Fiscal Year 2024 Cooperative Funding Initiative Applications Southern Region







Southwest Florida Water Management District

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Project Name	SWF Project Number	Total Funding
Braden River WMP Update (Q347)	Q347	\$1,139,250.00
Buffalo Canal/Frog Creek - Update (Q337)	Q325	\$465,000.00
Cedar Hammock West and South and Palm Sola Watersheds (Q344)	Q329	\$418,500.00
City of Anna Maria Stormwater Improvements Project - Phase N	Q357	\$434,990.00
CITYWIDE MAPPING PROJECT (CITY OF SARASOTA, SARASOTA BAY)	Q360	\$1,000,000.00
Gamble Creek Watershed - Update	Q367	\$240,000.00
HAWKINS COURT AND JULIA PLACE STORMWATER IMPROVEMENT PROJECT	Q369	\$225,000.00
Integrated Regional Water Supply Master Plan – 2025 Update	Q370	\$350,000.00
Lake Manatee Watershed	Q374	\$984,000.00
Palmetto Toilet Rebate Program- Phase 3	Q381	\$9,500.00
Peace River Regional Reservoir No. 3 (PR3) – Final Design and Construction	Q272	\$269,500,000.00
PELICAN DRIVE STORMWATER IMPROVEMENT PROJECT	Q382	\$200,000.00
Phases J, K, and L Water Quality Improvements	Q383	\$1,250,000.00
Piney Pointe, Bishops harbor and Curiosity Creek Watersheds (Q310)	Q315	\$720,750.00
Reclaimed Water ASR	Q050	\$2,744,876.00
Regional Integrated Loop System Phase 2B Interconnect - Design- Build	Q355	\$37,250,000.00
Regional Integrated Loop System Phase 3C Interconnect and Pump Station - Design-Build	Q313	\$35,050,000.00
Regional Reclaimed Water Supply System Feasibility Study	Q385	\$200,000.00
SW IMP - Water Quality - Central Holmes Beach BMPs - Phases F, G, and H	W105	\$768,750.00
University Park Country Club	Q392	\$427,348.00
Overall - Total		\$353,377,964.00

FY 2024 Cooperative Funding Initative Application Form

Project Name: Braden River WMP Update (Q347)

Project Number: Q347	Cooperator: Manatee County
Contact Person: Kenneth Kohn, Sr. Project Engineer Public Works Department	Department:
Address: 1022 26th Avenue East	Phone #: 9417087450
City State Zip: Bradenton, FI 34208	Ext: 7254
Email: kenneth.kohn@mymanatee.org	
Project Type:	
Flood Protection, Water Quality	
Strategic Initiatives:	
Floodplain Management	Water Quality Maintenance and Improvement

Project Description/Benefit/Cost

Description:

Fiscal Year 2024 Funding will be used to complete the project. The impacts in this watershed from the recent Hurricane Ian (September 2022) further highlights the need to update this model. This project is to perform 1) Watershed Evaluation, and 2) Watershed Management Plan elements of the District's Watershed Management Program (WMP); 3) Alternatives Analysis for flood mitigation and Surface Water Resource Assessment for the Braden River Watershed portion in Manatee County. This watershed is roughly 49 square miles (portion in Manatee County) and is depicted on the attached Watershed Map. A watershed management plan was initiated in 2003 and Governing Board Approved May 21, 2013. The effective date of the model is 2004. Therefore, an update to the model is necessary to reflect the tremendous growth and new development in this watershed. The purpose of this study is to determine floodplain delineation resulting from a 100-year/24-hour storm frequency rainfall event, flood mitigation alternatives and for water quality improvement analysis. The watershed consists primarily of mixed residential areas, with commercial/industrial development and minimal agricultural lands and has existing flooding problems and is a flood prone watershed identified by Manatee County. Given the known flooding that was already in existence and now with the extensive development it is critical to update flood stages to reflect this almost fully developed watershed as well as to propose flood mitigation alternatives and water quality assessment for the older portions. This watershed is flood prone under Land Development Code (Section 802.1 and the Stormwater Management Design Manual Section 2.3.1). The flood mitigation alternatives analysis will provide cost/benefit options for reduction in flood stages in flood prone areas. County also will use this information to update FEMA FIRM Maps which for this area are 30 years old. This project completes a Surface Water Resource Assessment (SWRA) and Water Quality BMP (Best Management Practices) Alternatives Analysis (referred to as a 'BA', collectively) for the project area to identify Water Quality improvement options. The principal product of this Water Quality task will be guidance on pollutant load reduction strategies within the project watershed, including structural, non- structural or natural systems BMPs to improve water quality within the project waterbodies and receiving waters. Guidance will include BMP cost effectiveness estimates, but in highly developed areas may preferentially focus on Low Impact Development (LID) retrofits. Water Quality benefits will also be incorporated in the Flood Alternatives Assessment. The project watershed is a tributary to Tampa Bay, a SWIM priority waterbody. The project is compatible with Water Quality improvement objectives of the Tampa Bay SWIM plan. Work products should be compliant with the emerging Tampa Bay Regional Resiliency Coalition guidance for community resiliency to climate change and sea level rise.

Benefit:

Watershed model and floodplain analysis and cost-effective flood mitigation alternatives provide information that is critical to better identify risk of flood damage and cost-effective flood mitigation alternatives as well as for planning and future development. Currently, flood analysis models are not available and are over 20 years old. The impacts in this watershed from the recent Hurricane Ian (September 2022) further highlights the need to update this model. This watershed includes regional or intermediate stormwater systems. Resource benefit includes analysis of flooding and water quality problems that exist in the watershed. The study also assists in obtaining lower ranking in the FEMA CRS which may lead to lower flood insurance premiums. This study was performed in ICPR v3 and will be updated to the latest ICPR v4. The Water Quality tasks will represent findings as a prioritized list of financially feasible - or practically feasible in the event of LID applications - watershed-specific pollutant load reduction strategies to improve water quality within the project watershed and receiving waters. It is the County's intent to use the resulting guidance to support water quality improvements in the project watershed, including the incorporation of water quality improvements in flood protection projects. Proposed BMPs will be prioritized on measurable benefit(s), resilience factors and cost effectiveness. Additional protection to water quality within the Evers Reservoir and the adjacent Class I streams that serve as the principal potable water source for the City of Bradenton.

FY 2024 Cooperative Funding Initative Application Form

Cost:

Total project cost: \$2,278,500. Manatee County Cost-\$1,139,250. District Cost \$1,139,250. Cost was estimated based on on-going Watershed Studies and assistance from SWFWMD staff with estimate of \$46,500 per square mile (\$1.5K for LiDAR, \$15K each for Watershed Eval., Floodplain Analysis, and Alternatives Analysis), for the 49 square mile watershed.

Describe your complementary efforts in developing, implementing and enforcing water conservation, water quality and flood protection ordinances.

The Manatee County Land Development Code, Section 801.3.E and Stormwater Management Design Manual Section 2.31., authorizes up to a 50% reduction of allowable discharge rate from any new development in a flood prone area. Manatee County has 11 watersheds which have a 50% reduction in allowable runoff for new developments. The aforementioned policy assists the County with the CRS together with County floodplain policy for discounted flood insurance premium rates. The County has established 25-year 24-hour floodplains that have also been mapped into GIS and for which compensation is required in addition to encroachment that occurs in the 100-year FEMA Floodplain. County Land Development Code 802.6.B establishes floodplain management standards and minimum finished floor elevations to protect from flooding. Land Development Code 801 protects quantity and quality of ground and surface waters, groundwater recharge, prevent and reduce saltwater intrusion, prevents adverse impacts on adjacent property from diverting flow of surface water, and prevent flood hazards and flood proofing to prevent property damage and loss of life. In addition to reductions noted above, County requires conformance with SWFWMD ERP regulations and special protection within watershed protection areas such as Evers Watershed and Lake Manatee Reservoir. County maintains GIS database including stormwater inventory and FEMA floodplain areas. The County stormwater inventory has also been converted into the GWIS format utilized by the SWFWMD including an electronic copy of existing stormwater system and ERP related record drawings. County cooperatively assists with precipitation and stream gages in the County and area including 27 rain and stream gauges that will provide information for the watershed study. In addition to reductions noted above, County requires conformance with SWFWMD ERP regulations and provides special water quality protections within the watersheds of potable water reservoirs such as the Evers Reservoir and Lake Manatee. The County implements all elements of a Phase-I NPDES MS4 permit which includes various BMPs, protection from illicit discharges and requires routine inspections and enforcement for compliance with applicable water quality standards including those relating to impaired waters and TMDLs. The Storm Water Management Program (SWMP) provides the following water quality improvement services: 1) County-wide (jurisdictional Manatee County) street sweeping and data collection and analyses to estimate pollutant load reduction benefits from this program; 2) County-wide MS4 inspection and maintenance program for structural controls and roadway collection systems, 3) Public education and outreach elements including storm drain stenciling, support for Florida Friendly Landscaping (tm) and specialized outreach channels such as the Manatee Water Atlas and 5) Miscellaneous services such as Adopt-a-Road, litter collection and household hazardous waste collection. The County NPDES-MS4 permit includes an approved monitoring program. SWMP effectiveness is formally evaluated annually. The County has adopted Ordinances regulating Illicit Connections and Discharges through the MS4 (00-02), Fertilizer use (11-21) and Solid Waste (Pet Waste) disposal (85-11) that limit nutrients to receiving water bodies. The County also has a long-term environmental monitoring program (about 80 stations, 30 year record) and a credentialed environmental laboratory to evaluate the success of regional environmental management initiatives. Manatee County is a participant in the Tampa Bay Nitrogen Management Consortium. A long-term water guality monitoring program within the Braden River watershed and the Evers Reservoir by PNRD. An Interlocal Agreement between the City of Bradenton and Manatee County (2011) to monitor impacts from the large-scale use of reclaimed water in Lakewood Ranch by Braden River Utilities.

Funding Source	Prior Funding	FY2023	FY2024	Future Funding	Total Funding
Applicant Share	0	569,625	569,625	0	1,139,250
District Share	0	569,625	569,625	0	1,139,250
Total	0	1,139,250	1,139,250	0	2,278,500

Matching Fund Reduction

Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines	
Project Development	3/31/23
Watershed Evaluation	12/31/23
Floodplain Analysis	12/31/24
Surface Water Resource Assessment	12/31/25
Alternatives Analysis	12/31/26

FY 2024 Cooperative Funding Initative Application Form

Project Name: Buffalo Canal/Frog Creek - Update (Q337)

Project Number: Q325	Cooperator: Manatee County
Contact Person: Kenneth Kohn, P.E., Sr. Project Engineer Public Works Department	Department:
Address: 1022 26th Avenue East	Phone #: 9417087450
City State Zip: Bradenton, FI 34208	Ext: 7254
Email: kenneth.kohn@mymanatee.org	
Project Type:	
Flood Protection, Water Quality	
Strategic Initiatives:	
Floodplain Management	Water Quality Maintenance and Improvement

Project Description/Benefit/Cost

Description:

This project is to perform 1) Watershed Evaluation, and 2) Watershed Management Plan elements of the District's Watershed Management Program (WMP); 3) Alternatives Analysis for flood mitigation and Surface Water Resource Assessment for the Braden River Watershed portion in Manatee County. The impacts in this watershed from the recent Hurricane Ian (September 2022) further highlights the need to update this model. This watershed is roughly 20 square miles and is depicted on the attached Watershed Map. A watershed management plan was initiated in 2008 and Governing Board Approved October 26, 2010. The effective date of the model is 2005. Therefore, an update to the model is necessary to reflect the tremendous growth and new development in this watershed. The purpose of this study is to determine floodplain delineation resulting from a 100-year/24-hour storm frequency rainfall event, flood mitigation alternatives and for water quality improvement analysis. The watersheds consist primarily of mixed residential areas, with commercial/industrial development and agricultural lands and has existing flooding problems and is a flood prone watershed identified by Manatee County. Given the known flooding that was already in existence and now with the extensive development it is critical to update flood stages to reflect this developing watershed as well as to propose flood mitigation alternatives and water quality assessment for the older portions. This watershed is flood prone under Land Development Code (Section 802.1 and the Stormwater Management Design Manual Section 2.3.1). The flood mitigation alternatives analysis will provide cost/benefit options for reduction in flood stages in flood prone areas. County also will use this information to update FEMA FIRM Maps which for this area are 30 years old. This project completes a Surface Water Resource Assessment (SWRA) and Water Quality BMP (Best Management Practices) Alternatives Analysis (referred to as a 'BA'. collectively) for the project area to identify Water Quality improvement options. The principal product of this Water Quality task will be guidance on pollutant load reduction strategies within the project watershed, including structural, non-structural or natural systems BMPs to improve water quality within the project waterbodies and receiving waters. Guidance will include BMP cost effectiveness estimates, but in highly developed areas may preferentially focus on Low Impact Development (LID) retrofits. Water Quality benefits will also be incorporated in the Flood Alternatives Assessment. The project watershed is a tributary to Tampa Bay, a SWIM priority waterbody. The project is compatible with Water Quality improvement objectives of the Tampa Bay SWIM plan. Work products should be compliant with the emerging Tampa Bay Regional Resiliency Coalition guidance for community resiliency to climate change and sea level rise.

Benefit:

Watershed model and floodplain analysis and cost effective flood mitigation alternatives provide information that is critical to better identify risk of flood damage and cost effective flood mitigation alternatives as well as for planning and future development. Flood analysis models are available but are over 15 years old and do not reflect significant development that has occurred. The impacts in this watershed from the recent Hurricane Ian (September 2022) further highlights the need to update this model. This watershed includes regional or intermediate stormwater systems. Resource benefit includes analysis of flooding and water quality problems that exist in the watershed. The study also assists in obtaining lower ranking in the FEMA CRS which may lead to lower flood insurance premiums. This study was performed in ICPR v3 and will be updated to the latest ICPR v4. The Water Quality tasks will represent findings as a prioritized list of financially feasible - or practically feasible in the event of LID applications - watershed-specific pollutant load reduction strategies to improve water quality within the project watershed and receiving waters. It is the County's intent to use the resulting guidance to support water quality improvements in the project watershed, including the incorporation of water quality improvements in flood protection projects. Proposed BMPs will be prioritized on measurable benefit(s), resilience factors and cost effectiveness.

Cost:

Total project cost: \$930,000. Manatee County Cost-\$465,000. District Cost \$465,000. Cost was estimated based on on-going

FY 2024 Cooperative Funding Initative Application Form

Watershed Studies and assistance from SWFWMD staff with estimate of \$46,500 per square mile (\$1.5K for LiDAR, \$15K each for Watershed Eval., Floodplain Analysis, and Alternatives Analysis), for the 20 square mile watershed.

Describe your complementary efforts in developing, implementing and enforcing water conservation, water quality and flood protection ordinances.

