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**TOWN OF BLADENSBURG**  
**2024 CBT Grant Application Overview**



**Prepared by:**  
**Ecosite, Inc.**

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## Town of Bladensburg – 2024 CBT Grant Application Overview

**Track 1: Water Quality Implementation Projects:** The Town of Bladensburg proposes a pavement conversion and two Bioretention/Rain garden Projects.

**Project Description:** The proposed project are to enhance environmental sustainability, and social equity in the Town of Bladensburg . This will include transforming the parking lot of the Mango Café to a permeable pavement, and 2) adding a rain garden strip along 48<sup>th</sup> Ave., and 3) adding a rain garden in front of the Bladensburg Fire Department building, and also adding a series of mini ran gardens.

### 1. Existing Parking Lot (Owned by Town) – 4713 Bladensburg Road (Mango Café)

Approximately 2,000 square feet (SF) of the existing impervious parking lot can be converted to permeable paving. This will include all the parking spaces on the west side of the parking lot. This will not only reduce the amount of impervious surface but also serve to intercept the surface runoff from the remaining 8,000 SF of the site. The stone under the permeable paving will provide additional volume control.



The current site has aging asphalt, and the Town would like to reduce the stormwater runoff at this location and set up a project that others in the commercial area could look at as an example.

### 2. Install Rain Graden on 48<sup>th</sup> Street

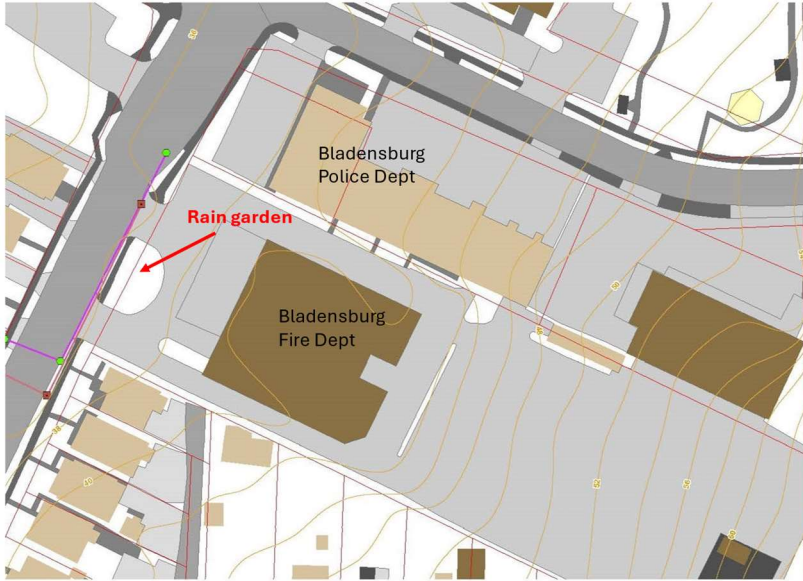
The second part of the project is to install a rain garden in the grass space adjacent to the sidewalk on 48<sup>th</sup> Street.

<b>Permeable Parking Lot -Cost Estimate</b>					
<i>Bid Item</i>	<i>Quantity</i>	<i>Units</i>	<i>Unit Cost</i>	<i>Total</i>	<i>Cumulative</i>
Mobilization	1	LS	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00
Stake out	1	LS	\$ 500.00	\$ 500.00	\$ 1,500.00
MOT	1	LS	\$ 1,000.00	\$ 1,000.00	\$ 2,500.00
Class I Excavation & Disposal	222	CY	\$ 110.00	\$ 24,420.00	\$ 26,920.00
#57 Stone – 3 in	19	CY	\$ 80.00	\$ 1,360.00	\$ 28,280.00
ASTM #2 Stone	112	CY	\$ 80.00	\$ 8,960.00	\$ 37,810.00
C-33 Clean Sand – 4 in.	25	CY	\$ 80.00	\$ 2,000.00	\$ 39,810.00
Pervious Pavers	222	SF	\$ 120.00	\$ 26,640.00	\$ 65,820.00
PVC Underdrain 6-inch Diameter Pipe	150	LF	\$ 13.00	\$ 1,950.00	\$ 67,770.00
30 MIL geotextile	114	SY	\$ 15.00	\$ 1,710.00	\$ 69,480.00
Silt Fence	250	LF	\$ 5.00	\$ 1,250.00	\$ 70,730.00
			<b>TOTAL</b>	<b>\$ 70,730.00</b>	

