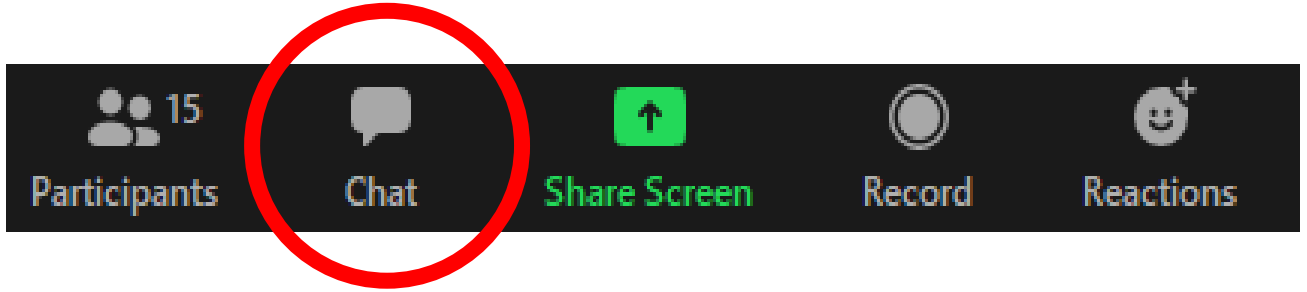
Woods Run Stormwater Project

Phase 1 & 2 Project Updates

Community Meeting

February 22, 2022

Zoom Overview



- **During Presentation**
  - Participants will be muted
  - To ask a question use the chat box below
- **How to Use Chat in Zoom**
  - Click on the chat icon that looks like a cartoon bubble at the bottom of screen
  - Type question in dialogue box then press enter to send
  - All attendees will receive your question
- **When Presentation Pauses or Ends**
  - We will respond to questions individually
  - We will allow attendees to unmute microphones (press *6 on phone) to enable verbal Q&A

Agenda

- Welcome and Introductions
- Stormwater Program Overview
- Project Overview
  - Phase 1 Updates
  - Phase 2 Updates
- Question and Answer

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 enters our overburdened sewer system and mitigate flooding.

Woods Run Project Overview

2017

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- Goal was to reduce combined sewer overflows in the O-27 Sewershed
- Series of community meetings informed design

2019

Project was split into 2 parts

- Phase 1- upstream components moved to construction
- Phase 2 – stream restoration requiring permits

Sep. 2019

ALCOSAN released Clean Water Plan

- PWSA decided to put phase 2 on hold to review impacts from Clean Water Plan

Feb. 2020

Landslide occurred above Horseshoe bend

- PWSA launches investigation for cause, designs hillside remediation and bioretention mitigation and resolves landslide 2021.

