phase in, electric vehicles for the City fleet.
- Solar lighting for Nights of Lights.
- Assistance to homeowners transitioning to alternative energy sources.
- Improvements to recycling program.
- Water quality improvements
- Traffic calming for downtown (speed tables, painted crosswalks, parking restrictions).
- Increased and improved utilization of the Sunshine Bus
- Expand community based mental and behavioral health services to include police officer
- Training and Police Department professional mental health staff
- Funding to reduce homelessness.
- Multiyear funding for affordable housing.
- Sewer system improvements and transition all septic tanks in City to sewer system.
- Life/Safety improvements at all emergency shelters when demand is high, and to

support 24-hour shelter resiliency renovations

- Article “How Mayors are Thinking About Prioritizing Federal Aid” <https://www.route-fifty.com/management/2021/11/survey-mayors-sheds-light-arpa-spending-priorities/187122/>

ARPA Timeline:

- August 13, 2021 Staff developed “Initial List of Projects”
- August 19, 2021 Special Commission Meeting – FY 22 Tentative Budget
- September 23, 2021 Special Commission Meeting – FY 22 Budget Approval
- September 27, 2021 Final execution of ARPA grant contract
- October 14, 2021 Received our initial tranche in the amount of \$3,860,329.00
- November 08, 2021 Staff project review and selection
- December 03, 2021 City News and Notes - ARPA Public Comment and email contact
- December 10, 2021 City News and Notes - ARPA Public Comment and email contact
- December 13, 2021 Commission Meeting - Public Hearing and Presentation, uses for funding
- January 11, 2022 The Break Room Podcast – ARPA Funding Uses and Requirements
- January 14, 2021 City News and Notes - ARPA Public Comment and email contact info
- January 18, 2022 Staff Project Review ARPA Workshop
- January 24, 2022 Staff Project Review ARPA Workshop
- January 31, 2022 Staff Project Review ARPA Workshop
- February 07, 2022 Staff Project Review ARPA Workshop
- February 14, 2022 Staff Project Review ARPA Workshop

Street Sweeper Timeline:

- December 13, 2021 Public Hearing and Presentation – City Commission approves purchasing of two sweepers.
- December 29, 2021 Utilities Dept and Fleet Operations discussion on models, repair, and quality concerns Ravo vs Elgin manufacturers and models.
- January 19, 2022 Utilities shared feedback from other municipal agencies utilizing and maintaining Ravo street sweeping equipment.
- January 20, 2022 General Services/Legal reviewed Purchasing and Maintenance contracts for sufficiency.
- January 25, 2022 Utilities Dept and Fleet Operations meet for final discussion and selection for purchase.
- February 2, 2022 Ordered Two Street Sweepers.
- Estimated Delivery early March and August

City of St. Augustine

American Rescue Plan Initiatives

Initial list of projects 8/13/2021

	Total
Physical Security Measures:	
Replace Gate Code Systems at all facilities to proxy & bar code.	
Keyless Entry System requested in PD Budget	17,000
Interogation Room Camera Upgrades	20,815
City Hall Elevators - Door Lock Monitoring	34,800
Waterworks building - fencing with gate	32,500
Wastewater Treatment Plant-Security Camera system	29,000
	134,115
Information Technology Upgrades:	
WiFi Throughtout the City Facilities - city hall & 50 bridge	100,000
Wifi at the PD	14,588
High speed internet at the Fleet Maintenance Building	
Cyber Security Investments and Policy Creation for Disclosure	
Building plans scanning project	40,000
Police - Interrogation Room camera/video upgrade	20,815
	175,403
Rehabilitation of City Facilities & Deferred Maintenance:	
Wastewater Treatment Plant Roof & HSP Repairs	170,000
Water Treatment Plant NaOH Tank	80,000
Galimore Center HVAC Replacement	57,559
VIC Gift Shoppe Roof	355,000
VIC Gift Shoppe Dehumidifying AC Unit	70,000
50 Bridge Street New Floors & interior painting	47,171
City Hall Roof Repalcement/Repairs	120,000
City Entry Signs	
Public Art	
Water Treatment Plant pump repairs	65,000
Wastewater Treatment Plant- HVAC & duct repairs	25,000
Evidence Storage Building for Accreditation	185,000
	1,174,730
Capital Equipment Replacement:	
Side loader x2	570,000
Ladder Truck for the Fire Department - Interfund Loan	
Paving Machine	125,000
Street Sweeper	223,000
Police Vehicles for Take Home Car Program	
Excavator	115,000
Fork truck for CD dumpsters and new commercial dumpsters	85,000

