

3649 - Stormwater Master Drainage Plan Phase 2 (CID510057_TownofWarrenton_CFPF)

Application Details

Funding Opportunity:

3294-Virginia Community Flood Preparedness Fund - Study Grants - CY25 Round 6

Funding Opportunity Due Date: Dec 1, 2025 11:59 PM

Program Area: Virginia Community Flood Preparedness Fund

Status: Under Review

Stage: Final Application

Initial Submit Date: Dec 1, 2025 6:35 PM

Initially Submitted By: Jared Hodes

Last Submit Date:

Last Submitted By:

Contact Information

Primary Contact Information

Active User*: Yes

Type: External User

Name*: Mr. Jared Lee Hodes
Salutation First Name Middle Name Last Name

Title: Engineer

Email*: jared.hodes@kimley-horn.com

Address*: 11400 Commerce Park Dr Suite 400

Reston Virginia 20191
City State/Province Postal Code/Zip

Phone*: 571-453-7587 Ext.

Phone

###-###-####

Fax: ####-####-####

Comments:

Organization Information

Status*: Approved
Name*: Kimley-Horn
Organization Type*:
Tax ID*: 56-0885615
Unique Entity Identifier (UEI)*: V8PKGG6NLKV6
Organization Website:
Address*: 421 Fayetteville Street Suite 600

Raleigh North Carolina 27601-
City State/Province Postal Code/Zip

Phone*: 919-677-2000 Ext.

###-###-####

Fax: ####-####-####

Benefactor:

Vendor ID:

Comments:

VCFPF Applicant Information

Project Description

Name of Local Government*: Town of Warrenton

Your locality's CID number can be found at the following link: [Community Status Book Report](#)

NFIP/DCR Community 510057

Identification Number (CID)*:

If a state or federally recognized Indian tribe,

Name of Tribe:

Authorized Individual*: Stephanie Miller

First Name Last Name

Mailing Address*: 21 Main Street

Address Line 1

Address Line 2

Warrenton Virginia 20186

City State Zip Code

Telephone Number*: 540-347-1101

Cell Phone Number*: 540-347-1101

Email*: smiller@warrentonva.gov

Is the contact person different than the authorized individual?

Contact Person*: Yes

Contact: Kerry Wharton
First Name Last Name
21 Main Street
Address Line 1
Address Line 2
Warrenton Virginia 20186
City State Zip Code

Telephone Number: 540-347-1101

Cell Phone Number: 540-428-9587

Email Address: kwharton@warrentonva.gov

Enter a description of the project for which you are applying to this funding opportunity

Project Description*:

Phase 2 of this stormwater master drainage plan encompasses 4 of the Town's subwatersheds. These Phase 2 subwatersheds are labeled as Great Run 2, Turkey Run 1, Cedar Run 1, and Cattail Branch 1. The purpose of this study is to evaluate hydrologic and hydraulic conditions within the Phase 2 subwatersheds, identify and confirm areas of flooding, and to conceptualize potential solution to help mitigate flooding.

Low-income geographic area means any locality, or community within a locality, that has a median household income that is not greater than 80 percent of the local median household income, or any area in the Commonwealth designated as a qualified opportunity zone by the U.S. Secretary of the Treasury via his delegation of authority to the Internal Revenue Service. A project of any size within a low-income geographic area will be considered.

Is the proposal in this application intended to benefit a low-income geographic area as defined above?

Benefit a low-income geographic area*: No

Information regarding your census block(s) can be found at census.gov

Census Block(s) Where Project will Occur*:

1000, 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 1009, 1010, 1011, 1013, 1014, 1015, 1016...

Is Project Located in an NFIP Yes

Participating Community?*:

Is Project Located in a Special Flood Hazard Area?*: Yes

Flood Zone(s) (if applicable): Zone A, Zone AE, Zone AE Floodway, Shaded Zone X

Flood Insurance Rate Map Number(s) (if applicable):

51061C0302D, 51061C0304D, 51061C0306D, 51061C0308D, 51061C0307D, 51061C0309D, 51061C0325D

Eligibility - Round 4

Eligibility

Is the applicant a local government (including counties, cities, towns, municipal corporations, authorities, districts, commissions, or political subdivisions created by the General Assembly or pursuant to the Constitution or laws of the Commonwealth, or any combination of these)?

Local Government*:

Yes

Yes - Eligible for consideration

No - Not eligible for consideration

If the applicant is not a town, city, or county, are letters of support from all affected local governments included in this application?

Letters of Support*:

N/A

Yes - Eligible for consideration

No - Not eligible for consideration

Has this or any portion of this project been included in any application or program previously funded by the Department?

Previously Funded*:

No

Yes - Not eligible for consideration

No - Eligible for consideration

Has the applicant provided evidence of an ability to provide the required matching funds?

