



Stewart Avenue Stormwater Improvements Project

Preliminary Design – Community Meeting

*Phillips Park Community Recreation Center
February 16, 2023 6:30pm*

Agenda

- Welcome and Introductions
- Stormwater Overview
- Project Overview
- Question and Answer




Project Team

Project Owner – The Pittsburgh Water and Sewer Authority (PWSA) and the City of Pittsburgh Department of Mobility and Infrastructure (DOMI)

- PWSA Project Manager: Maria Natoli
- PWSA Construction Communications Project Manager: Mora McLaughlin
- DOMI Project Manager: Michael Panzitta

Project Designer – AKRF, Inc.

- Project Engineer: Peyton Wells
 - Project Engineer: Jason Borne
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Stormwater Overview


*Pittsburgh has a stormwater
management problem*



Our system was not built for this volume of stormwater

- We have more pavement and hard surfaces than we did 100 years ago
- We have more rain, and localized severe storms, than the system is built to handle





Too much stormwater + sewer water = pollution in our rivers


It doesn't take much to overflow the system – it can happen with just an inch of rainfall or less.





PWSA is stepping up

To tackle our stormwater challenges, PWSA is building an innovative stormwater management system, designed to absorb or redirect as much rainwater as possible *before* it causes flooding and/or enters our overburdened sewer system and waterways.





Stewart Avenue Project Overview

Project Background

History: The sewershed including and surrounding Stewart Avenue has historically experienced flooding from stormwater runoff and lack of stormwater infrastructure.

Location: MH-89 sewershed, which drains to Saw Mill Run and then the Ohio River. Saw Mill Run is one of the most polluted waterways in the region due partly to excess and untreated stormwater flows.