City of St. Augustine

American Rescue Plan Initiatives

Initial list of projects 8/13/2021

Capital Equipment Replacement: (Continued)

Pickup truck with tommy gate	65,000
30 yard solar compactor for Francis Field special events	40,000
Hot pressure washer Clean waste vehicles	7,000
2 Police Motorcycles	53,241
Wastewater treatment plant goodwin pump	48,000
VIC Center - replace GATOR vehicle	28,000
VIC Center - replace Golf Cart vehicle	28,000
Wastewater treatment - Crane replacement x2	40,000
Stormwater - Camel Vac-truck	
	1,427,241

Grand Total	\$ 2,911,489
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Items without a cost estimate

Approximately \$3.5M remaining to utilize

Evolution of Proposed Projects

Brandon	Cyber security	\$650,000	will send detail
Todd	SCADA	\$650,000	could be more?
Jonathan	WAUG	\$2,000,000	ensure eligible based on outside City limits
Jessica	SW Master Plan	\$2,000,000	eligible under CWSRF
Todd	WWTP Outfall Rehab	\$500,000	eligible under CWSRF
Todd	Sludge Centrifuge	\$700,000	eligible under CWSRF

Revenue Reduction

Street Sweeper	\$500,000	eligible under CWSRF
Police Cars	\$250,000	eligible at all?
Evidence Shed	\$200,000	eligible at all?
Side Loader	\$350,000	eligible at all?

\$7,800,000

POC	Project	Proposed Cost	Reference
Other Projects			
Brandon	Cyber security - Protect City IT infrastructure	\$504,000	will send detail - Interium Rule Pg 26801 & 26803; FAQ 3.8 Pg15, 6.1 Pg 28, 6.6 Pg29; (<i>Move down to revenue reduction? Recommend as a safe purchase as long as IT's narrative can prove our "city" cybersecurity improvements protect water and sewer infrastructure</i>)
Todd	SCADA - Lift Station monitoring and controls.	\$650,000	could be more? FAQ 6.1 Pg27-28; Treasury SLFRF EC-5.3; CWSRF Pg15; FAQ 6.1 and CWSRF project category "DeCentralized Wastewater Treatment")
Jonathan	WAUG - Septic to sewer conversion.	\$2,000,000	ensure eligible based on outside City limits - Treasury SLFRF Pg3,4,5,20,22,24 & and EC-5.5; CWSRF Pg7, 15, &22 (<i>Recommend purchase under Treasury SLFRF Guidance and CWSRF Clean Water: Other Sewer Infrastructure - Need to describe the approach, goals, and type of project pursued</i>)
Jessica	SW Master Plan	\$2,000,000	eligible under - FAQ 6.12 Pg31; Treasury SLFRF EC-5.6; CWSRF Pg24 (<i>Recommend purchase under FAQ 6.12 and CWSRF project category "Planning/Assessment - Stormwater Management Plans"</i>)
Todd	WWTP Outfall Rehab	\$500,000	eligible under CWSRF FAQ 6.1 Pg27-28; Treasury SLFRF EC-5.1; CWSRF Pg8; FAQ 6.1 and CWSRF project category "Centralized Wastewater Treatment - Primary/Secondary")
Todd	UV Disinfection Sludge Centrifuge Rehab	\$700,000	same as above
Revenue Reduction			
	Street Sweeper	\$566,540	FAQ 6.1 Pg27-28, eligible under CWSRF Pg13 (<i>Recommend purchase under FAQ 6.1 and CWSRF project category "Stormwater - Gray Infrastructure"</i>)
	Police Cars	\$250,000	eligible at all?
	Evidence Shed	\$200,000	eligible at all? <i>Potentially eligible under FAQ 4.2 Pg 19 but unclear in SSA 603(c)(1)(c) Pg14 provision of gov't services reduction in revenue.</i>
	Side Loader	\$350,000	eligible at all?
		\$7,720,540	
Other COSA Needs			
	WWTP Roof		<i>Potentially eligible under FAQ 4.2 Pg 19 but unclear in SSA 603(c)(1)(c) Pg14 provision of gov't services reduction in revenue.</i>