Oct. 2020

PWSA met with Friends of Riverview Park

- Agreed to move Phase 2 forward – new goal is flood mitigation

Dec. 2021

Phase 2 submitted for permit review to Department of Environmental Protection

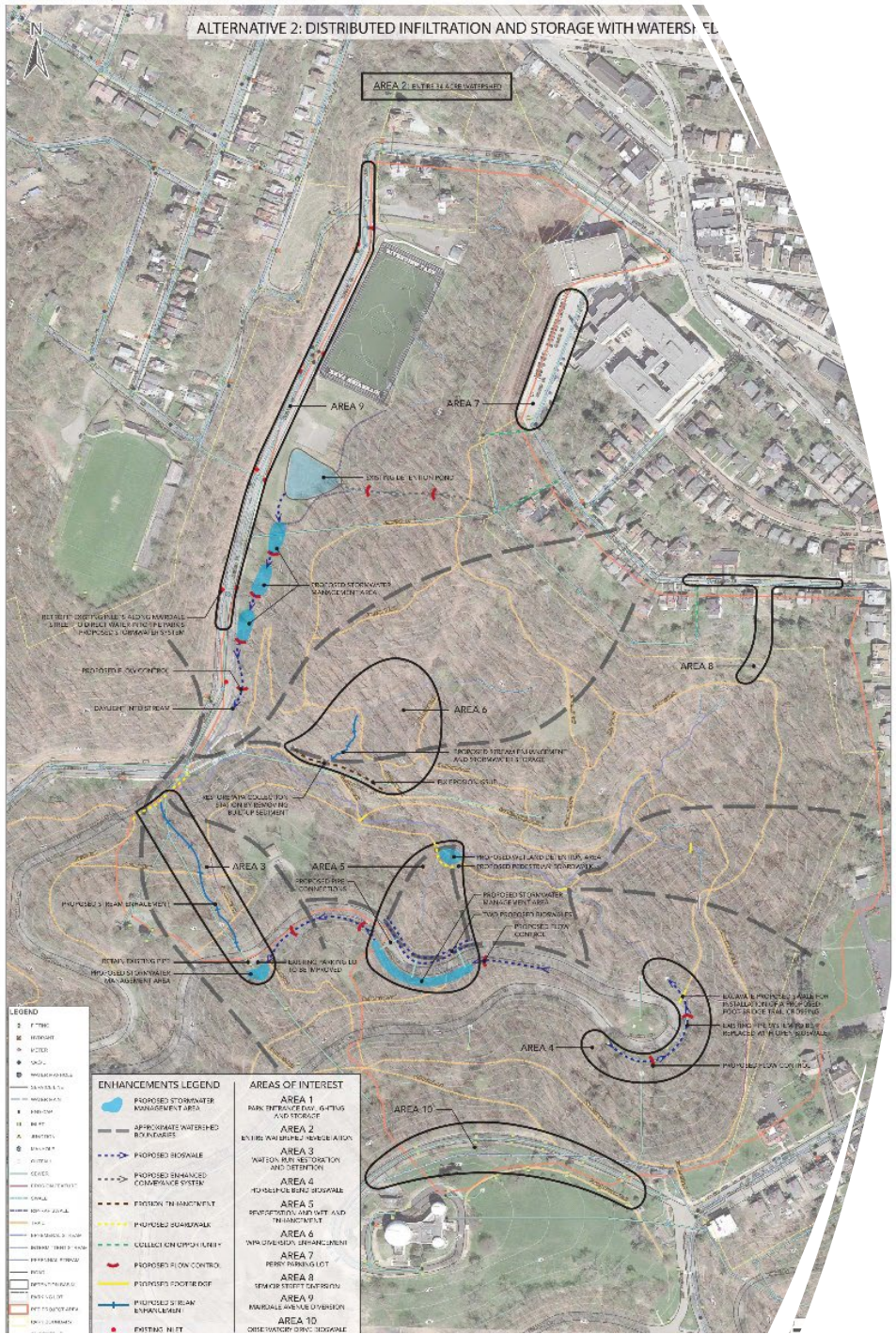
Site Assessments
Areas of road runoff

Site Assessments

Stream bank erosion and sedimentation

Based on engineering estimates the amount sediment transported upstream of the culvert in a given year is substantial.