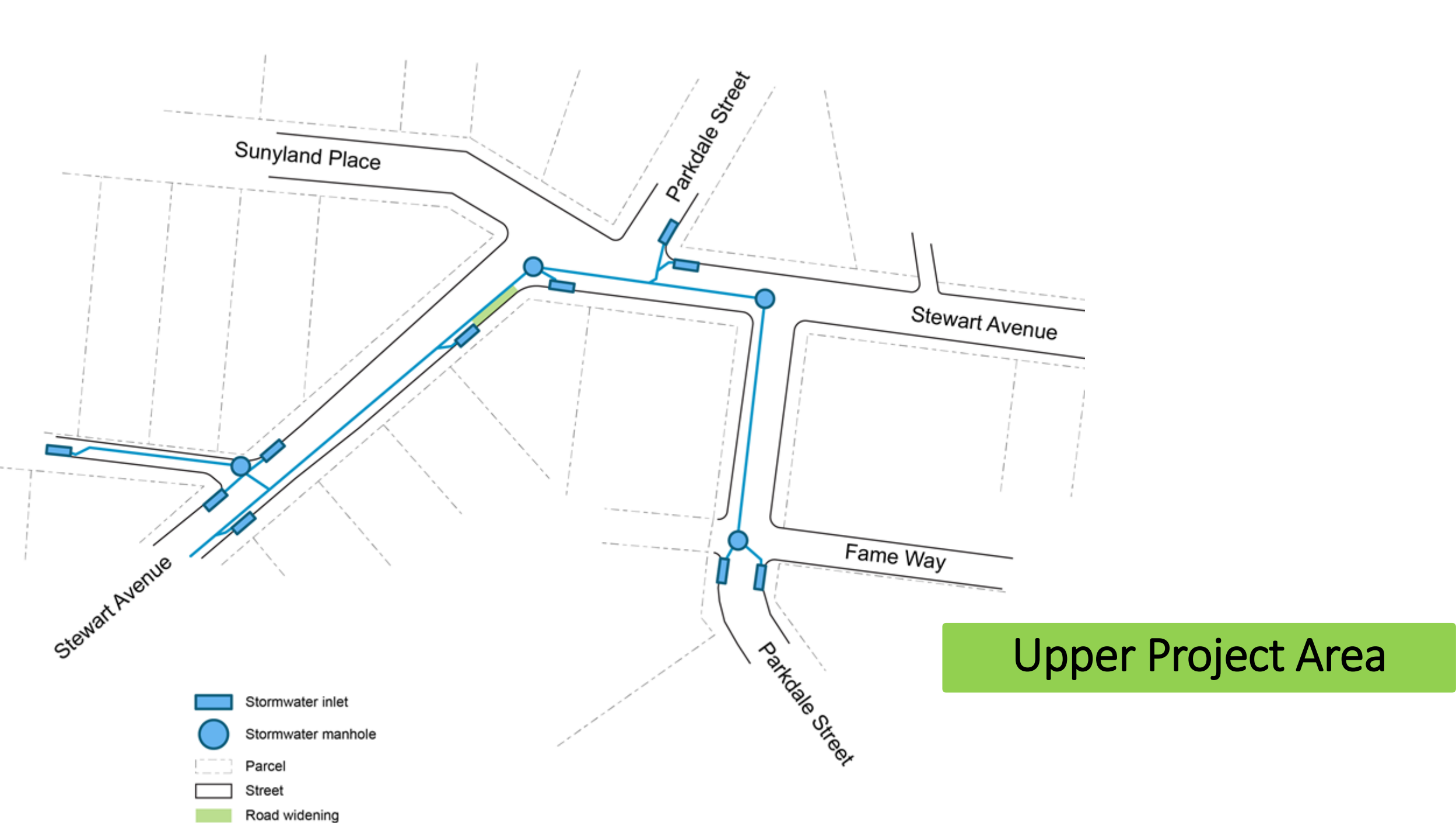
Project Goals

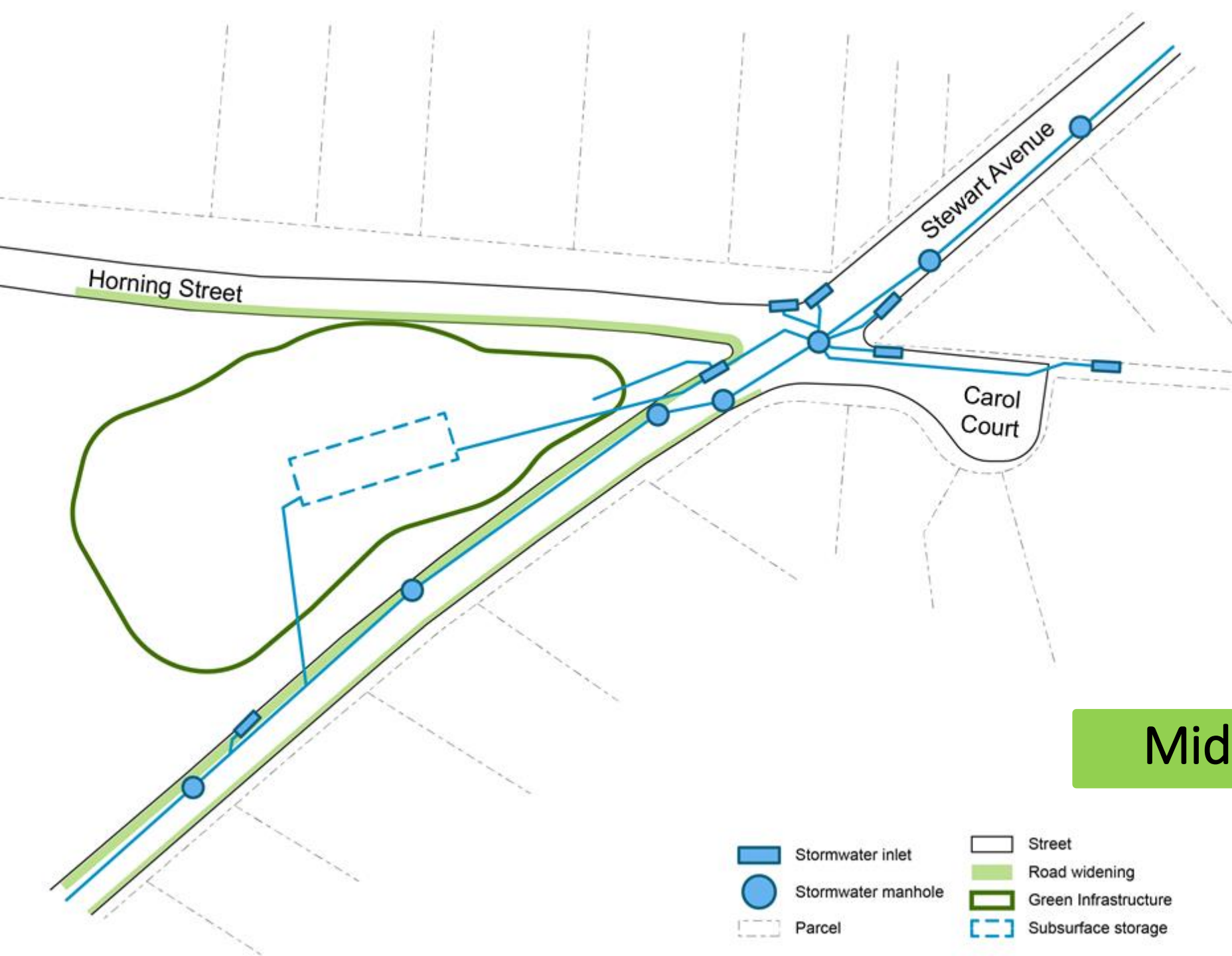
- Reduce overland flooding within the project area including properties along Stewart Avenue and Carol Circle as well as roadway flooding
- Reduce peak flows and achieve downstream flood reduction benefits via stormwater best management practices (BMPs)
- Design the proposed infrastructure with long-term maintenance considerations at the forefront
- Manage runoff from 8.07 acres of impervious surfaces that drain to Stewart Avenue, and therefore reduce localized flooding and pollutant levels in Saw Mill Run

