The Clean Water Partnership Bladensburg Flood Risk Reduction Study Update

Presented to the Town of Bladensburg
November 18, 2024

Project Team

Prince George's County
Department of Public Works & Transportation

Program Manager

Site Design & Permitting

Program & Construction Management

Communication and Community Outreach Teams

AGENDA

I. Introduction of Project Teams

II. Program Background and Overview

III. Why is Green Stormwater Infrastructure (GSI) important?

IV. Communication and Community Engagement

V. Project Background and Overview

   a. Existing Conditions

   b. Recommended Strategies

   c. Next Steps

VI. Questions for the team

The Clean Water Partnership is a community-based public private partnership dedicated to Green Stormwater Infrastructure and local economic development.

The Clean Water Partnership is the First P3 stormwater infrastructure program in the country.

In 2015, Prince George's County entered a community-based, public-private partnership (CBP3) with CIS called The Clean Water Partnership (CWP).

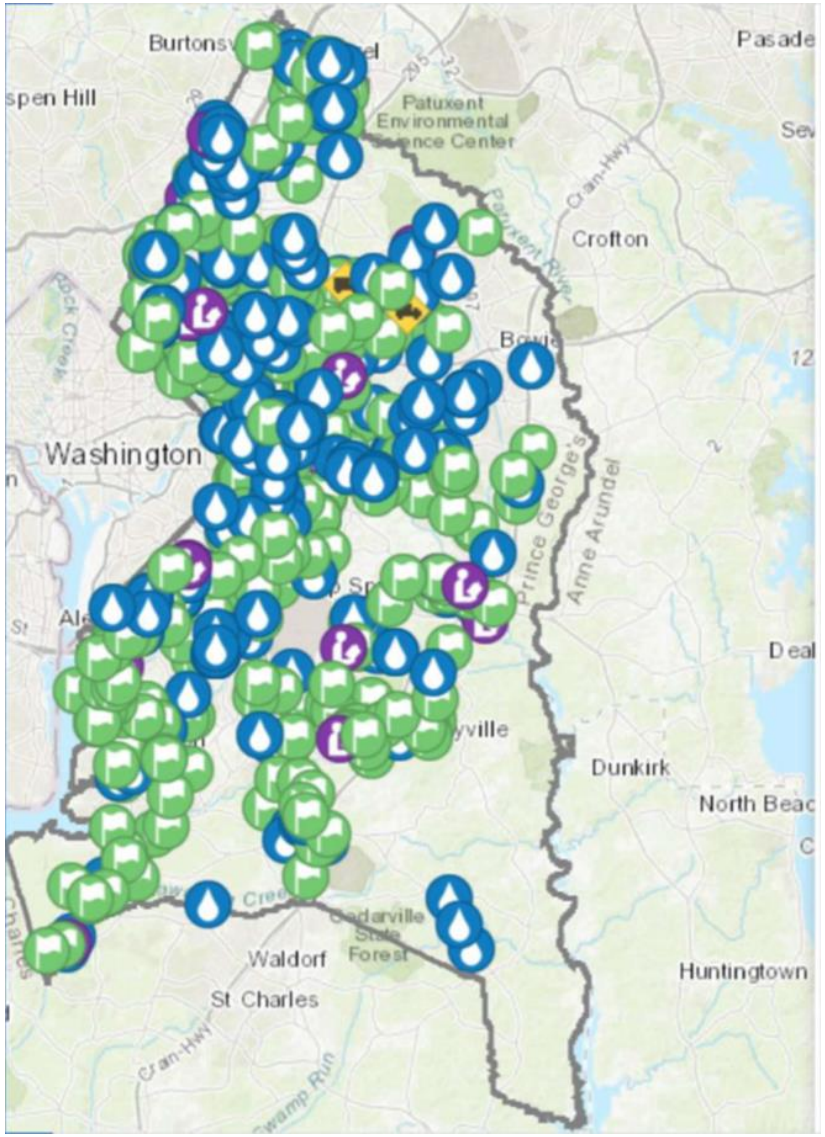
The partnership was designed to meet US Environmental Protection Agency (EPA) Clean Water regulatory requirements, benefit local businesses, schools, churches and communities and improve the stormwater infrastructure and is committed to positively impacting the local economy through "local" targeted disadvantaged subcontractor development and utilization.

