PRINCE GEORGE'S COUNTY | CORVIAS

CLEAN WATER PARTNERSHIP

The Clean Water Partnership Cheverly Stream Restoration

Presentation to the Cheverly Mayor & Town Council Work Session

May 25, 2023

Presenters:

Kristina Bigby, CWP Outreach Coordinator

Reid Cook, RES Director of Design

Corvias

Cheverly Stream Restoration Presentation

May 25, 2023

- Agenda:
  - Program Introduction
  - Project Update
  - Next Steps
  - Q&A

Project Team

Prince George's County
Department of the Environment

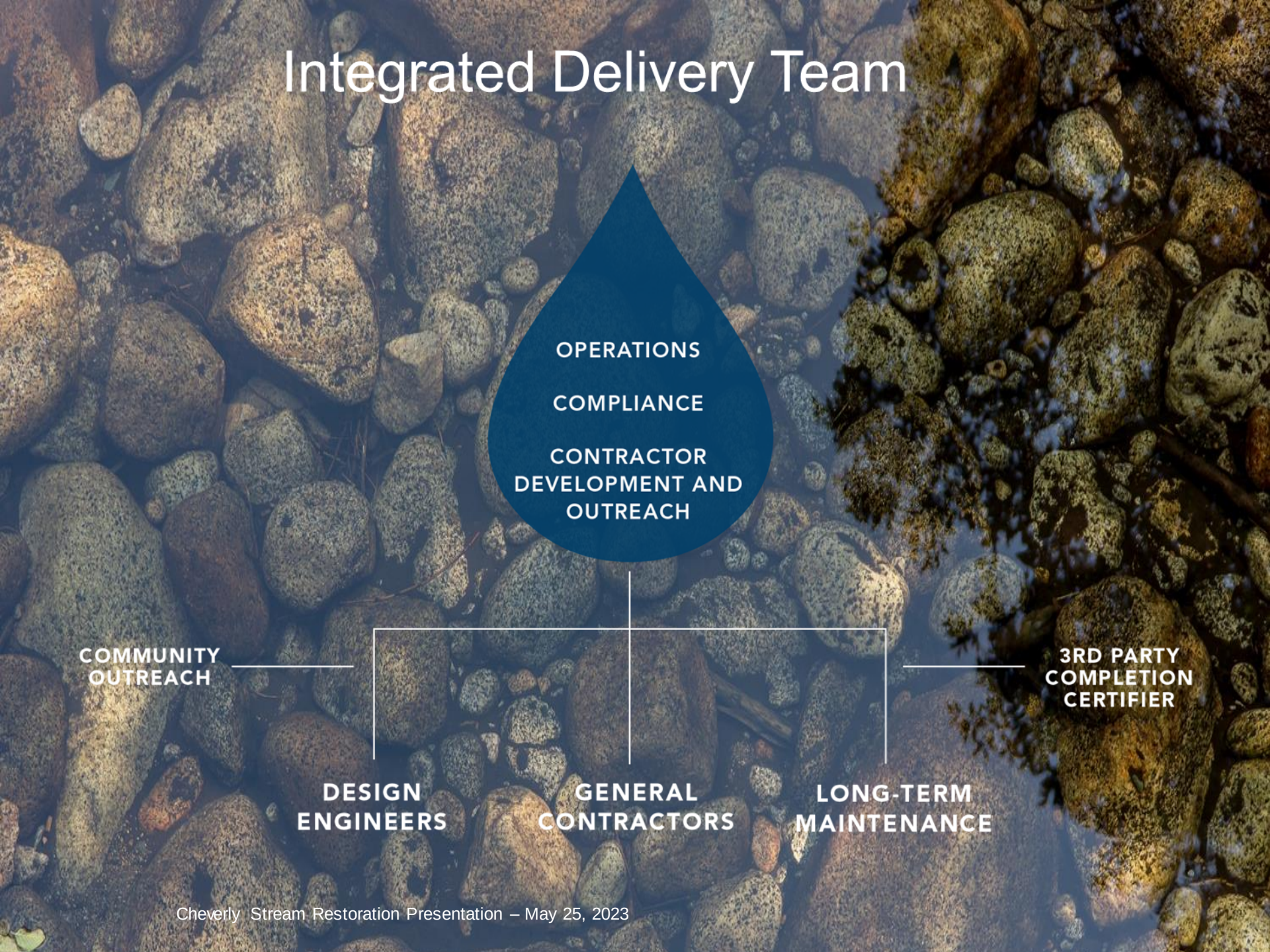
Program Manager

Site Design & Construction

Program & Construction Management

Community Outreach

Integrated Delivery Team

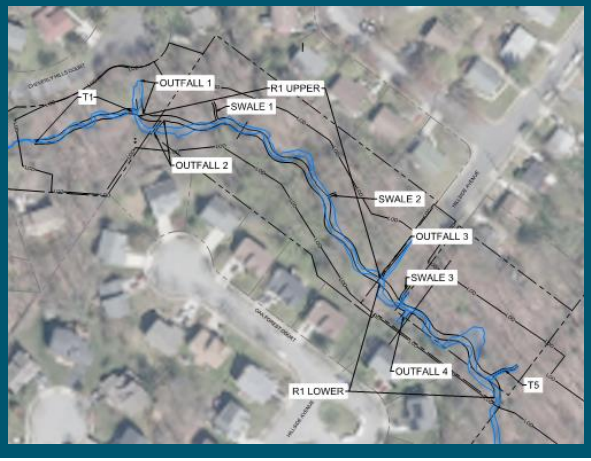


CWP Maintenance Responsibilities

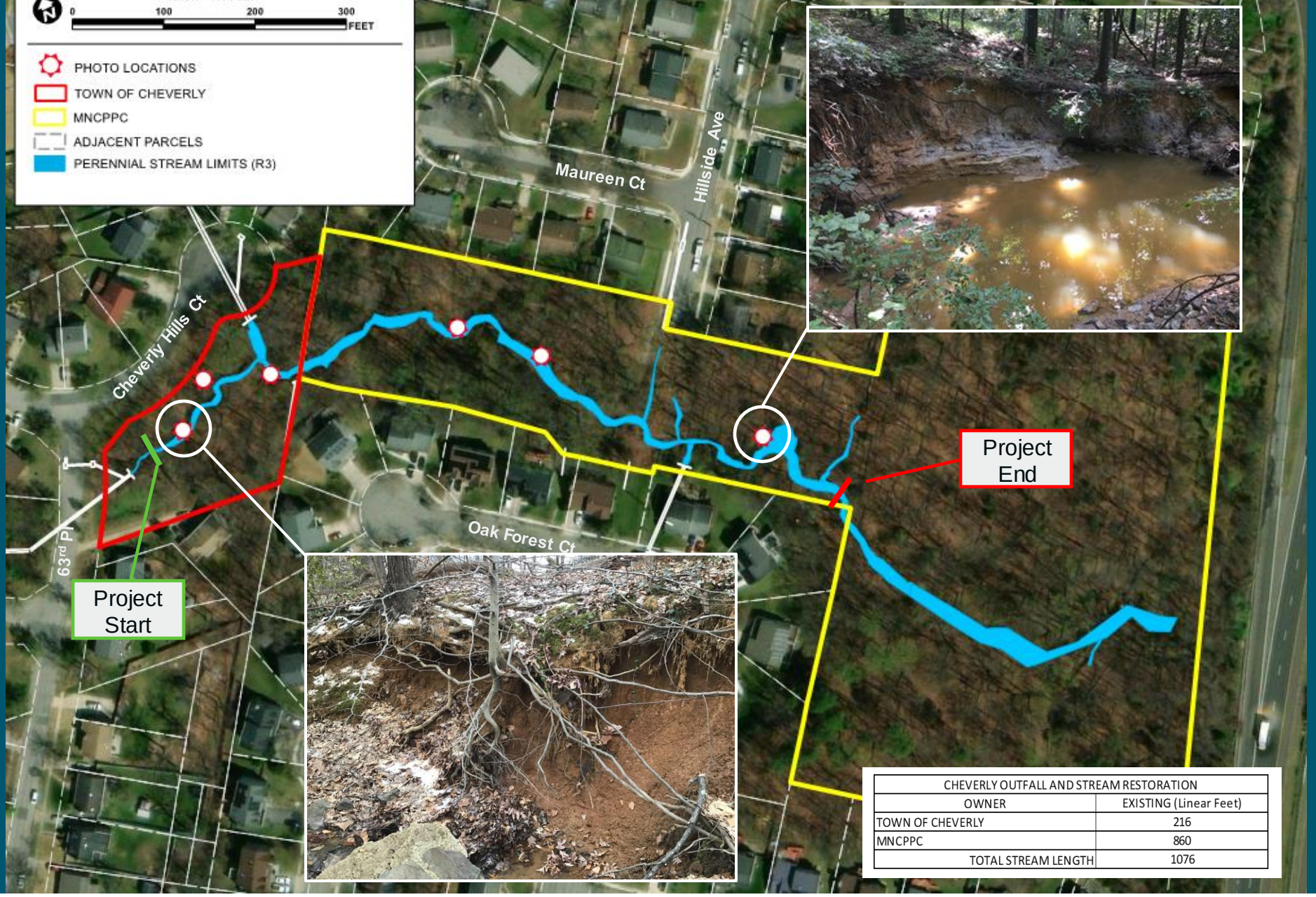
The goal of stream stabilization is to create self-sustaining systems, but maintenance may be required.