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Jessica	SW Master Plan	\$2,110,000	eligible under - FAQ 6.12 Pg31; Treasury SLFRF EC-5.6; CWSRF Pg24 (<i>Recommend purchase under FAQ 6.12 and CWSRF project category "Planning/Assessment - Stormwater Management Plans"</i>)
Todd	WWTP Outfall Rehab	\$550,000	eligible under CWSRF FAQ 6.1 Pg27-28; Treasury SLFRF EC-5.1; CWSRF Pg8; FAQ 6.1 and CWSRF project category "Centralized Wastewater Treatment - Primary/Secondary")
Todd	UV Disinfection-Sludge Centrifuge-Rehab		same as above
Todd	WWTP Generator	\$550,000	
Revenue Reduction			
	Street Sweepers (X2)	\$500,000	FAQ 6.1 Pg27-28, eligible under CWSRF Pg13 (<i>Recommend purchase under FAQ 6.1 and CWSRF project category "Stormwater - Gray Infrastructure"</i>)
	Police Vehicles	\$120,000	Eligible under FAQ 4.2 Pg 19, Pg14 provision of gov't services reduction in revenue.
	Evidence Shed	\$200,000	Eligible under FAQ 4.2 Pg 19, Pg14 provision of gov't services reduction in revenue.
	Garbage Trucks (X2) Side Loader	\$670,000	Eligible under FAQ 4.2 Pg 19, Pg14 provision of gov't services reduction in revenue.
		\$7,720,000	

POC	Project	Proposed Cost	Reference
Other Projects			
Brandon	Cyber security - Protect City IT infrastructure	\$510,000	Eligible under: Final Rule pg 259- 260; Interium Rule Pg 26801 & 26803; FAQ 3.8 Pg15, 6.1 Pg 28, 6.6 Pg29
Todd	SCADA - Lift Station monitoring and controls.	\$510,000	Eligible under: Final Rule pg 271; FAQ 6.1 Pg27-28; Treasury SLFRF EC-5.3; CWSRF Pg15; <i>FAQ 6.1 and CWSRF project category "DeCentralized Wastewater Treatment"</i>
Jonathan	WAUG - Septic to sewer conversion.	\$2,000,000	Eligible under: Final Rule pg 271; Treasury SLFRF Pg3,4,5,20,22,24 & and EC-5.5; CWSRF Pg7, 15, &22 (<i>Recommend purchase under Treasury SLFRF Guidance and CWSRF Clean Water: Other Sewer Infrastructure - Need to describe the approach, goals, and type of project pursued</i>)
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Todd	WWTP Outfall Rehab	\$550,000	Eligible under CWSRF FAQ 6.1 Pg27-28; Treasury SLFRF EC-5.1; CWSRF Pg8; <i>FAQ 6.1 and CWSRF project category "Centralized Wastewater Treatment - Primary/Secondary"</i>
Todd	UV Disinfection- Sludge Centrifuge- Rehab		same as above
Todd	WWTP Generator	\$550,000	Eligible under CWSRF FAQ 6.1 Pg27-28; Treasury SLFRF EC-5.1; CWSRF Pg8; <i>FAQ 6.1 and CWSRF project category "Centralized Wastewater Treatment - Climate Resilience for Treatment Works"</i>
Revenue Reduction			
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		\$7,720,000	

Capital Improvements Plan



CITY OF ST. AUGUSTINE CITY COMMISSION SPECIAL MEETING AGENDA MONDAY, AUGUST 09, 2021 3:00 P.M. ALCAZAR ROOM

- 1. Call to Order.**
Roll Call.
- 2. General Public Comments.**
- 3. Discussion of the Utility and Public Works Capital Improvement Plan (CIP) Projects.** *(R. Franklin and T. Grant, Directors, Public Works and Utilities)*
- 4. Financial Analysis/ Review of City-Wide Capital Improvement Projections.** *(M. Simpson, Director, Finance)*
- 5. Discussion of Projects Involving Potential Future Borrowing.** *(M. Simpson, Director, Finance)*
- 6. Adjourn.**

NOTICES: In accordance with Florida Statute 286.0105: "If any person decides to appeal any decision made by the City Commission with respect to any matter considered at this scheduled meeting or hearing, the person will need a record of the proceedings, and for such purpose the person may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based." In accordance with the Americans with Disabilities Act, persons needing a special accommodation to participate in this proceeding should contact the individual or agency sending notice not later than seven days prior to the proceeding at the address given on the notice. Telephone (904) 825-1007; 1-800-955-8771 (TDB) or 1-800-955-8770 (V), via Florida Relay Service. Please note that one or more members of the City Commission or its appointed boards or committees may attend this meeting and participate, however they may not engage in a discussion or debate amongst themselves on any issue that will likely come before their respective elected or appointed body. The materials prepared and presented are part of the City's ongoing Florida Public Records and Government in the Sunshine compliance and are not intended to be relied upon or to reach investors or the trading markets.



