



**AECOM**

# Taylor Run Infrastructure Stabilization Community Meeting

**March 26, 2026**

This meeting is being recorded.





# We want to hear from you!

- ▶ Use the Q&A box to submit during tonight's meeting
- ▶ Submit a comment using the Smartsheet Link:



- ▶ Public feedback and comments will be collected through Monday, March 30, 2026



# Tonight's Agenda

## ▶ Project Review

*Where is the project located?*

## ▶ Proposed Design Area 1 Approach Alternatives

*What does it look like now? What will it look like?*

## ▶ Project Schedule

*When will it happen?*

## ▶ Open Discussion and Q&A



# Project Team



## Transportation & Environmental Services City of Alexandria

Alex Haptemariam, PE, CFM  
Camille Liebnitzky, PE, ENV SP  
Daniel E. Medina, PhD, PE  
Jesse E. Maines, MPA

# AECOM

## Lead Design Consultant

Brandon Alderman, CERP  
Sean Bernheisel, PE



# Project Location



Alexandria City High School

Chinquapin Park & Forest Park



# Where will we be working?

- ▶ Four distinct areas, totaling ~600 linear, non-continuous feet
- ▶ Total work area: 1.7 acres



- ▶ Temporary impacts for construction access shown in gray



# Project Goals



Protect critical, at-risk infrastructure (e.g., sewer pipes, manholes, outfalls, and trails)



Stabilize streambanks and reduce erosion



Preserve and protect mature trees and wetlands



Minimize limits of disturbance, vegetation removal, and construction impacts





# What have we done so far?

- ▶ Topographic survey
- ▶ Tree survey
- ▶ Geotechnical investigation
- ▶ Hydrologic and hydraulic modeling
- ▶ Performed sewer inspections using CCTV
- ▶ Performed existing condition assessment
- ▶ 30% Design Submission (available online)
- ▶ Working on 60% Design Submission





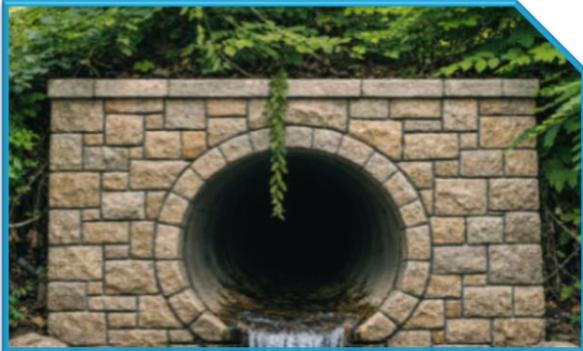
## Existing Condition – Project Area 2

- ▶ Exposed sanitary sewer crossing
- ▶ 36" outfall with undercut headwall
- ▶ Severe lateral bank erosion





# Proposed Approach: Project Area 2



Rock Façade Finish



Gravity Wall with Safety Railing



Concrete Encasement



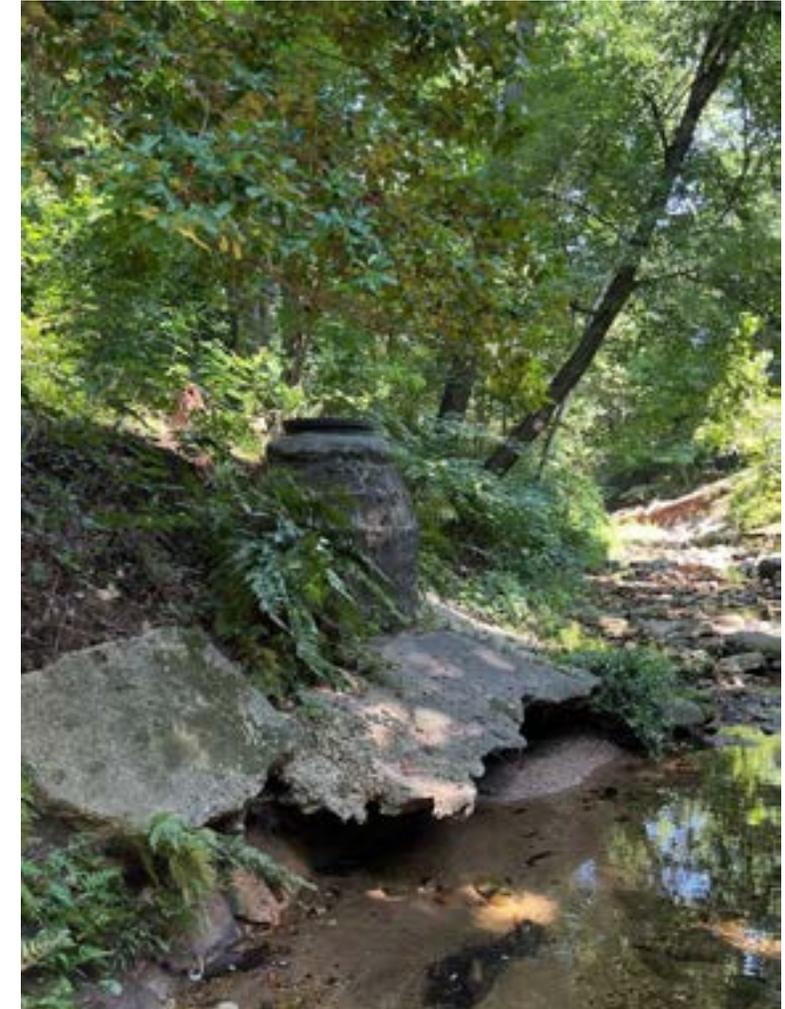
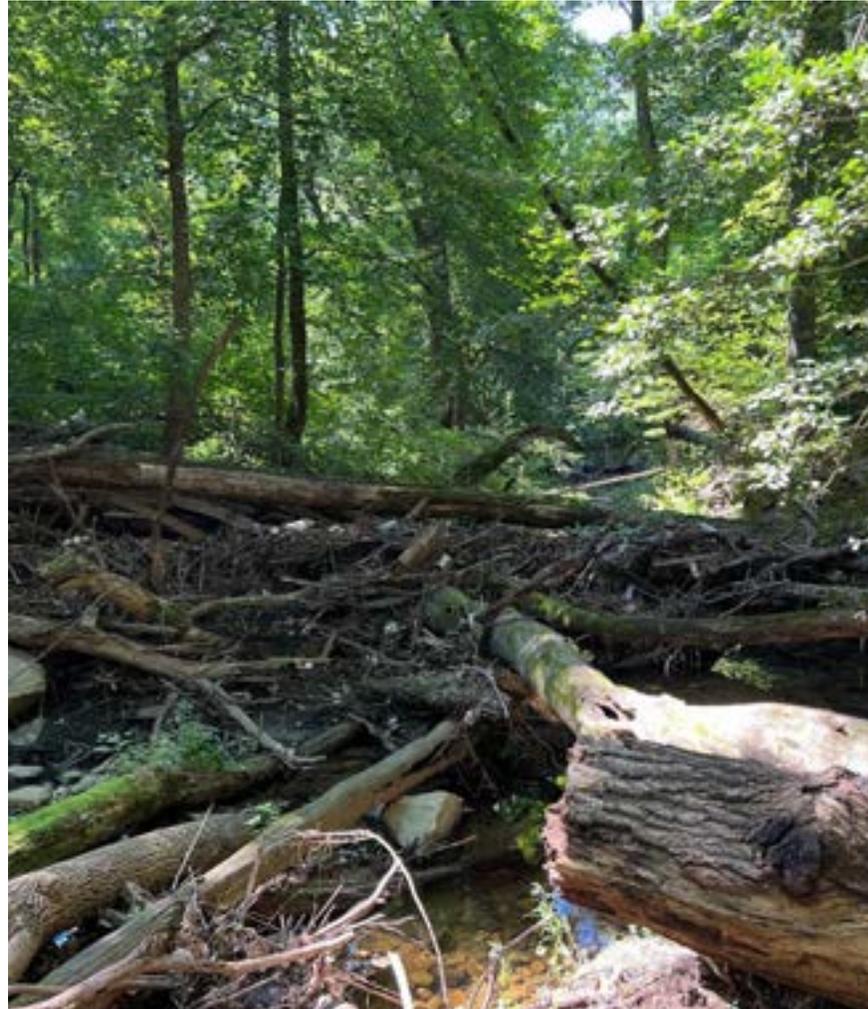
Boulder Weir and Pool





