

**COOPERATIVE FUNDING PROGRAM  
STORMWATER MANAGEMENT PROJECT APPLICATION**

Applications are limited to 25 pages including figures, Reduction of Matching Funds (if applicable), and Acknowledgment letters. Application submittals must be uploaded at <http://www.sfwmd.gov/coopfunding> by **May 20, 2016 at 6:00 PM**. Prior to completing this Application, it is recommended you read the [CFP Guidelines](#). This application is for projects which will be constructed between October 1, 2016 and September 30, 2018.

**PROJECT SUMMARY**

<b>Project Name:</b> Avenue H East and West – North of Blue Heron			
<b>Project Location:</b> Riviera Beach		<b>County:</b> Palm Beach County	
<b>Project Type (check all that apply):</b>			
Water Quality / Quantity Improvement <input checked="" type="checkbox"/>		Infrastructure Improvement <input checked="" type="checkbox"/>	
Natural System Restoration <input type="checkbox"/>		Storage <input checked="" type="checkbox"/> Flood Protection <input checked="" type="checkbox"/>	
<b>Receiving Waters for Project:</b> Lake Worth Lagoon (Intracoastal Waterway)			
<b>Applicant:</b> City of Riviera Beach			
<b>Authorized Representative:</b> Brynt Johnson		<b>Project Manager (PM), if different:</b> Terrence N. Bailey	
<b>Address:</b> 2391 Ave L		<b>PM Address:</b> 2391 Ave L	
<b>City/Zip:</b> Riviera Beach 33404		<b>PM City/Zip:</b> Riviera Beach 33404	
<b>Telephone:</b> 561-845-4080		<b>PM Telephone:</b> 561-845-3472	
<b>Email:</b> bjohnson@rivierabch.com		<b>PM Email:</b> tbailey@rivierabch.com	
<b>Project Cost:</b> \$7,103,605		<b>Total Project Cost, if multi-year:</b> N/A <input type="checkbox"/>	
<b>Eligible (Construction) Cost:</b> \$1,546,500		<b>Local Match:</b> \$1,296,500	
<b>Requested Funding Amount:</b> \$250,000		<b>Requested Funding Percentage:</b> 16.2%	
<b>Is this a multi-year:</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			
If yes, Number of Project Phases:			
If yes, Project Phases Completed to Date:			
If yes, Expected Total Project Completion Date:			
If yes, has this project received previous SFWMD funding? Yes <input type="checkbox"/> No <input type="checkbox"/>			
If yes, please provide the following information:			
Agreement No.	Year Awarded	Amount Awarded	Amount Invoiced
<b>Are there other District programs or other agencies contributing funding to this project?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			
If yes, source(s):			
If yes, amount(s):			
<b>Does any SFWMD employee, Governing Board member, contractor, or other affiliate of the Applicant have a financial interest in this project, the property associated with this project or with any party that may profit financially from this project?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			
If yes, list the parties and interests:			
<b>Is the project part of a capital improvement plan?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			
<b>This is a reimbursement program with the entire project scope expected to be completed within the funding period, regardless of amount awarded. There is no guarantee the Applicant will be awarded the amount requested. Are budgeted funds available to pay for the entire scope of the project?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			

**COOPERATIVE FUNDING PROGRAM  
STORMWATER MANAGEMENT PROJECT APPLICATION**

Does the applicant understand that if for any reason, the project scope is not fulfilled to 100% completion as outlined in the statement of work, the funding amount will be reduced to match the original percentage of funding in the purchase order that was based on the estimated total initial project cost estimate as provided in the application? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Does the applicant understand that if the project scope is completed as outlined in the statement of work and total actual total project costs are below the estimated total project cost, the applicant may not be eligible to receive up to the full award amount? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Does the applicant understand that funds are only for expenses incurred or obligated during the funding period (October 1, 2016- September 30, 2018)? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Is the Applicant a REDI Community? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, can the Applicant provide REDI Community certification? Yes <input type="checkbox"/> No <input type="checkbox"/>

**PROJECT DETAILS**

<p><b>1. Provide a high-level description (several sentences) of the project.</b></p> <p>The existing drainage system within the Avenue H East and West – North of Blue Heron Project area consists of multiple existing inlets collecting stormwater runoff from 56 acres of residential neighborhood and discharging directly to the local RC-4 canal located between Avenue H East and Avenue H West that ultimately connect to the Lake Worth Lagoon, also known as the Intracoastal Waterway. The installation of exfiltration trench throughout the neighborhood and the interconnection of the independent outfall systems was designed to reduce the peak flood stage and flood duration. A total of 3620 linear feet of exfiltration trench is being proposed throughout the neighborhood, which will provide additional storage and improve the water quality of stormwater runoff prior to discharging to the canal.</p>
<p><b>2. Please upload or attached the following:</b></p> <ul style="list-style-type: none"> <li>a. At least one letter-sized figure that depicts the project location in relation to the nearest major road intersection</li> <li>b. At least one letter-sized figure that depicts project details and illustrates information provided in the Statement of Work</li> <li>c. A GIS shapefile or AutoCAD dwg file per Florida State East Zone, NAD83 HARN, US Survey feet of the project location or latitude/longitude:</li> </ul>
<p><b>3. Provide a description for the project, which may be used to create contract documents if selected, that includes:</b></p> <ul style="list-style-type: none"> <li>a. Relevant Background Information                     <p><b>This Avenue H East and West Project is bounded from Blue Heron Boulevard north to Silver Beach Road and Avenue H East to Avenue H West. The existing drainage system within the Avenue H East and West consists of existing drainage inlets servicing the entire 56 acre neighborhood with gravity pipes and outfalls discharging to the local RC-4 canal located between Avenue H East and Avenue H West that ultimately connects to the Lake Worth Lagoon, also known as the intracoastal waterway. The outfall pipes are located along easements between the residential properties and rights-of-way of the intersecting streets. The outfall pipes range from 15” to 48”, where the larger pipe sizes are utilized to discharge the runoff from adjacent streets.</b></p> </li> <li>b. Purpose or Objective(s)                     <p><b>The purpose of the Avenue H East and West Project is to enhance the drainage system throughout the residential neighborhood to reduce flooding. The installation of exfiltration trench throughout</b></p> </li> </ul>