The CWP will perform inspections and maintenance – including repair/restoration of BMPs, life cycle maintenance, repair to structural integrity and more – on all projects installed under the program for 30 years.

Project Description



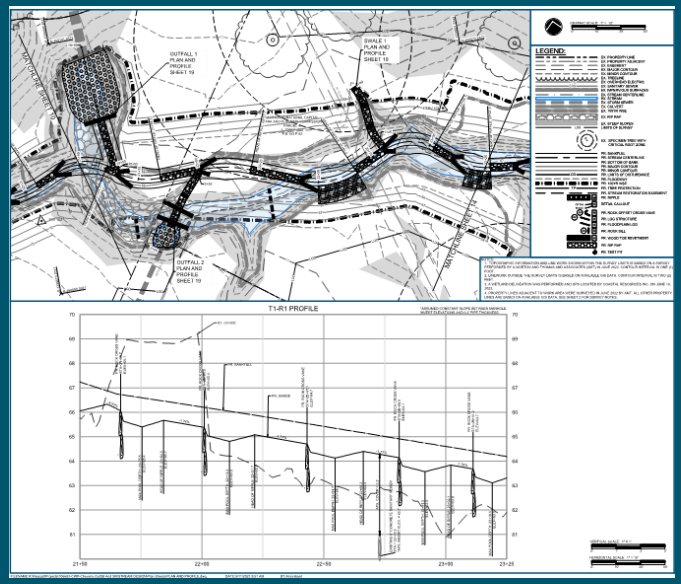
- Stream Stabilization Project near 63rd Place & Cheverly Hills Court
- Approximately 1,200 linear feet
- Eliminate Existing Stream Bank Erosion
- Expand Channel/Upland Connectivity and Floodplain Capacity
- Minimize Impacts to Forest Resources
- Invasive Species Removal and Management
- Infrastructure Protection