Preliminary Design

- Approximately 3,000 linear feet (LF) of new storm sewer
- Roadway drainage improvements
- Green infrastructure (GI) on vacant property

SPEED
LIMIT
25





Middle Project Area

- | | |
|--|--|
|  Stormwater inlet |  Street |
|  Stormwater manhole |  Road widening |
|  Parcel |  Green Infrastructure |
| |  Subsurface storage |



Green Infrastructure (GI)

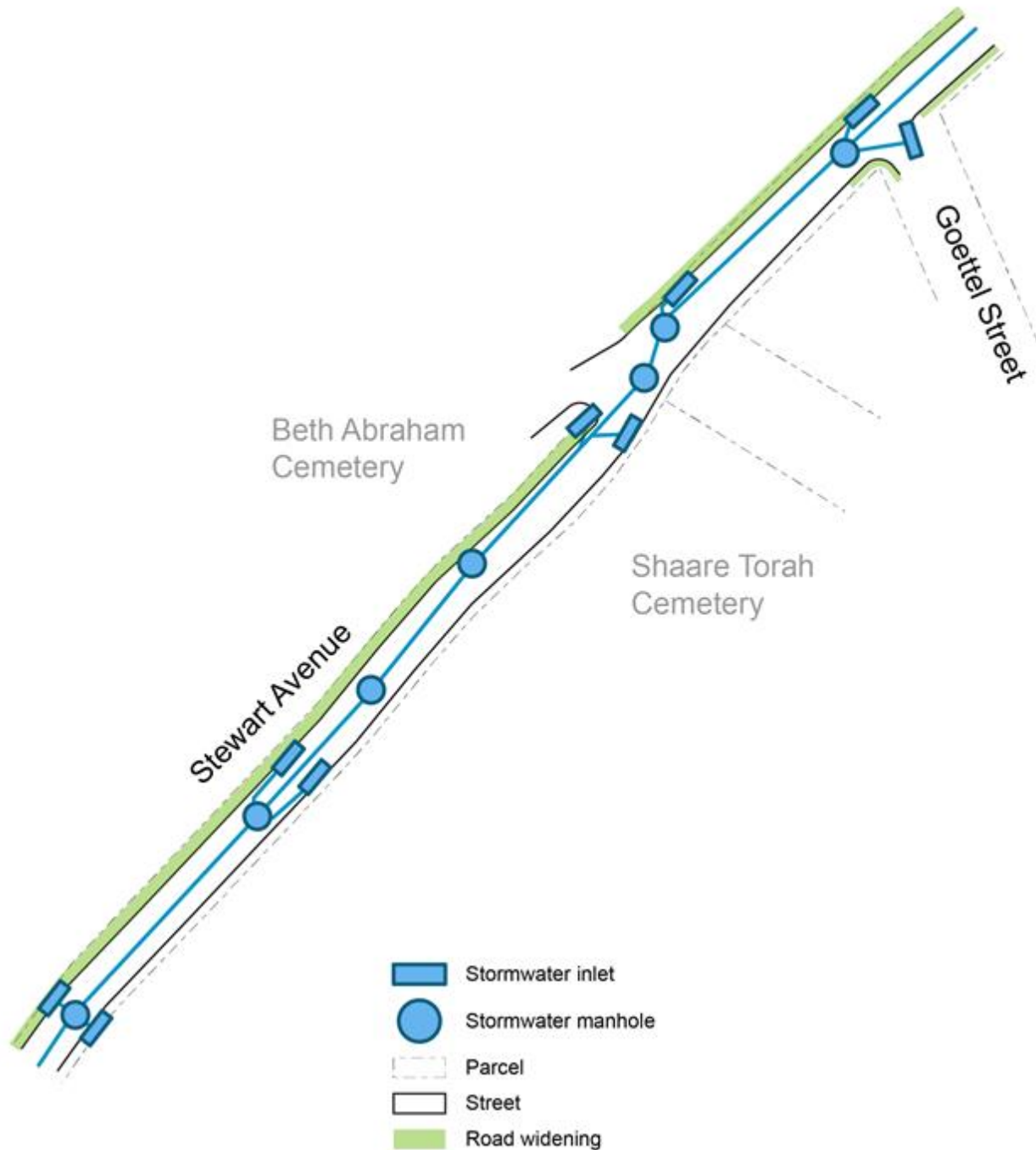
- With St. George Cemetery's permission, install a rain garden within the cemetery owned vacant lot at 0 Horning Street (138-H-105), located at the intersection of Stewart Avenue and Horning Street
 - Subsurface stormwater detention (storage) beneath rain garden
 - Landscaping throughout, maintained by PWSA's green infrastructure maintenance contractor