Evidence of Match Funds*:

Yes

Yes - Eligible for consideration

No - Not eligible for consideration

N/A - Match not required

Scope of Work - Studies - Round 4

Scope of Work

Upload your Scope of Work

Please refer to Part IV, Section B. of the grant manual for guidance on how to create your scope of work

Scope of Work*:

CID510057_TownofWarrenton_CFPF_Scop eofServices.pdf

Comments:

Kimley-Horn scope of services. Attachment 2 (fee table) has been removed on purpose.

Budget Narrative

Budget Narrative Attachment*: CID510057_TownofWarrenton_CFPF_SectionB_Budget.pdf

Comments:

Section B of the overall grant application package. All budget related information is included. Attachment 2 of the Kimley-Horn scope of services (fee table) has been removed on purpose.

Scoring Criteria for Studies - Round 4

Scoring

Revising floodplain ordinances to maintain compliance with the NFIP or to incorporate higher standards that may reduce the risk of flood damage. This must include establishing processes for implementing the ordinance, including

but not limited to, permitting, record retention, violations, and variances. This may include revising a floodplain ordinance when the community is getting new Flood Insurance Rate Maps (FIRMs), updating a floodplain ordinance to include floodplain setbacks or freeboard, or correcting issues identified in a Corrective Action Plan.

**Revising Floodplain
Ordinances*:** No
Select

Creating tools or applications to identify, aggregate, or display information on flood risk or creating a crowd-sourced mapping platform that gathers data points about real-time flooding. This could include a locally or regionally based web-based mapping product that allows local residents to better understand their flood risk.

Mapping Platform*: No
Select

Conducting hydrologic and hydraulic studies of floodplains. Applicants who create new maps must apply for a Letter of Map Revision or a Physical Map Revision through the Federal Emergency Management Agency (FEMA).

Hydrologic and Hydraulic Studies*: Yes Select

Funding of studies of statewide and regional significance and proposals will be considered for the studies listed below - Up to 45 points

Studies and Data Collection of Statewide and Regional Significance Scoring:

Updating precipitation data and IDF information (rain intensity, duration, frequency estimates) including such data at a sub-state or regional scale on a periodic basis. (45)

Regional relative sea level rise projections for use in determining future impacts. (45)

Vulnerability analysis either statewide or regionally to state transportation, water supply, water treatment, impounding structures, or other significant and vital infrastructure from flooding. (45)

Flash flood studies and modeling in riverine regions of the state. (45)

Statewide or regional stream gauge monitoring to include expansion of existing gauge networks. (45)

New or updated delineations of areas of recurrent flooding, stormwater flooding, and storm surge vulnerability in coastal areas that include projections for future conditions based on sea level rise, more intense rainfall events, or other relevant flood risk factors. (45)

Regional flood studies in riverine communities that may include watershed scale evaluation, updated estimates of rainfall intensity, or other information. (45)

Regional hydrologic and hydraulic studies of floodplains. (45)

Studies of potential land use strategies that could be implemented by a local government to reduce or mitigate damage from coastal or riverine flooding. (40)

Other proposals that will significantly improve protection from flooding on a statewide or regional basis (35)

Studies and Data Collection of Statewide and Regional Significance*:

Vulnerability analysis either statewide or regionally to state transportation, water supply, water treatment, impounding structures, or other significant and vital infrastructure from flooding

Is the project area socially vulnerable? (based on ADAPT Virginia's Social Vulnerability Index Score)

Social Vulnerability Scoring:

Very High Social Vulnerability (More than 1.5)

High Social Vulnerability (1.0 to 1.5)

Moderate Social Vulnerability (0.0 to 1.0)

Low Social Vulnerability (-1.0 to 0.0)

Very Low Social Vulnerability (Less than -1.0)

Socially Vulnerable*: Low Social Vulnerability

Is the proposed project part of an effort to join or remedy the community's probation or suspension from the NEIP?

NFIP*:

No

Is the proposed project in a low-income geographic area as defined below?

"Low-income geographic area" means any locality, or community within a locality, that has a median household income that is not greater than 80 percent of the local median household income, or any area in the Commonwealth designated as a qualified opportunity zone by the U.S. Secretary of the Treasury via his delegation of authority to the Internal Revenue Service. A project of any size within a low-income geographic area will be considered.

Low-Income Geographic Area*: No

Projects eligible for funding may also reduce nutrient and sediment pollution to local waters and the Chesapeake Bay and assist the Commonwealth in achieving local and/or Chesapeake Bay TMDLs.

Does the proposed project include implementation of one or more best management practices with a nitrogen, phosphorus, or sediment reduction efficiency established by the Virginia Department of Environmental Quality or the Chesapeake Bay Program Partnership in support of the Chesapeake Bay TMDL Phase III Watershed Implementation Plan?