Program Overview

A 30-year partnership between Prince George's County and Corvias Infrastructure Solutions to identify, design, build, and maintain stormwater assets.

Intentionally developed to provide multiple, overlaying benefits (socioeconomic, environmental, implementation efficiency, community uplift, compliance surety)

- $229M – 170 Completed Projects – 4,500 Acre Credits
- $173M In Local, SWMBE & Veteran Owned Business
- 75% Economic Inclusion
- 51% Local Resident Workforce Hours



Why is **Green Stormwater Infrastructure** (GSI) important?

- Green Stormwater Infrastructure filters and absorbs stormwater where it falls. GSI uses measures such as plants, soil mixtures, permeable pavement, etc. to store, and filter stormwater reducing flows to sewers and waterways.
- CIS delivers community-based partnerships (CBP) that deliver GSI, engaging residents, increasing green spaces, and supporting the natural habitat in underserved communities.
- CIS CBPs build and improve stormwater infrastructure, create quality local jobs, maximize local and MBE inclusion, and transfer implementation risk away from local government.

PRINCE GEORGE'S COUNTY CIS
CLEAN WATER
PARTNERSHIP

Communication and Community Engagement

PRINCE GEORGE'S COUNTY DCIS
CLEAN WATER PARTNERSHIP

Community Engagement and Enrichment

Bladensburg Community Engagement

Project Overview/Background

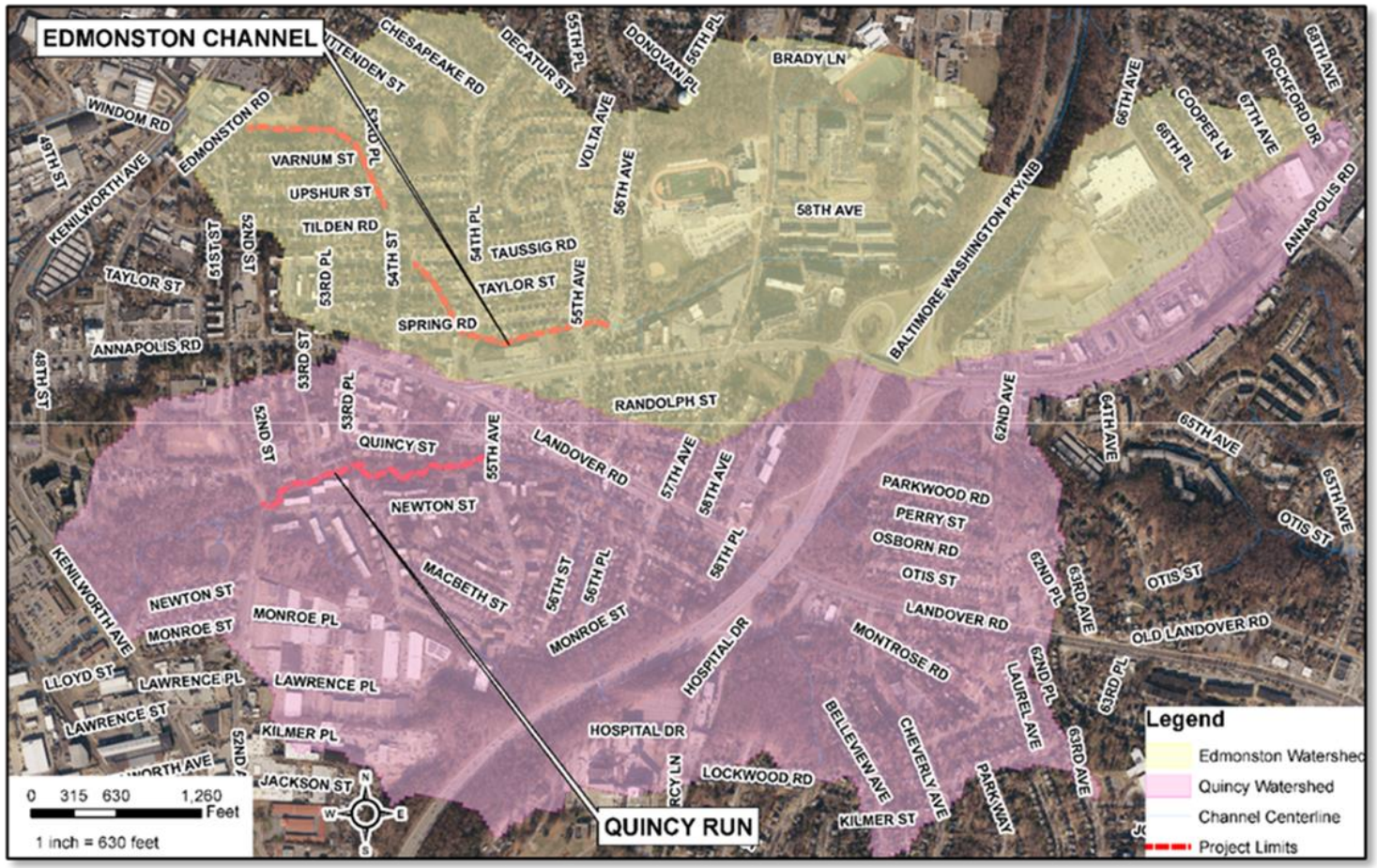
Project Overview – Edmonston Channel & Quincy Run