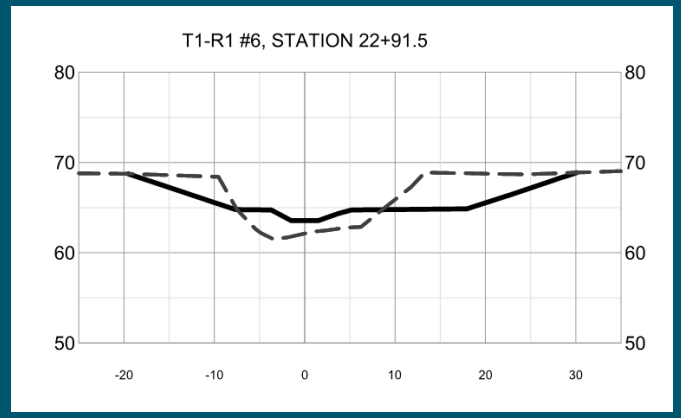


CHEVERLY OUTFALL AND STREAM RESTORATION	
OWNER	EXISTING (Linear Feet)
TOWN OF CHEVERLY	216
MNCPPC	860
TOTAL STREAM LENGTH	1076

Project Design – Main Channel

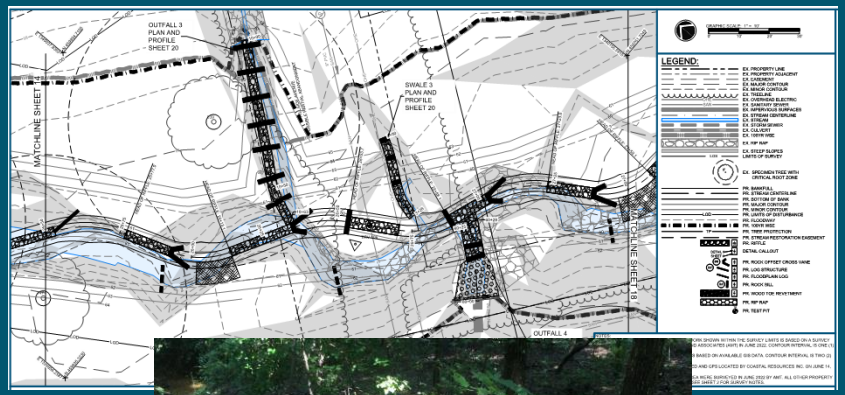
- Outfall Stabilization
- Channel Realignment
- Floodplain Connection
- Riffle and Grade Control
- Bank Stabilization
- Infrastructure Protection