CITY OF
ST. AUGUSTINE
EST. 1565

City Commission

Public Works & Utilities

Capital Improvements Plan (CIP)

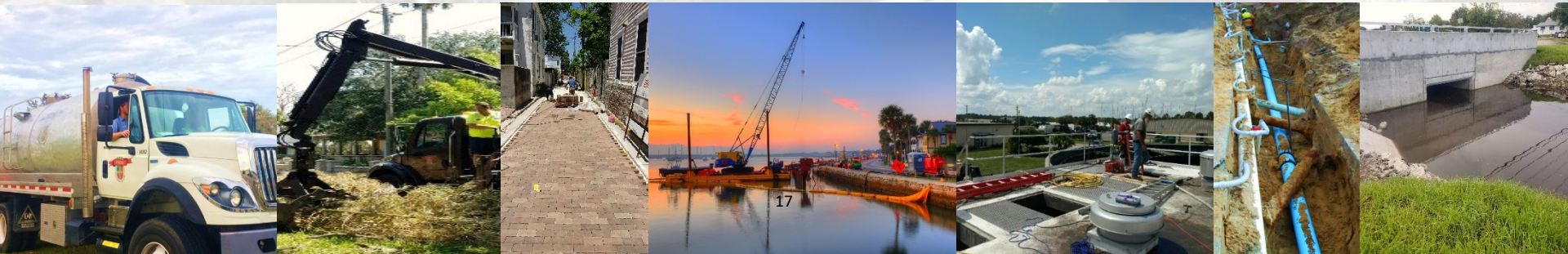
August 9, 2021

Todd J. Grant, P.G.

Director, Utilities

Reuben C. Franklin, Jr., P.E.

Director, Public Works





Public Works & Utilities CIP Agenda

Key Updates

- 13 Lift Station Rebuilds (FEMA)
- Resilience Program
- West Augustine Sewer Improvements
- Upcoming FY2022 CIP Plans & Projects

Overview

- CIP Overall Status Summary



CITY OF

ST AUGUSTINE
EST. 1565

FEMA 13 LIFT STATIONS REHABILITATION

- ❖ Construction Cost \$13.8M
- ❖ Start Construction
 - ❖ January 2021
- ❖ Est. Finish Construction
 - ❖ February 2023
- ❖ LS-23 Substantially Complete
- ❖ LS-5, 21, 22, 23, 24 under construction
- ❖ Arricola Ave. Force Main
 - ❖ April – August 2022