The Manatee County Land Development Code, Section 801.3.E and Stormwater Management Design Manual Section 2.31., authorizes up to a 50% reduction of allowable discharge rate from any new development in a flood prone area. Manatee County has 11 watersheds which have a 50% reduction in allowable runoff for new developments. The aforementioned policy assists the County with the CRS together with County floodplain policy for discounted flood insurance premium rates. The County has established 25 year 24 hour floodplains that have also been mapped into GIS and for which compensation is required in addition to encroachment that occurs in the 100 year FEMA Floodplain. County Land Development Code 802.6.B establishes floodplain management standards and minimum finished floor elevations to protect from flooding. Land Development Code 801 protects quantity and quality of ground and surface waters, groundwater recharge, prevent and reduce salt water intrusion, prevents adverse impacts on adjacent property from diverting flow of surface water, and prevent flood hazards and flood proofing to prevent property damage and loss of life. In addition to reductions noted above, County requires conformance with SWFWMD ERP regulations and special protection within watershed protection areas such as Evers Watershed and Lake Manatee Reservoir. County maintains GIS database including stormwater inventory and FEMA floodplain areas. The County stormwater inventory has also been converted into the GWIS format utilized by the SWFWMD including an electronic copy of existing stormwater system and ERP related record drawings. County cooperatively assists with precipitation and stream gages in the County and area including 27 rain and stream gauges that will provide information for the watershed study. In addition to reductions noted above, County requires conformance with SWFWMD ERP regulations and provides special water quality protections within the watersheds of potable water reservoirs such as the Evers Reservoir and Lake Manatee. The County implements all elements of a Phase-I NPDES MS4 permit which includes various BMPs, protection from illicit discharges and requires routine inspections and enforcement for compliance with applicable water quality standards including those relating to impaired waters and TMDLs. The Storm Water Management Program (SWMP) provides the following water guality improvement services: 1) County-wide (jurisdictional Manatee County) street sweeping and data collection and analyses to estimate pollutant load reduction benefits from this program; 2) County-wide MS4 inspection and maintenance program for structural controls and roadway collection systems, 3) Public education and outreach elements including storm drain stenciling, support for Florida Friendly Landscaping (tm) and specialized outreach channels such as the Manatee Water Atlas and 5) Miscellaneous services such as Adopt-a-Road, litter collection and household hazardous waste collection. The County NPDES-MS4 permit includes an approved monitoring program. SWMP effectiveness is formally evaluated annually. The County has adopted Ordinances regulating Illicit Connections and Discharges through the MS4 (00-02), Fertilizer use (11-21) and Solid Waste (Pet Waste) disposal (85-11) that limit nutrients to receiving water bodies. The County also has a long-term environmental monitoring program (about 80 stations, 30 year record) and a credentialed environmental laboratory to evaluate the success of regional environmental management initiatives. Manatee County is a participant in the Tampa Bay Nitrogen Management Consortium. Long-term water quality status and tend monitoring data collected at the PNRD water quality station in Frog Creek.

Funding Source	Prior Funding	FY2023	FY2024	Future Funding	Total Funding
Applicant Share	0	232,500	232,500	0	465,000
District Share	0	232,500	232,500	0	465,000
Total	0	465,000	465,000	0	930,000

Matching Fund Reduction

Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

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Project Development	3/31/23
Watershed Evaluation	12/31/23
Floodplain Analysis	12/31/24
Surface Water Resource Assessment	12/31/25
Alternatives Analysis	12/31/26

FY 2024 Cooperative Funding Initative Application Form

Project Name: Cedar Hammock West and South and Palm Sola Watersheds (Q344)

Project Number: Q329	Cooperator: Manatee County
Contact Person: Kenneth Kohn, P.E., Sr. Project Engineer Public Works Department	Department:
Address: 1022 26th Avenue East	Phone #: 9417087450
City State Zip: Bradenton, FI 34208	Ext: 7254
Email: kenneth.kohn@mymanatee.org	
Project Type:	
Flood Protection, Water Quality	
Strategic Initiatives:	
Floodplain Management	Water Quality Maintenance and Improvement

Project Description/Benefit/Cost

Description:

This project is to perform 1) Watershed Evaluation, and 2) Watershed Management Plan elements of the District's Watershed Management Program (WMP); 3) Alternatives Analysis for flood mitigation and Surface Water Resource Assessment for the Cedar Hammock West and South and Palma Sola Watersheds. These watersheds comprise roughly 18 square miles and is depicted on the attached Watershed Map. The purpose of this study is to determine floodplain delineation resulting from a 100-year/24-hour storm frequency rainfall event, flood mitigation alternatives and for water quality improvement analysis. The watersheds consist primarily of residential areas with a mix of commercial/industrial development and has existing flooding problems. While the majority of these watersheds are developed, developable area remains. Given the known flooding in these older residential areas that were built without benefit of todays regulations and outdated floodplain information, it is critical to establish updated flood stages to protect from adverse impacts from flooding as well as to propose flood mitigation alternatives and water quality assessment. These watersheds are flood prone areas under Land Development Code (Section 802.1 and the Stormwater Management Design Manual Section 2.3.1). Portions of these basins were included in the City of Bradenton Watershed Study but that study did not include level of detail for areas outside the City limits. The flood mitigation alternatives analysis will provide cost/benefit options for reduction in flood stages in flood prone areas. County also will use this information to update FEMA FIRM Maps which for this area are 30 years old. This project completes a Surface Water Resource Assessment (SWRA) and Water Quality BMP (Best Management Practices) Alternatives Analysis (referred to as a 'BA', collectively) for the project area to identify Water Quality improvement options. The principal product of this Water Quality task will be guidance on pollutant load reduction strategies within the project watershed, including structural, non-structural or natural systems BMPs to improve water guality within the project waterbodies and receiving waters. Guidance will include BMP cost effectiveness estimates, but in highly developed areas may preferentially focus on Low Impact Development (LID) retrofits. Water Quality benefits will also be incorporated in the Flood Alternatives Assessment. The project watershed is a tributary to Sarasota Bay, a SWIM priority waterbody. The project is compatible with Water Quality objectives of the Sarasota Bay SWIM plan. Manatee County participates in the Tampa Bay Regional Resiliency Coalition. Water quality improvements should be compatible with this effort's guidance for community resiliency to climate change and sea level rise.

Benefit:

Watershed model and floodplain analysis and cost effective flood mitigation alternatives provide information that is critical to better identify risk of flood damage and cost effective flood mitigation alternatives as well as for planning and future development. Currently, flood analysis models are not available and are over 10-20 years old. These watersheds include regional or intermediate stormwater systems. Resource benefit includes analysis of flooding and water quality problems that exist in the watershed. The study also assists in obtaining lower ranking in the FEMA CRS which may lead to lower flood insurance premiums. The Water Quality tasks will represent findings as a prioritized list of financially feasible - or practically feasible in the event of LID applications - watershed-specific pollutant load reduction strategies to improve water quality improvements in the project watershed, including the incorporation of water quality improvements in flood protection projects. Proposed BMPs will be prioritized on measurable benefit(s), resilience factors and cost effectiveness.

Cost:

Total project cost: \$837,000. Manatee County Cost-\$418,500. District Cost \$418,500. Cost was estimated based on on-going Watershed

Studies and assistance from SWFWMD staff with estimate of \$46,500 per square mile (\$1.5K for LiDAR, \$15K each for Watershed Eval.,

FY 2024 Cooperative Funding Initative Application Form

Floodplain Analysis, and Alternatives Analysis), for the 33 square mile watershed.

Describe your complementary efforts in developing, implementing and enforcing water conservation, water quality and flood protection ordinances.

The Manatee County Land Development Code, Section 801.3.E and Stormwater Management Design Manual Section 2.31., authorizes up to a 50% reduction of allowable discharge rate from any new development in a flood prone area. Manatee County has 11 watersheds which have a 50% reduction in allowable runoff for new developments. The aforementioned policy assists the County with the CRS together with County floodplain policy for discounted flood insurance premium rates. The County has established 25 year 24 hour floodplains that have also been mapped into GIS and for which compensation is required in addition to encroachment that occurs in the 100 year FEMA Floodplain. County Land Development Code 802.6.B establishes floodplain management standards and minimum finished floor elevations to protect from flooding. Land Development Code 801 protects quantity and quality of ground and surface waters, groundwater recharge, prevent and reduce salt water intrusion, prevents adverse impacts on adjacent property from diverting flow of surface water, and prevent flood hazards and flood proofing to prevent property damage and loss of life. In addition to reductions noted above, County requires conformance with SWFWMD ERP regulations and special protection within watershed protection areas such as Evers Watershed and Lake Manatee Reservoir. County maintains GIS database including stormwater inventory and FEMA floodplain areas. The County stormwater inventory has also been converted into the GWIS format utilized by the SWFWMD including an electronic copy of existing stormwater system and ERP related record drawings. County cooperatively assists with precipitation and stream gages in the County and area including 27 rain and stream gauges that will provide information for the watershed study. In addition to reductions noted above, County requires conformance with SWFWMD ERP regulations and provides special water quality protections within the watersheds of potable water reservoirs such as the Evers Reservoir and Lake Manatee. The County implements all elements of a Phase-I NPDES MS4 permit which includes various BMPs, protection from illicit discharges and requires routine inspections and enforcement for compliance with applicable water quality standards including those relating to impaired waters and TMDLs. The Storm Water Management Program (SWMP) provides the following water guality improvement services: 1) County-wide (jurisdictional Manatee County) street sweeping and data collection and analyses to estimate pollutant load reduction benefits from this program: 2) County-wide MS4 inspection and maintenance program for structural controls and roadway collection systems. 3) Public education and outreach elements including storm drain stenciling, support for Florida Friendly Landscaping (tm) and specialized outreach channels such as the Manatee Water Atlas and 5) Miscellaneous services such as Adopt-a-Road, litter collection and household hazardous waste collection. The County NPDES-MS4 permit includes an approved monitoring program. SWMP effectiveness is formally evaluated annually. The County has adopted Ordinances regulating Illicit Connections and Discharges through the MS4 (00-02), Fertilizer use (11-21) and Solid Waste (Pet Waste) disposal (85-11) that limit nutrients to receiving water bodies. The County also has a long-term environmental monitoring program (about 80 stations, 30 year record) and a credentialed environmental laboratory to evaluate the success of regional environmental management initiatives. Manatee County is a participant in the Sarasota Bay Program. A separately funded effort to develop a stormwater improvement in Countyoperated GT Bray Park on the Cedar Hammock W canal is advancing, as funds are available, for a "Green Infrastructure" demonstration project to help with public engagement on future projects where stream restoration will be used as a water quality BMP.

Funding Source	Prior Funding	FY2023	FY2024	Future Funding	Total Funding
Applicant Share	0	209,250	209,250	0	418,500
District Share	0	209,250	209,250	0	418,500
Total	0	418,500	418,500	0	837,000

Matching Fund Reduction

Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Project Development	3/31/23
Watershed Evaluation	12/31/23
Floodplain Analysis	12/31/24
Surface Water Resource Assessment	12/31/25
Alternatives Analysis	12/31/26

FY 2024 Cooperative Funding Initative Application Form

Project Name: City of Anna Maria Stormwater Improvements Project - Phase N

Project Number: Q357

Contact Person: LeAnne Addy

Address: 10005 Gulf Drive

City State Zip: Anna Maria, FL 34216

Email: amclerk@cityofannamaria.com

Project Type:

Flood Protection

Strategic Initiatives:

Floodplain Management

Project Description/Benefit/Cost

Description:

This application is for Phase N of a multi-year funding agreement and is for the purpose of Flood Protection and Water Quality best management practices and improvement within the City of Anna Maria. The objective of this Phase N Project is to improve water quality of the stormwater runoff that serves the proposed improvement phase and attenuate the historical flooding by improvements to the City' stormwater collection and conveyance system. The Phase N Project is located in a coastal watershed and will improve several areas within City where BMPs have not been installed and/or being included in previously-permitted and approved phases. The basins have multiple outfall locations that either directly discharge or are in the vicinity of the man-made canals receiving water body that discharges into the Tampa Bay which is designated as an estuary of National significance and a SWIM priority water body.

The implementation of BMPs will include the following project components: survey work with field locates, design calculations, permitting, preparation of the construction plans, construction administration and construction inspection, and construction of the project. All the improvements will be at the existing city owned right-of-way and drainage easement granted to the City. The proposed stormwater management system will consist of collection and conveyance of the stormwater runoff through a rock media (infiltration trench) to provide storage, treatment and recovery by infiltration through the natural soils. To improve flood protection, additional inlets and pipes will be installed in specific areas to create a positive outfall and/or provide a hydraulic connection to the City's existing conveyance system where required for discharging to the existing structures or outfall pipes.

Benefit:

The resource benefit of the Water Quality project is the reduction of Pollutant Loads to Tampa Bay, a SWIM water body by an estimated 217.1 lbs/yr of TN, 37.4 lbs/yr of TP and 5,400 lbs/yr of TSS. These values are based on a STEPL model run removal efficiency of 55% for TN, 60% for TP, and 75% for TSS. The measurable benefit is the construction of LID BMPs to treat approximately 50 acres of urbanized stormwater runoff from Single-family residential contributing areas.

Cost:

The total cost for the project is \$869,980 split equally between the District and the City, with \$434,990 grant requested during FY2024 from the District. The estimated SWFWMD grant cost/lb of TSS and TN removed is estimated at an annual average value of \$175/lb TN/yr, \$1015/lb TP/yr, and \$7/lb TSS/yr, which might be expected with the increased construction cost for similar stormwater projects. The grant cost/acre treated is estimated an average value of \$870/acre/yr treated for Coastal/LID projects based on the 50 total acres in Phase N. The funding will be used with the goal of water quality improvement, and some flood protection will occur inherently related to the project. The project CFI Water quality cost effectiveness ranking should be considered as high for the single-family swale systems and is solely an analysis of the estimated project cost as compared to the costs of similar projects. The estimated project costs are based on similar City projects recently completed in the City of Anna Maria limits and Sarasota region.

Describe your complementary efforts in developing, implementing and enforcing water conservation, water quality and flood protection ordinances.

The City of Anna Maria has an adopted Stormwater Utility Fee which is collected annually and is designated for new stormwater related capital improvement projects. With the Stormwater Utility Fee as the foundation, the City has adopted a 5-year Capital Improvement Plan for Stormwater Improvements which incorporate LID measures to reduce pollutant loads to Tampa Bay and minimize flooding impacts where possible. The City has worked to incrementally elevate the publicly owned lands to account for sea level rise where possible. The City works closely with private property owners to help them develop individual plans to elevate their properties and implement flood protection measures for their structures. The City also adopted more stringent Land Development Regulations in 2013 which were established to implement flood reduction and protection measures and to reduce

Cooperator: City of Anna Maria Department: Phone #: 9417086130 Ext: 122

FY 2024 Cooperative Funding Initative Application Form

pollutant loadings into Tampa Bay. With the extensive development of the island in recent decades – this has become a critical piece to the long-term solution.

The City performs maintenance on their systems on an annual basis and tracks the progress for NPDES reporting practices. The City also adopted the Florida Friendly Yards Ordinance which regulates the use of fertilizers and maintain drain labels on all of their outfalls.