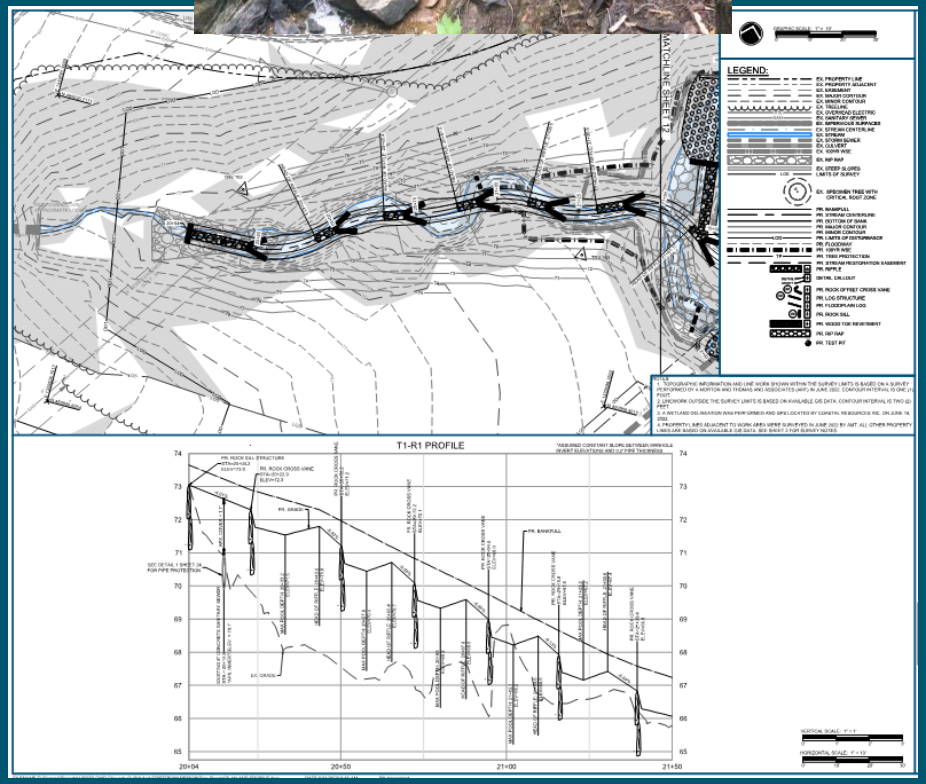




Project Design – Tributaries

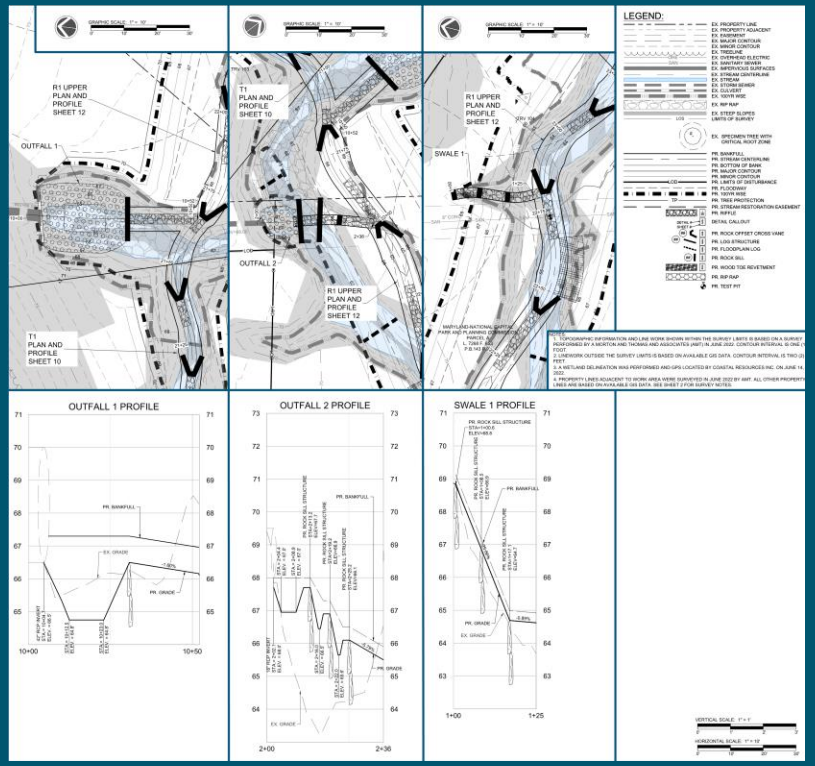
- Steep Conveyance
- Infrastructure Protection





Project Design – Outfalls

- Direct Discharge to Channel
- Plunge Pools
- Stormwater Protection
- Grade Control



Project Design

- **Minimize Impacts to Forest Resources**
  - Detailed Survey of Existing Trees
  - Design to Decrease Tree Loss