## Existing Condition – Project Area 3

- ▶ Exposed sanitary manhole with undercut concrete base
- ▶ Risked sanitary sewer exposure due to erosion
- ▶ Woody debris accumulation





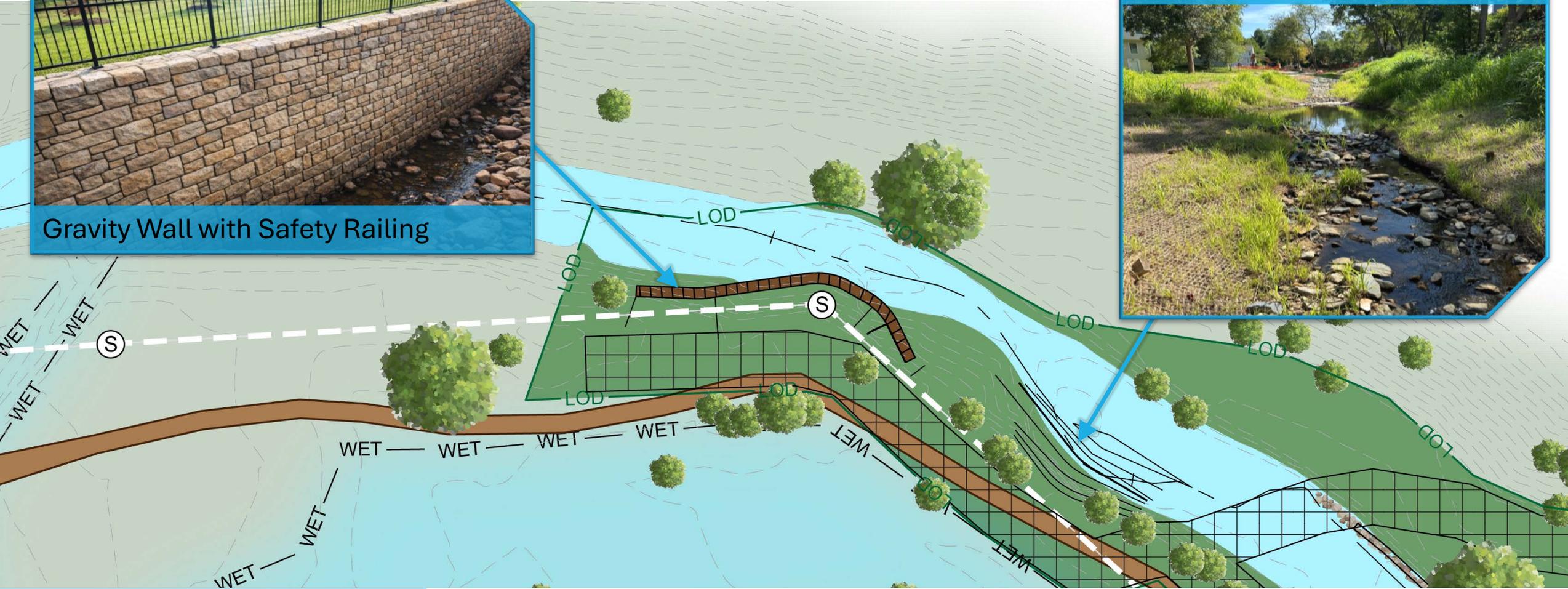
# Proposed Approach: Project Area 3



Gravity Wall with Safety Railing



Grading and Seeding





# Existing Condition – Project Area 4

- ▶ Failing sheet pile wall
- ▶ Exposed sanitary pipe and manhole
- ▶ Root exposure and damage to significant red maple tree