Funding Source	Prior Funding	FY2023	FY2024	Future Funding	Total Funding
Applicant Share	0	0	434,990	0	434,990
District Share	0	0	434,990	0	434,990
Total	0	0	869,980	0	869,980
Total	0	0	1,739,960	0	1,739,960

Matching Fund Reduction

Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Data Collection-Survey	12/1/23
Design & Permitting	3/1/24
Advertisement & Award	5/1/24
Construction & CEI	9/30/24
As-Built Survey & Record Drawings	10/31/24
Project Close-out	11/5/24

FY 2024 Cooperative Funding Initative Application Form

Project Name: CITYWIDE MAPPING PROJECT (CITY OF SARASOTA, SARASOTA BAY)

Project Number: Q360	Cooperator: City of Sarasota
Contact Person: Amy E Jones	Department:
Address: 1565 First Street	Phone #: 9412636303
City State Zip: Sarasota, FL 34236	Ext:
Email: amy.e.jones@sarasotafl.gov	
Project Type:	
Flood Protection, Natural Systems, Water Quality	
Strategic Initiatives:	
Emergency Flood Response	Floodplain Management
Natural Systems Identification and Monitoring	Water Quality Maintenance and Improvement

Project Description/Benefit/Cost

Description:

As demonstrated by the City of Sarasota's initial climate vulnerability assessment--the Climate Adaptation Plan Final Report--there is a need to increase methods that are environmentally sustainable, resilient and restorative in current and future projects within the City and connected to the health of Sarasota Bay. The Report represents a Phase I Vulnerability Assessment which utilized intermediate and intermediate high projections for year 2050. The Florida Department of Environmental Protection (FDEP) has funded a Phase II Vulnerability Assessment to update the predictions to align with FDEP's statewide resilience plan and to include the NOAA Intermediate Low and NOAA Intermediate High Curves for years 2040 and 2070. The Citywide Mapping Project, proposed here, will build upon the Phase II Assessment for an even greater impact as it relates to future projections and planning.

The Citywide Mapping Project includes the mapping of the 15,400 acres within the City of Sarasota, utilizing existing aerial-based LiDAR acquired through the FGIO which produces a DEM accurate within approximately 0.5 feet, and merging it with ground-based mobile LiDAR for detailed street and infrastructure collection for its 330 linear miles of roadways which produces a DEM accurate within approximately 0.05 feet.* This will be the first step of the implementation of our design initiatives identified in our Phase II Vulnerability Assessment. Both aerial and mobile LiDAR data will be processed to produce topographic mapping with a 1-foot contour interval with break lines and feature identification. It will be utilized to identify drainage utility assets and other assets prone to flood-related damages, including those near extreme slopes and flood-prone areas. It will provide the City with ready data that will serve as the base for the timely implementation of the design of remediation and modification measures identified by the Phase II Vulnerability Assessment.

The Citywide Mapping will produce a surface model to be utilized for ICPR stormwater modeling and sea level rise modeling to identify potential flooding risks, predevelopment runoff and water quality, and identify potential infrastructure damage. It will be used as a tool to target and prioritize key areas of flooding and develop mitigation strategies for repair, remediation and/or restoration. In line with our National Preparedness goals, Citywide Mapping will further allow us to integrate sea level rise data to analyze future flooding areas created by increased tailwater models created by increased tide heights.

Coupled with the Vulnerability Assessment, Citywide Mapping will detail areas of potential flood risks and assist in developing mitigation and maintenance strategies that can be prioritized and implemented to reduce coastal and inland flood damage. The Mapping will also be used in concert with our Citywide Artificial Shoreline Protection Evaluation to analyze upland impacts created by resiliency measures that address future sea level rise potential. This complete mapping of the City will allow for remediation strategies that consider a holistic approach. For example, by identifying key areas in advance of a storm event, we can assess and mitigate vulnerabilities in the infrastructure to develop and deploy protective or restorative measures and/or develop permanent long-term solutions.

This project furthers the District's Strategic Plan by planning projects to protect and restore natural systems of Sarasota Bay. The Citywide Mapping will enable the development of plans for high-impact water quality improvement projects. Sarasota Bay is a priority water body in the Strategic Plan and is a designated Estuary of National Significance, a SWIM priority waterbody, and an Outstanding Florida Water.

*This explains why existing topographic mapping does not meet the topographic requirements with respect to having ready data available for the complete design of improvements.

Benefit:

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The Citywide Mapping Project will contribute to the health of the aquaculture of Sarasota Bay. This project will provide opportunities to address the design of additional assets along the waterfront for modification while providing a foundation for modeling the effects of upstream runoff that compounds riverine and coastal flooding within the urban environment to regulate, mitigate and modify designs in existing and future systems to regulate and control flooding risk. This data will further enhance the City of Sarasota's Climate Adaptation Plan by adding real-time data and serve as a key component in the basis of design for future initiatives. This will apply when addressing flooding issues not within Sarasota County's current level of service, improving water quality by integration of water quality devices at key discharge points, and address other critical elements in our Citywide Artificial Shoreline Protection Evaluation. The enhanced ICPR modeling will aid in the development of regulatory initiatives that will further enhance water quality and stormwater runoff to reduce flooding and promote infiltration in residential and commercial applications.

While a cost-benefit analysis is difficult to ascertain for a mapping project of this magnitude, there are innumerable ways in which the Citywide Mapping Project will serve as a long-term benefit to the City of Sarasota, its citizens and partners. The Mapping will enable us to prioritize and provide design-ready data to address critical infrastructure risks as identified by our Climate Adaptation Plan as well as address concerns associated with sea level rise. The Plan identifies 43 priority infrastructure vulnerabilities in the areas of stormwater, shorelines, transportation and public lands. This Mapping will allow us to develop accurate sub-watersheds for the development of improved stormwater infrastructure and incorporating bioretention areas and nutrient separating baffle boxes that reduce inland flooding and suspended solids, ultimately improving the overall water quality of Sarasota Bay. The Mapping will facilitate the predevelopment modeling of residential lots to develop enhanced stormwater requirements in concert with current zoning standards to reduce post-development runoff and improve water quality by looking at stormwater with a holistic approach rather than an individual one.

Cost:

The cost sharing for this project will be as follows: the District share will be \$1,000,000.00 (50%) and the City of Sarasota share will be \$1,000,000.00 (50%). The project will consist of four major component costs: Network Development & Benchmark Monumentation, \$650,000.00; Mobile Mapping Data Acquisition, \$76,400.00; Stormwater Utility Data Collection & Mapping, \$542,100.00; Feature Extraction & One-Foot Contour Mapping, \$731,500.00, totaling \$2,000,000.00.

More specifically, the estimated quarterly expenditures for project fiscal year 2024 are anticipated to be as follows: First Quarter at \$490,560.00; Second Quarter at \$636,860.00; Third Quarter at \$436,290.00; and Fourth Quarter at \$436,290.00, totaling \$2,000,000.00. These costs and approximate timelines are based on a budget provided by a private surveying and mapping firm in 2021.

It should be noted that the City of Sarasota also submitted an application for this project to the Florida Department of Environmental Protection (FDEP) under the Resilient Florida Grant Opportunities program, Statewide Flooding and Sea Level Rise Resilience Plan. The Citywide Mapping Project was included in a proposal submitted August 31, 2022.

Describe your complementary efforts in developing, implementing and enforcing water conservation, water quality and flood protection ordinances.

The City of Sarasota implements ordinances, comprehensive plan elements and policies for the enforcement of water conservation, water quality and flood protection. Some of these complementary efforts include:

> Sarasota City Code Chapter 37, Water and Sewers, addresses and enforces aspects of complementary efforts such as conservation, reclamation and pollution prevention.

> The Utilities Chapter of the Sarasota City Plan and Supporting Document states the following adherence: "The City shall comply with Environmental Resource Permitting of Surface Water Management Systems, administered by the Southwest Florida Water Management District (SWFWMD), (Chapters 40D-4, 40D-40, 40D45 and 40D-400, Florida Administrative Code) and cooperate with the SWFWMD on water conservation programs."

> The City of Sarasota is updating its Engineering Design Criteria Manual (EDCM) to specifically address chapters dealing with stormwater management to include revised water quality treatment and water quantity attenuation policies consistent with best practices.

> The City of Sarasota leads active development projects that include land conservation such as the Bobby Jones Created Wetlands System (currently supported by SWFWMD FY22 Cooperative Funding Initiative).

> The City of Sarasota's Strategic Plan includes priorities that are complementary such as, "Improve Stormwater Quality Runoff from City Parks Adjacent to Waterbodies" and "Smart City Initiative."

> The City of Sarasota collaborated with the Climate Council of Sarasota-Manatee to produce four local mini-documentaries that explain the impacts of sea level rise, coastal flooding, heat and agriculture in Sarasota and Manatee counties (https://www.sarasotafl.gov/opvorpment/planning/suctainability/glimate.change)

(https://www.sarasotafl.gov/government/planning/sustainability/climate-change).

> City of Sarasota staff continually develop, partner and/or contribute to complementary efforts as represented by councils, collaborations, partnerships and deliverables such as City of Sarasota's Climate Vulnerability Assessment and Adaptation Plan; Community Playbook for Healthy Waterways; and The Bay Park Conservancy.

Funding Source	Prior Funding	FY2023	FY2024	Future Funding	Total Funding
Applicant Share	0	0	1,000,000	0	1,000,000

FY 2024 Cooperative Funding Initative Application Form

	-	-			
Funding Source	Prior Funding	FY2023	FY2024	Future Funding	Total Funding
District Share	0	0	1,000,000	0	1,000,000
Total	0	0	2,000,000	0	2,000,000
Matching Fund Reducti	on				
Check here if requ	lesting a reduction in match	ing funds requirem	ent pursuant to s.28	38.06561, F.S.	
Timelines					
Mobile LiDAR Acquisitio	n			2/1/2	3
Procurement Solicitation	ı			4/1/2	3
Contractor Selection				9/1/2	3
Project Coordination				10/13	3/23
Procurement Completed	t			11/1/	23
Project Control Monume	entation			2/1/2	4
Storm Drainage Asset C	Collection			4/1/2	4
High Detail Feature Extr	action and DEM Creation			8/1/2	4
QA-QC				9/1/2	4
Final Delivery				9/30/	24

FY 2024 Cooperative Funding Initative Application Form

Project Name: Gamble Creek Watershed - Update

Project Number: Q367	Cooperator: Marion County
Contact Person: Kenneth Kohn, P.E., Sr. Project Engineer Public Works Department	Department:
Address: 1022 26th Avenue East	Phone #: 9417087450
City State Zip: Bradenton, FI 34208	Ext: 7254
Email: kenneth.kohn@mymanatee.org	
Project Type:	
Flood Protection, Water Quality	
Strategic Initiatives:	
Floodplain Management	Water Quality Maintenance and Improvement

Project Description/Benefit/Cost

Description:

This project completes for the Gamble Creek Watershed in Manatee County: 1) The Watershed Evaluation and 2) Watershed Management Plan elements of the District's Watershed Management Program (WMP); 3) An Alternatives Analysis for flood mitigation: 4) A Surface Water Resource Assessment and a 5) Water Quality BMP Alternatives Analysis. The Gamble Creek watershed is roughly 55.1 square miles (northern portion of Manatee County) and is depicted on the attached Watershed Map. A watershed management plan was initiated in 2007 and Governing Board Approved June 26, 2012. The effective date of the model is 2008. Therefore, an update to the model is necessary to reflect the tremendous growth and new development that occurred in this watershed, which has been identified as a flood prone under Land Development Code (Section 802.1 and the Stormwater Management Design Manual Section 2.3.1). The impacts in this watershed from the recent Hurricane Ian (September 2022) further highlights the need to update this model. The purpose of this study is to determine floodplain delineation resulting from a 100-year/24-hour storm frequency rainfall event, identify flood mitigation alternatives and conduct a companion water quality improvement analysis. The developed land uses of watershed are primarily mixed residential; with areas of commercial/industrial development and agricultural lands. Given known flooding problems, and the extensive development of the watershed, it's critical to update flood stages to reflect this almost fully developed state of the project watershed. The County will also use this information to update 15-year old FEMA FIRM Maps. The flood mitigation alternatives analysis will provide cost/benefit options for reduction in flood stages in flood prone areas. This project completes a Surface Water Resource Assessment (SWRA) and Water Quality BMP (Best Management Practices) Alternatives Analysis (referred to as a BA collectively) for the project area to identify Water Quality improvement options. The principal product of this Water Quality task will be guidance on pollutant load reduction strategies within the project watershed, including structural, non- structural or natural systems BMPs to improve water quality within the project waterbodies and receiving waters. Guidance will include BMP cost effectiveness estimates, but in highly developed areas may preferentially focus on Low Impact Development (LID) retrofits. Water Quality benefits will also be incorporated in the Flood Alternatives Assessment. The project watershed is a tributary to Tampa Bay, a SWIM priority waterbody. The project is compatible with Water Quality improvement objectives of the Tampa Bay SWIM plan. Work products should be compliant with the emerging Tampa Bay Regional Resiliency Coalition guidance for community resiliency to climate change and sea level rise.

Benefit:

The watershed model, floodplain analysis and identification of flood mitigation alternatives will provide critical information that identifies flood damage risks and cost effective flood mitigation alternatives within the Gamble Creek watershed. Currently, contemporary flood analysis models are not available in this watershed; prior work is over 15 years old. Sub-watersheds of the project area includes regional or intermediate stormwater systems. The impacts in this watershed from the recent Hurricane Ian (September 2022) further highlights the need to update this model. The study also assists in obtaining lower ranking in the FEMA CRS which may lead to lower flood insurance premiums. The earlier study was performed in ICPR v3 and will be updated to the latest ICPR v4. The Water Quality tasks will represent findings as a prioritized list of financially feasible - or practically feasible in the event of LID applications - watershed-specific pollutant load reduction strategies to improve water quality improvements in the project watershed, including the incorporation of water quality improvements in flood protection projects. Proposed BMPs will be prioritized on measurable benefit(s), resilience factors and cost effectiveness.

Cost:

Total project cost: \$480,000. Manatee County Cost-\$240,000. District Cost \$240,000. Cost was estimated based on on-going Watershed Studies and assistance from SWFWMD staff with estimates from the Evaluation Guidelines table for cost per square mile and points awarded for costs of a WMP within the noted range.

FY 2024 Cooperative Funding Initative Application Form

Describe your complementary efforts in developing, implementing and enforcing water conservation, water quality and flood protection ordinances.

The Manatee County Land Development Code, Section 801.3.E and Stormwater Management Design Manual Section 2.31., authorizes up to a 50% reduction of allowable discharge rate from any new development in a flood prone area. Manatee County has 11 watersheds which have a 50% reduction in allowable runoff for new developments. The aforementioned policy assists the County with the CRS together with County floodplain policy for discounted flood insurance premium rates. The County has established 25 year 24 hour floodplains that have also been mapped into GIS and for which compensation is required in addition to encroachment that occurs in the 100 year FEMA Floodplain. County Land Development Code 802.6.B establishes floodplain management standards and minimum finished floor elevations to protect from flooding. Land Development Code 801 protects quantity and quality of ground and surface waters, groundwater recharge, prevent and reduce salt water intrusion, prevents adverse impacts on adjacent property from diverting flow of surface water, and prevent flood hazards and flood proofing to prevent property damage and loss of life. In addition to reductions noted above, County requires conformance with SWFWMD ERP regulations and special protection within watershed protection areas such as Evers Watershed and Lake Manatee Reservoir. County maintains GIS database including stormwater inventory and FEMA floodplain areas. The County stormwater inventory has also been converted into the GWIS format utilized by the SWFWMD including an electronic copy of existing stormwater system and ERP related record drawings. County cooperatively assists with precipitation and stream gages in the County and area including 27 rain and stream gauges that will provide information for the watershed study. In addition to reductions noted above, County requires conformance with SWFWMD ERP regulations and provides special water quality protections within the watersheds of potable water reservoirs such as the Evers Reservoir and Lake Manatee. The County implements all elements of a Phase-I NPDES MS4 permit which includes various BMPs, protection from illicit discharges and requires routine inspections and enforcement for compliance with applicable water quality standards including those relating to impaired waters and TMDLs. The Storm Water Management Program (SWMP) provides the following water quality improvement services: 1) County-wide (jurisdictional Manatee County) street sweeping and data collection and analyses to estimate pollutant load reduction benefits from this program; 2) County-wide MS4 inspection and maintenance program for structural controls and roadway collection systems, 3) Public education and outreach elements including storm drain stenciling, support for Florida Friendly Landscaping (tm) and specialized outreach channels such as the Manatee Water Atlas and 5) Miscellaneous services such as Adopt-a-Road, litter collection and household hazardous waste collection. The County NPDES-MS4 permit includes an approved monitoring program. SWMP effectiveness is formally evaluated annually. The County has adopted Ordinances regulating Illicit Connections and Discharges through the MS4 (00-02), Fertilizer use (11-21) and Solid Waste (Pet Waste) disposal (85-11) that limit nutrients to receiving water bodies. The County also has a long-term environmental monitoring program (about 80 stations, 30 year record) and a credentialed environmental laboratory to evaluate the success of regional environmental management initiatives. Manatee County is a participant in the Tampa Bay Nitrogen Management Consortium and the Tampa Bay Regional Resiliency Coalition. The County Public Works Department is APWA certified.