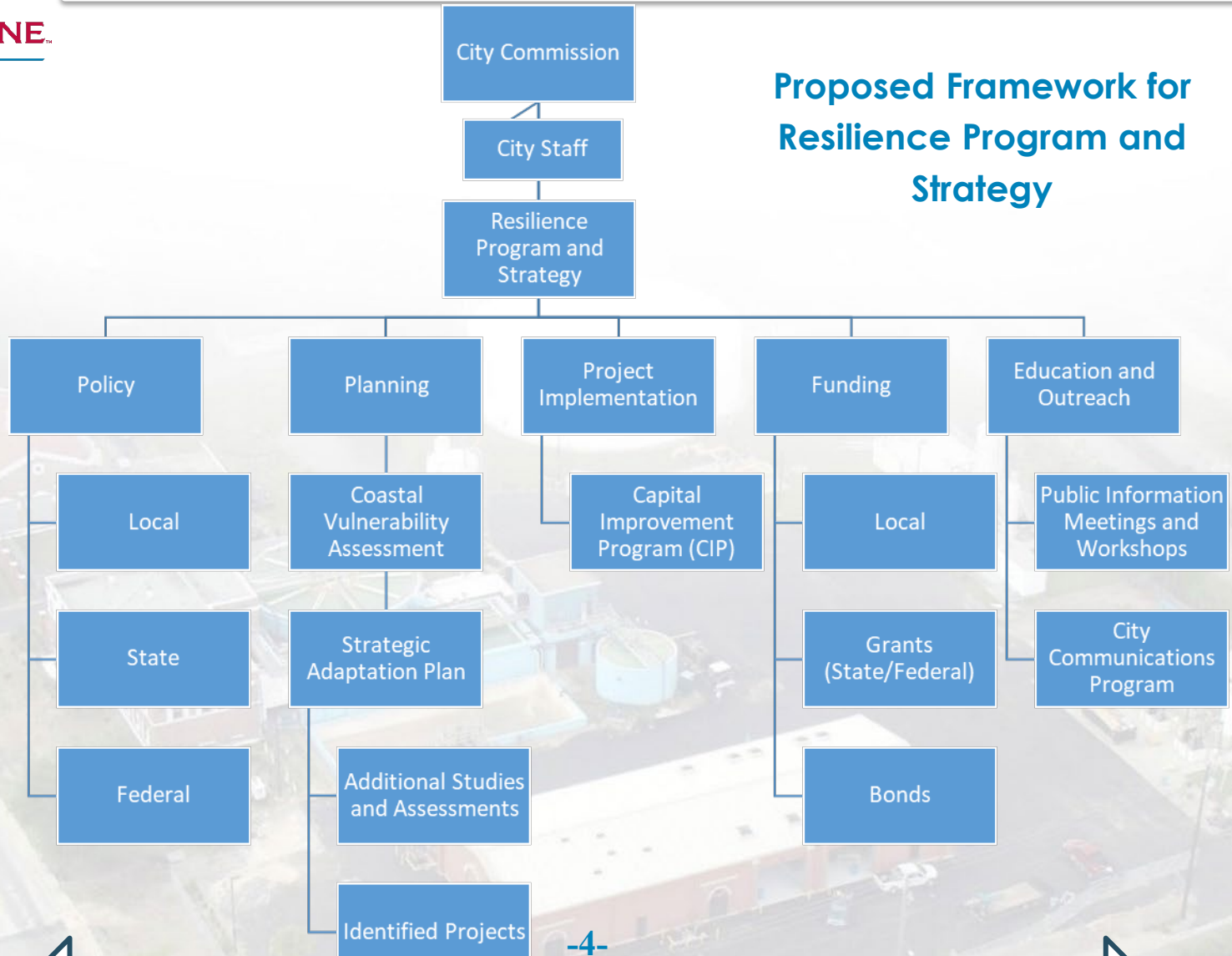




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ST. AUGUSTINE
EST. 1565

Resilience Program Updates

Proposed Framework for Resilience Program and Strategy





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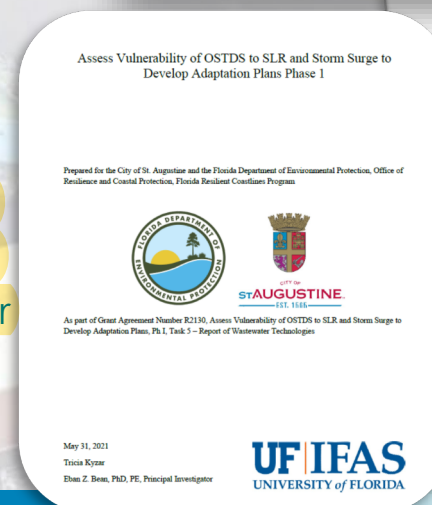
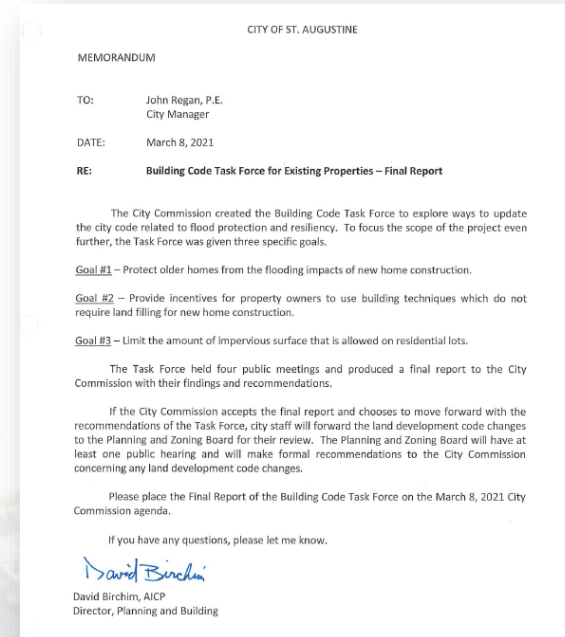
Resilience Program Updates

❖ Policy

- ✓ Building Code Task Force Recommendations went to Commission and is currently before the Planning and Zoning Board
- ✓ Monitoring State legislative session related to Resiliency bills

❖ Planning

- ✓ UF Septic Tank Sea Level Rise Study - Completed
- ✓ Final report for the South Davis Shores Resiliency Master Plan
- ✓ Looking ahead for Phase 2 of the South Davis Shores Resiliency Master Plan as a pilot for the Citywide Stormwater Master Plan Update