285 tons/yr
855 cubic yards/yr
15 dump trucks per year of gravel



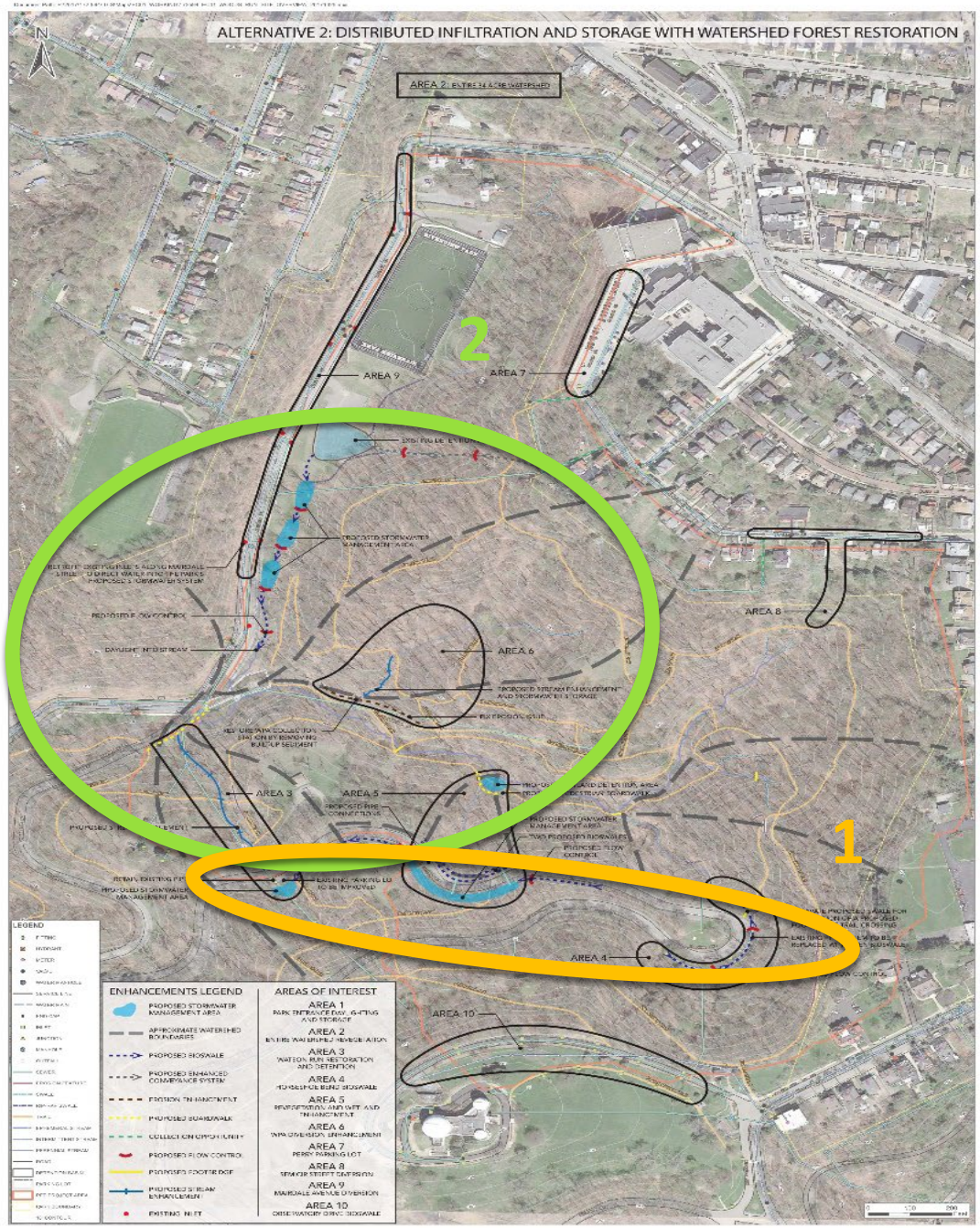
Development of Concepts April 2018 community meeting

- **Introduced Design Approaches**
  - Capture and delay runoff
  - Control impervious runoff
  - Bioretention
  - Trail runoff control/redesign
- Forest restoration
- Stream restoration