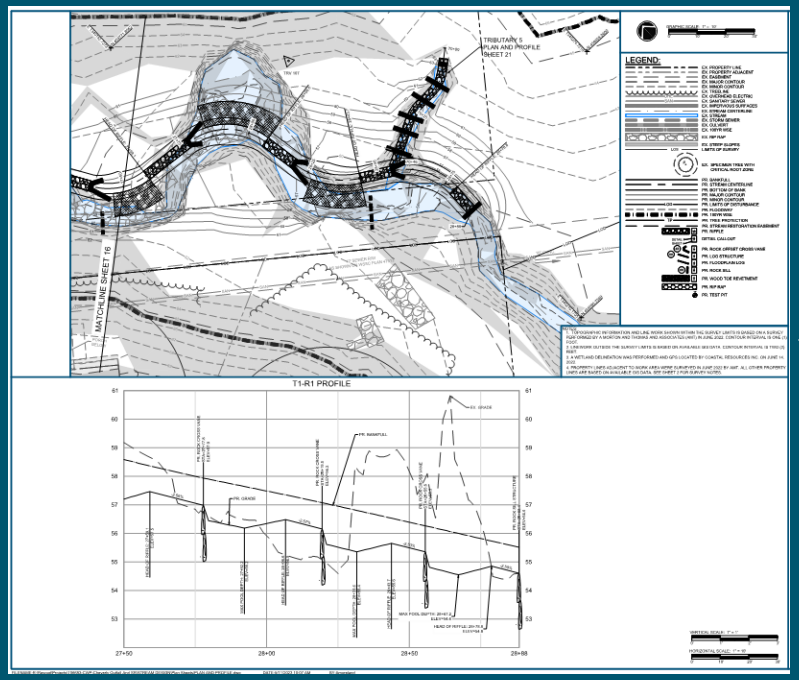


Table 1 – Specimen Trees

Tree ID	Common Name	Scientific Name	DBH (IN)	Condition	Comments
018	White oak	*Quercus alba*	38	Fair	Some vines, dead branches
020	White oak	*Quercus alba*	35	Fair	Vines, dead branches
024	White oak	*Quercus alba*	37	Poor	Many vines, leaning
128	Tuliptree	*Liriodendron tulipifera*	33	Fair	Many vines, reduced canopy
138	Northern red oak	*Quercus rubra*	34	Fair	Few dead branches, undermined
154	White oak	*Quercus alba*	33.5	Fair	Many vines in canopy.
039	Northern red oak	*Quercus rubra*	32	Fair	Many vines
147	Sweetgum	*Liquidambar styraciflua*	31.5	Fair	Vines, reduced canopy
080	Tuliptree	*Liriodendron tulipifera*	30, 23	Good	Few vines
082	White oak	*Quercus alba*	30	Good	Few vines
092	Red maple	*Acer rubrum*	31, 5, 3	Good	
164	Willow oak	*Quercus phellos*	33, 14	Good	Few broken branches
180	Red maple	*Acer rubrum*	31	Good	
182	White oak	*Quercus alba*	32	Fair	Vines, few dead branches
190	White oak	*Quercus alba*	32	Good	
205	Willow oak	*Quercus phellos*	33.5	Good	Few dead branches
209	Pin oak	*Quercus palustris*	32.5	Fair	Dieback, reduced canopy, vines
210	White oak	*Quercus alba*	30	Fair	Reduced canopy
213	White oak	*Quercus alba*	37.5	Good	
214	Scarlet oak	*Quercus coccinea*	38	Fair	Vines, dead branches