Funding Source	Prior Funding	FY2023	FY2024	Future Funding	Total Funding
Applicant Share	0	0	120,000	120,000	240,000
District Share	0	0	120,000	120,000	240,000
Total	0	0	240,000	240,000	480,000

Matching Fund Reduction

Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Project Development	3/31/24
Watershed Evaluation	12/31/24
Floodplain Analysis	12/31/25
Surface Water Resource Assessment	12/31/26
Alternatives Analysis	12/31/27

FY 2024 Cooperative Funding Initative Application Form

Project Name: HAWKINS COURT AND JULIA PLACE STORMWATER IMPROVEMENT PROJECT

Project Number: Q369	Cooperator: City of Sarasota
Contact Person: Amy E. Jones	Department:
Address: 1565 First Street	Phone #: 9412636303
City State Zip: Sarasota, FL 34236	Ext:
Email: amy.e.jones@sarasotafl.gov	
Project Type:	
Flood Protection, Water Quality	
Strategic Initiatives:	
Emergency Flood Response	Floodplain Management
Water Quality Maintenance and Improvement	

Project Description/Benefit/Cost

Description:

The proposed Hawkins Court and Julia Place Stormwater Improvement Project will reduce flooding impacts from storm events and provide water quality treatment within defined City right-of-way south of Morrill Street and north of Laurel Street. Historically, the project area has experienced regular flooding and is an environmental and civic concern. The goals of the proposed improvements are to provide a resilient public stormwater system that will withstand an increasing intensity of future storm events long-term and provide sustainable water quality improvements.

Major elements of the project include:

- Raise elevation of roadway to account for increasing intensity of storm events and future sea level rise.
- Reprofile the slopes of the roadway to improve drainage flow patterns and prevent flooding.
- · Install concrete curb to channel and direct stormwater runoff.
- Replace deteriorated existing base material with new crushed concrete base to extend lifecycle of roadway.
- Replace asphalt pavement surface with traffic bearing permeable pavers to provide water quality treatment and reduce runoff of contaminants, nutrients, and
- other pollutants to the underground stormwater system and ultimately Sarasota Bay.
- Upgrade ADA accessible ramps at intersections to provide safe and reliable pedestrian connections.

While there is an active Interlocal Agreement between Sarasota County and the City of Sarasota Regarding Total Consolidation of Stormwater Management, this project is identified as a "Level of Service" issue based on standards set forth by Sarasota County Stormwater Environmental Utility Services. The Flood Protection Level of Service adopted by Sarasota County in 1994 for acceptable flooding for a 100-year storm is 12 inches for Neighborhood Roads and Parking Areas. Sarasota County is aware of our pursing this opportunity and is in support of our doing so. All project activities will aid in Low Impact Development (LID); work towards stormwater mitigation citywide; contribute to the National Pollutant Discharge Elimination System (NPDES); and take place on land owned by the City of Sarasota.

The Hawkins Court and Julia Place Stormwater Improvement Project is specifically aligned with SWFWMD Goals and Strategic Initiatives for water quality and flood protection and directly addresses Regional Priorities and Objectives of developing plans and implementing projects for water quality improvements as indicated in the SWFWMD Strategic Plan 2020-2024. The project area is located in the Hudson Bayou basin of the Sarasota Bay Watershed. Sarasota Bay is designated as an Outstanding Florida Water by the Florida Department of Environmental Protection (FDEP). Any improvements to water quality and flood protection associated with Hudson Bayou and Sarasota Bay have far-reaching benefits for the region, state and beyond. Sarasota Bay is a priority water body in the Strategic Plan; it is a designated Estuary of National Significance and a SWIM priority waterbody. This project furthers the District's Strategic Plan by planning projects to protect and restore natural systems of Sarasota Bay.

Benefit:

Benefits as a result of the Hawkins Court and Julia Place Stormwater Improvement Project include improved water quality and reduction of flood impacts.

Completion of this project will:

- Protect and improve water quality to sustain water resources, environment, economy, and quality of life.
- Minimize flood damage to project people, property, infrastructure, and investment.

FY 2024 Cooperative Funding Initative Application Form

The Hawkins Court and Julia Place Stormwater Improvement Project will help provide a resilient public stormwater system that will withstand an increasing intensity of future storm events long-term and provide sustainable water quality improvements. Stormwater runoff from the project area discharges to Hudson Bayou, a segment of the Sarasota Bay watershed. Sarasota Bay has been designated as a National Estuary, SWIM Plan Priority Watershed and Outstanding Florida Water. Completion of this project will reduce nutrient levels discharged to Hudson Bayou and downstream Sarasota Bay by incorporating permeable pavement that reduces the amount of stormwater runoff directed to underground stormwater systems. Reduction in nutrient levels may also help in the reduction of algae blooms such as Red Tide.

Cost:

The City of Sarasota is requesting a total of \$225,000 in grant funds from SWFWMD for construction of the Hawkins Court & Julia Place Stormwater Improvement Project. The costs of the Hawkins Court and Julia Place Stormwater Improvement Project included in this application are for construction-related activities.

Below is a list of the anticipated project elements and estimated costs.

- Site Preparation = \$87,000.00
- Roadway Infrastructure = \$358,800.00
- Utility Adjustments = \$1,500.00
- Other Related Costs = \$2,700.00

Total estimated construction costs of the project = \$450,000.00

- SWFWMD Share = \$225,000.00
- City of Sarasota Matching Funds = \$225,000.00

A detailed cost estimate is attached to this application.

Describe your complementary efforts in developing, implementing and enforcing water conservation, water quality and flood protection ordinances.

The City of Sarasota implements ordinances, comprehensive plan elements and policies for the enforcement of water conservation, water quality and flood protection. Some of these complementary efforts include:

> Sarasota City Code Chapter 37, Water and Sewers, addresses and enforces aspects of complementary efforts such as conservation, reclamation and pollution prevention.

> The Utilities Chapter of the Sarasota City Plan and Supporting Document states the following adherence: "The City shall comply with Environmental Resource Permitting of Surface Water Management Systems, administered by the Southwest Florida Water Management District (SWFWMD), (Chapters 40D-4, 40D-40, 40D45 and 40D-400, Florida Administrative Code) and cooperate with the SWFWMD on water conservation programs."

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> The City of Sarasota's Strategic Plan includes complementary priorities such as, "Improve Stormwater Quality Runoff from City Parks Adjacent to Waterbodies" and "Smart City Initiative."

> The City of Sarasota collaborated with the Climate Council of Sarasota-Manatee to produce four local mini-documentaries that explain the impacts of sea level rise, coastal flooding, heat, and agriculture on the environment in Sarasota and Manatee counties (https://www.sarasotafl.gov/government/planning/sustainability/climate-change).

> City of Sarasota staff continually develop, partner and/or contribute to complementary efforts as represented by councils, collaborations, partnerships and deliverables such as City of Sarasota's Climate Vulnerability Assessment and Adaptation Plan; Community Playbook for Healthy Waterways; and The Bay Park Conservancy.

Funding Source	Prior Funding	FY2023	FY2024	Future Funding	Total Funding
Applicant Share	0	0	225,000	0	225,000
District Share	0	0	225,000	0	225,000
Total	0	0	450,000	0	450,000

Matching Fund Reduction

Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines

60% Design Complete

7/1/23

FY 2024 Cooperative Funding Initative Application Form

Matching Fund Reduction

Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines

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90% Design Complete	8/1/23
Final Design Complete	9/1/23
CFI Contracts Awarded	10/1/23
Permits Complete	10/1/23
Procurement Complete	1/1/24
Award Contract	2/1/24
Construction Start	3/1/24
Substantial Completion	7/31/24
Construction Complete	8/31/24
Project Closeout	9/30/24

FY 2024 Cooperative Funding Initative Application Form

Project Name: Integrated Regional Water Supply Master Plan - 2025 Update

Project Number: Q370	Cooperator: PRMRWSA
Contact Person: James Guida, P.G.	Department:
Address: 9415 Town Center Parkway	Phone #: 9413161776
City State Zip: Lakewood Ranch, FL 34202	Ext:
Email: JGuida@regionalwater.org	
Project Type:	
Water Supply	
Strategic Initiatives:	
Regional Water Supply Planning	Strategic Initiative

Project Description/Benefit/Cost

Description:

Every five years the Authority updates its Integrated Regional Water Supply Master Plan (IRWSMP) to ensure preparedness and quality service in regional water supply to our four-county region. This 2025 IRWSMP Project will update the Authority's 2020 IRWSMP. Topics to be covered will include demand projections, detailed evaluation of future regional interconnections, current and potential future sources of supply, as well as an enhanced assessment of reclaimed water supply opportunities in the region. A prioritized listing of project opportunities will be developed including cost estimates and timetables needed for implementation. The duration of the Project is from October 2023 – June 2025 and will be completed in a timeframe sufficient to allow for integration of the Authority's IRWSMP 2025 Update into the District's 2025 Regional Water Supply Plan (RWSP).

Benefit:

Organizations periodically update master planning documents because information, regulations, challenges, and opportunities are all in a state of continual change. All stakeholders benefit from having the most current information available. Consistent with our Strategic Plan, it is the Authority's process to update its IRWSMP every 5 years. This information is then available for use by Authority members, customers, the District, consultants, contractors, planning agencies and other governmental bodies. The Authority's regional planning effort supports the District's 2025 RWSP (Southern Region) and is critical for ensuring that the Authority's four-county region has identified the projects and the resources to meet growing water demands in an environmentally sustainable manner. The Authority's water supply planning efforts are integral to our Strategic Plan and have historically focused on Alternative Water Supplies (AWS) and expansion of the Regional Integrated Loop Pipeline System. These efforts promote sharing of resources, system reliability, regional resource management and cost-effective water supply development, all of which support the SWUCA Recovery Strategy, and the strategic initiatives identified in the District's Strategic Plan.

Cost:

The estimated total cost for this Project is \$700,000, with \$350,000 proposed to be provided by the Authority and \$350,000 proposed to be provided by the District. A schedule of anticipated expenditures for the Project is provided in the Funding Table component of this CFI Application.

Describe your complementary efforts in developing, implementing and enforcing water conservation, water quality and flood protection ordinances.

The Authority is a wholesale supplier of potable water to Charlotte, DeSoto, Manatee and Sarasota Counties, and the City of North Port, each of whom are retail suppliers for their respective public water systems.

As reported on the District's Conservation Dashboard, all four customers that currently receive water from the Authority are identified in the District's 2020 Conservation All-Stars list. Consistent with the District's Strategic Plan Objective (2022-2026) to achieve and maintain a reduction in regional average unadjusted gross per capita of 79.7 gpcd by 2025, the Authority's Members and Customers WY2021 average unadjusted gross per capita use rate was 76.2 gpcd, a value over 4% less than the District's 2025 per capita use objective.

Consistent with the District's Strategic Plan Objective to achieve increased use of all wastewater flows by 2040, assist in the implementation of potable reuse, develop ASR options for potable and reclaimed water supply, and increase the percentage of total water use supplied by AWS sources, the Authority is simultaneously applying for WY2024 co-funding to undertake a Regional Reclaimed Water Supply Feasibility Study (RRWSFS) to explore potential opportunities for the Authority to partner with local governments to further beneficial use of their reclaimed water supplies across the region. With respect to ASR, and on a parallel path with the Reclaimed Water ASR aspects which will be explored in the RRWSFS, the Authority continues to pursue permitting and evaluation of treatment options for Partially Treated Surface Water ASR at the Peace River Facility. The Authority manages the District's RV Griffin Reserve under a Management and Operations Agreement which includes

FY 2024 Cooperative Funding Initative Application Form

expenditure of Authority financial and staff resources associated with Reserve security, patrolling, and maintaining perimeter fencing, exotic/invasive vegetation and animal control, prescribed burning, road repairs and maintenance, and maintenance of equestrian and pedestrian trails.

The Authority regularly evaluates water conservation/demand management opportunities in its Integrated Regional Water Supply Master Plans and will do so again in its forthcoming 2025 Plan. The Authority also periodically also hosts Regional Water Alliance meetings with elected officials and their staffs to discuss water conservation, demand management and AWS opportunities, and cooperatively participates with Customer utilities and the District in public awareness and education programs regarding water conservation. Efforts include broadcast public service announcements, newspaper advertisements, inserts, and public presentations.

Funding Source	Prior Funding	FY2023	FY2024	Future Funding	Total Funding
Applicant Share	0	0	180,000	170,000	350,000
District Share	0	0	180,000	170,000	350,000
Total	0	0	360,000	340,000	700,000

Matching Fund Reduction

Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Initiate study.	10/1/23
Complete Study	7/1/25

FY 2024 Cooperative Funding Initative Application Form

Project Name: Lake Manatee Watershed

Project Number: Q374	Cooperator: Manatee County
Contact Person: Kenneth Kohn, P.E., Sr. Project Engineer Public Works Department	Department:
Address: 1022 26th Avenue East	Phone #: 9417087450
City State Zip: Bradenton, FI 34208	Ext: 7254
Email: kenneth.kohn@mymanatee.org	
Project Type:	
Flood Protection, Water Quality	
Strategic Initiatives:	
Floodplain Management	Water Quality Maintenance and Improvement

Project Description/Benefit/Cost

Description:

This project completes for the Lake Manatee Watershed: 1) The Watershed Evaluation and Watershed Management Plan elements of the District's Watershed Management Program (WMP); 2) An Alternatives Analysis for flood mitigation; 3) Updates an earlier Surface Water Resource Assessment and 4) Adds a Water Quality BMP Alternatives Analysis. This watershed comprises roughly 123 square miles and is depicted on the attached Watershed Map. The purpose of this study is to determine floodplain delineation resulting from a 100-year/24-hour storm frequency rainfall event, flood mitigation alternatives and for water quality improvement analysis. A Lake Manatee Watershed Management Plan was completed with the SWFWMD in September 2016 (excerpts attached) but did not include inundation analysis (water guality only), however, the information in the aforementioned study should prove helpful to the inundation analysis. The watershed is a public water supply source for Manatee County, consists primarily of agricultural lands, and mixed residential areas with minor commercial/industrial development and has existing flooding problems. Significant areas remain for both future residential and commercial/industrial development and the area is projected to experience rapid development and growth. Given the known flooding, and future development and to enhance protection of the potable water supply, it is critical to establish updated flood stages to protect from adverse impacts from flooding as well as to propose flood mitigation alternatives and water quality assessment. This watershed has high level of protection as any development is required to provide 150% water quality treatment for the potable water supply. Simulations in the most recent study of the Lake Manatee Watershed ended in 2011, but that study focused on water quality and did not include a floodplain analysis or an alternatives analysis for flood mitigation. The flood mitigation alternatives analysis will provide cost/benefit options for reduction in flood stages in flood prone areas. County also will use this information to update FEMA FIRM Maps which for this area are 30 years old. This project also updates a Surface Water Resource Assessment (SWRA) and adds Water Quality BMP (Best Management Practices) Alternatives Analysis (referred to as a BA collectively) for the project area to identify Water Quality improvement options. The principal product of this Water Quality task will be guidance on pollutant load reduction strategies within the project watershed, including structural, non-structural or natural systems BMPs to improve water quality within the project waterbodies and receiving waters. Guidance will include BMP cost effectiveness estimates, but in highly developed areas may preferentially focus on Low Impact Development (LID) retrofits. Water Quality benefits will also be incorporated in the Flood Alternatives Assessment.