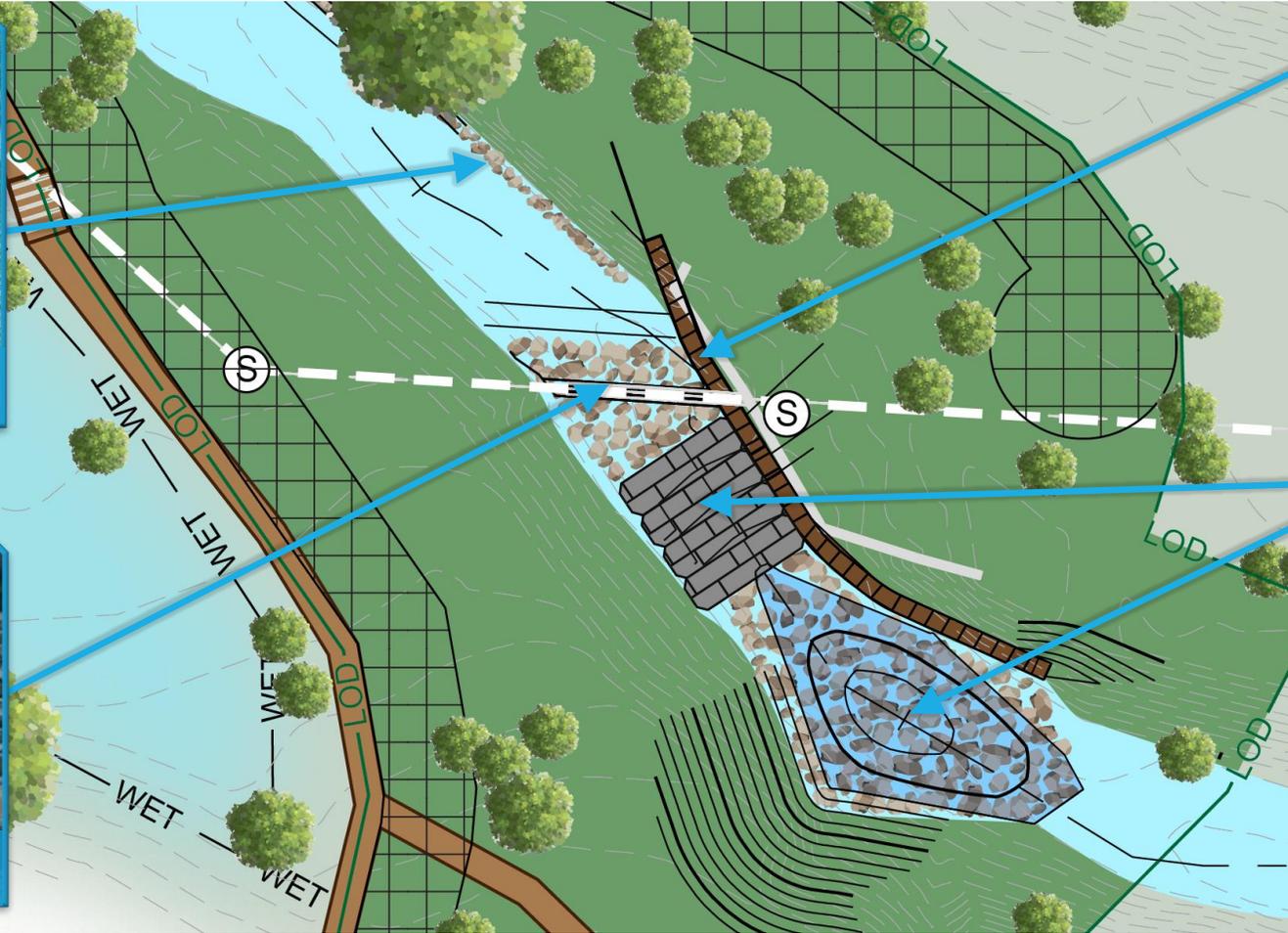
# Proposed Approach: Project Area 4



Rock Packing



Concrete Encasement



Gravity Wall with Safety Railing



Boulder Weir and Pool



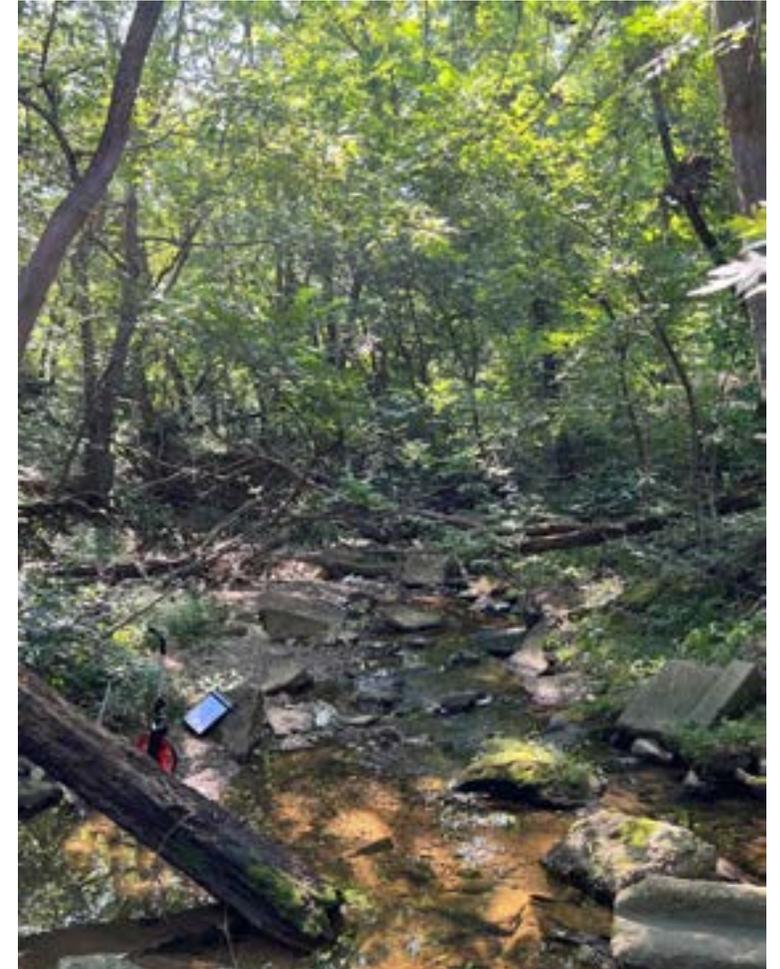
# Proposed Project Area 1 Approach Alternatives

- ▶ Alternative 1 (30% Design) – Virginia Department of Environmental Quality (VDEQ) Plunge Pool with a wall
- ▶ Alternative 2 – Natural Resources Conservation Services (NRCS) Plunge Pool with a wall
- ▶ Alternative 3 – Stilling Basin with no wall



# Existing Condition – Project Area 1

- ▶ 72" outfall in disrepair
- ▶ Undersized plunge pool causing bed scour
- ▶ Bank erosion undermining trees





