

Taylor Run Infrastructure Stabilization Community Meeting

November 13, 2025

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 Friday, November 21, 2025

Tonight's Agenda

- ► Introduction of Project Who is involved? Where is the project located?
- Project Overview Why is this important? What is the project history? What are the goals?
- ► Work Completed

 What have we done so far?
- Existing Conditions & Proposed Approach What does it look like now? What will it look like?
- ► Project Schedule When will it happen?
- ▶ Open Discussion and Q&A







Transportation & Environmental Services City of Alexandria

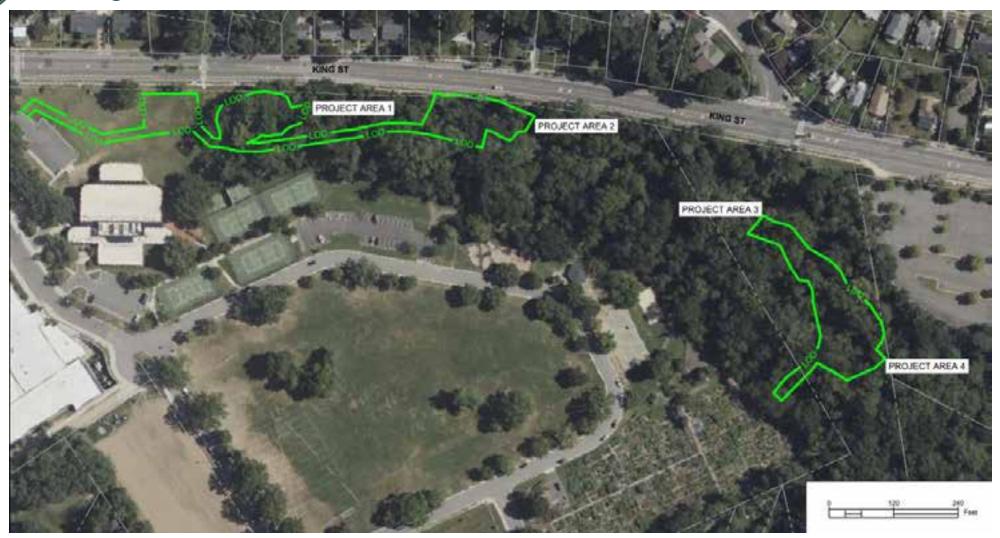
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Camille Liebnitzky, PE, ENV SP
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AECOM

Lead Design Consultant

Brandon Alderman, CERP Tori Nelson, PE Sean Bernheisel, EIT

Project Location



Project History

- ► Project was originally scoped as a stream restoration; however, community feedback indicated that a larger collaboration effort was needed.
- City hired an outside facilitator to lead stakeholder discussions.
- ► Staff presented the facilitator's recommendations to City Council in June 2023.
- Council directed staff to proceed with stream stabilization following a "minimal design" approach
- ► City hired a design consultant to prepare engineering plans for infrastructure protection and channel stabilization following this minimal approach



Before



Proposed Approach



Rendering of proposed approach: Greeley-Hansen, 2023



Before



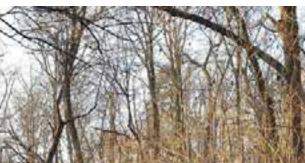
Proposed Approach



Rendering of proposed approach: Greeley-Hansen, 2023



Before





Proposed Approach



Rendering of proposed approach: Greeley-Hansen, 2023





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

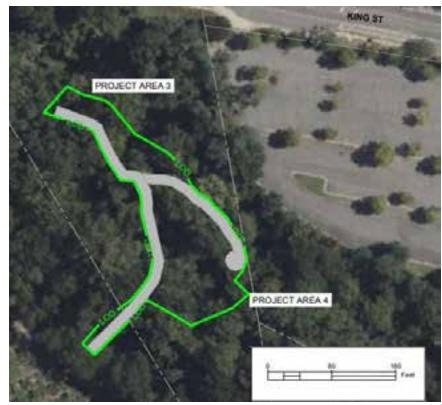




Where will we be working?

- ► Four distinct areas, totaling ~600 linear, non-continuous feet
- ► Total disturbed area: 1.6 acres