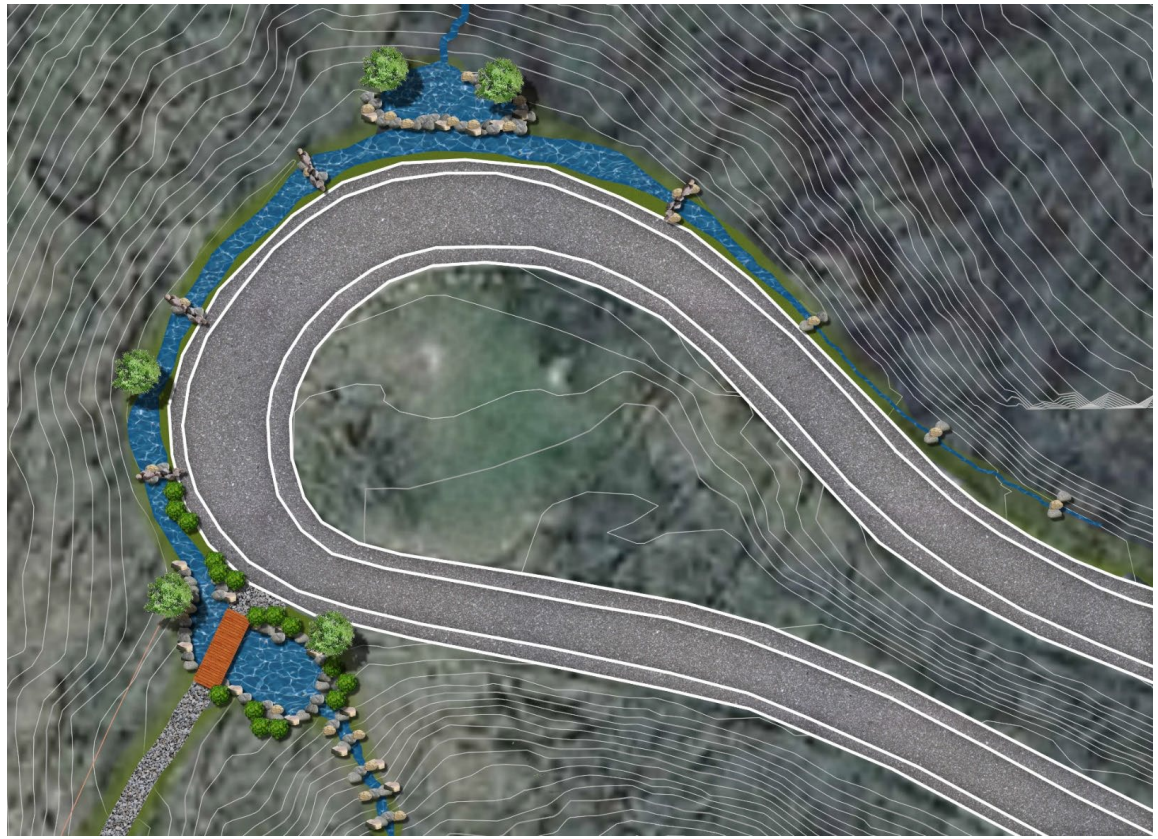
2018 Community Meeting Based on Feedback Received

Areas chosen to move forward

- Horseshoe Bend – Biorentention
- Watson Run – Stream restoration/Bioretention/Forest restoration
- Wetland Restoration (Wissahickon Trail) – Bioretention/Forest restoration
- Old Wissahickon Road – Stream/trail restoration/targeted forest restoration
- Mairdale Avenue Park Entrance Extension - Bioretention
- Mairdale Avenue Park Entrance – Stream restoration