<b>Rain Garden -Cost Estimate</b>				
<i>Bid Item</i>	<i>Quantity</i>	<i>Units</i>	<i>Cost</i>	<i>Total</i>
<i>Mobilization</i>	<i>1</i>	<i>LS</i>	<i>\$1,000.00</i>	<i>\$ 1,000.00</i>
<i>Stakeout</i>	<i>1</i>	<i>LS</i>	<i>\$500.00</i>	<i>\$ 500.00</i>
<i>Silt Fence</i>	<i>100</i>	<i>LF</i>	<i>\$2.00</i>	<i>\$ 200.00</i>
<i>MOT</i>	<i>1</i>	<i>LS</i>	<i>\$1,000.00</i>	<i>\$ 1,000.00</i>
Class I Excavation & removal	36	CY	\$110.00	\$ 3,960.00
Provide and Spread fertilizer and Organics	5	CY	\$90.00	\$ 450.00
Deep Till Organic material	5	CY	\$80.00	\$ 400.00
PVC Underdrain 6-inch Diameter Pipe	16	LF	\$ 20.00	\$ 320.00
Plant Materials	1	LS	\$5,000.00	\$ 5,000.00
Provide & Spread Mulch	5	CY	\$ 65.00	\$ 325.00
			<b>TOTAL</b>	<b>\$ 13,155.00</b>

### 3. Install Rain Garden at Bladensburg Fire Department

The CBT grant application will include the design and installation of a rain garden at the Bladensburg Fire Department location.



<b>Rain Garden -Cost Estimate</b>				
Option 1 - Pervious Pavers				
<i>Bid Item</i>	<i>Quantity</i>	<i>Units</i>	<i>Cost</i>	<i>Total</i>
MOBILIZATION	1	LS	\$1,000.00	\$1,000.00
STAKEOUT	1	LS	\$500.00	\$500.00
SILT FENCE	100	LF	\$2.00	\$200.00
MOT	1	LS	\$1,000.00	\$1,000.00
Class I Excavation & removal	112	CY	\$110.00	\$12,320.00
Provide and Spread fertilizer and Organics	14	CY	\$90.00	\$ 1,260.00
Deep Till Organic material	14	CY	\$80.00	\$1,120
Geotextiles				
Curb cuts	4	EA	\$ 300.00	\$ 1,200.00
Plant Materials	1	LS	\$7,000.00	\$7,000.00
Provide & Spread Mulch	14	CY	\$ 65.00	\$ 910.00
			<b>TOTAL</b>	<b>\$26,510.00</b>

#### 4. Professional Engineering and Design Support

The Town of Edmonston has selected Ecosite, Inc. to lead and coordinate the required engineering and landscape design elements of the grant. These include the nine (9) elements included in the cost estimate provided below.

Task Elements	QTY	UNIT COST	AMOUNT	SUM
1. Field Survey/Verification	2	\$ 1,000	\$ 2,000	\$ 2,000
2. Geotech Services	2	\$ 1,000	\$ 2,000	\$ 4,000
3. Permits (if needed)	1	\$ 2,000	\$ 2,000	\$ 6,000
4. Engineering Design	2	\$ 6,000	\$ 12,000	\$ 18,000
5. Landscape Design	1	\$ 8,000	\$ 8,000	\$ 26,000
6. BID Docs - support	1	\$ 2,000	\$ 2,000	\$ 28,000
7. Construction support	2	\$ 2,000	\$ 4,000	\$ 32,000
8. As-built plans, final report	1	\$ 3,000	\$ 3,000	\$ 35,000

This will bring the total cost of the grant application to \$ 145,195.00

#### 5. Outputs and Outcomes:

The goals of the program are defined as the following:

1. Creating opportunities to provide green solutions in the Town's Key Areas. *To promote community equity and inclusion.*
2. Replace impervious pavement in the Town of Bladensburg. *This will reduce stormwater runoff and encourage reuse of water.*
3. Creating two additional rain garden projects at Municipal sites. This will reduce stormwater runoff and encourage reuse of water.

The specific Outputs include:

- Replacing 2,000 SF of asphalt paving with permeable pavers, which is a key element in sustainable construction, significantly impacts landscaping and urban planning.
- Permeable paving allows water to pass through the soil and gravel layers. It uses unique products with grids or patterns filled with gravel or grass.
- Creation of two (2) rain gardens that will provide improved landscape appearance while providing water quality benefits.

The outcomes include:

- Improved drainage and run-off in a key area
- Improved image and modeling for other commercial sites on busy Annapolis Blvd in Bladensburg and in the other Port Towns.
- Enhanced stormwater management and solar power to improve overall resilience.
- Social equity is promoted through inclusive and communal amenities, creating spaces for all residents to enjoy.

6. **Qualifications and Experience:** The Town of Bladensburg is partnering with Ecosite, Inc.,

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on the engineering and development of this CBT grant application. Ecosite has established itself as a leader in promoting and implementing low-impact development. Ecosite has assisted other municipalities with similar projects and has extensive master planning and retrofit planning experience. Ecosite has worked and partnered with a number of the Port Towns communities, including the City of Mount Rainier and the Towns of Edmonston; Colmar Manor, Brentwood and North Brentwood. The current project lead on this is Michael Clar, P.E..

The Town has experience in providing administrative support and oversight to support this project. Recently, the Town hired a new Town Administrator, who will lead the project and manage Town staff to assist in coordinating partners, town staff (Communications and finance), and overall Town reporting to the Trust. The Town has a proven track record of delivering timely grant projects efficiently and culturally competently.

7. **Contractors:** The contractors for the project will be selected based on an open and competitive bid process. The design team will prepare the appropriate bid documents, and the Town will advertise the project. Every effort will be made to enable local contractors to participate in the process.