



## Takoma Park City Council Meeting - July 13, 2022

### Agenda Item 3

#### Work Session

Contract for a Stormwater Resiliency Study with the Low Impact Development Center

#### Recommended Council Action

Authorize the City Manager to execute a professional services contract for a Stormwater Resiliency Study

#### Context with Key Issues

In the FY22 budget, the Council provided \$150,000 in the operating budget for a study of stormwater impacts on private property and management options. The Department began discussing the scope of work and reaching out to our on-call engineering partners and well as other engineering firms. We also contacted several municipalities to gather information and insight about how the City might approach the issue. During that process we were introduced to the Low Impact Development Center. This organization has performed stormwater impact analysis for several jurisdictions including Somerset, Hyattsville and Cheverly. The Low Impact Design Center was also awarded a competitively bid contract from Prince George's County for similar work to which the City can participate through the MWCOG Rider.

The Low Impact Development Center proposed Scope of Work includes three tasks.

*Task 1* includes two sub-tasks, the first will provide a suite of stormwater management solutions for both private and public property. It is envisioned that this will provide much needed public information that the City can post to our website to help residents understand options for management of stormwater. The second sub-task will be to develop a plan that provides recommendations for addressing stormwater impacts on approximately 20 locations identified as flood prone. This analysis will use GIS information, satellite imagery and field visits. Two of these locations will be studied in detail to illustrate the possible reduction in run-off volume through implementation of the recommended measures. Task 1 will include 4 virtual meetings and 1 in person meeting for interested members of the public.

*Task 2* will detail a list of proposed incentives and Code changes that the City may want to consider to enhance stormwater requirements, both at the City level and to recommend at the County level.

*Task 3* will establish a dashboard on the City's website that will enable property owners to estimate the amount of run-off produced by various types of storm events based on the amount of pervious and impervious surface within their property. The dashboard will also include links to available city incentive and State grant programs.

#### Council Priority

Environmentally Sustainable Community

Responsive and Service-Oriented Government

**Environmental Impact of Action**

This project will provide helpful informing to the public in a useful format and will also inform the City's future capital projects to identify improvements needed to reduce stormwater run-off impacting private properties.

**Fiscal Impact of Action**

The proposal price is a not to exceed amount of \$134,993.56, based on time and material pricing from the Prince George's County contract.

**Racial Equity Impact Statement**

The proposed evaluation of 20 sites will be spread throughout the City to ensure that the potential problems areas are identified citywide, in all neighborhoods, and to develop possible solutions that can be implemented equitably in the future.

**Attachments and Links**

Single Reading Ordinance  
Proposal from Low Impact Design Center

Introduced by: Councilmember

Single Reading:

**CITY OF TAKOMA PARK, MARYLAND**

**ORDINANCE NO. 2022-**

**CONTRACT FOR STORMWATER RESILIENCY STUDY**

WHEREAS, the Council provided \$150,000 in the FY22 operating budget for a study of stormwater impacts on private property and management options; and

WHEREAS, the Public Works Department began developing a scope of work and discussing project concepts with various engineering firms and neighboring municipalities; and

WHEREAS, the Department identified the Low Impact Design Center, Inc. a firm currently under contract with Prince Georges County that has provided similar studies for neighboring municipalities; and

WHEREAS, the awarded contract was competitively bid by the County and meets the criteria as a cooperative purchase for the City; and

WHEREAS, after evaluation, staff recommend awarding a contract to the Low Impact Design Center, Inc. based on their project proposal and experience working with municipalities; and

WHEREAS, funding for project was originally included in the FY22 operating budget, but not spent and is included in Budget Amendment 1 for FY23.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF TAKOMA PARK, MARYLAND, THAT:

SECTION 1. The City Manager is authorized to enter into a contract with the Low Impact Design Center, Inc. for a Stormwater Resiliency Study at the not to exceed amount of \$134,994.

SECTION 2. This Ordinance shall become effective upon adoption.

ADOPTED this \_\_\_\_\_ day of July , 2022 by roll-call vote as follows:

AYE:

NAY:

ABSTAIN:

ABSENT:

## **Attachment A**

### **Scope of Work**

Takoma Park Neighborhood Stormwater Resiliency Study

Prepared by the Low Impact Development Center

July 5, 2022

#### **Task One: Neighborhood Stormwater Resiliency Study**

The Neighborhood Stormwater Resiliency Study includes two sub-tasks. The first sub-task includes two (2) deliverables. The first deliverable is to provide a suite of Citywide public right-of-way and private property solutions to reduce localized impacts of runoff generated from public and private properties. Private property examples include, but are not limited to, redirecting downspouts to reduce impacts on adjacent properties. Public property examples include elongating inlets in the public right-of-way to capture more runoff or building bioretention curb bump outs.

The second deliverable will be a plan that provides recommendations on addressing flooding and water quality impacts on the approximately twenty (20) areas identified as flood prone by the City. The analysis will use County GIS information and supplemental satellite imagery procured by the LID Center. This effort includes a desktop GIS analysis and field visits to derive potential Green Stormwater Infrastructure (GSI) solutions that reduce downstream impacts on adjacent properties.