Upstream Bioretention Control – Phase 1



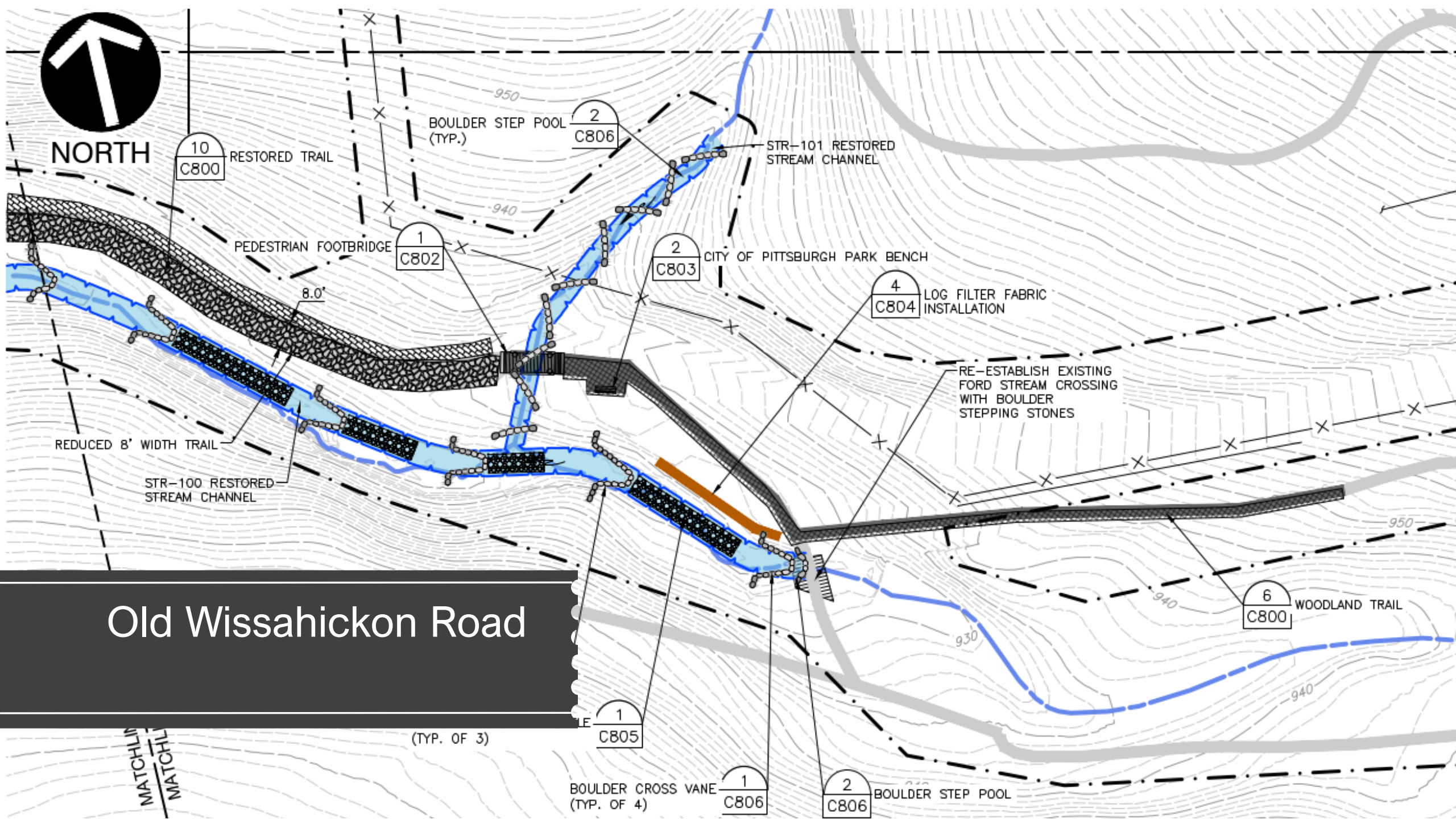
Phase 1 – Landslide Remediation

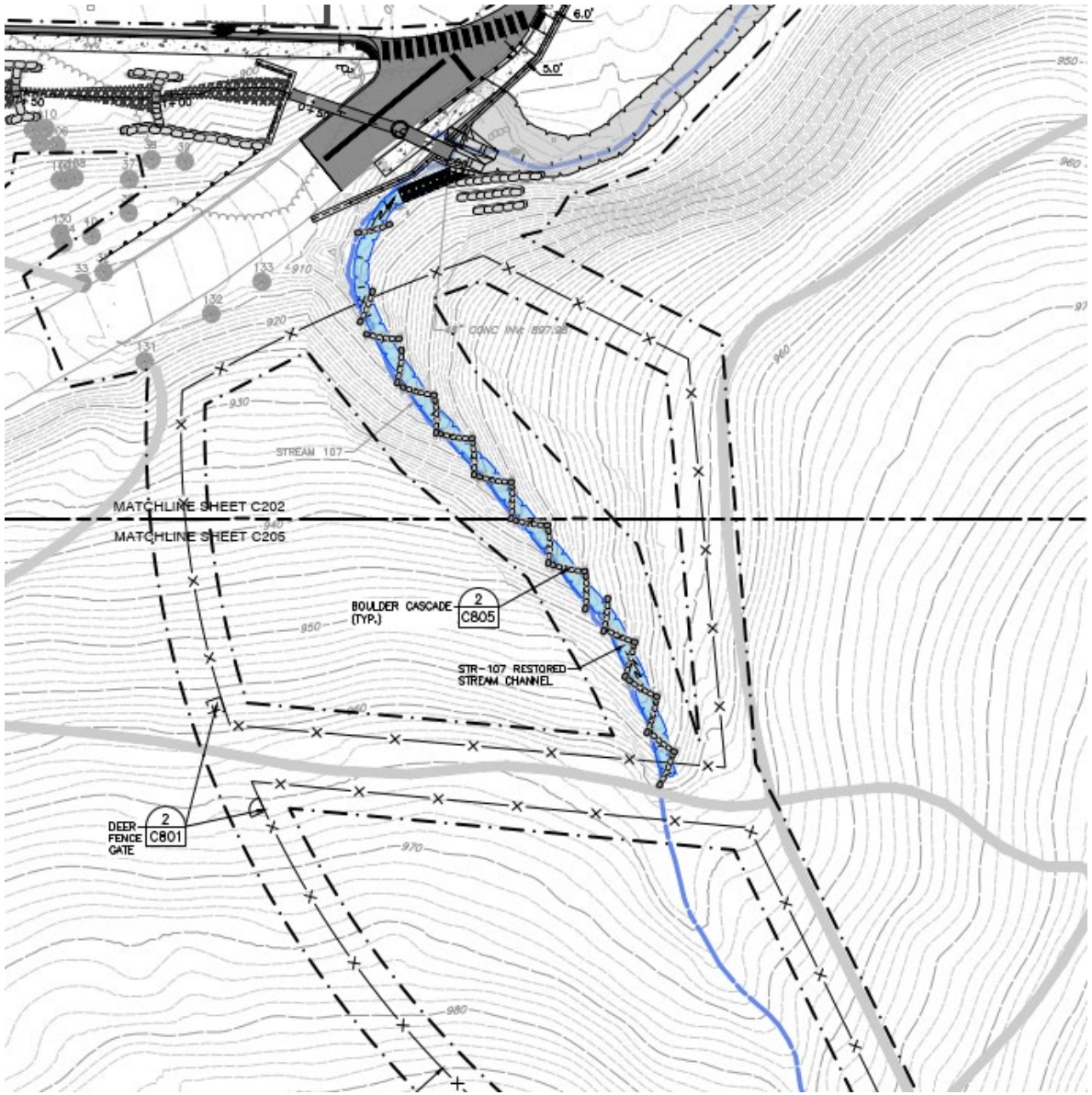