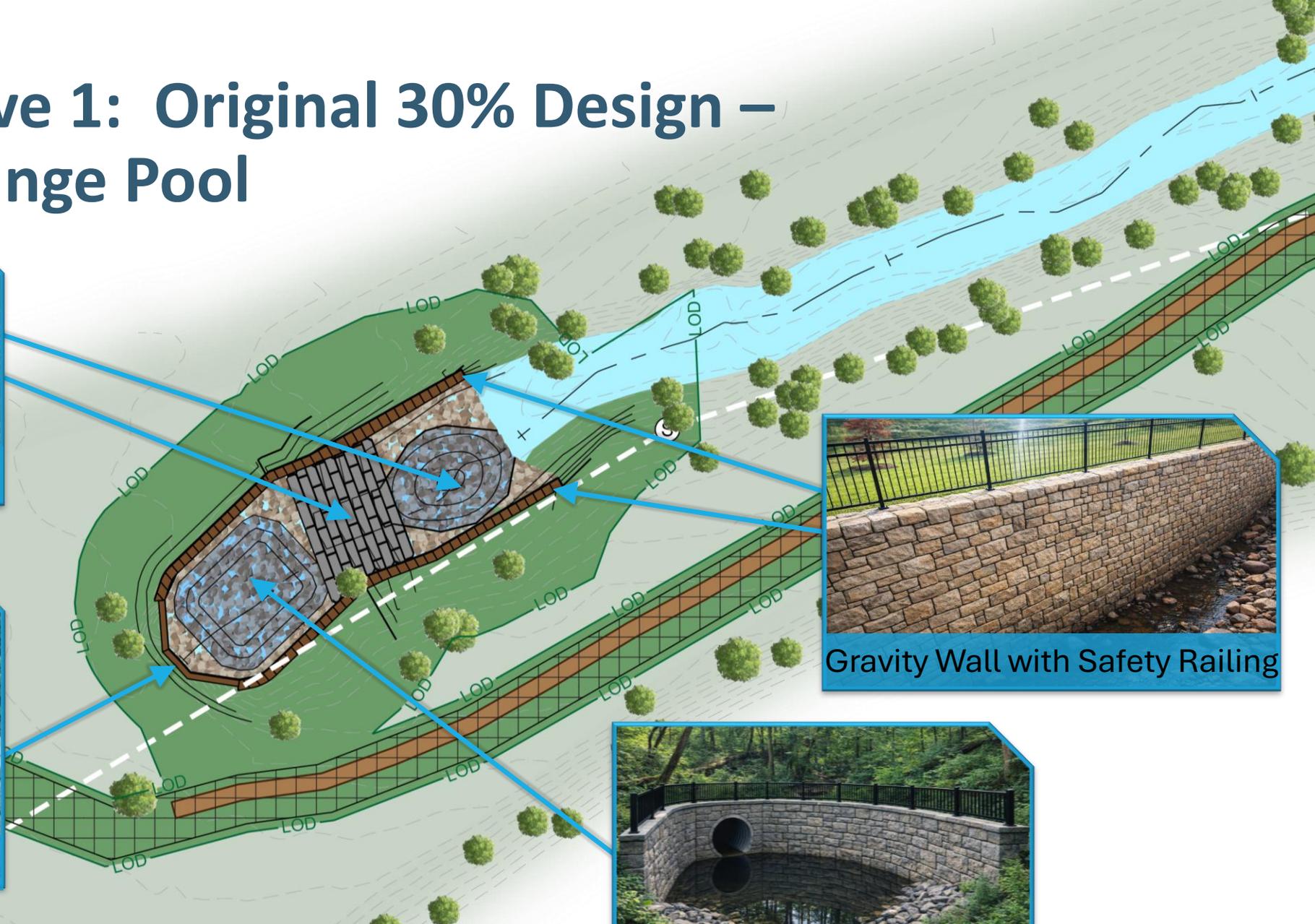
# Alternative 1: Original 30% Design – VDEQ Plunge Pool