Resilience Program Updates

❖ Project Implementation

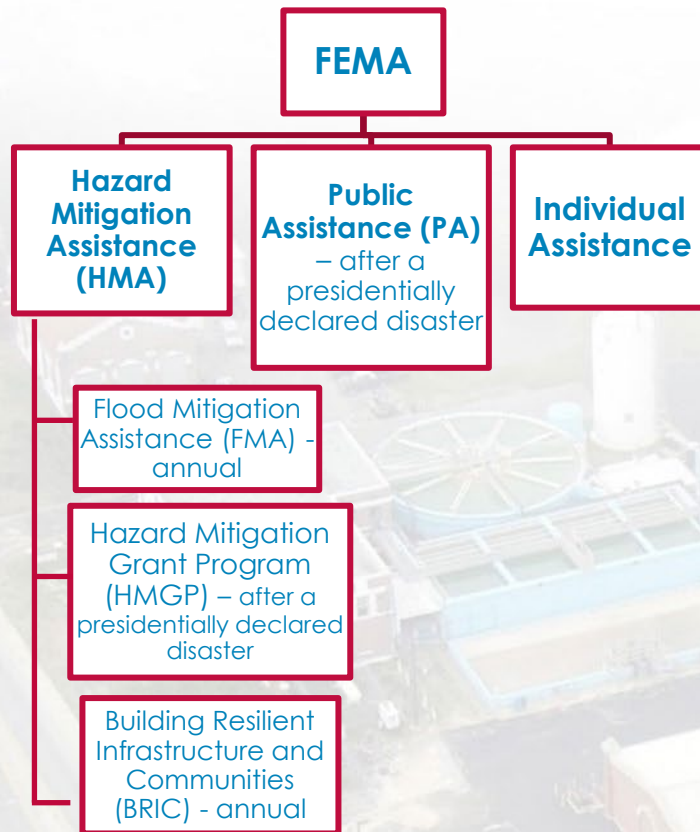
- ✓ FEMA 13 Lift Stations Rehabilitation - under construction
(www.CityStAug.com/FEMA13)
- ✓ Lake Maria Sanchez Flood Mitigation and Drainage Improvement Project (HMPG)– proceeding with design
(www.CityStAug.com/LakeMariaSanchez)
- ✓ Avenida Menendez Flood Barrier (HMGP) – Phase 1 @ 30% Design
- ✓ South Whitney West King Street Flood Mitigation (HMGP) – received approval for Phase 2 construction from the State and FEMA
- ✓ Stormwater – CIP for next FY - cleaning, inspection, rehab and/or lining of storm pipe in priority locations





Resilience Program Updates

❖ Funding - Federal – FEMA Programs



❖ Funding - State –

- Resilient Florida – new from the State Legislature – s. 380.093, F.S.
 - Planning and implementation/adaption grants available annually
- Rebuild Florida – through Dept. of Economic Opportunity (DEO) – General Infrastructure Program (GIP)
 - \$175M for long-term mitigation efforts available in Round 2

Resilience Program Updates

❖ Funding Continued

✓ Federal – FEMA’s Flood Mitigation Assistance (FMA) Program

- Competitive grant program – available annually
- Funds can be used for projects that reduce or eliminate the risk of repetitive flood damage to buildings insured by the National Flood Insurance Program
- Contract in place with Quality Engineering
- Outreach coming last week of August

✓ State –

- Resilient Florida – deadline September 1, 2021
 - Planning grants (\$20M) – City’s Stormwater Master Plan Update – Phase 2
 - Implementation/adaptation grants (\$500M, American Rescue Plan Act)
 - Lake Maria Sanchez Flood Mitigation and Drainage Improvement Project
 - South Whitney and West King Street Flood Mitigation and Drainage Improvement Project
- Rebuild Florida – deadline September 17, 2021
 - \$175M for long-term mitigation efforts
 - Lake Maria Sanchez Flood Mitigation and Drainage Improvement Project



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EST. 1565

Resilience Program Updates

❖ Education and Outreach

- ✓ City Staff continue to conduct individual flood mitigation site visits
- ✓ Lakeview Condo Association – April 28, 2021
- ✓ Town of Westbrook Council of Beach Association (Connecticut) – June 7, 2021
- ✓ Leadership St. Johns – Agricultural and Environmental Day – June 10, 2021
- ✓ Keeping History Above Water Conference – Army Corps of Engineers Back bay Feasibility Study (3x3x3) - lessons learned panel – City of Charleston, SC; City of Norfolk, VA and Miami-Dade County





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EST. 1565

West Augustine Sewer Improvements

West Augustine Sewer Master Plan, Scope Development with Consultant:

- ❖ Create an overall sewer plan to serve the greater West Augustine area.