*Bioretention will be replanted Spring 2022.

Phase 2

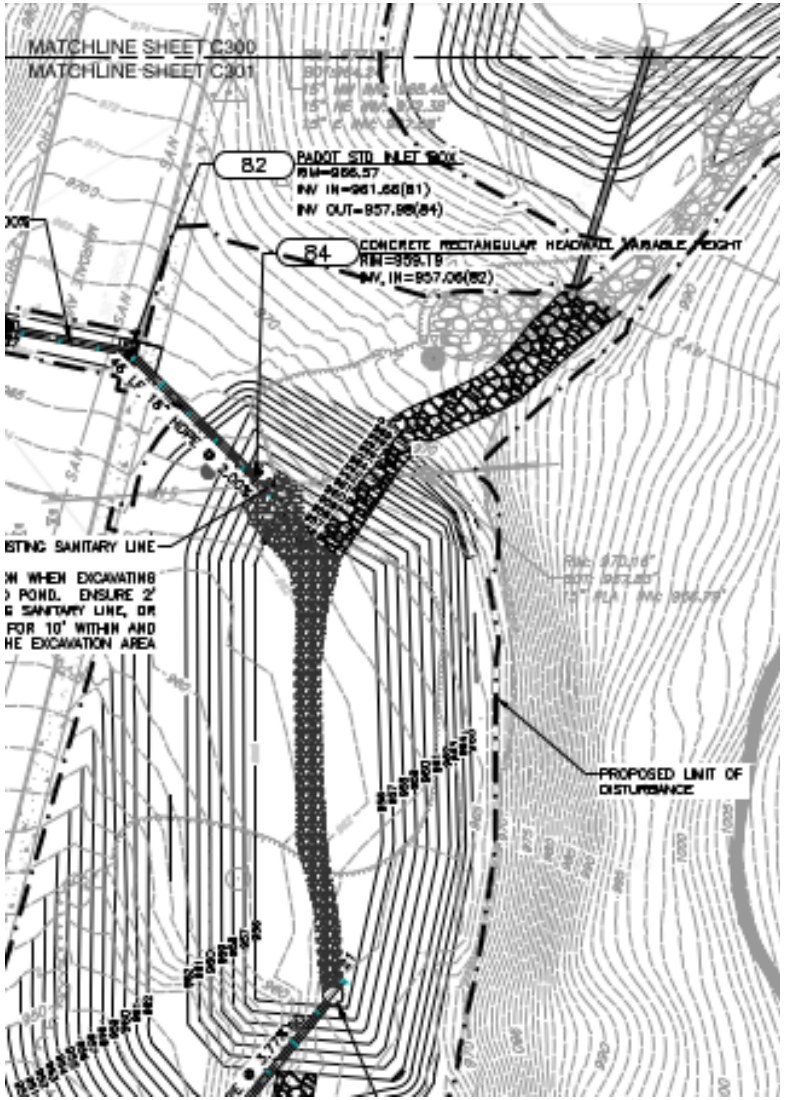
Goal – No longer a combined sewer overflow project, rather to mitigate flooding