Benefit:

The watershed model, floodplain analysis and identification of flood mitigation alternatives will provide critical information that identifies flood damage risks and cost effective flood mitigation alternatives required for the inevitable future development of the Lake Manatee watershed. Currently, contemporary flood analysis models are not available in this watershed; prior work is over 20 years old. Sub-watersheds of the project area includes regional or intermediate stormwater systems. The impacts in this watershed from the recent Hurricane Ian (September 2022) further highlights the need to update this model. The study also assists in obtaining lower ranking in the FEMA CRS which may lead to lower flood insurance premiums. Resource benefits includes analysis of existing flooding and water quality problems. The Water Quality tasks will be specified to represent findings as a prioritized list of financially feasible - or practically feasible in the event of LID applications - watershed-specific pollutant load reduction strategies to improve water quality within the project watershed and receiving waters. It is the County's intent to use the resulting guidance to support water quality improvements in the project watershed, including the incorporation of water quality improvements in flood protection projects. Proposed BMPs will be prioritized on measurable benefit(s), resilience factors and cost effectiveness.

Cost:

Total project cost: \$1,968,000. Manatee County Cost-\$984,000. District Cost \$984,000. Cost was estimated based on on-going

FY 2024 Cooperative Funding Initative Application Form

Watershed Studies and assistance from SWFWMD staff with estimates from the Evaluation Guidelines table for cost per square mile and points awarded for costs of a WMP within the noted range.

Describe your complementary efforts in developing, implementing and enforcing water conservation, water quality and flood protection ordinances.

The Manatee County Land Development Code, Section 801.3.E and Stormwater Management Design Manual Section 2.31., authorizes up to a 50% reduction of allowable discharge rate from any new development in a flood prone area. Manatee County has 11 watersheds which have a 50% reduction in allowable runoff for new developments. The aforementioned policy assists the County with the CRS together with County floodplain policy for discounted flood insurance premium rates. The County has established 25 year 24 hour floodplains that have also been mapped into GIS and for which compensation is required in addition to encroachment that occurs in the 100 year FEMA Floodplain. County Land Development Code 802.6.B establishes floodplain management standards and minimum finished floor elevations to protect from flooding. Land Development Code 801 protects quantity and quality of ground and surface waters, groundwater recharge, prevent and reduce salt water intrusion, prevents adverse impacts on adjacent property from diverting flow of surface water, and prevent flood hazards and flood proofing to prevent property damage and loss of life. In addition to reductions noted above, County requires conformance with SWFWMD ERP regulations and special protection within watershed protection areas such as Evers Watershed and Lake Manatee Reservoir. County maintains GIS database including stormwater inventory and FEMA floodplain areas. The County stormwater inventory has also been converted into the GWIS format utilized by the SWFWMD including an electronic copy of existing stormwater system and ERP related record drawings. County cooperatively assists with precipitation and stream gages in the County and area including 27 rain and stream gauges that will provide information for the watershed study. In addition to reductions noted above, County requires conformance with SWFWMD ERP regulations and provides special water quality protections within the watersheds of potable water reservoirs such as the Evers Reservoir and Lake Manatee. The County implements all elements of a Phase-I NPDES MS4 permit which includes various BMPs, protection from illicit discharges and requires routine inspections and enforcement for compliance with applicable water quality standards including those relating to impaired waters and TMDLs. The Storm Water Management Program (SWMP) provides the following water guality improvement services: 1) County-wide (jurisdictional Manatee County) street sweeping and data collection and analyses to estimate pollutant load reduction benefits from this program; 2) County-wide MS4 inspection and maintenance program for structural controls and roadway collection systems, 3) Public education and outreach elements including storm drain stenciling, support for Florida Friendly Landscaping (tm) and specialized outreach channels such as the Manatee Water Atlas and 5) Miscellaneous services such as Adopt-a-Road, litter collection and household hazardous waste collection. The County NPDES-MS4 permit includes an approved monitoring program. SWMP effectiveness is formally evaluated annually. The County has adopted Ordinances regulating Illicit Connections and Discharges through the MS4 (00-02), Fertilizer use (11-21) and Solid Waste (Pet Waste) disposal (85-11) that limit nutrients to receiving water bodies. The County also has a long-term environmental monitoring program (about 80 stations, 30 year record) and a credentialed environmental laboratory to evaluate the success of regional environmental management initiatives. Manatee County is a participant in the Tampa Bay Nitrogen Management Consortium and the Tampa Bay Regional Resiliency Coalition. The County Public Works Department is APWA certified.

Funding Source	Prior Funding	FY2023	FY2024	Future Funding	Total Funding
Applicant Share	0	0	492,000	492,000	984,000
District Share	0	0	492,000	492,000	984,000
Total	0	0	984,000	984,000	1,968,000

Matching Fund Reduction

Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

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Project Development	3/31/24
Watershed Evaluation	12/31/24
Surface Water Resource Assessment	12/31/25
Floodplain Analysis	12/31/26
Alternatives Analysis	12/31/27

FY 2024 Cooperative Funding Initative Application Form

Cooperator: Palmetto

Phone #: 9417234570

Department:

Ext: 2004

Project Name: Palmetto Toilet Rebate Program- Phase 3

Project Number: Q381

Contact Person: Penny Johnston

Address: 516 8th Avenue West

City State Zip: Palmetto, FL 34221

Email: pjohnston@palmettofl.org

Project Type:

Water Supply

Strategic Initiatives:

Conservation

Project Description/Benefit/Cost

Description:

The City of Palmetto Toilet Rebate Program will offer a financial incentive for City utility customers (residential, multi-family and commercial/ industrial) when they replace older, inefficient toilets or urinals with new water-saving fixtures, plus the City will provide water-saving attachments and educational materials to encourage continued water conservation. The objective is to reduce indoor water demand. The City of Palmetto will provide up to a \$100.00 rebate check to the utility customer after installation and inspection of each new, water-saving toilet, with a maximum limit of two toilets per residential dwelling unit. The City will dispose of the outdated toilets (3.5 gallons per flush or more) as a condition of the rebate, to ensure that the old fixture will not be reinstalled at another location.

The City is currently serving approximately 4900 potable water accounts and it is estimated that 47% of the City's water customers would be eligible for this rebate program. The City of Palmetto intends to provide up to 125 water conservation kits for the participants this fiscal year, plus informational handouts at no charge to the utility customers. These kits contain water-saving devices such as a low-flow showerhead, bath or kitchen faucet aerator, toilet dye tablets, and water conservation educational materials. The conservation kits are estimated to cost \$2500, and we are allocating \$12,500 for the toilet rebates, plus \$4000 in marketing, bringing the total cost of the Toilet Rebate Program to \$19,000. The City is requesting \$9,500 from Southwest Florida Water Management District in FY2024, and Palmetto will match the \$9,500 with funds within the Water and Sewer budget. The City of Palmetto plans to administer the program without the assistance of an independent service. City staff will perform the rebate qualifications, installation verification, the marketing, the educational component, and follow-up with customer surveys, while tracking pre and post installation water usage. Toilet installation rebates and conservation kit distribution will begin January 1, 2024 and finish December 31, 2024. The City's project close out and draft final reporting will be completed no later than April 1, 2025. The final report will be submitted no later than June1, 2025.

Benefit:

The Palmetto Toilet Rebate Program- Phase 3 will allow replacement of approximately 125 inefficient, high-volume toilets and provide up to 125 water conservation kits, producing a calculated water savings of approximately 6,839 gallons per day (gpd) per household. The project's estimated cost/benefit ratio based on the project cost of \$19,000 for a possible savings of 2,496,235 gallons of water each year.

Calculations assume a savings of at least 1.9 gallons per flush x estimated 5 flushes, per person, per day x 365 days.

Cost:

Estimated Cost: \$19,000:

125 Toilet Rebates to include Single, Multi-family and Commercial locations at \$100.00 each, with a total cost of \$12,500.00 125 Water Conservation Kits and Educational Materials at \$20.00 each, with a total cost of \$2,500.00

Marketing to residents and businesses, with an estimated cost of \$4000.00 The Program includes promotion, opinion surveys, printing, assembly and postage provided by the City of Palmetto. At no time will the rebate amount exceed the actual cost of the toilet and related installation components.

Describe your complementary efforts in developing, implementing and enforcing water conservation, water quality and flood protection ordinances.

The City of Palmetto has taken great steps to conserve indoor water. The Utility Department purchased Enhanced E-Coder R900 radio frequency meters, which are able to more accurately monitor usage and detect leaks. The City has a tiered water rate structure, and staff has also installed reclaimed water access to approximately 95% of the City neighborhoods. Palmetto and SWFWMD have invested time and money implementing an Aquifer Storage and Recovery (ASR) Well to capture treated

FY 2024 Cooperative Funding Initative Application Form

wastewater runoff during the rainy season, and to utilize the stored water during drier periods of the year.

The City of Palmetto, as a community, is required to participate in the National Flood Insurance Program, administered through FEMA, and was recognized for our successful practices. All new development is required to receive the proper building permits, and all finished floor elevations are required to be at or above the 100-year flood elevation.

Most recently, the City of Palmetto, in conjunction with Southwest Florida Water Management District and Tampa Bay Estuary Program, is constructing Connor Park, a mediated brownfield area bordering the Manatee River. The park is designed with a weir system to contain the water, allowing it to slowly seep over approximately 70 acres of land and percolate through the soil, helping to "treat" the stormwater before it flows into the river.

Public outreach, regular stormwater system inspections and capital improvement programs are just a few of the flood protection and water quality improvement initiatives in the City.

Funding Source	Prior Funding	FY2023	FY2024	Future Funding	Total Funding
Applicant Share	0	0	9,500	0	9,500
District Share	0	0	9,500	0	9,500
TOTAL	0	0	19,000	0	19,000
Total	0	0	38,000	0	38,000

Matching Fund Reduction

Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Begin Citywide Marketing- Promotional flyers, advertising, community meetings	10/1/23
Begin Toilet Rebate Program for FY24- Toilet Credits, Program Administration, Inspection, and Education	10/1/23
Water Conservation Kits- order supplies, assemble kits	1/1/24
Draft Final Report	4/1/24
Submit Final Report	6/1/25

FY 2024 Cooperative Funding Initative Application Form

Project Name: Peace River Regional Reservoir No. 3 (PR3) - Final Design and Construction

Project Number: Q272	Cooperator: PRMRWSA
Contact Person: James Guida, P.G.	Department:
Address: 9415 Town Center Parkway	Phone #: 9413161776
City State Zip: Lakewood Ranch, FL 34202	Ext:
Email: JGuida@regionalwater.org	
Project Type:	
Water Supply	
Strategic Initiatives:	
Alternative Water Supply	Strategic Initiative

Project Description/Benefit/Cost

Description:

The Peace River Reservoir No. 3 - Final Design and Construction Project (PR3 Project) consists of final design, permitting and construction of a new 9 billion-gallon (BG) off-stream raw water storage reservoir (PR3), a new river intake pump station, a new reservoir pump station, and new conveyance pipelines to convey water from the new pumping station to PR3 and from PR3 to the Peace River Water Treatment Facility (PRF). The Project is supported by the Authority's WUP No. 20010420.011 which authorizes a maximum daily withdrawal from the Peace River of 258 MGD to enhance the capture and storage of excess flows during the wet season, and delivery of up to 80 MGD of Alternative Water Supply (AWS) to the region. This PR3 Project coupled with the forthcoming Peace River Facility Expansion Project (i.e., water treatment plant expansion) is referred to as the "Surface Water Supply Expansion Project" (SWSEP). The SWSEP is identified in the District's RWSP as the next AWS source to be developed to meet our member's demands. In conformance with the District's recently revised CFI Governing Board Policy (July 26, 2022) the Authority is postponing submittal of a request for cooperative funding for the Peace River Facility Expansion component of the SWSEP Project until the FY2025 CFI cycle to allow for the completion of preliminary design and a third-party review. A District co-funded Feasibility and Siting Report for the PR3 Project was completed in December 2021. Preliminary design and third-party review are already funded under Project No. Q272 and will be completed in FY2023. It is anticipated that the Project will be completed through an Alternative Delivery Method and will select a contractor around the Spring of 2023. The Project is an Alternative Water Supply (AWS) identified in the District's Regional Water Supply Plan (RWSP) and supports the SWUCA Recovery Strategy through conjunctive use of surface and groundwater sources based on management and rotation of supply resources. The duration of the Project is from October 2023 - January 2028. At the request of Authority members, additional water supply capacity is required to be online by 2028.

Benefit:

The Project will build upon the 2021 Feasibility and Siting Report and the preliminary design report and third-party review efforts to be completed in FY2023 and will ultimately result in the expanded storage necessary to continue to meet regional demands with AWS sources. Customer-identified demand projections identify the need for about 24 MGD over the next 20 years (2042), of which up to 18 MGD (75%) are estimated to be provided by the SWSEP. No additional WUP permitting is required. The Project will support the SWUCA Recovery Strategy through conjunctive use of surface and groundwater sources based on management and rotation of supply sources. These benefits are consistent with the District's 2022-2026 Strategic Plan, Regional Priorities and Objectives for the Southern Region - SWUCA Recovery (page 19) which include "ensuring a sustainable water supply" and "assisting the Authority in the development of 21 MGD of AWS sources".

Cost:

The costs identified within this CFI request are based upon the recently developed 15% Design estimate from Preliminary Design Project No. Q272 and reflect the best available information at this time. It is anticipated that this cost estimate will be further refined during the preliminary design report and third-party review efforts to be completed in FY2023. The estimated total cost for final design, permitting and construction is \$559,000,000, with \$289,500,000 proposed to be provided by the Authority (inclusive of all mitigation costs) and \$269,500,000 proposed to be provided by the District. A schedule of anticipated expenditures for the Project is provided in the Funding Table component of this CFI Application.

Describe your complementary efforts in developing, implementing and enforcing water conservation, water quality and flood protection ordinances.

The Authority is a wholesale supplier of potable water to Charlotte, DeSoto, Manatee and Sarasota Counties, and the City of North Port, each of whom are retail suppliers for their respective public water systems. As reported on the District's Conservation Dashboard, all four customers that currently receive water from the Authority are

FY 2024 Cooperative Funding Initative Application Form

identified in the District's 2020 Conservation All-Stars list. Consistent with the District's Strategic Plan Objective (2022-2026) to achieve and maintain a reduction in regional average unadjusted gross per capita of 79.7 gpcd by 2025, the Authority's Members and Customers WY2021 average unadjusted gross per capita use rate was 76.2 gpcd, a value over 4% less than the District's 2025 per capita use objective.