West 3rd Street Sewer Extension, Identified for State Funding:

- ❖ Expected to Eliminate 20 Residential Septic Tanks and connect area residents to sewer on West 3rd Street between Volusia and Duval Streets
- ❖ Submitted for match funding through FDEP's Water Protection Grants Program

West 5th Street Sewer Extension, Complete:

- ❖ State Grant (FDEP) and City Funded; Installed new gravity sewer on West 5th Street between Volusia and Nassau Streets and connected area residents
- ❖ Installation of new gravity sewer mains, manholes, and services is complete
- ❖ Abandoned 25 existing septic systems and connected residents to new sewer system

Septic-to-Sewer Connections – In Progress:

- ❖ City Funded; Connect residents to existing gravity sewer systems
- ❖ To date, abandoned 57 existing septic systems and connected residents to existing sewer system
- ❖ Researching additional homes with existing gravity sewer available for connection program



CIP Overall Status Summary

Capital Improvement Projects – Through August 9, 2021

Project Scope Development	Conceptual Analysis & Studies	Preliminary Design	Final Design	Bidding Construction Contract	Construction Phase	Substantial Completion	Final Completion
Parking Pay Station Flood Proofing	St. Francis Street Utility Improvements	Lake Maria Sanchez Flood Mitigation	Sevilla St Roadway & Utility Improvements	City Marina Crosswalk*	S. Orange Street Utility Adjustments (SJC)	Avenue D Utility Adjustments (SJC)	West San Carlos – May Street Improvements
South Tank Potable Water Fill Line	San Sebastian WM HDD King Street	Avenida Menendez Seawall (HMGP) ⁽¹⁾	Duero & Cerro Utility and Storm Improvement	S. Whitney & W. King Flood Mitigation ⁽¹⁾	I&I Gravity and Lateral Cleaning, Inspection and Rehabilitation	Lift Station 23 (in the Plaza – FEMA 13)	South Davis Shores Resiliency Master Plan
SCADA Master Plan	City-wide TIDE Valve Master Planning	Inlet Drive Shoreline Restoration*	WWTP Headworks Rehabilitation	WTP Motor Control Center Replacement	Hurricane Matthew FEMA 13 Lift Station Rehabilitation	WWTP Motor Control Center Replacement	I&I Clean and CCTV Sanitary Sewer Basins 1, 14, 49, 53, 54
SB 64 Plan	W Augustine Gravity Sewer Master Plan	West 3 rd Street Gravity Sewer Improvements	King Street Drainage (FDOT)	Automatic Meter Reading Phase 4	I&I Sanitary Manhole Rehab Basin 52		I&I Clean and CCTV Sanitary Sewer Basins 30, 35, 43, 57, 58
Pearl Street FM Improvements	Lift Station 14 Replacement	Santa Rosa Utility Adjustments (SJC)	I&I Prioritize Sanitary Sewer R&R	I&I Smoke Testing Sanitary – 16 Basins	S. Orange Street Utility Adjustments (SJC)		2021 Paving Program
	Lift Station 8 Replacement	SR 312 from 207 to Holmes Util Adj (FDOT)	S. Holmes Utility Adjustments (SJC)	I&I Clean & Inspect Sanitary – 10 Basins	Arriola Ave Force Main HDD Improvements		
	Lift Station 41 Replacement	Stormwater CIPP Lining for Valves	N. Rodriguez Street Utility Adj (SJC)	RO Concentrate Discharge			
	Pearl Street Gravity Sewer	Oyster Creek Force Main HDD (FDOT)	Downtown Improvement District Phase 2	West Augustine Septic to Sewer Connections			
	Stormwater Master Plan Update Phase 2						

Key:

⁽¹⁾ Grant Dependent

⁽²⁾ Developer Dependent

^(*) Postponed

^(**) Phase Complete

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South Tank Potable Water Fill Line	San Sebastian WM HDD King Street	Avenida Menendez Seawall (HMGP) ⁽¹⁾	Duero & Cerro Utility and Storm Improvement	WTP Motor Control Center Replacement	I&I Gravity and Lateral Cleaning, Inspection and Rehabilitation	Lift Station 23 (in the Plaza – FEMA 13)	South Davis Shores Resiliency Master Plan
SCADA Master Plan	City-wide TIDE Valve Master Planning	Inlet Drive Shoreline Restoration*	WWTP Headworks Rehabilitation	Automatic Meter Reading Phase 4	Hurricane Matthew FEMA 13 Lift Station Rehabilitation	WWTP Motor Control Center Replacement	I&I Clean and CCTV Sanitary Sewer Basins 1,14,49,53,54
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	Lift Station 41 Replacement	Stormwater CIPP Lining for Valves	N. Rodriguez Street Utility Adj (SJC)	West Augustine Septic to Sewer Connections			
	Pearl Street Gravity Sewer	Oyster Creek Force Main HDD (FDOT)	Downtown Improvement District Phase 2				
	Stormwater Master Plan Update Phase 2						