Reduction of Nutrient and Yes

Sediment Pollution*:

Comments:

It is anticipated that outfall channel restoration projects and/or BMP retrofits will be identified as a result of this study. These activities will assist the Town in meeting its Chesapeake Bay TMDL reduction goals

Scope of Work Supporting Information - Studies

Scope of Work Supporting Information

Is the proposed study a new study or updates on a prior study?

New or Updated Study*: New Study

Describe the relationship of the study to the local government's needs for flood prevention and protection, equity, community improvement, identification of nature-based solutions or other priorities contained in this manual

Relationship of Study to

Priorities Contained in this

Manual*:

This master plan study will be utilized to evaluate infrastructure criticality and quantify the extent of aging and undersized storm sewer infrastructure within the Town. The local government, public works, and public utilities department is aware of recurrent flooding and localized drainage issues within the Town and will use this study to model these known areas, as well as identify areas that are at, or near hydraulic capacity that will be to exhibit flooding characteristics with the anticipated increase in higher intensity and longer duration storm events. The 4 basin locations proposed in this watershed study were strategically picked to pair high priority storm infrastructure issues with an equitable distribution of projects over the Town's many urban areas and neighborhoods. As with all watershed modeling, closed conduit system modeling will be paired with a riverine hydraulics analysis to holistically evaluate each of the proposed sub watersheds, from pipe to channel. and the watershed modeling will inevitably be used to develop multifaceted project approaches that can address storm infrastructure issues, as well as stream bank and channel erosion caused by high exit velocities. The town anticipates using this modeling to identify project locations to abate flooding, as well as project locations to implement nature based solutions such as stream channel restoration, outfall channel restoration, and pond retrofit projects that will be utilized to generate Chesapeake Bay TMDL credits (Nitrogen/Phosphorus) that can be applied to the Town's MS4 Permit Requirements for Pollutant of Concern (POC) reductions

Describe the qualifications of the individuals or organizations charged with conducting the study or the elements of any request for proposal that define those qualifications

Qualifications of Individuals**Conducting Study*:**

For the project team conducting the study outlined in this application, please see Combined Grant Application Package - Section A attached to this submittal for full qualifications and resumes of the project team.

Describe the expected use of the study results in the context of the local resilience plan or, in the case of regional plans, how the study improves any regional approach

Expected use of Study Results*:

The Town does not currently have a Resilience Plan but has expressed interest in potentially creating one in upcoming years. This study will help build a Town-wide stormwater model that can be updated with new development plans or other infrastructure projects. This will enable the Town to have an accurate depiction of its stormwater system and what any potential changes to the system would result in with regard to hydraulic grade lines, flood extents, and level of service. Building a state of the art, Town-wide stormwater management model will enhance the resiliency of the Town for decades to come and will allow the Town to effectively prioritize project funding across the Town. The modeling results will be utilized to help provide information to the Rappahannock-Rapidan Regional Commission and can be coordinated with counties such as Fauquier and others to help assist with regional hazard mitigation plans. The Town has worked with the Rappahannock Rapidan Regional Commission previously to help obtain grant funding for pond retrofits and nature based solutions.

Rappahannock-Rapidan Regional Commission Regional Hazard Mitigation & Resiliency Plan

https://www.rrregion.org/program_areas/community_development/hazard_mitigation.php

If applicable, describe how the study may improve Virginia's flood protection and prevention abilities in a statewide context (type N/A if not applicable)

Statewide Improvements*:

N/A

Provide a list of repetitive and/or severe repetitive loss properties. Do not provide the addresses for the properties, but include an exact number of repetitive and/or severe repetitive loss structures within the project area

Repetitive Loss and/or Severe Repetitive_Loss_Statement.docx

Repetitive Loss Properties*:

Describe the residential and commercial structures impacted by this project, including how they contribute to the community such as historic, economic, or social value. Provide an exact number of these structures in the project area

Residential and/or Commercial**Structures*:**

There are 1,799 buildings located within the study area (1,284 within the Town of Warrenton). It will be determined through the results of this study, how many of these buildings are impacted by flooding conditions. There are significant commercial zoning districts within the Town in addition to the many residential neighborhoods that make up most of the Town. Within the Phase 2 study area and within the Town of Warrenton, based on public GIS data, there are 135 commercial and industrial buildings, over 1,030 single family residential buildings, 21 multi family residential buildings, as well as dozens of buildings related to Town government, State government, religious, and educational purposes. There are over 40 buildings located within a FEMA Zone (2 in the Zone AE floodway, 16 in the 1% ACF floodplain, and 27 in the 0.2% ACF floodplain). A significant portion of this study is to identify properties, structures, and areas of the Town that experience flooding issues, but are also located outside of the mapped FEMA flood hazard areas.