Example PWSA GI System: Volunteers Field Rain Garden

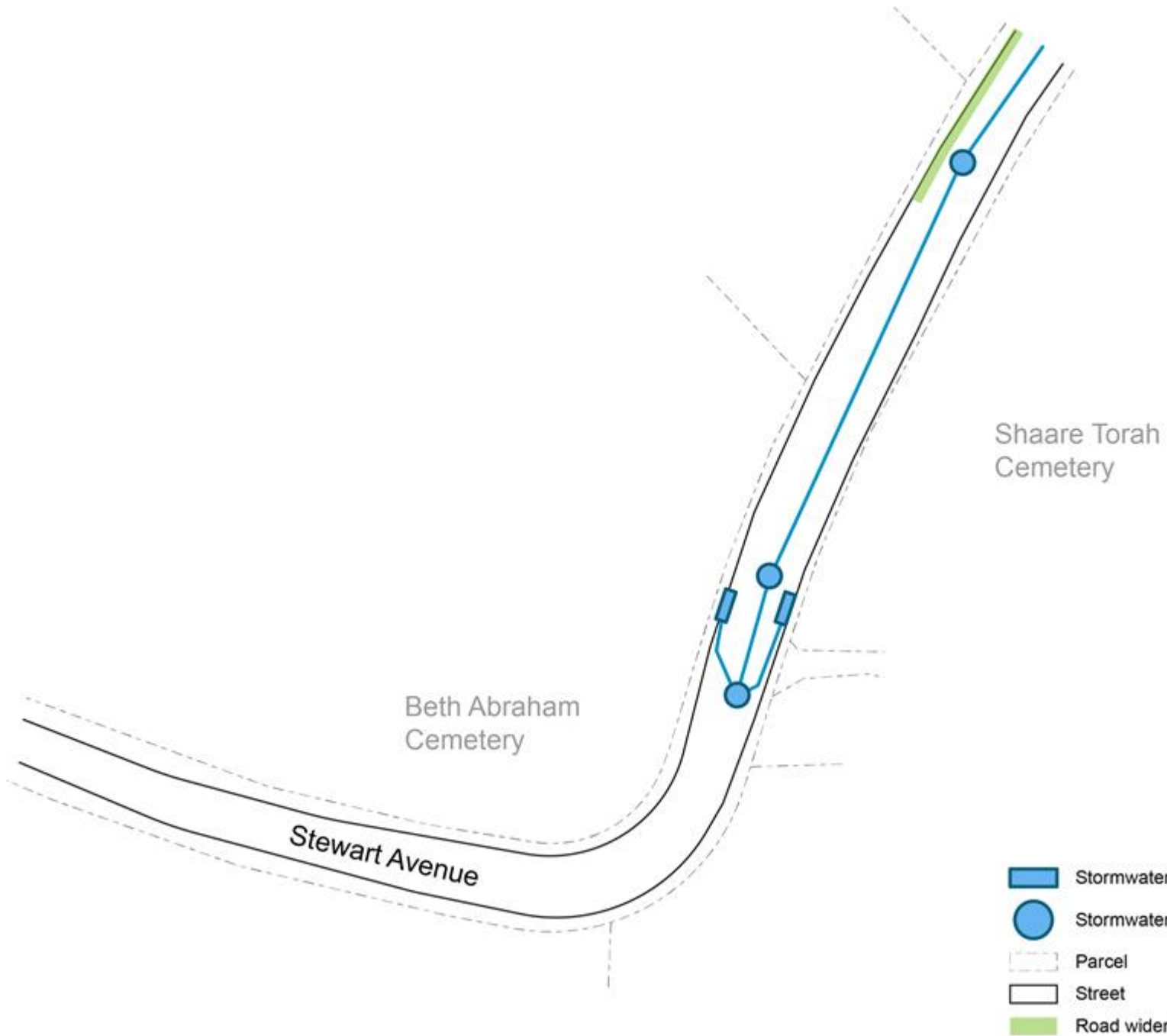


Example PWSA GI System: Lawn and Ophelia Rain Garden





Lower Project Area



Lower Project Area

Project Schedule

60% design
milestone:
May 2023

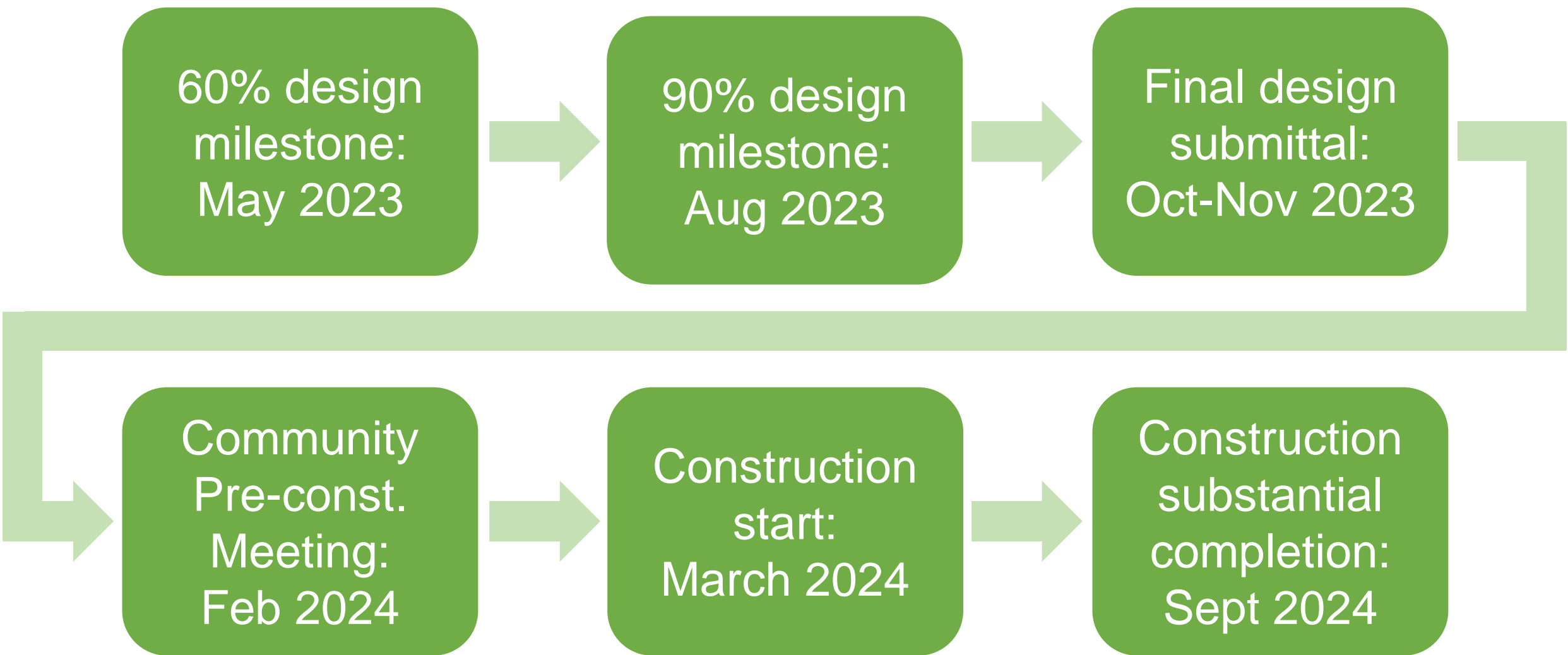
90% design
milestone:
Aug 2023

Final design
submittal:
Oct-Nov 2023

Community
Pre-const.
Meeting:
Feb 2024

Construction
start:
March 2024

Construction
substantial
completion:
Sept 2024



Thank you

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