Alternatives Evaluation

- Data Collection
- Identify Flooded Areas/Structures
- Identify Potential Solutions to Reduce Risk
- Select Suite of Solutions

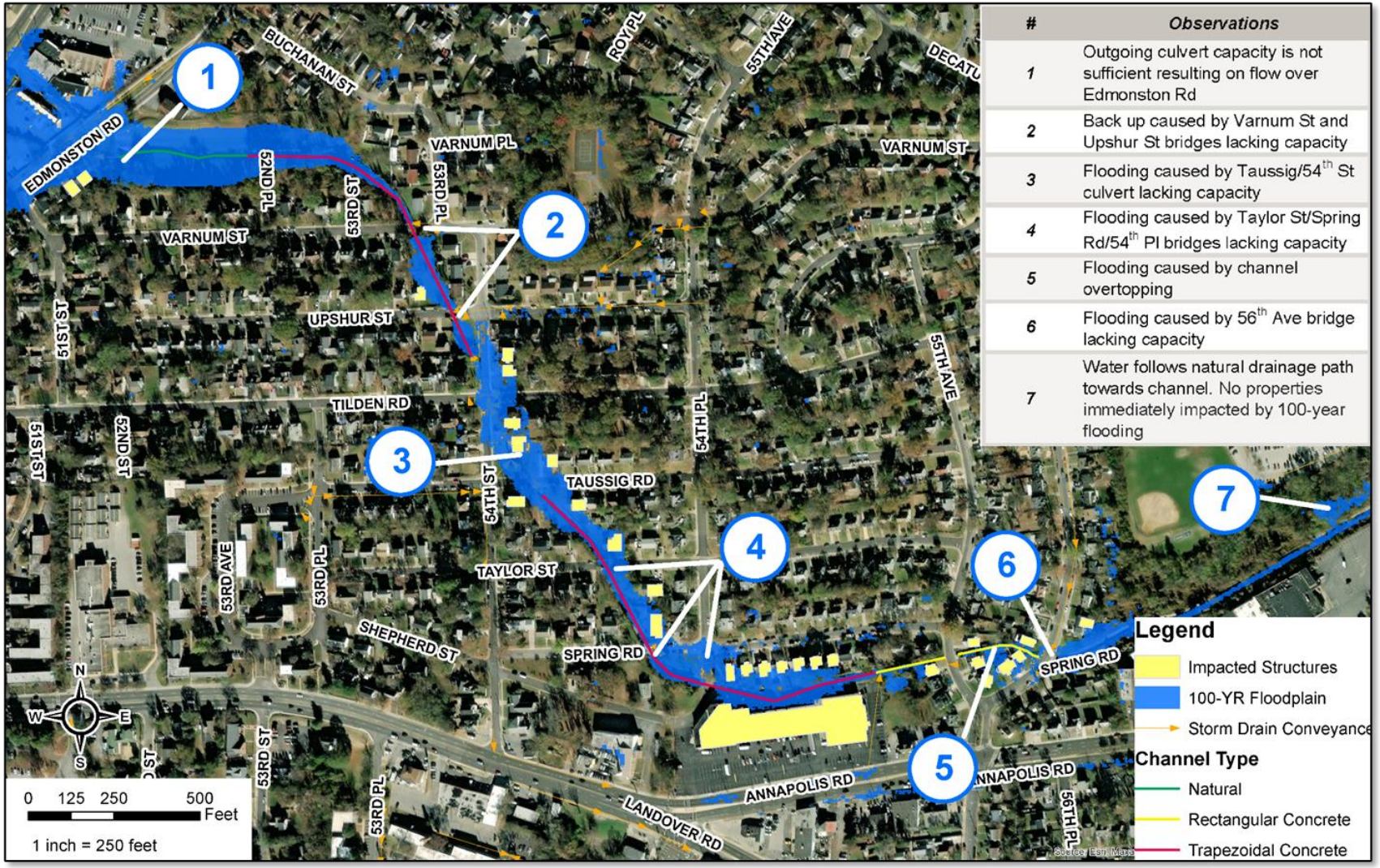
Future Tasks:

- Preliminary Design
- Final Design and Permitting
- Construction of Selected Solutions



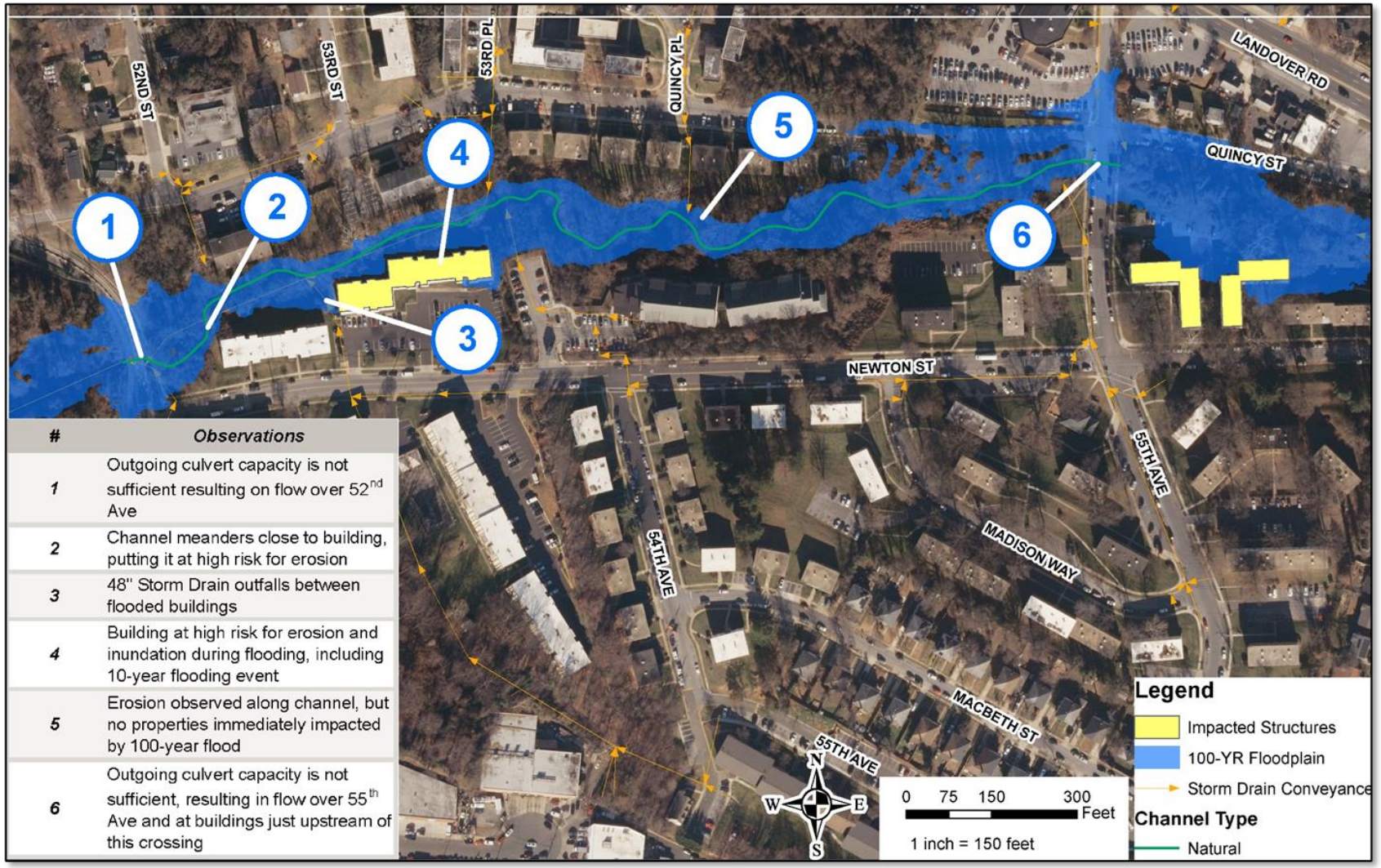
EXISTING CONDITIONS

Existing Conditions– Edmonston Channel



#	Observations
1	Outgoing culvert capacity is not sufficient resulting on flow over Edmonston Rd
2	Back up caused by Varnum St and Upshur St bridges lacking capacity
3	Flooding caused by Taussig/54th St culvert lacking capacity
4	Flooding caused by Taylor St/Spring Rd/54th Pl bridges lacking capacity
5	Flooding caused by channel overtopping
6	Flooding caused by 56th Ave bridge lacking capacity
7	Water follows natural drainage path towards channel. No properties immediately impacted by 100-year flooding