Consistent with the District's Strategic Plan Objective to achieve increased use of all wastewater flows by 2040, assist in the implementation of potable reuse, develop ASR options for potable and reclaimed water supply, and increase the percentage of total water use supplied by AWS sources, the Authority is simultaneously applying for WY2024 co-funding to undertake a Regional Reclaimed Water Supply Feasibility Study (RRWSFS) to explore potential opportunities for the Authority to partner with local governments to further beneficial use of their reclaimed water supplies across the region. With respect to ASR, and on a parallel path with the Reclaimed Water ASR aspects which will be explored in the RRWSFS, the Authority continues to pursue permitting and evaluation of treatment options for Partially Treated Surface Water ASR at the Peace River Facility. The Authority financial and staff resources associated with Reserve security, patrolling, and maintaining perimeter fencing, exotic/invasive vegetation and animal control, prescribed burning, road repairs and maintenance, and maintenance of equestrian and pedestrian trails.

The Authority regularly evaluates water conservation/demand management opportunities in its Integrated Regional Water Supply Master Plans and will do so again in its forthcoming 2025 Plan. The Authority also periodically hosts Regional Water Alliance meetings with elected officials and their staffs to discuss water conservation, demand management, and AWS opportunities, and cooperatively participates with Customer utilities and the District in public awareness and education programs regarding water conservation. Efforts include broadcast public service announcements, newspaper advertisements, inserts, and public presentations.

Funding Source	Prior Funding	FY2023	FY2024	Future Funding	Total Funding
Applicant Share	0	4,500,000	45,000,000	240,000,000	289,500,000
District Share	0	0	29,500,000	240,000,000	269,500,000
Total	0	4,500,000	74,500,000	480,000,000	559,000,000

Matching Fund Reduction

Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Initiate Final Design and Construction	10/1/23
Complete Final Design and Construction	2/1/28

FY 2024 Cooperative Funding Initative Application Form

Project Name: PELICAN DRIVE STORMWATER IMPROVEMENT PROJECT

Project Number: Q382	Cooperator: City of Sarasota
Contact Person: Amy E. Jones	Department:
Address: 1565 First Street	Phone #: 9412636303
City State Zip: Sarasota, FL 34236	Ext:
Email: amy.e.jones@sarasotafl.gov	
Project Type:	
Flood Protection, Water Quality	
Strategic Initiatives:	
Emergency Flood Response	Floodplain Management
Water Quality Maintenance and Improvement	

Project Description/Benefit/Cost

Description:

The proposed Pelican Drive Stormwater Improvement Project will reduce flooding impacts from storm events and provide water quality treatment in the Terrace Gardens residential subdivision and the greater area associated with Pelican Drive, Shade Avenue, Lime Street, and Milmar Drive. Historically, the project area has experienced regular flooding and is an environmental and civic concern. The goals of the proposed improvements are to provide a resilient public stormwater system that will withstand an increasing intensity of future storm events long-term and provide sustainable water quality improvements.

Major elements of the project include:

- Create a 1.5 acre pond to provide water quantity attenuation and water quality treatment improvements.
- Replacement and upsizing of existing drainage pipes to provide additional stormwater capacity.
- Install new drainage pipes to improve stormwater conveyance system.
- Construction of additional curb inlets to reduce roadway flooding.

While there is an active Interlocal Agreement between Sarasota County and the City of Sarasota Regarding Total Consolidation of Stormwater Management, this project is identified as a "Level of Service" issue based on standards set forth by Sarasota County Stormwater Environmental Utility Services. The Flood Protection Level of Service adopted by Sarasota County in 1994 for acceptable flooding for a 100-year storm is 12 inches for Neighborhood Roads and Parking Areas. Sarasota County is aware of our pursing this opportunity and is in support of our doing so. All project activities will aid in Low Impact Development (LID); work towards stormwater mitigation citywide; contribute to the National Pollutant Discharge Elimination System (NPDES); and take place on land owned by the City of Sarasota.

The Pelican Drive Stormwater Improvement Project is specifically aligned with SWFWMD Goals and Strategic Initiatives for water quality and flood protection and directly addresses Regional Priorities and Objectives of developing plans and implementing projects for water quality improvements as indicated in the SWFWMD Strategic Plan 2020-2024. The project area is located in the Hudson Bayou basin of the Sarasota Bay Watershed. Sarasota Bay is designated as an Outstanding Florida Water by the Florida Department of Environmental Protection (FDEP). Any improvements to water quality and flood protection associated with Hudson Bayou and Sarasota Bay have far-reaching benefits to the region, state and beyond. Sarasota Bay is a priority water body in the Strategic Plan; it is a designated Estuary of National Significance and a SWIM priority waterbody. This project furthers the District's Strategic Plan by planning projects to protect and restore natural systems of Sarasota Bay.

Benefit:

Benefits as a result of the Pelican Drive Stormwater Improvement Project include improved water quality and reduction of flood impacts.

Completion of this project will:

- Protect and improve water quality to sustain the water resources, environment, economy, and quality of life.
- Minimize flood damage to project people, property, infrastructure and investment.

Stormwater runoff from the project area flows to Hudson Bayou, a segment of the Sarasota Bay watershed. Sarasota Bay has been designated as a National Estuary, SWIM Plan Priority Watershed and an Outstanding Florida Water. Completion of this project will reduce nutrient levels discharged to Hudson Bayou and ultimately Sarasota Bay by creating a 1.50 acre pond that will treat and attenuate stormwater prior to discharging to the downstream stormwater system. Reduction in nutrient levels may aid in

FY 2024 Cooperative Funding Initative Application Form

the reduction of algae blooms such as Red Tide. Included in the attachments for this project is a Drainage Study Update which documents the occurrence of regular flooding and discusses runoff and alternatives.

Cost:

The City of Sarasota is requesting a total of \$200,000.00 in CFI grant funds for the Pelican Drive Stormwater Improvement Project. The costs of the Pelican Drive Stormwater Improvement Project included in this application are for design and construction related activities. Design/permitting activities comprise 5% of the total project cost and will be utilized from the 60% design stage and on.

Below is a list of the anticipated project elements and estimated costs:

- Design & Permitting = \$20,000.00
- Site Preparation = \$45,532.00
- Drainage Infrastructure = \$243,100.00
- Landscaping & Restoration = \$24,520.00
- Other Related Costs = \$49,848.00.

Total estimated construction costs of the project = \$400,000.00

- SWFWMD Share = \$200,000.00
- City of Sarasota Matching Funds = \$200,000.00.

A detailed cost estimate is attached to this application.

Describe your complementary efforts in developing, implementing and enforcing water conservation, water quality and flood protection ordinances.

The City of Sarasota implements ordinances, comprehensive plan elements and policies for the enforcement of water conservation, water quality and flood protection. Some of these complementary efforts include:

> Sarasota City Code Chapter 37, Water and Sewers, addresses and enforces aspects of complementary efforts such as conservation, reclamation and pollution prevention.

> The Utilities Chapter of the Sarasota City Plan and Supporting Document states the following adherence: "The City shall comply with Environmental Resource Permitting of Surface Water Management Systems, administered by the Southwest Florida Water Management District (SWFWMD), (Chapters 40D-4, 40D-40, 40D45 and 40D-400, Florida Administrative Code) and cooperate with the SWFWMD on water conservation programs."

> The City of Sarasota is updating its Engineering Design Criteria Manual (EDCM) to specifically address chapters dealing with stormwater management to include revised water quality treatment and water quantity attenuation policies consistent with best practices.

> The City of Sarasota leads active development projects that include land conservation such as the Bobby Jones Created Wetlands System (currently supported by SWFWMD FY22 Cooperative Funding Initiative).

> The City of Sarasota's Strategic Plan includes complementary priorities such as, "Improve Stormwater Quality Runoff from City Parks Adjacent to Waterbodies" and "Smart City Initiative."

> The City of Sarasota collaborated with the Climate Council of Sarasota-Manatee to produce four local mini-documentaries that explain the impacts of sea level rise, coastal flooding, heat, and agriculture on the environment in Sarasota and Manatee counties (https://www.sarasotafl.gov/government/planning/sustainability/climate-change).

> City of Sarasota staff continually develop, partner and/or contribute to complementary efforts as represented by councils, collaborations, partnerships and deliverables such as City of Sarasota's Climate Vulnerability Assessment and Adaptation Plan; Community Playbook for Healthy Waterways; and The Bay Park Conservancy.

Funding Source	Prior Funding	FY2023	FY2024	Future Funding	Total Funding
Applicant Share	0	0	200,000	0	200,000
District Share	0	0	200,000	0	200,000
Total	0	0	400,000	0	400,000

Matching Fund Reduction

Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines

30% Design Complete

7/1/23

FY 2024 Cooperative Funding Initative Application Form

Matching Fund Reduction

Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines

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CFI Contracts Awarded	10/1/23
Procurement Complete	11/1/23
Award Design/Build Contract	12/1/23
60% Design Complete	2/1/24
Permits Complete	2/1/24
90% Design Complete	3/1/24
Final Design Complete	3/15/24
Construction Start	4/1/24
Substantial Completion	7/31/24
Construction Completion	8/31/24
Project Closeout	9/30/24

FY 2024 Cooperative Funding Initative Application Form

Project Name: Phases J, K, and L Water Quality Improvements

Project Number: Q383	Cooperator: Holmes Beach
Contact Person: Sage Kamiya	Department:
Address: 5801 Marina Drive	Phone #: 9417085800
City State Zip: Holmes Beach, FL 34217	Ext: 245
Email: skamiya@holmesbeachfl.org	
Project Type:	
Water Quality	

Strategic Initiatives:

Water Quality Maintenance and Improvement

Project Description/Benefit/Cost

Description:

The focus of this project is the design and construction of stormwater best management practices for the reduction of nutrient loads discharged to Sarasota Bay and Tampa Bay, both are Class II Impaired Water Bodies. These improvements are expected, as a secondary benefit, to provide some improvement to flooding that would also improve public safety and emergency response.

Benefit:

Reduction of stormwater runoff nutrient (total phosphorus and total nitrogen) loads discharged from approximately 90 acres of the City to Sarasota Bay and Tampa Bay.

Cost:

\$2,500,000.00

Describe your complementary efforts in developing, implementing and enforcing water conservation, water quality and flood protection ordinances.

In addition to the City's stormwater utility; the City has an active maintenance program that includes street sweeping, ongoing maintenance, and impervious area reduction.

Funding Source	Prior Funding	FY2023	FY2024	Future Funding	Total Funding
Applicant Share	0	150,000	1,025,000	75,000	1,250,000
District Share	0	150,000	1,025,000	75,000	1,250,000
Total	0	300,000	2,050,000	150,000	2,500,000

Matching Fund Reduction

Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Design	7/28/23
Permitting	11/3/23
Bidding, Contractor Selection, and Contract Award	1/12/24
Construction	1/31/25
Close-out	3/28/25

FY 2024 Cooperative Funding Initative Application Form

Project Name: Piney Pointe, Bishops harbor and Curiosity Creek Watersheds (Q310)

Project Number: Q315	Cooperator: Manatee County
Contact Person: Kenneth Kohn, P.E., Sr. Project Engineer Public Works Department	Department:
Address: 1022 26th Avenue East	Phone #: 9417087450
City State Zip: Bradenton, FI 34208	Ext: 7254
Email: kenneth.kohn@mymanatee.org	
Project Type:	
Flood Protection, Water Quality	
Strategic Initiatives:	
Floodplain Management	Water Quality Maintenance and Improvement

Project Description/Benefit/Cost

Description:

This project is to perform 1) Watershed Evaluation, and 2) Watershed Management Plan elements of the District's Watershed Management Program (WMP); 3) Alternatives Analysis for flood mitigation and Surface Water Resource Assessment for the Piney Point, Bishops Harbor and Curiosity Creek Watersheds. These watersheds comprise roughly 31 square miles and is depicted on the attached Watershed Map. The purpose of this study is to determine floodplain delineation resulting from a 100-year/24-hour storm frequency rainfall event, flood mitigation alternatives and for water quality improvement analysis. The watersheds consist primarily of agricultural lands, and mixed residential areas with commercial/industrial development and has existing flooding problems. Significant areas remain for both future residential and commercial/industrial development and the area is experiencing rapid development and projected future growth. Given the known flooding, and future development it is critical to establish updated flood stages to protect from adverse impacts from flooding as well as to propose flood mitigation alternatives and water quality assessment. These watersheds are flood prone areas under Land Development Code (Section 802.1 and the Stormwater Management Design Manual Section 2.3.1). Portions of Curiosity Creek were included in the Little Manatee Watershed Study (Hillsborough), but that study is now outdated and did not have level of detail for areas in Manatee County. The flood mitigation alternatives analysis will provide cost/benefit options for reduction in flood stages in flood prone areas. County also will use this information to update FEMA FIRM Maps which for this area are 30 years old. This project completes a Surface Water Resource Assessment (SWRA) and Water Quality BMP (Best Management Practices) Alternatives Analysis (referred to as a 'BA'. collectively) for the project area to identify Water Quality improvement options. The principal product of this Water Quality task will be guidance on pollutant load reduction strategies within the project watershed, including structural, non-structural or natural systems BMPs to improve water quality within the project waterbodies and receiving waters. Guidance will include BMP cost effectiveness estimates, but in highly developed areas may preferentially focus on Low Impact Development (LID) retrofits. Water Quality benefits will

also be incorporated in the Flood Alternatives Assessment.

Benefit:

Watershed model and floodplain analysis and cost effective flood mitigation alternatives provide information that is critical to better identify risk of flood damage and cost effective flood mitigation alternatives as well as for planning and future development. Currently, flood analysis models are not available and are over 10-20 years old. These watersheds include regional or intermediate stormwater systems. Resource benefit includes analysis of flooding and water quality problems that exist in the watershed. The study also assists in obtaining lower ranking in the FEMA CRS which may lead to lower flood insurance premiums. The Water Quality tasks will represent findings as a prioritized list of financially feasible - or practically feasible in the event of LID applications - watershed-specific pollutant load reduction strategies to improve water quality improvements in the project watershed, including the incorporation of water quality improvements in flood protection projects. Proposed BMPs will be prioritized on measurable benefit(s), resilience factors and cost effectiveness.

Cost:

Total project cost: \$1,441,500. Manatee County Cost-\$720,750. District Cost \$720,750. Cost was estimated based on on-going Watershed Studies and assistance from SWFWMD staff with estimate of \$46,500 per square mile (\$1.5K for LiDAR, \$15K each for Watershed Eval., Floodplain Analysis, and Alternatives Analysis), for the 31 square mile watershed.

Describe your complementary efforts in developing, implementing and enforcing water conservation, water quality and flood protection ordinances.