Boulder Weir and Pool



Rock Façade Finish



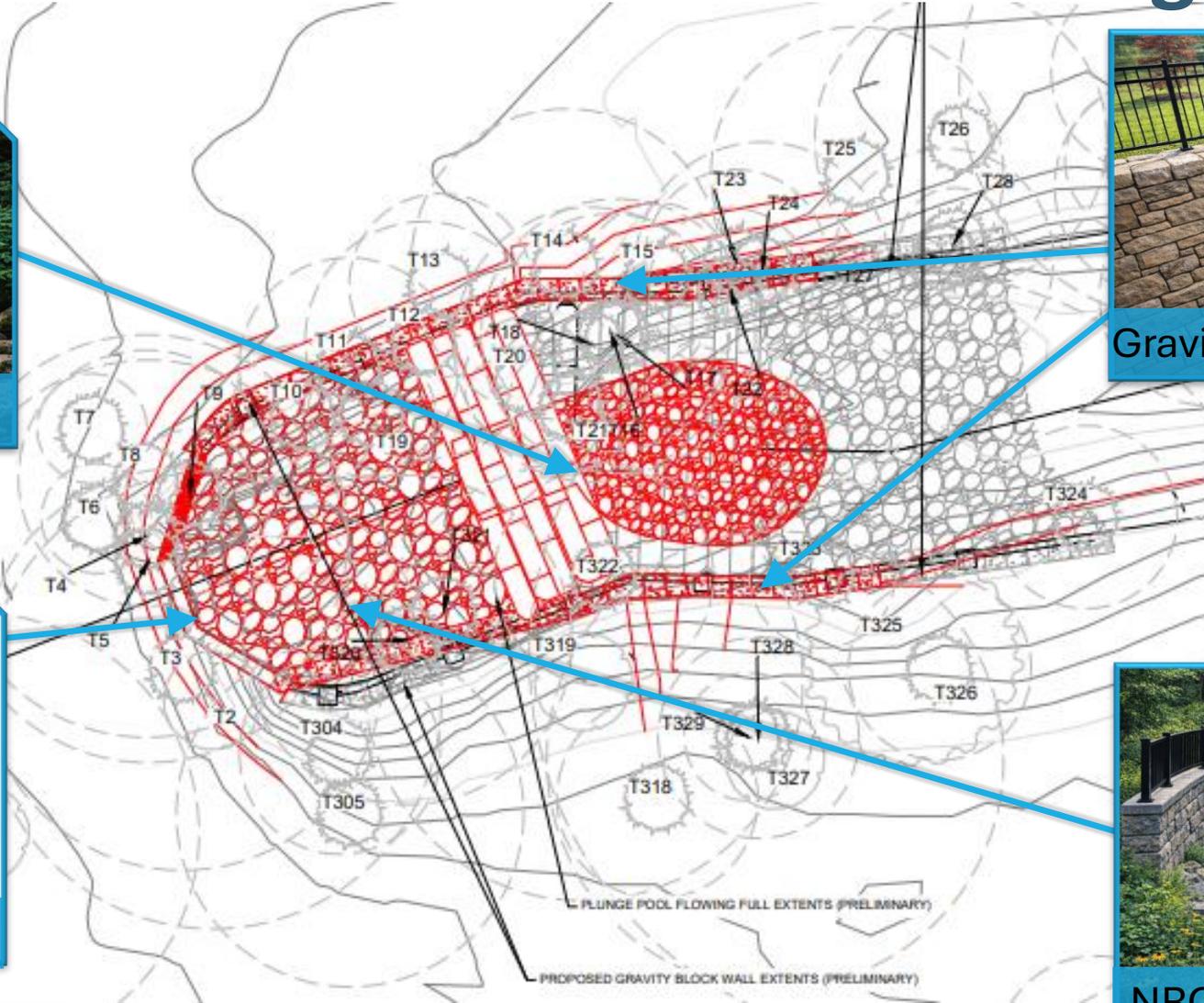
Gravity Wall with Safety Railing



VDEQ Plunge Pool



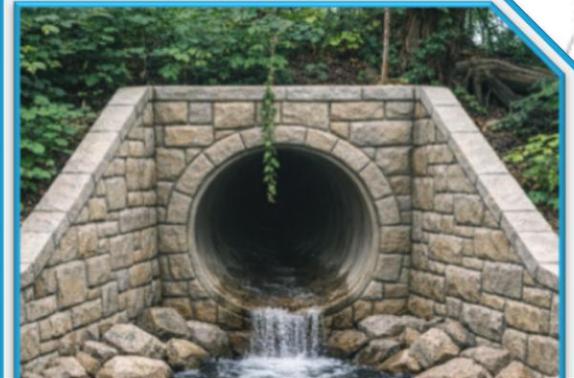
# Proposed Alternative 2: NRCS Plunge Pool



Boulder Weir and Pool



Gravity Wall with Safety Railing



Rock Façade Finish



NRCS Plunge Pool



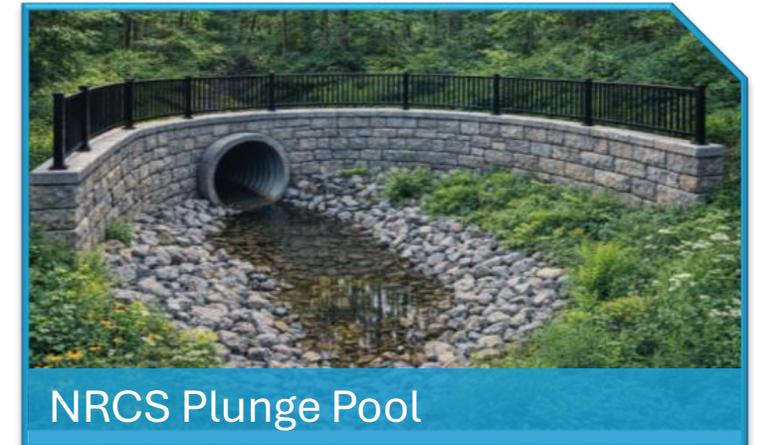
# Proposed Alternatives: Plunge Pools

## ▶ Alternative 1

- ▶ VDEQ Plunge Pool
- ▶ Sizing based on pipe size
- ▶ 36' L x 30' W x 3' H
- ▶ Riprap placed 3.5' deep

## ▶ Alternative 2

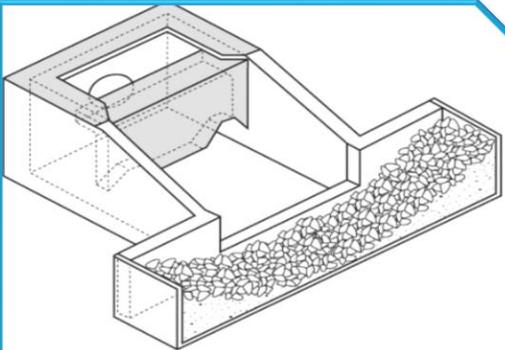
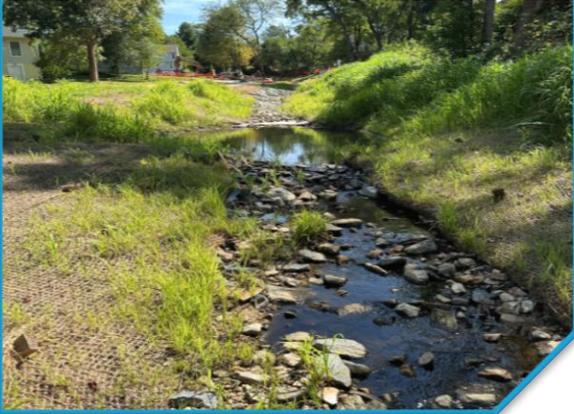
- ▶ NRCS Plunge Pool
- ▶ Sizing based on full pipe flow
- ▶ 26.3' L x 29.4' W x 0.8' H
- ▶ Riprap placed 4.12' deep