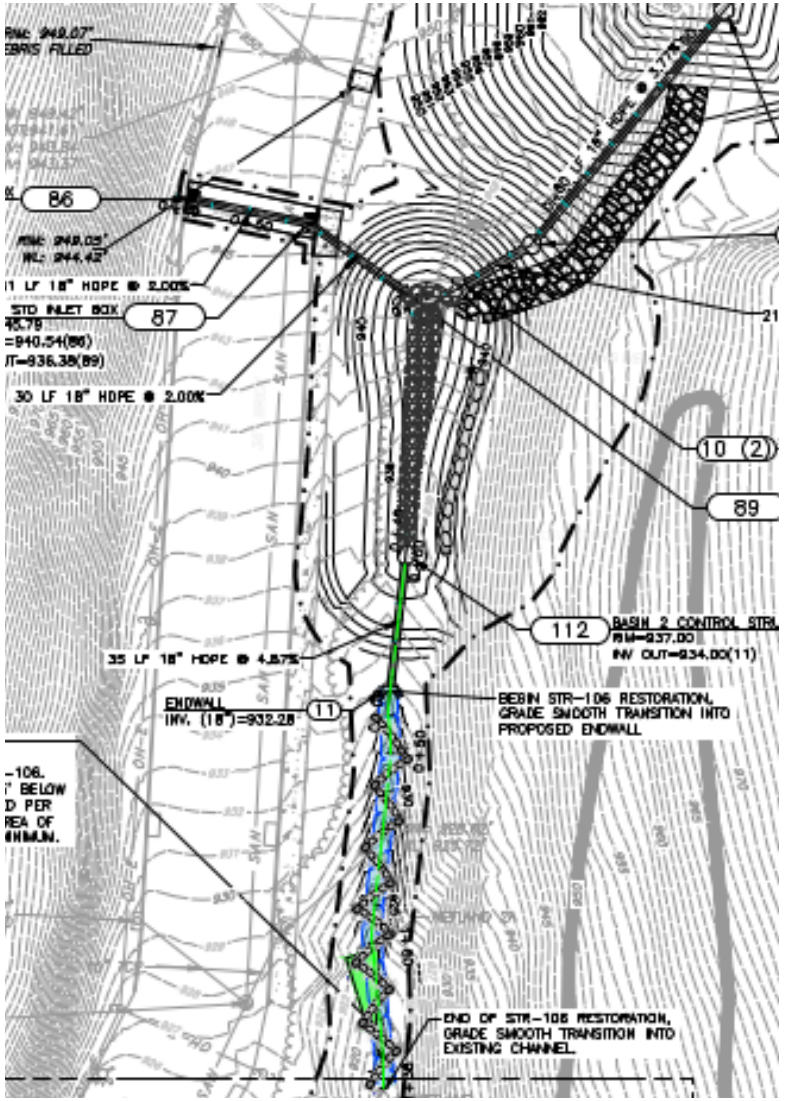
Wissahickon Trail


NORTH
10
C800
RESTORED TRAIL
BOULDER STEP POOL
(TYP.)
2
C806
STR-101 RESTORED
STREAM CHANNEL
950
940
PEDESTRIAN FOOTBRIDGE
1
C802
2
C803
CITY OF PITTSBURGH PARK BENCH
4
C804
LOG FILTER FABRIC
INSTALLATION
8.0'
RE-ESTABLISH EXISTING
FORD STREAM CROSSING
WITH BOULDER
STEPPING STONES
REDUCED 8' WIDTH TRAIL
STR-100 RESTORED
STREAM CHANNEL
950
940
930
940
6
C800
WOODLAND TRAIL
Old Wissahickon Road
(TYP. OF 3)
1
C805
BOULDER CROSS VANE
(TYP. OF 4)
1
C806
2
C806
BOULDER STEP POOL