FY 2024 Cooperative Funding Initative Application Form

The Manatee County Land Development Code, Section 801.3.E and Stormwater Management Design Manual Section 2.31., authorizes up to a 50% reduction of allowable discharge rate from any new development in a flood prone area. Manatee County has 11 watersheds which have a 50% reduction in allowable runoff for new developments. The aforementioned policy assists the County with the CRS together with County floodplain policy for discounted flood insurance premium rates. The County has established 25 year 24 hour floodplains that have also been mapped into GIS and for which compensation is required in addition to encroachment that occurs in the 100 year FEMA Floodplain. County Land Development Code 802.6.B establishes floodplain management standards and minimum finished floor elevations to protect from flooding. Land Development Code 801 protects quantity and quality of ground and surface waters, groundwater recharge, prevent and reduce salt water intrusion, prevents adverse impacts on adjacent property from diverting flow of surface water, and prevent flood hazards and flood proofing to prevent property damage and loss of life. In addition to reductions noted above, County requires conformance with SWFWMD ERP regulations and special protection within watershed protection areas such as Evers Watershed and Lake Manatee Reservoir. County maintains GIS database including stormwater inventory and FEMA floodplain areas. The County stormwater inventory has also been converted into the GWIS format utilized by the SWFWMD including an electronic copy of existing stormwater system and ERP related record drawings. County cooperatively assists with precipitation and stream gages in the County and area including 27 rain and stream gauges that will provide information for the watershed study. In addition to reductions noted above. County requires conformance with SWFWMD ERP regulations and provides special water quality protections within the watersheds of potable water reservoirs such as the Evers Reservoir and Lake Manatee. The County implements all elements of a Phase-I NPDES MS4 permit which includes various BMPs, protection from illicit discharges and requires routine inspections and enforcement for compliance with applicable water quality standards including those relating to impaired waters and TMDLs. The Storm Water Management Program (SWMP) provides the following water quality improvement services: 1) County-wide (jurisdictional Manatee County) street sweeping and data collection and analyses to estimate pollutant load reduction benefits from this program; 2) County-wide MS4 inspection and maintenance program for structural controls and roadway collection systems, 3) Public education and outreach elements including storm drain stenciling, support for Florida Friendly Landscaping (tm) and specialized outreach channels such as the Manatee Water Atlas and 5) Miscellaneous services such as Adopt-a-Road, litter collection and household hazardous waste collection. The County NPDES-MS4 permit includes an approved monitoring program. SWMP effectiveness is formally evaluated annually. The County has adopted Ordinances regulating Illicit Connections and Discharges through the MS4 (00-02), Fertilizer use (11-21) and Solid Waste (Pet Waste) disposal (85-11) that limit nutrients to receiving water bodies. The County also has a long-term environmental monitoring program (about 80 stations, 30 year record) and a credentialed environmental laboratory to evaluate the success of regional environmental management initiatives. Manatee County is a participant in the Tampa Bay Nitrogen Management Consortium.

Funding Source	Prior Funding	FY2023	FY2024	Future Funding	Total Funding
Applicant Share	0	360,375	360,375	0	720,750
District Share	0	360,375	360,375	0	720,750
Total	0	720,750	720,750	0	1,441,500

Matching Fund Reduction

Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Project Development	3/31/23
Watershed Evaluation	12/31/23
Floodplain Analysis	12/31/24
Surface Water Resource Assessment	12/31/25
Alternatives Analysis	12/31/26

FY 2024 Cooperative Funding Initative Application Form

Project Name: Reclaimed Water ASR

Project Number: Q050

Contact Person: Javier Vargas

Address: 3510 E Laurel Road

City State Zip: Venice, FL 34275

Email: jvargas@venicefl.gov

Project Type:

Water Supply

Strategic Initiatives:

Reclaimed Water

Project Description/Benefit/Cost

Description:

The City of Venice (COV) Eastside Water Reclamation Facility (EWRF) has a permitted capacity of 8.0 MGD. The EWRF operating permit, issued on March 9, 2022, includes an increase to the reclaimed water permitted operating capacity to 4.3 MGD based on the projected amount of RCW available (i.e., demand is expected to meet or exceed the amount available). The use of this RCW offsets the need for pumping shallow coastal wells to meet irrigation needs or the use of potable water for this purpose. However, during periods of peak irrigation demands, spring and early summer, the demand for RCW is greater than EWRF flow and must be met from storage. Current storage is limited to approximately 45 million gallons. Conversely, during low irrigation demand periods the COV must dispose of excess RCW through alternative methods. In order to maximize the availability of RCW for current peak demand periods an estimated additional 31 million gallons for storage is needed. One alternative is to construct storage facilities on the land surface at an estimated cost of \$40 million. The other alternative is the addition of an aquifer storage and recovery well which could provide well in excess of the 31 million gallons currently needed, thus allowing the COV system to meet irrigation demands well into the future. The estimated construction cost of this alternative is approx. \$4.4 million. The COV RCW system includes bulk users (golf courses, parks, development common areas) as well as individual commercial and residual properties. The ASR Well will be located on the EWRF site.

Benefit:

This project will maximize the user of RCW for irrigation purposes thus reducing the amount of withdraws from shallow wells or using potable water for irrigation. Reduced shallow well withdraws reduces salt-water intrusion in the upper aquifer. Reduced use of potable water for irrigation reduces the demand on the potable water supply system.

Cost:

Project Cost: 1) 30% Design Package (CFI previously funded) \$124,957; 2) Third Party Review (CFI previously funded) \$15,108; 3) Final Design and Bidding (CFI previously funded) \$525,000; 4) Test Permitting \$100,000; 5) Construction \$4,400,000; 6) Cycle Testing \$200,000; 6) Independent Performance Evaluation \$24,686; 7) Operations Permitting \$100,000

Describe your complementary efforts in developing, implementing and enforcing water conservation, water quality and flood protection ordinances.

The City of Venice is actively working to develop additional RCW customers, extending RCW distribution and transmission mains, enforcing shallow irrigation well prohibitions where RCW distribution is available, and enforcing existing RCW use requirements for new development. The COV has self-funded the initial feasibility study of the project which has been completed.

Funding Source	Prior Funding	FY2023	FY2024	Future Funding	Total Funding
Applicant Share	1,332,500	1,200,000	212,376	0	2,744,876
District Share	1,332,500	1,200,000	212,376	0	2,744,876
Total	2,665,000	2,400,000	424,752	0	5,489,752

Matching Fund Reduction

Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Cooperator: City of Venice Department: Phone #: 9418827309 Ext:

30% Design Package	2/12/21
Third Party Review	8/30/21
Final Design and Bid	12/11/23
Test Permitting	12/18/23
Construction	3/16/26
Cycle Testing	4/9/29
Independent Performance Evaluation	6/9/29
Operation Permitting	11/9/29

FY 2024 Cooperative Funding Initative Application Form

Project Name: Regional Integrated Loop System Phase 2B Interconnect - Design-Build

Project Number: Q355	Cooperator: PRMRWSA
Contact Person: James Guida, P.G.	Department:
Address: 9415 Town Center Parkway	Phone #: 9413161776
City State Zip: Lakewood Ranch, FL 34202	Ext:
Email: JGuida@regionalwater.org	
Project Type:	
Water Supply	
Strategic Initiatives:	
Alternative Water Supply	Strategic Initiative

Project Description/Benefit/Cost

Description:

The Regional Integrated Loop System Phase 2B Interconnect Design-Build Project (Project) consists of final design, permitting and construction of approximately 13 miles of 42-inch diameter regional transmission pipe. The Project will extend the Authority's regional pipeline system from the current terminus of the Phase 2 Interconnect at Serris Boulevard in Charlotte County westward to the County's existing Gulf Cover Pump Station south of the Myakka River in western Charlotte County. The preferred route for the Project was identified in a March 2022 District co-funded Feasibility and Routing Study and was approved by the Authority Board in April 2022 along with an Interlocal Agreement between the Authority and Charlotte County.

The preliminary design and third-party review components of this Project are already funded under Project No. Q355 and will be completed in FY2023. Final design, permitting and construction for this Project will be completed through an Alternative Delivery Method. The Authority Board selected a contractor to provide Progressive Design-Build Services at its August 2022 meeting. The Project is an Alternative Water Supply (AWS) identified in the District's RWSP and supports the SWUCA Recovery Strategy through conjunctive use of surface and groundwater sources based on management and rotation of supply resources. The duration of the Project is from October 2023 - March 2026. The Authority's April 2022 Interlocal Agreement with Charlotte County for this project identifies project completion by March 2026.

Benefit:

The Project will build upon the March 2022 Feasibility and Routing Study, and the preliminary design report and third-party review efforts to be completed in FY2023 and will ultimately result in the extension and interconnection of the current regional loop system and expanded use of AWS sources. The Project will support the accomplishment of the SWUCA Recovery Strategy through conjunctive use of surface and groundwater sources based on management and rotation of supply sources. These benefits are consistent with the District's 2022-2026 Strategic Plan, Regional Priorities and Objectives for the Southern Region - SWUCA Recovery (page 19) which include "ensuring a sustainable water supply" and "assisting the Authority in the development of 21 MGD of AWS sources".

Cost:

The costs identified within this CFI request are based upon the March 2022 Feasibility and Routing Study and Interlocal Agreement between the Authority and Sarasota County and will be further refined, if necessary, during the preliminary design report and third-party review efforts to be completed in FY2023. The estimated total cost for final design, permitting and construction is \$75,000,000, with \$37,750,000 proposed to be provided by the Authority (inclusive of \$2,000,000 for all land acquisition and mitigation costs) and \$37,250,000 proposed to be provided by the District (inclusive of \$1,500,000 of FDEP-AWS funds). A schedule of anticipated expenditures for the Project is provided in the Funding Table component of this CFI Application.

Describe your complementary efforts in developing, implementing and enforcing water conservation, water quality and flood protection ordinances.

The Authority is a wholesale supplier of potable water to Charlotte, DeSoto, Manatee and Sarasota Counties, and the City of North Port, each of whom are retail suppliers for their respective public water systems.

As reported on the District's Conservation Dashboard, all four customers that currently receive water from the Authority are identified in the District's 2020 Conservation All-Stars list. Consistent with the District's Strategic Plan Objective (2022-2026) to achieve and maintain a reduction in regional average unadjusted gross per capita of 79.7 gpcd by 2025, the Authority's Members and Customers WY2021 average unadjusted gross per capita use rate was 76.2 gpcd, a value over 4% less than the District's 2025 per capita use objective.

Consistent with the District's Strategic Plan Objective to achieve increased use of all wastewater flows by 2040, assist in the implementation of potable reuse, develop ASR options for potable and reclaimed water supply, and increase the percentage of

FY 2024 Cooperative Funding Initative Application Form

total water use supplied by AWS sources, the Authority is simultaneously applying for WY2024 co-funding to undertake a Regional Reclaimed Water Supply Feasibility Study (RRWSFS) to explore potential opportunities for the Authority to partner with local governments to further beneficial use of their reclaimed water supplies across the region. With respect to ASR, and on a parallel path with the Reclaimed Water ASR aspects which will be explored in the RRWSFS, the Authority continues to pursue permitting and evaluation of treatment options for Partially Treated Surface Water ASR at the Peace River Facility. The Authority manages the District's RV Griffin Reserve under a Management and Operations Agreement which includes expenditure of Authority financial and staff resources associated with Reserve security, patrolling, and maintaining perimeter fencing, exotic/invasive vegetation and animal control, prescribed burning, road repairs and maintenance, and maintenance of equestrian and pedestrian trails.

The Authority regularly evaluates water conservation/demand management opportunities in its Integrated Regional Water Supply Master Plans and will do so again in its forthcoming 2025 Plan. The Authority also periodically hosts Regional Water Alliance meetings with elected officials and their staffs to discuss water conservation, demand management and AWS opportunities, and cooperatively participates with Customer utilities and the District in public awareness and education programs regarding water conservation. Efforts include broadcast public service announcements, newspaper advertisements, inserts, and public presentations.

Funding Source	Prior Funding	FY2023	FY2024	Future Funding	Total Funding
Applicant Share	0	750,000	15,437,500	21,562,500	37,750,000
District Share	0	2,250,000	13,437,500	21,562,500	37,250,000
Total	0	3,000,000	28,875,000	43,125,000	75,000,000

Matching Fund Reduction

Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Begin Final Design and Construction	10/1/23
Complete Final Design and Construction	4/1/26

FY 2024 Cooperative Funding Initative Application Form

Project Name: Regional Integrated Loop System Phase 3C Interconnect and Pump Station - Design-Build

Project Number: Q313	Cooperator: PRMRWSA
Contact Person: James Guida, P.G.	Department:
Address: 9415 Town Center Parkway	Phone #: 9413161776
City State Zip: Lakewood Ranch, FL 34202	Ext:
Email: JGuida@regionalwater.org	
Project Type:	
Water Supply	
Strategic Initiatives:	
Alternative Water Supply	Strategic Initiative

Project Description/Benefit/Cost

Description:

The Regional Integrated Loop System Phase 3C Interconnect and Pump Station Design-Build Project (Project) consists of final design, permitting and construction of approximately 8 miles of 42-inch diameter regional transmission pipe and a new regional pumping and storage facility. The Project will extend the Authority's regional pipeline system from the current terminus of the Phase 3B Interconnect at Clark Road (SR-72) in central Sarasota County, northward approximately 8 miles to Fruitville Road where the Phase 3C Pump Station will be located. The preferred route for the Project was identified in a March 2022 District co-funded Feasibility and Routing Study and was approved by the Authority Board in April 2022 along with an Interlocal Agreement between the Authority and Sarasota County.

The preliminary design and third-party review components of this Project are already funded under Project No. Q313 and will be completed in FY2023. Final design, permitting and construction for this Project will be completed through an Alternative Delivery Method. The Authority Board selected a contractor to provide Progressive Design-Build Services at its August 2022 meeting. The Project is an Alternative Water Supply (AWS) identified in the District's Regional Water Supply Plan (RWSP) and supports the SWUCA Recovery Strategy through conjunctive use of surface and groundwater sources based on management and rotation of supply resources. The duration of the Project is from October 2023 - March 2025.

Benefit:

The Project will build upon the District co-funded March 2022 Feasibility and Routing Study, and the preliminary design report and third-party review efforts to be completed in FY2023 and will ultimately result in the extension and interconnection of the current regional loop system and expanded use of AWS sources. The Project will support the accomplishment of the SWUCA Recovery Strategy through conjunctive use of surface and groundwater sources based on management and rotation of supply sources. These benefits are consistent with the District's 2022-2026 Strategic Plan, Regional Priorities and Objectives for the Southern Region - SWUCA Recovery (page 19) which include "ensuring a sustainable water supply" and "assisting the Authority in the development of 21 MGD of AWS sources".

Cost:

The costs identified within this CFI request are based upon the March 2022 Feasibility and Routing Study and Interlocal Agreement between the Authority and Sarasota County and will be further refined, if necessary, during the preliminary design report and third-party review efforts to be completed in FY2023. The estimated total cost for final design, permitting and construction is \$69,600,000, with \$34,550,000 proposed to be provided by the Authority (inclusive of \$2,000,000 for all land acquisition and mitigation costs) and \$35,050,000 (inclusive of \$2,500,000 of FDEP-AWS funds) proposed to be provided by the District. A schedule of anticipated expenditures for the Project is provided in the Funding Table component of this CFI Application.

Describe your complementary efforts in developing, implementing and enforcing water conservation, water quality and flood protection ordinances.

The Authority is a wholesale supplier of potable water to Charlotte, DeSoto, Manatee and Sarasota Counties, and the City of North Port, each of whom are retail suppliers for their respective public water systems.

As reported on the District's Conservation Dashboard, all four customers that currently receive water from the Authority are identified in the District's 2020 Conservation All-Stars list. Consistent with the District's Strategic Plan Objective (2022-2026) to achieve and maintain a reduction in regional average unadjusted gross per capita of 79.7 gpcd by 2025, the Authority's Members and Customers WY2021 average unadjusted gross per capita use rate was 76.2 gpcd, a value over 4% less than the District's 2025 per capita use objective.