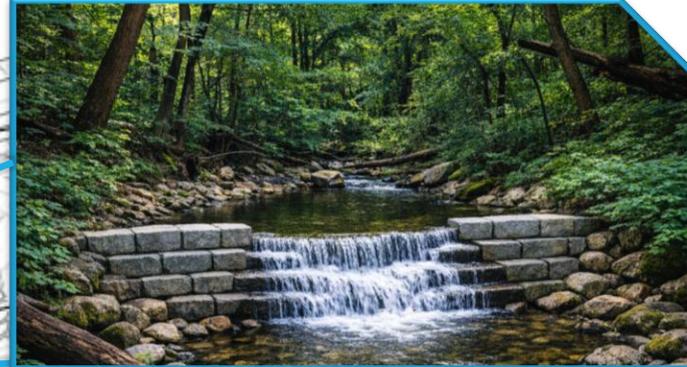
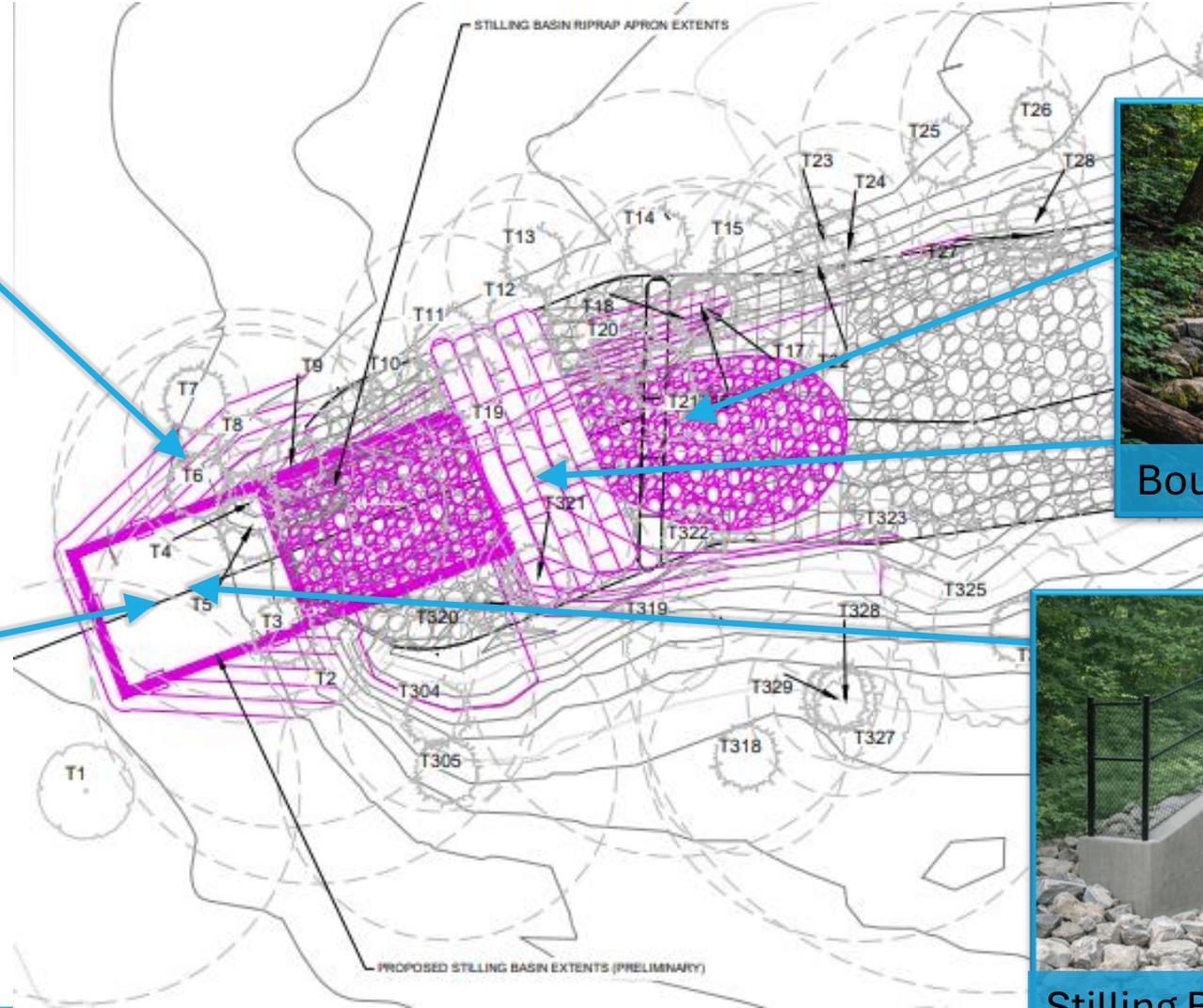


# Proposed Alternative 3: Stilling Basin

Grading and Seeding



Stilling Basin