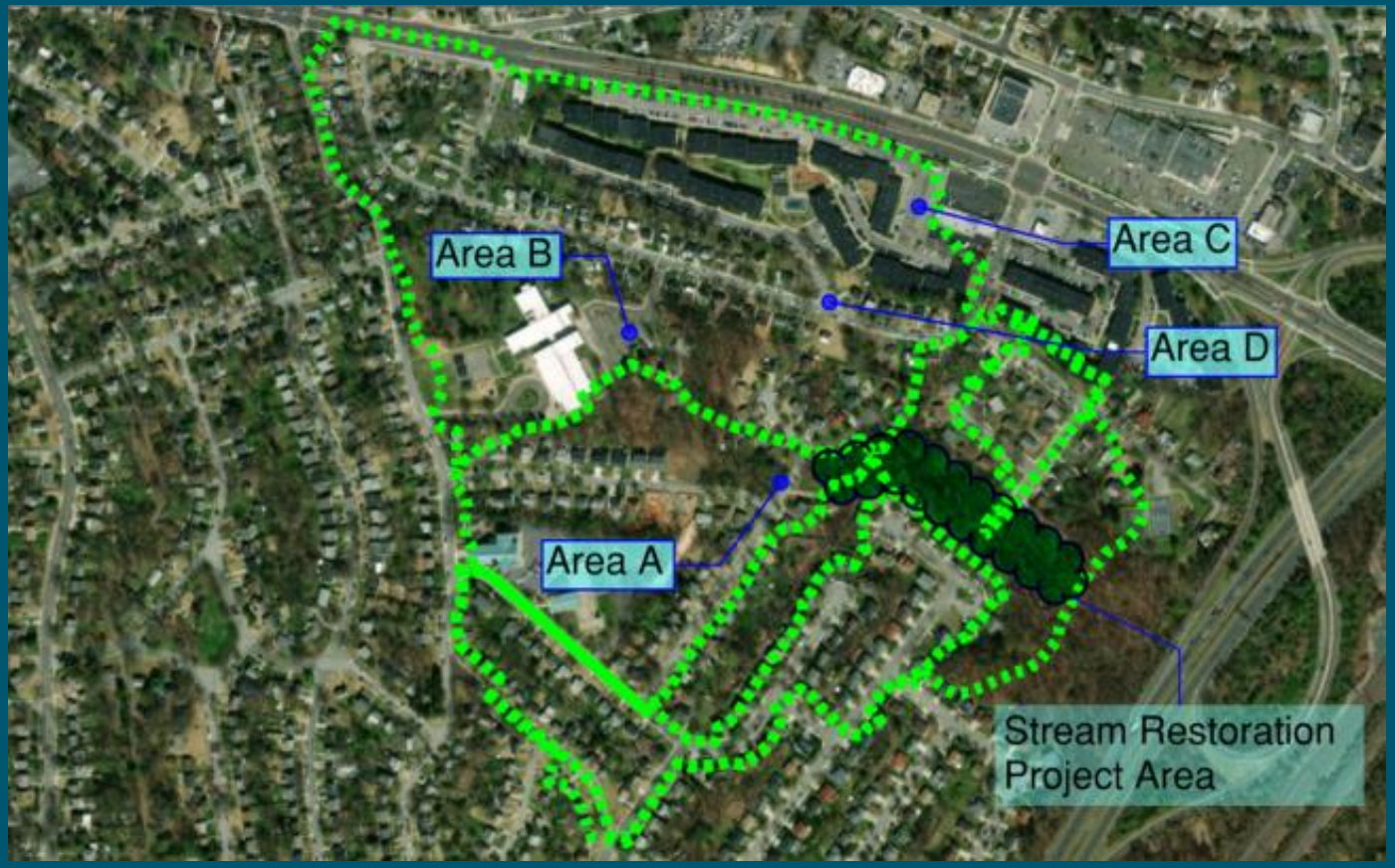
Project Design

- **Minimize Impacts to Forest Resources**
  - Reforestation Plan
  - Invasive Species Management

Ecologists → MNCPPC → DOE

Watershed Study

- **ESD Upgrades**
- **Four (4) Areas Currently Identified**



What does a completed stream restoration look like?

Estimated Project Schedule

Summer 2023: Design Complete

Winter 2023: Estimated Construction Start

Spring 2024: Estimated Construction Completion

Engagement Opportunities

- Stream Site Walk– June 1, 2023, 10:00 a.m. - 2:00 p.m.*
  https://CheverlySiteWalk.eventbrite.com

- Presentation to Cheverly GIC, June 5, 2023

* Weather permitting

Thoughts & Questions?

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YouTube Look for our channel
The Clean Water Partnership

Kristina.Bigby@thecleanwaterpartnership.com
(240) 583-7926