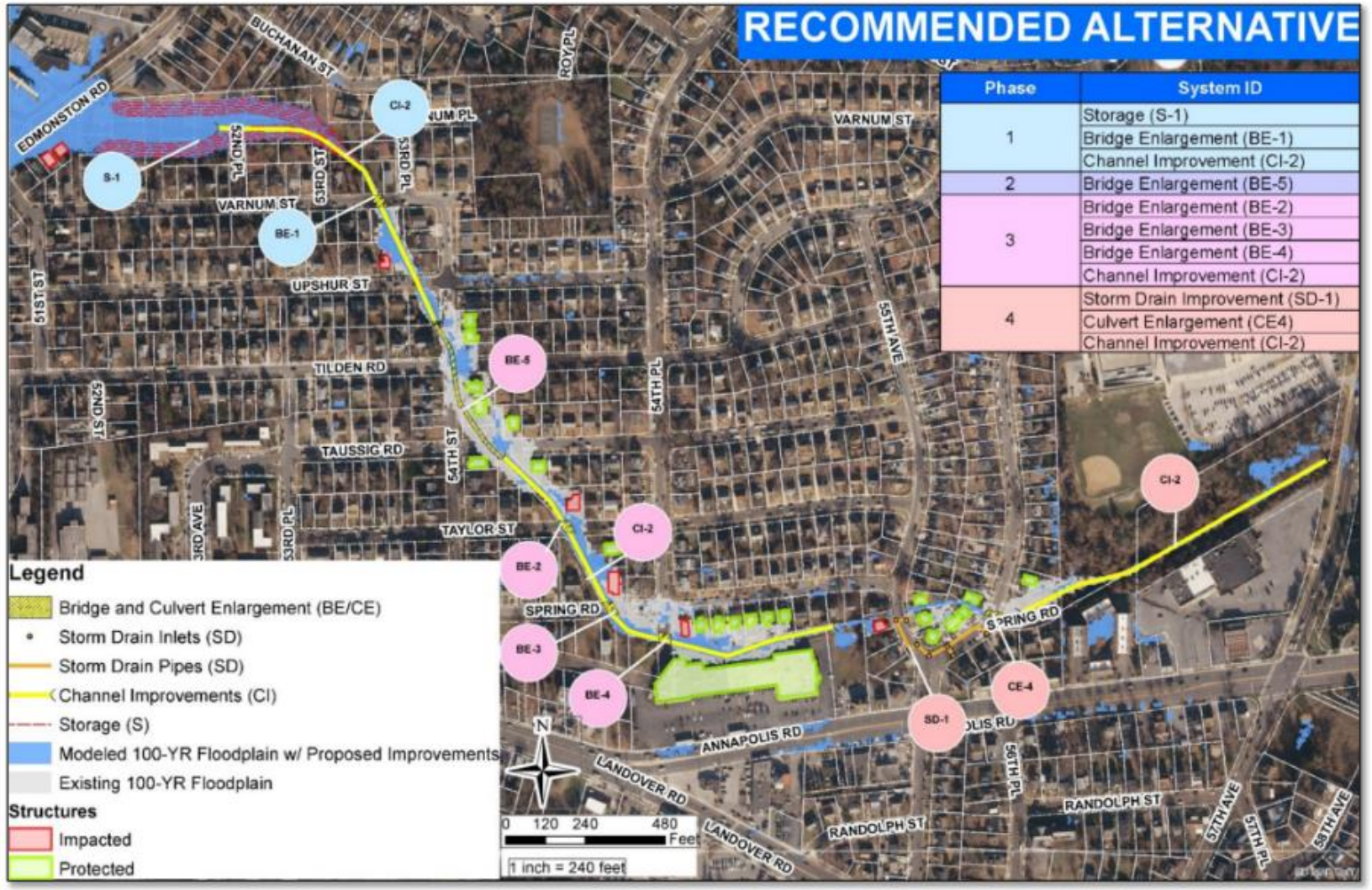
Existing Conditions– Quincy Run



#	Observations
1	Outgoing culvert capacity is not sufficient resulting on flow over 52nd Ave
2	Channel meanders close to building, putting it at high risk for erosion
3	48" Storm Drain outfalls between flooded buildings
4	Building at high risk for erosion and inundation during flooding, including 10-year flooding event
5	Erosion observed along channel, but no properties immediately impacted by 100-year flood
6	Outgoing culvert capacity is not sufficient, resulting in flow over 55th Ave and at buildings just upstream of this crossing

RECOMMENDED STRATEGIES

Recommended Strategies– Edmonston Channel



Alternative Benefits

- Reduces flooding risk for 10 of 12 structures for the 10-yr storm event
- Reduces flooding risk for 22 of 29 structures for the 100-yr storm event
- Most improvements are within public right of way

Recommended Strategies– Quincy Run

Alternative Benefits

- Reduces flood risk for seven buildings from the 100-yr storm flood event
- Improve stream stability by addressing existing degradation issues
- Stream restoration anticipated to provide TMDL credits

NEXT STEPS

Project Schedule - Bladensburg Flood Risk Reduction Project

Flood Reduction Study Evaluation & Alternative : Complete

Preliminary Design Phase: December 2024 – July 2025

Final Design Plans (30-, 60-, 90-, 100-percent): August 2025 – January 2027

Construction: TBD

Project schedule is tentative and depends on specific solutions and funding availability.

QUESTIONS

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