If there are critical facilities/infrastructure within the project area, describe each facility

Critical Facilities/Infrastructure*:

This study analyzes a large portion of the Town and therefore encompasses a tremendous amount of infrastructure that could stand to benefit from this work. There are 710 sanitary sewer manholes in the study area

per Town GIS data, over 144,000 linear feet of sanitary sewer lines, and over 108,000 linear feet of storm sewer pipe. There are also multiple sanitary sewer pump stations located within the study area. There are at least 120 bridges and culverts located within the study area that stand to be impacted by and impact flooding conditions. These bridges and culverts will be analyzed as part of this study. A part of this study will be identifying additional critical facilities that are impacted by flooding (hospitals, emergency services, police stations, fire stations, schools, etc.).

Budget

Budget Summary

Grant Matching Requirement*: Flood Prevention and Protection Studies - Fund 50%/Match 50%

Is a match waiver being requested?

Match Waiver Request No

Note: Only low-income communities are eligible for a match waiver

*:

Total Project Amount (Request + Match)*: \$1,079,661.62

**This amount should equal the sum of your request and match figures

REQUIRED Match Percentage Amount: \$539,830.81

BUDGET TOTALS

Before submitting your application be sure that you meet the match requirements for your project type.

Match Percentage:

50.00%

Verify that your match percentage matches your required match percentage amount above.

Total Requested Fund Amount: \$539,830.81

Total Match Amount: \$539,830.81

TOTAL: \$1,079,661.62

Personnel

Description	Requested Fund Amount	Match Amount	Match Source
	No Data for Table		

Fringe Benefits

Description	Requested Fund Amount	Match Amount	Match Source
	No Data for Table		

Travel

Description	Requested Fund Amount	Match Amount	Match Source
	No Data for Table		

Description	Requested Fund Amount	Match Amount	Match Source
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Equipment

Description	Requested Fund Amount	Match Amount	Match Source
	No Data for Table		

Supplies

Description	Requested Fund Amount	Match Amount	Match Source
	No Data for Table		

Construction

Description	Requested Fund Amount	Match Amount	Match Source
	No Data for Table		

Contracts

Description	Requested Fund Amount	Match Amount	Match Source
Engineering Services Contract	\$539,830.81	\$539,830.81	Town Stormwater Management Fund
	\$539,830.81	\$539,830.81	

Pre-Award and Startup Costs

Description	Requested Fund Amount	Match Amount	Match Source
	No Data for Table		

Other Direct Costs

Description	Requested Fund Amount	Match Amount	Match Source
	No Data for Table		

Supporting Documentation

Supporting Documentation

Named Attachment	Required Description	File Name	Type S
Detailed map of the project area(s) (Projects/Studies)	Detailed maps of the project (study) area	CID510057_TownofWarrenton_CFPF_Detailed_Maps.pdf	pdf

Named Attachment	Required Description	File Name	Type S
FIRMette of the project area(s) (Projects/Studies)	FEMA FIRM Panels for the study area. Large study area (most of the Town) necessitated FIRM Panels instead of smaller extent FIRMettes	CID510057_TownofWarrenton_CFPF_FEMA_FIRMs.pdf	pdf 8
Historic flood damage data and/or images (Projects/Studies)	Images of flood damage within the study area.	CID510057_TownofWarrenton_CFPF_Flood_Damage.pdf	pdf 1
A link to or a copy of the current floodplain ordinance	Link to Town of Warrenton floodplain ordinance (3- 5.1 for floodplain district)	CID510057_TownofWarrenton_CFPF_Floodplain_Ordinance_link.pdf	pdf 2
Maintenance and management plan for project			
A link to or a copy of the current hazard mitigation plan			
A link to or a copy of the current comprehensive plan	Link to Town's comprehensive plan	CID510057_TownofWarrenton_CFPF_Comp_Plan_link.pdf	pdf 3
Social vulnerability index score(s) for the project area	SVI map and score for study area	CID510057_TownofWarrenton_CFPF_SVI.pdf	pdf 1
Authorization to request funding from the Fund from governing body or chief executive of the local government	Funding Request Authorization from Interim Town Manager	CID510057_TownofWarrenton_CFPF_Funding_Authorization.pdf	pdf 1

Named Attachment	Required Description	File Name	Type	S
Signed pledge agreement from each contributing organization				
Maintenance Plan				
		<i>Benefit-cost analysis must be submitted with project applications over \$2,000,000. in lieu of using the FEMA benefit-cost analysis, applicants may submit a narrative to describe in detail the cost benefits and value. The narrative must explicitly indicate the benefits of a flood mitigation project and compares those benefits to its cost-effectiveness.</i>		
Benefit Cost Analysis				
Other Relevant Attachments	Full CFPF submittal package with all elements for reference or review	CID510057_TownofWarrenton_CFPF_full_submittal_package.pdf	pdf	1

Letters of Support

Description	File Name	Type	Size	Upload Date
	No files attached.			