Key:

⁽¹⁾ Grant Dependent

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^(**) Phase Complete

Utilizing FY2022 Funds

Requiring Loans or Grants



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EST. 1565

Additional Questions and Commission Discussion

Capital Improvement Plan by Project						
Project Description	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026
Auto. Meter Reading Program	1,050,000	-	-	-	-	-
Budgetary Capital Outlay	840,000	431,000	443,930	457,248	470,965	485,094
City Buildings and City Buildings Wi-Fi	-	100,000	25,000	15,000	15,000	-
Cuna Street (Downtown Improvements)	-	2,300,000	-	-	-	-
Fire Truck Replacement Schedule	-	1,000,000	-	-	-	-
HDPF Maintenance	718,000	250,000	250,000	250,000	250,000	250,000
Headworks Replacement & BTU Expansion	-	4,450,000	-	-	-	-
I&I Elimination Program	960,000	650,000	650,000	700,000	700,000	700,000
Island Fire Station	-	-	2,825,000	-	-	-
King St. 16-inch SubAqueous	-	400,000	-	-	-	-
King Street Drainage	110,000	-	679,000	1,903,836	-	-
Lake Maria Sanchez	542,438	10,862,350	10,862,350	-	-	-
Lift Station Improvements (FEMA 13)	2,296,638	3,800,965	3,800,965	3,800,965	-	-
Lift Station Improvements (Other than FEMA-13)	475,000	500,000	1,000,000	1,000,000	1,000,000	200,000
MCC2 Repl WTP	-	1,000,000	-	-	-	-
Paving	500,000	-	510,050	515,151	520,302	525,108
Pearl St. Sewer Improvements	-	1,000,000	70,000	1,500,000	-	-
Police Department	-	-	-	2,500,000	-	-
RO Concentrate Discharge	-	4,000,000	-	-	-	-
S. Whitney W. King Improvements	-	1,022,607	-	-	-	-
Salt Run Dredging	200,000	200,000	200,000	200,000	200,000	200,000
Server Room/Server Upgrades	-	-	100,000	-	-	-
Sevilla Street	-	1,251,733	-	-	-	-
Sidewalks, Crosswalks	80,000	60,000	60,000	60,000	60,000	60,000
St Francis Sewer Replacement	-	100,000	1,000,000	-	-	-
St. George St, Aviles, Oviedo	-	-	518,321	225,300	-	-
Utility Relocation for Road Projects	200,000	400,000	100,000	100,000	100,000	100,000
W. Augustine Sewer	250,000	250,000	5,250,000	5,250,000	5,250,000	5,250,000
Wellfield Maintenance (wells & pump stations)	-	-	-	350,000	-	-
West 3rd street	-	1,068,000	-	-	-	-

\$ 8,222,076	\$ 35,096,655	\$ 28,344,616	\$ 18,827,500	\$ 8,566,267	\$ 7,770,202
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Indicates Potential Future Borrowing

Capital Improvement Plan by Funding Source						
Funding Source	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026
Gen Bond	-	1,000,000	2,825,000	2,500,000	-	-
Gen Grant	200,000	950,000	200,000	200,000	200,000	200,000
Gen Op	580,000	1,680,000	1,769,550	1,393,287	595,302	585,108
Storm Grant	281,492	11,747,117	10,862,350	-	-	-
Storm Op	91,247	529,202	122,821	-	-	-
Utility Future Bond	-	10,450,000	5,070,000	6,500,000	5,000,000	5,000,000
Utility Grant	2,009,558	3,899,251	3,325,845	3,325,845	-	-
Utility Operations	840,000	431,000	443,930	457,248	470,965	485,094
Utility R&R	2,451,779	4,160,085	3,475,121	4,201,121	2,050,000	1,250,000
Utility SRF	1,050,000	-	-	-	-	-
VIC Sinking Fund	718,000	250,000	250,000	250,000	250,000	250,000

\$ 8,222,076	\$ 35,096,655	\$ 28,344,616	\$ 18,827,500	\$ 8,566,267	\$ 7,770,202
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