Boulder Weir and Pool



Stilling Basin

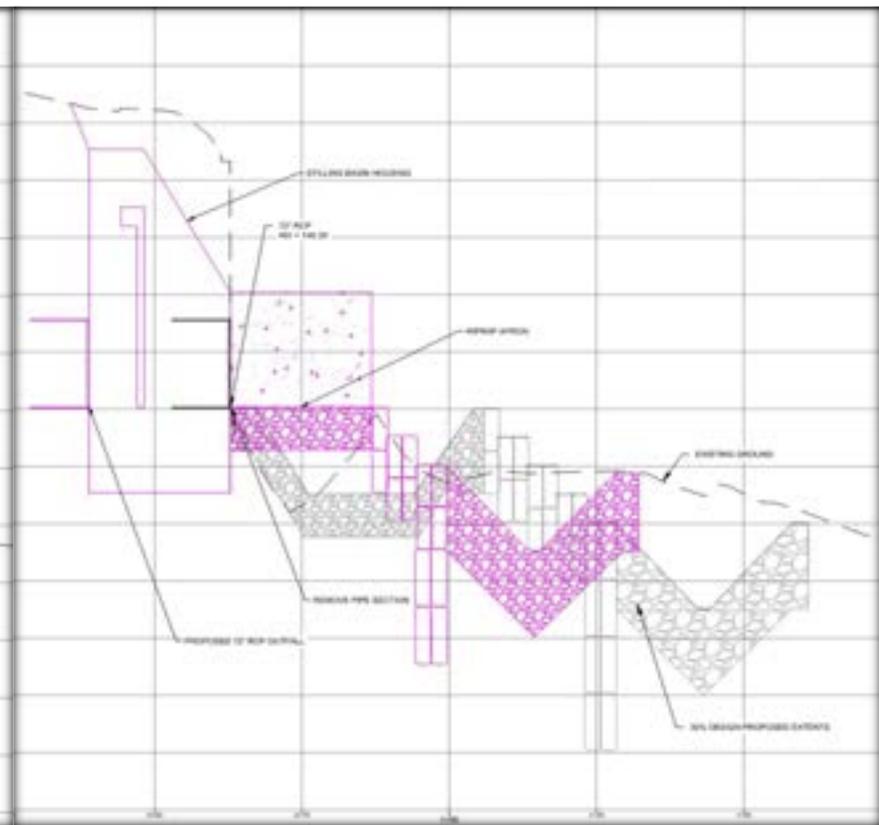
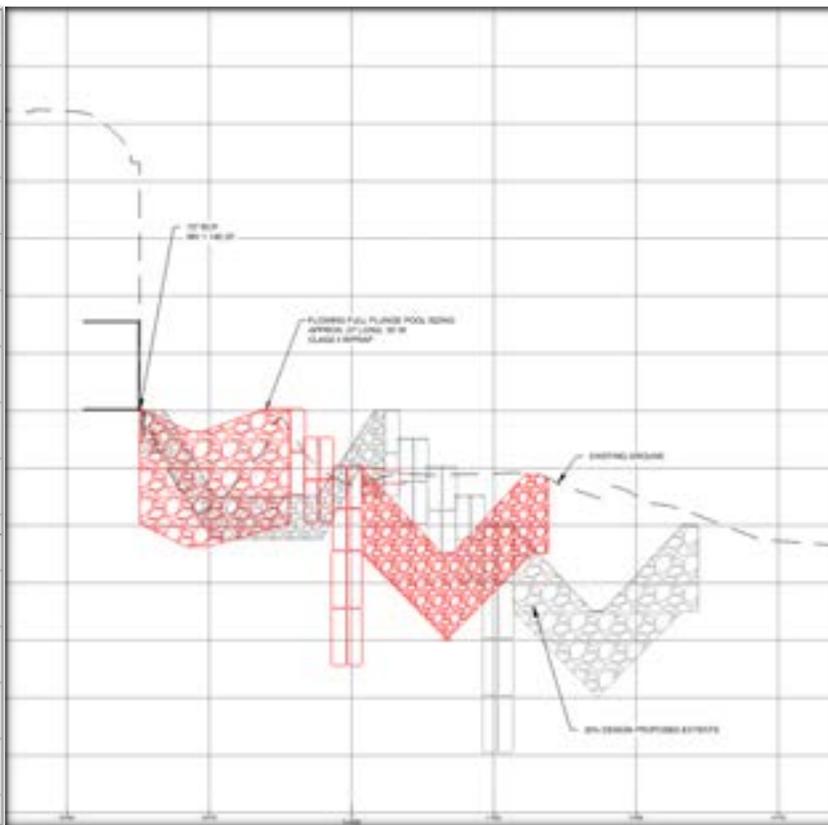
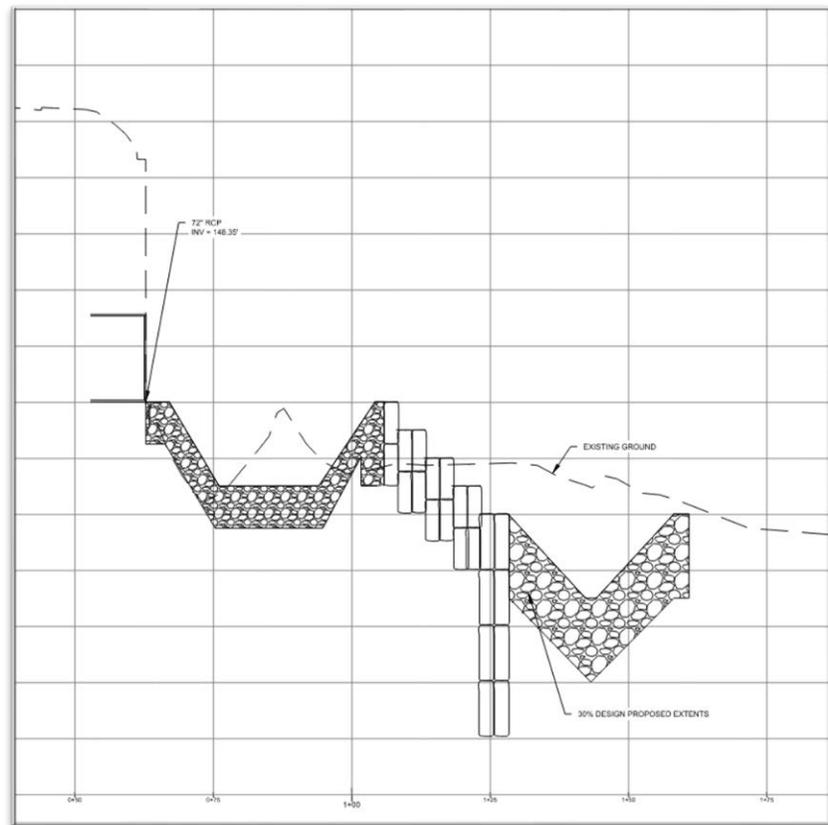