Consistent with the District's Strategic Plan Objective to achieve increased use of all wastewater flows by 2040, assist in the implementation of potable reuse, develop ASR options for potable and reclaimed water supply, and increase the percentage of

FY 2024 Cooperative Funding Initative Application Form

total water use supplied by AWS sources, the Authority is simultaneously applying for WY2024 co-funding to undertake a Regional Reclaimed Water Supply Feasibility Study (RRWSFS) to explore potential opportunities for the Authority to partner with local governments to further beneficial use of their reclaimed water supplies across the region. With respect to ASR, and on a parallel path with the Reclaimed Water ASR aspects which will be explored in the RRWSFS, the Authority continues to pursue permitting and evaluation of treatment options for Partially Treated Surface Water ASR at the Peace River Facility. The Authority manages the District's RV Griffin Reserve under a Management and Operations Agreement which includes expenditure of Authority financial and staff resources associated with Reserve security, patrolling, and maintaining perimeter fencing, exotic/invasive vegetation and animal control, prescribed burning, road repairs and maintenance, and maintenance of equestrian and pedestrian trails.

The Authority regularly evaluates water conservation/demand management opportunities in its Integrated Regional Water Supply Master Plans and will do so again in its forthcoming 2025 Plan. The Authority also periodically hosts Regional Water Alliance meetings with elected officials and their staffs to discuss water conservation, demand management, and AWS opportunities, and cooperatively participates with Customer utilities and the District in public awareness and education programs regarding water conservation. Efforts include broadcast public service announcements, newspaper advertisements, inserts, and public presentations

Funding Source	Prior Funding	FY2023	FY2024	Future Funding	Total Funding
Applicant Share	0	1,250,000	15,430,000	17,870,000	34,550,000
District Share	0	3,750,000	13,430,000	17,870,000	35,050,000
Total	0	5,000,000	28,860,000	35,740,000	69,600,000

Matching Fund Reduction

Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Begin Final Design and Construction	10/1/23
Complete Final Design and Construction	4/1/25

FY 2024 Cooperative Funding Initative Application Form

Project Name: Regional Reclaimed Water Supply System Feasibility Study

Project Number: Q385	Cooperator: PRMRWSA
Contact Person: James Guida, P.G.	Department:
Address: 9415 Town Center Parkway	Phone #: 9413161776
City State Zip: Lakewood Ranch, FL 34202	Ext:
Email: JGuida@regionalwater.org	
Project Type:	
Water Supply	
Strategic Initiatives:	
Reclaimed Water	Regional Water Supply Planning
Strategic Initiative	

Project Description/Benefit/Cost

Description:

This Regional Reclaimed Water Supply System Feasibility Study (RRWSFS) Project (Project) will expand upon the preliminary reclaimed water-related information contained within the Authority's Integrated Regional Water Supply Master Plan (IRWSMP) - 2020 Update, with pertinent findings being integrated into the Authority's IRWSMP - 2025 Update. Project evaluations will include: 1) collaboration with regional wastewater utilities to document details regarding treatment and distribution facilities; 2) identification of currently committed vs available reclaimed waters; 3) identification of wet weather storage, interconnection and distribution opportunities; 4) evaluation of evolving reuse regulations and associated challenges and opportunities; 5) identification of the potential role the Authority might be able to play, in cooperative partnership with regional wastewater utilities and the District, to further beneficial reuse of reclaimed water purposes through indirect and direct potable reuse and more-traditional beneficial reuses such as irrigation; and 6) identification of potential next steps for implementing a cooperative regional reuse strategy with interested regional wastewater utilities. The duration of the Project is from October 2023 – March 2025 and will be completed in a timeframe sufficient to allow for integration into the Authority's IRWSMP 2025 Update.

Benefit:

The Authority's IRWSP - 2020 Update found that approximately 22 MGD of reclaimed water in the Authority service area was being disposed of by deep injection wells and discharged to surface waters. This is a significant resource that has potential to benefit the region in the future. The Authority does not treat, dispose of or distribute wastewater, however, regional participation in reclaimed water system storage and interconnections has the potential to improve and expand beneficial uses of reclaimed water. This regional participation effort is a new concept that will require development of partnerships with interested wastewater utilities, as well as careful planning and consideration to make the concept technically, environmentally, and economically feasible.

Cost:

The estimated total cost for this Project is \$400,000, with \$200,000 proposed to be provided by the Authority and \$200,000 proposed to be provided by the District. A schedule of anticipated expenditures for the Project is provided in the Funding Table component of this CFI Application.

Describe your complementary efforts in developing, implementing and enforcing water conservation, water quality and flood protection ordinances.

The Authority is a wholesale supplier of potable water to Charlotte, DeSoto, Manatee and Sarasota Counties, and the City of North Port, each of whom are retail suppliers for their respective public water systems.

As reported on the District's Conservation Dashboard, all four customers that currently receive water from the Authority are identified in the District's 2020 Conservation All-Stars list. Consistent with the District's Strategic Plan Objective (2022-2026) to achieve and maintain a reduction in regional average unadjusted gross per capita of 79.7 gpcd by 2025, the Authority's Members and Customers WY2021 average unadjusted gross per capita use rate was 76.2 gpcd, a value over 4% less than the District's 2025 per capita use objective.

Consistent with the District's Strategic Plan Objective to achieve increased use of all wastewater flows by 2040, assist in the implementation of potable reuse, develop ASR options for potable and reclaimed water supply, and increase the percentage of total water use supplied by AWS sources, the Authority is simultaneously applying for WY2024 co-funding to undertake a Regional Reclaimed Water Supply Feasibility Study (RRWSFS) to explore potential opportunities for the Authority to partner with local governments to further beneficial use of their reclaimed water supplies across the region. With respect to ASR, and on a parallel path with the Reclaimed Water ASR aspects which will be explored in the RRWSFS, the Authority continues to pursue

FY 2024 Cooperative Funding Initative Application Form

permitting and evaluation of treatment options for Partially Treated Surface Water ASR at the Peace River Facility. The Authority manages the District's RV Griffin Reserve under a Management and Operations Agreement which includes expenditure of Authority financial and staff resources associated with Reserve security, patrolling, and maintaining perimeter fencing, exotic/invasive vegetation and animal control, prescribed burning, road repairs and maintenance, and maintenance of equestrian and pedestrian trails.

The Authority regularly evaluates water conservation/demand management opportunities in its Integrated Regional Water Supply Master Plans and will do so again in its forthcoming 2025 Plan. The Authority also periodically also hosts Regional Water Alliance meetings with elected officials and their staffs to discuss water conservation, demand management and AWS opportunities, and cooperatively participates with Customer utilities and the District in public awareness and education programs regarding water conservation. Efforts include broadcast public service announcements, newspaper advertisements, inserts, and public presentations.

Funding Source	Prior Funding	FY2023	FY2024	Future Funding	Total Funding
Applicant Share	0	0	120,000	80,000	200,000
District Share	0	0	120,000	80,000	200,000
Total	0	0	240,000	160,000	400,000

Matching Fund Reduction

Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Initiate Study	10/1/23
Complete Study	4/1/25

FY 2024 Cooperative Funding Initative Application Form

Project Name: SW IMP - Water Quality - Central Holmes Beach BMPs - Phases F, G, and H

Project Number: W105

Contact Person: Herbert Raybourn

Address: 6561 Palmer Park Circle, Suite D

City State Zip: Sarasota, FL 34238

Email: Herbert.Raybourn@respec.com

Project Type:

Water Quality

Strategic Initiatives:

Water Quality Maintenance and Improvement

Project Description/Benefit/Cost

Description:

This is the required reapplication for Agreement No. 22CF0003713, Project No. W105.

The

Benefit:

As stated in the original application: Design, permitting, and construction of stormwater retrofits in the City of Holmes Beach to improve water quality discharging to Tampa Bay, a SWIM priority water body.

Cost:

As stated in the original application: Total project cost: \$1,537,500 (design, permitting, construction) City of Holmes Beach: \$768,750 District: \$768,750 District: \$768,750, with \$256,250 previously funded in FY2022, \$256,250 requested in FY2023, and \$256,250 requested in future years.

Describe your complementary efforts in developing, implementing and enforcing water conservation, water quality and flood protection ordinances.

As stated in the original application: Applicant has an active stormwater utility that collects annual fees.

Funding Source	Prior Funding	FY2023	FY2024	Future Funding	Total Funding
Applicant Share	256,250	256,250	256,250	0	768,750
District Share	256,250	256,250	256,250	0	768,750
Total	512,500	512,500	512,500	0	1,537,500

Matching Fund Reduction

Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines

Design & Permitting	3/1/22
Phase F - Bidding and Contract Award	5/15/22
Phase F - Construction and Construction Engineering & Inspection (CEI)	12/31/22
Phase F – As-Built Survey, Record Drawings & Certificate of Substantial Completion	3/31/23
Phase G - Bidding and Contract Award	5/15/23
Phase G - Construction and Construction Engineering & Inspection (CEI)	12/31/23
Phase G – As-Built Survey, Record Drawings & Certificate of Substantial Completion	3/31/24

Cooperator: Holmes Beach Department: Phone #: 9416675415 Ext:

FY 2024 Cooperative Funding Initative Application Form

Matching Fund Reduction

Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines

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Phase H - Bidding and Contract Award	5/15/24
Phase H - Construction and Construction Engineering & Inspection (CEI)	12/31/24
Phase H – As-Built Survey, Record Drawings & Certificate of Substantial Completion	3/31/25

FY 2024 Cooperative Funding Initative Application Form

Project Name: University Park Country Club

Project Number: Q392

Contact Person: Curtis Nickerson

Address: 7671 The Park Boulevard

City State Zip: University Park, FL 34201

Email: cnickerson@universitypark-fl.com

Project Type:

Water Supply

Strategic Initiatives:

Conservation

Strategic Initiative

Department:

Ext: 249

Phone #: 9413553888

Cooperator: University Park Country Club

Project Description/Benefit/Cost

Description:

• Current irrigation was installed in 1990 with no water conservation in mind. Roughly 1,408 sprinklers, square pattern, with an average GPM of 49.0 at a radius of 91'

- Sprinklers are "doubled up" in the field, so to water a dry area you would have to water a wet area twice as long as it stands.
- Hydraulic sprinklers have a longer rotation timeline including it can take up to 1 or 2 minutes to shut down.
- Very little distribution of uniformity in 32-year-old technology.
- Only 1 weather station which only reports that area not all 28 holes of golf.
- Sprinklers now on the perimeters are full circle throwing not just on turf.
- No current moisture sensors.
- Current controllers in the field are 1 way communication. Signal is sent but no way to tell if the command was received.
- In order to water a "Hot Spot" now a hose has to assembled and no way of measuring the amount of water from a hose.

Benefit:

New irrigation system is design with 1,909 sprinklers, triangle pattern, with an average GPM of 40.5 with an estimated water saving per day of 533,407 GPD (water source: surface water drawn from onsite pond with augmentation wells for backup).
The new Toro 855/INF sprinkler technology has a nozzle selection of 35' to 85' radius plus an assortment of back nozzles lets you put the precise amount of water exactly where you need it, with a radius reduction screw for exact distance to reduce throw down to 30'.

• New system will water down to the second, so if you command a shutdown currently it will take a full additional minute X 1,408 sprinklers to shut down, that is a huge water savings alone with new sprinkler technology.

• Distribution of uniformity will be at each sprinkler with the amount located at the base of the sprinklers will be the exact amount at the end of the throw.

• Hot spot watering can be done now at the sprinkler by flagging on for a minute and holding the sprinklers in one location.

• Weather station on all 3 9 holes.

• Turf Guard moisture sensors at all 28 holes. This will communicate back to the central soil moisture, salinity, and temperature.

Monitors moisture levels and adjust irrigation without risking turf quality. Promote root growth by avoiding over watering. Detect dry areas before impact.

• Individual sprinkler control. Each sprinkler will have their own station to water according to that turf condition. No longer having to overwater a wet area.

• Part circle sprinklers on the perimeter will avoid watering into lakes, native and non turf areas.

Cost:

The cost breakdown in materials includes sprinklers, wire, field controllers, Turf Guard moisture sensors, weather stations, programming and misc. items (See UP-Q10978-Material Quote in "Documents" tab). \$465,206.07 TORO Materials & Labor \$389,490.08 ALLIED Materials (Does not include pipe)

Describe your complementary efforts in developing, implementing and enforcing water conservation, water quality and flood protection ordinances.

New Irrigation System Technologies used to improve irrigation system efficiency using technology, including:

• Turf Guard Wireless Soil Sensors: used to monitor moisture levels in the soil to reduce water use, tacking salt build up, review daily soil temperatures.

• Using sophisticated on-site Campbell Scientific weather stations, weather reporting services and other resources to determine

FY 2024 Cooperative Funding Initative Application Form

accurate daily irrigation replacement needs, thus reducing over-irrigation.

• Improving irrigation uniformity through careful evaluation of valve in head, single sprinkler head design, proper nozzle selection, sprinkler spacing, triangular pattern along with HDPE pipe, pipe size and pressure selection. The Center for Irrigation Technology (CIT) is a leader in combining sprinkler uniformity and relative turfgrass quality needs to achieve the greatest water savings possible on golf courses and other turf areas. The irrigation design was designed around the CIT services to reduce golf course water and energy consumption (See existing sprinkler data vs proposed sprinkler data in "Documents" tab).

• Using state-of-the-art computerized central control systems, portable hand-held controllers, phone and tablet apps and variable frequency drive pumping systems to apply water in the most efficient means to reduce water and energy consumption.

• Considerable savings of water and energy resources can be achieved with these technologies. The proposed state-of-the-art irrigation system estimates a reduced water use by about 26.46%.

• Past projects promoting water conservation: (1) Weather Station, full circle sprinkler changed out to dual part circle sprinklers on greens.

Funding Source	Prior Funding	FY2023	FY2024	Future Funding	Total Funding
Applicant Share	0	0	427,348	0	427,348
District Share	0	0	427,348	0	427,348
Total	0	0	854,696	0	854,696

Matching Fund Reduction

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Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

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Study/ Feasibility	8/15/22
Study/ Conceptual Design	9/1/22
Preliminary Design	9/29/22
60% Design	10/31/22
90% Design	11/30/22
RFB Advertisement	1/9/23
Final Desing, Request For Bids	2/9/23
RFB Evaluation & Award	3/9/23
Notice to Proceed	4/9/23
Permit Submittal	7/3/23
Permits Issued	12/4/23
Commence Construction	3/1/24
Construction Engineering & Inspection	8/1/24
Substantial Completion	8/1/24
As-Built Survey & Record Drawings	8/15/24
Construction Complete	8/30/24
Project Close Out	9/16/24

The Southwest Florida Water Management District (District) does not discriminate on the basis of disability. This nondiscrimination policy involves every aspect of the District's functions, including access to and participation in the District's programs, services and activities. Anyone requiring reasonable accommodation, or who would like information as to the existence and location of accessible services, activities, and facilities, as provided for in the Americans with Disabilities Act, should contact the Human Resources Office Chief, at 2379 Broad St., Brooksville, FL 34604-6899; telephone (352) 796-7211 or 1-800-423-1476 (FL only), ext. 4747; or email <u>ADACoordinator@WaterMatters.org</u>. If you are hearing or speech impaired, please contact the agency using the Florida Relay Service, 1-800-955-8771 (TDD) or 1-800-955-8770 (Voice). If requested, appropriate auxiliary aids and services will be provided at any public meeting, forum, or event of the District. In the event of a complaint, please follow the grievance procedure located at <u>WaterMatters.org/ADA</u>.