6.0'
5.0'
STREAM 107
MATCHLINE SHEET C202
MATCHLINE SHEET C205
BOULDER CASCADE (TYP.)
2
C805
STR-107 RESTORED STREAM CHANNEL
DEER FENCE GATE
2
C801

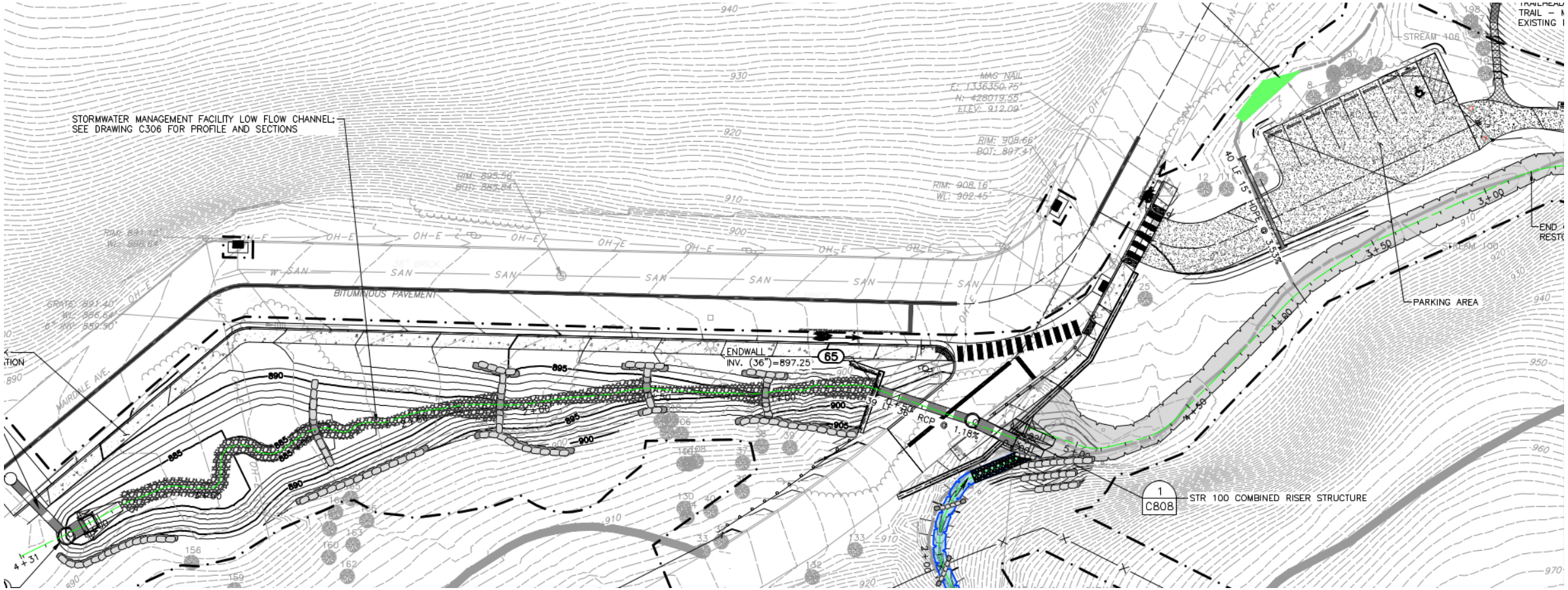
Watsons Run





Mairdale Avenue

Mairdale Avenue Entrance



Next Steps

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2023

Anticipate Construction pending permit approval

Thank You

For more information about the project, please visit www.pgh2o.com/woods-run-2.