# Proposed Alternatives: Profile Comparison

Alternative 1

Alternative 2

Alternative 3





# Tree Preservation: Alternative 1

Living trees  
proposed for  
removal

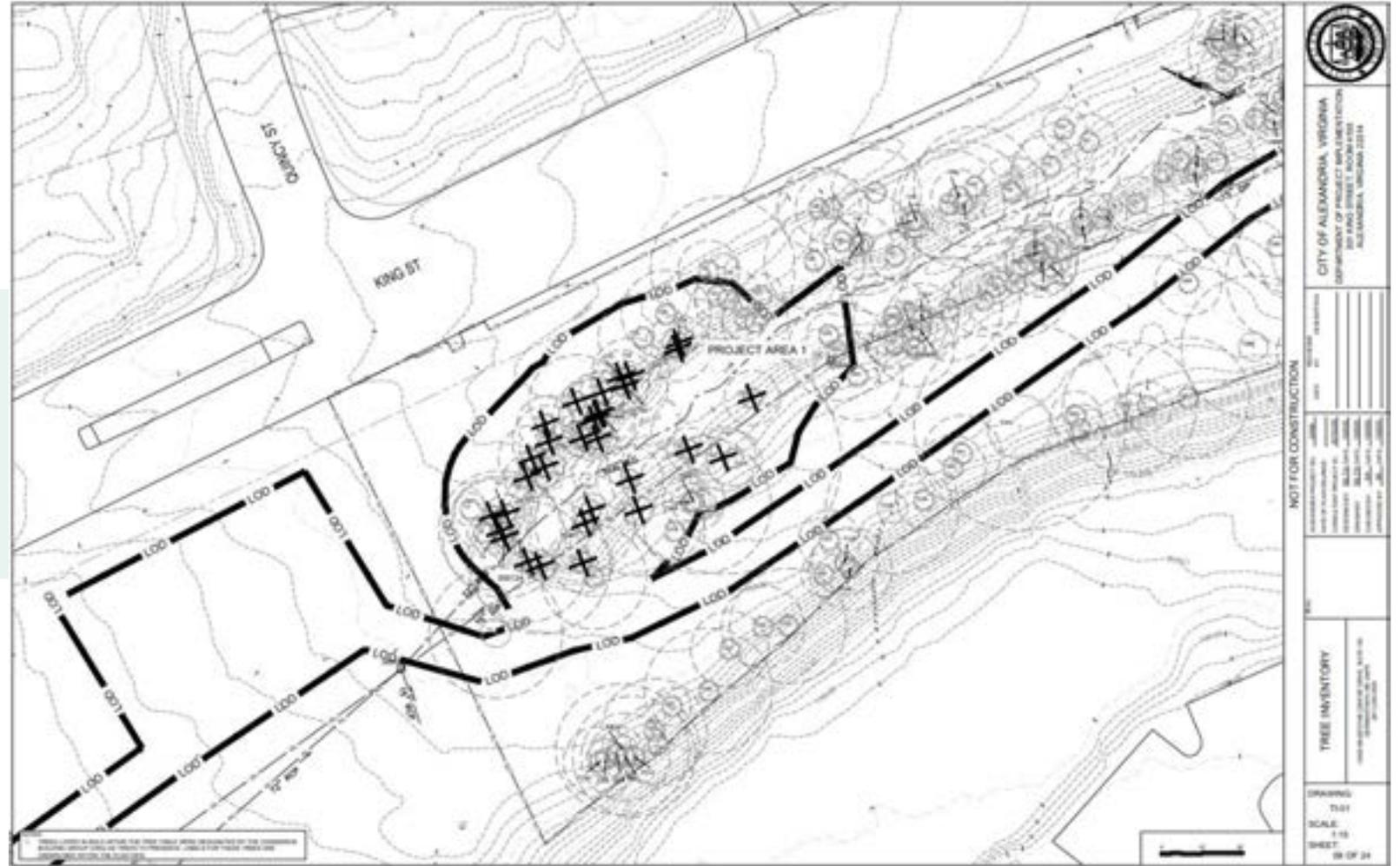
19

Dead trees  
proposed for  
removal

12

Total trees  
proposed for  
removal

31





# Tree Preservation: Alternative 2

Living trees  
proposed for  
removal

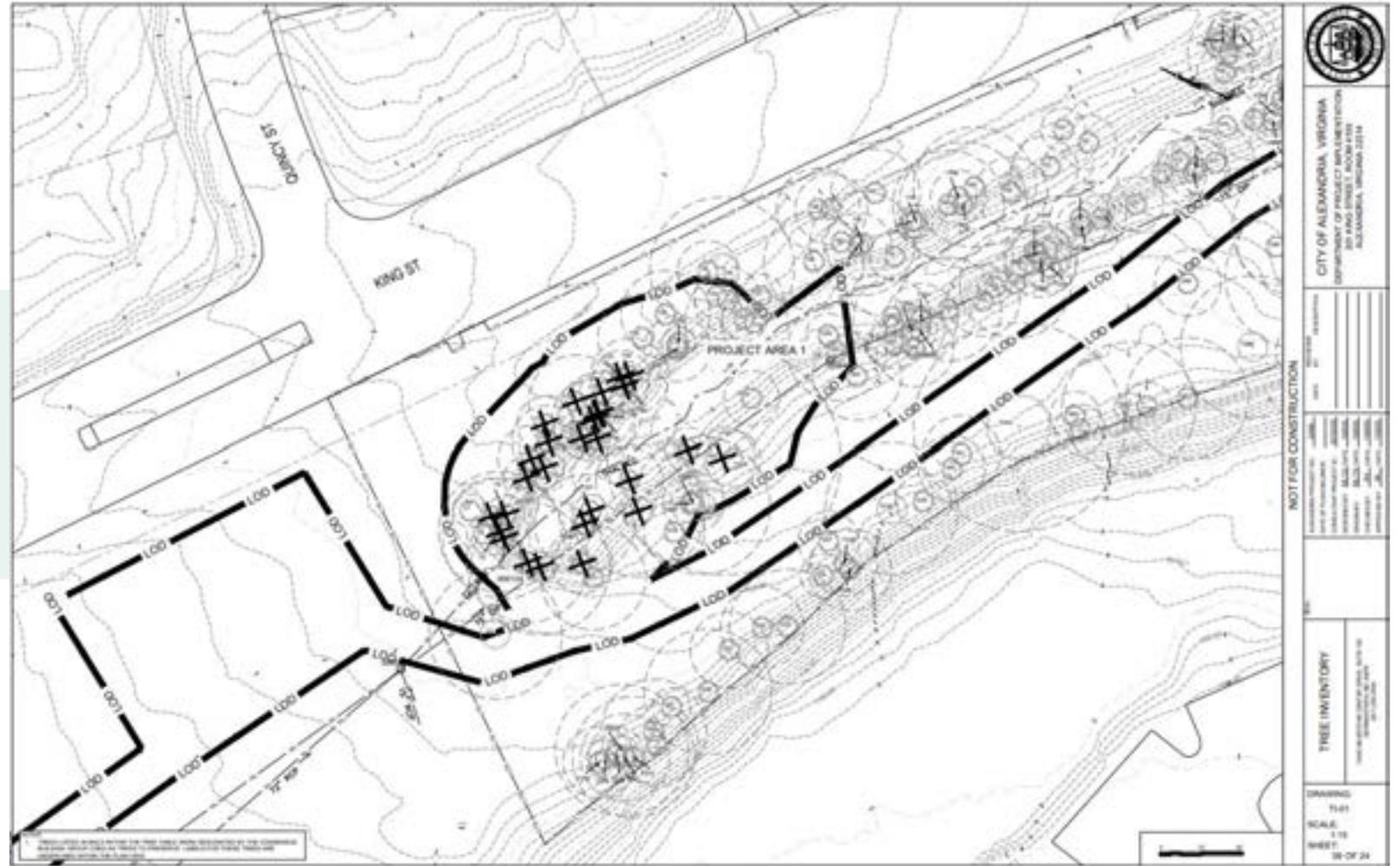
18

Dead trees  
proposed for  
removal

11

Total trees  
proposed for  
removal

29







# Proposed Alternative: Comparison

Alternative 1		
TREES REMOVED	LIVING TREES REMOVED	DEAD TREES REMOVED
31	19	12

Alternative 2		
TREES REMOVED	LIVING TREES REMOVED	DEAD TREES REMOVED
29	18	11

Alternative 3		
TREES REMOVED	LIVING TREES REMOVED	DEAD TREES REMOVED
22	12	10





# Project Schedule

June 15, 2025 -  
December 15, 2025  
Duration: 6 Months

May 15, 2026 –  
July 31, 2026  
Duration: 2.5 Months

October 1, 2026 –  
February 28, 2027  
Duration: 5 Months

September 1, 2027 –  
December 15, 2027  
Duration: 3.5 Months



December 15, 2025  
– May 15, 2026  
Duration: 5 Months

August 1, 2026 –  
September 30, 2026  
Duration: 2 Month

March 1, 2027 –  
September 1, 2027  
Duration: 6 Months



# We want to hear from you!

- ▶ Submit a comment using the Smartsheet Link:



- ▶ Public feedback and comments will be collected through Monday, March 30, 2026



# Thank you for attending!

## ▶ Contact Information:

Alex Haptemariam, PE, CFM (City Managing Project Manager):  
alex.haptemariam@alexandriava.gov

Camille Liebnitzky, PE, ENV SP (City Sponsor Project Manager):  
camille.liebnitzky@alexandriava.gov

## ▶ Project Website:

<https://www.alexandriava.gov/stormwater-management/project/taylor-run-stream-restoration>