**COOPERATIVE FUNDING PROGRAM  
STORMWATER MANAGEMENT PROJECT APPLICATION**

the neighborhood was identified as the most effective option for reducing the peak flood stage and reducing the flood duration. This proposed pipe network and exfiltration trench will also connect each independent outfall system. A total of approximately 3620 linear feet of exfiltration trench is being proposed throughout the neighborhood, utilizing exfiltration trench sized at 5' x 5'. These proposed improvements will reduce flooding along Avenue H East and Avenue H West by providing additional storage and improving the water quality of the stormwater runoff prior to discharging into the Lake Worth Lagoon.

c. Statement of Work

The proposed activities will include (1) approximately 3620 linear feet of exfiltration trench and over 2760 linear feet of solid drainage pipe, (2) 170 drainage structures, (3) multiple pollution retardant baffles at inlets to keep debris out of the drainage system and ultimately the canal, and (4) regraded roadway to convey flow into the proposed drainage system.

4. Explain how the project aligns with the District's mission.

This project will improve flood control and water quality through the installation of exfiltration trench which provide additional storage and allow stormwater to percolate into the ground water while reducing flooding on the roadways. The current drainage design allows all stormwater runoff to travel directly into existing inlets and gravity pipes which discharge to canals leading to the Lake Worth Lagoon. The installation of the proposed exfiltration trenches and pollution retardant baffles will provide water quality and storage for the runoff prior to discharging into the outfalls and canals.

5. Explain how the project aligns with other applicable plans such as a watershed protection plan, basin management plan, total maximum daily load allocation, or stormwater improvement master plan.

The City of Riviera Beach Stormwater Master Plan did not identified this Avenue H East and West – North of Ble Heron Blvd as a Capitol Improvement Project. However this project and proposed improvements align with the goals outlines in the Stormwater Master Plan and has been designed similarly as the other City projects in adjacent neighborhoods.

6. Describe measurable community or environmental benefits of this project with respect to relevant considerations (improvement of water quality and/or quantity and benefits to natural systems; degree of flood protection and/or resource protection). Please include specific details such as estimated mass of nutrient/contaminant reductions (parts per billion, pounds per day/year) or removal efficiencies, area of natural systems to be restored or enhanced (acres), level of service attributes, conveyance capacity (CFS), and/or volume of storage (acre-feet). Please include all calculations.

As noted, this project will improve the flood control and water quality through the installation of exfiltration trench. Calculations are attached to display the approximate amount of storage (9.45 ac-ft) and estimated nutrient removal efficiency (86.7%) due to the installation of these proposed exfiltration trenches.

7. If applicable, provide the name and reference (i.e., page number) of the related project in the relevant plan associated with the proposed work:

**PROJECT READINESS**

1. Does this project have approval from your Commission or Council? Yes  No

When did approval for this project occur or when is approval expected to occur? **9/3/2014**

Additional space for further explanation: **Resolution No 89-14; Approved bond issuance for project.**

**COOPERATIVE FUNDING PROGRAM  
STORMWATER MANAGEMENT PROJECT APPLICATION**

**2. Is design of this project complete?** Yes  No

If no, is design of this project currently underway? Yes  No

If yes, what percentage of design is complete? **60% Design**

If yes, when will design of this project be complete? **October 2016**

If no, explain:

---

**3. Are the necessary land acquisitions for this project complete?** Yes  No

If no, when will land acquisition be complete?

Additional space for further explanation:

---

**4. Have the necessary access agreements, right-of-way permits, and/or easements for this project been finalized?** Yes  No

If no, when will these items be finalized?

Additional space for further explanation:

---

**5. List requisite federal, state, and/or local permits in the following table and provide applicable information.**

Agency	Permit No.	Permit Type (Water/WW, ERP, CUP, Building)	Permit Obtained?		Permit Date (expected date if not obtained yet)
			Yes	No	
SFWMD	TBD	ERP		TBD	Aug 2016

**6. Has a contractor been selected for this project?** Yes  No

If no, when will a contractor be selected? **November 2016**

Additional space for further explanation:

---

**7. Describe the project timeline and identify significant project milestones and associated dates. Enter text. A Gantt chart may be attached for additional illustration.**

When will construction for this project begin? **January 2017**

What is the duration of construction activities in months? **6 to 8 months**

When will this project be complete? **July 2017 – September 2017**

**SUBMITTAL CHECKLIST**

**Have project figures been included in the application or uploaded/attached separately?** Yes  No

---

**Has the GIS shapefile or AutoCAD dwg file for the project been uploaded?** Yes  No

If no, have latitude and longitude been provided as requested in question 2-C? Yes  No

COOPERATIVE FUNDING PROGRAM  
STORMWATER MANAGEMENT PROJECT APPLICATION

<b>Have measurable community or environmental benefits been sufficiently discussed and quantified in question 6?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
<b>Has the Acknowledgment Form been completed and notarized (on letterhead) and uploaded/attached as a pdf?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
<b>If applicable, has the Waiver to Reduction Form been completed (on letterhead) and uploaded/attached as a pdf?</b> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>