Potential areas of impacts of surcharging or inadequately sized public drainage systems will be identified through a combination of desktop stormwater management calculations and field observation that will be used to demonstrate the benefits and limitations of the recommendations. A range of hydrologic, or storm conditions, will be evaluated as appropriate.

Sub Task B: Two (2) representative areas will be studied in detail to illustrate the potential reductions for runoff volume and resultant impacts. One area will demonstrate solutions on private properties and the other will be within the public right-of-way. To do the modeling there must be sufficient information on the drainage system in the City GIS database. No field topographic or utility surveys are to be included. The modeling is preliminary and is meant to illustrate the potential outcomes of a detailed study that is based on field surveys of the drainage structures and field run topography. Field visits will be conducted to verify the desktop existing conditions and recommendations. A map of the visits and recommendations will be one of the deliverables. The process and results will be documented in a report. The results can be used to scope out and identify areas for future detailed studies.

The task will include four (4) virtual meetings and one (1) in person field meeting. The first meeting will be to gather and exchange information and inform the community about the approach. The second meeting will a presentation on the project approach and preliminary results. The third meeting will be the presentation of findings, and the fourth meeting will be to present the final report and recommendations.

#### **Task Two: Code and Ordinance Recommendations**

A list and justification of proposed incentives and code change recommendations will be developed that are targeted for development and redevelopment projects within the City. This includes addressing existing requirements for the County Building Permit and situations involving waivers. A memorandum on the process and recommended or potential improvements will be the deliverable.

**Task Three: Reporting and Dashboard Development**

A dashboard that will allow all property owners within the City to identify the amount of pervious and impervious surface on their property and the approximate amount of runoff volume produced by any storm event specified by the user will be included. This tool will allow each resident or property owner to understand the impacts and potential solutions to reducing runoff and improving water quality. The dashboard will also include links to available City incentive and State grant programs from foundations and state agencies, such as the Chesapeake Bay Trust.

Takoma Park Neighborhood Stormwater Resiliency Study Tasks A and B  
 Not to Exceed Cost Estimate  
 The Low Impact Development Center, Inc.  
 July 5, 2022

Labor Category	Rate	Notes:
Sr Environmental Engineer	\$ 210.21	
Urban Planner	\$ 144.39	1.) Rates based on PG DPWT S19-039 Contract
Civil Engineer / PE Level	\$ 94.40	2.) Direct Charges for Mileage billed at Fed Gov Rate
Landscape Architect	\$ 210.21	3.) Direct expenses (printing, exhibits, handouts) billed at direct rate
CADD Operator/Draftsman	\$ 69.54	
GIS Technician	\$ 61.31	

Task No.	Name	Sr Environmental Engineer		Urban Planner		Civil Engineer/PE Level		Landscape Architect		CADD Operator/Draftsman		GIS Technician		Total Labor	
		Hours	Subtotal	Hours	Subtotal	Hours	Subtotal	Hours	Subtotal	Hours	Subtotal	Hours	Subtotal	Hours	Subtotal
1.0	Neighborhood Stormwater Resiliency Study (Task A)	16	\$ 3,363	44	\$ 6,353	160	\$ 15,104	16	\$ 3,363	400	\$ 27,816	80	\$ 4,905	716	\$ 60,905
	Neighborhood Stormwater Resiliency Study (Task B)	16	\$ 3,363	16	\$ 2,310	120	\$ 11,328	0	\$ -	200	\$ 13,908	50	\$ 3,066	402	\$ 33,975
2.0	Code and Ordinance Review	2	\$ 420	8	\$ 1,155	4	\$ 378	2	\$ 420	0	\$ -	0	\$ -	16	\$ 2,374
3.0	Dashboard	2	\$ 420	2	\$ 289	4	\$ 378	0	\$ -	20	\$ 1,391	2	\$ 123	30	\$ 2,600
	<b>Subtotal</b>	<b>36</b>	<b>\$ 7,568</b>	<b>70</b>	<b>\$ 10,107</b>	<b>288</b>	<b>\$ 27,187</b>	<b>18</b>	<b>\$ 3,784</b>	<b>620</b>	<b>\$ 43,115</b>	<b>132</b>	<b>\$ 8,093</b>	<b>1164</b>	<b>\$ 99,854</b>

Direct Expenses	Unit	Quant.	Subtotal
Satellite Imagery	ea.	1	\$ 16,000.00
Modeling Subcontractor	ea.	1	\$ 10,000.00
Dashboard Development by Contractor	ea.	1	\$ 9,000.00
Estimated Mileage ( 0.625)	ea.	200	\$ 125.00
Printing	ea.	10	\$ 15.00
<b>Subtotal</b>			<b>\$ 35,140.00</b>

Labor Costs \$ 99,854  
 Direct Costs \$ 35,140  
**Total \$ 134,993.56**