Temporary impacts for construction access shown in gray



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

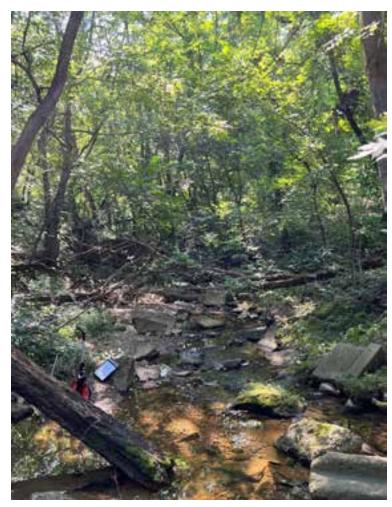


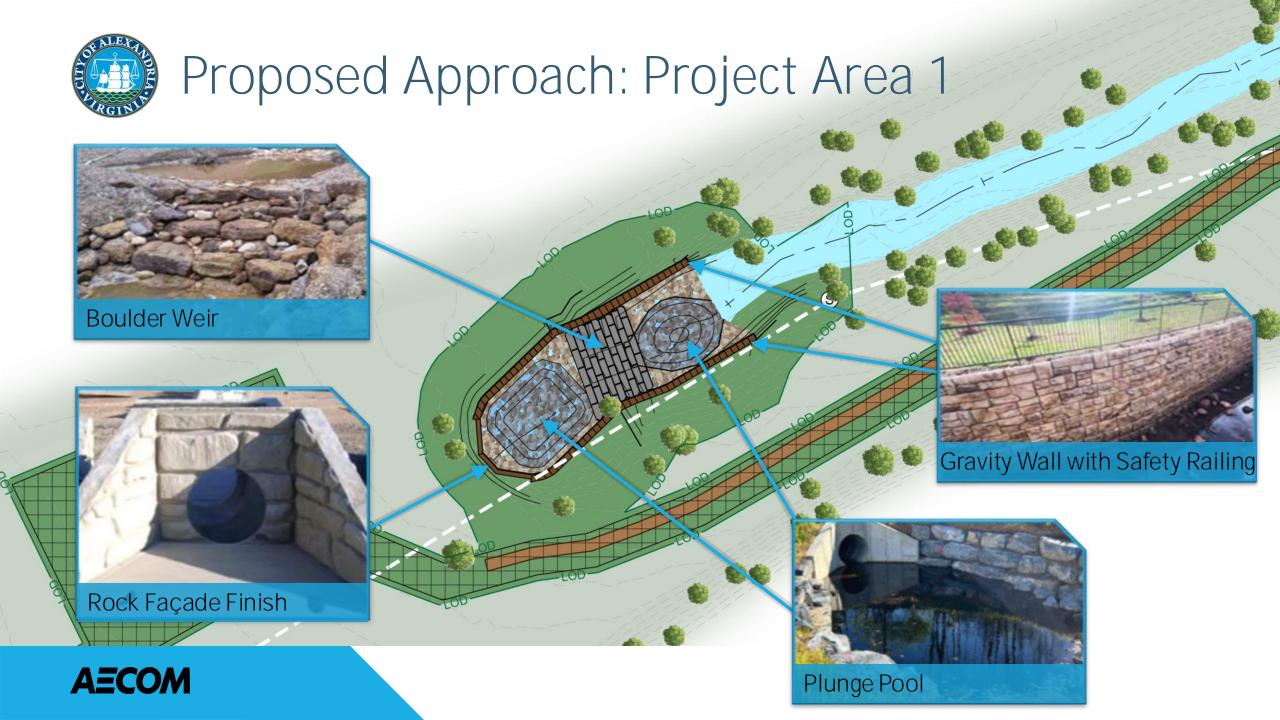


Existing Condition – Project Area 1

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

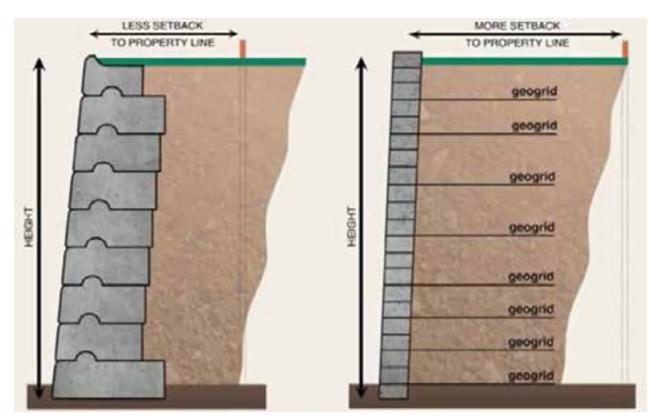








Gravity wall vs. standard retaining wall



Gravity Wall

Standard Reinforced Retaining Wall

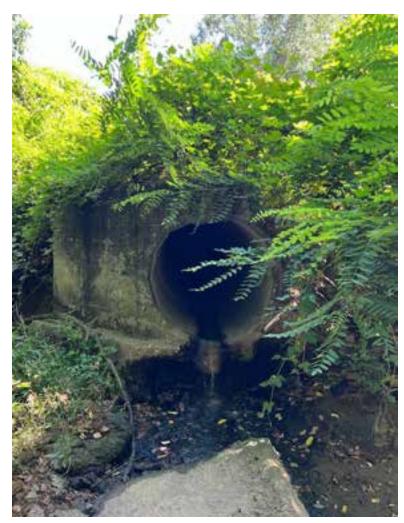






Existing Condition – Project Area 2

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







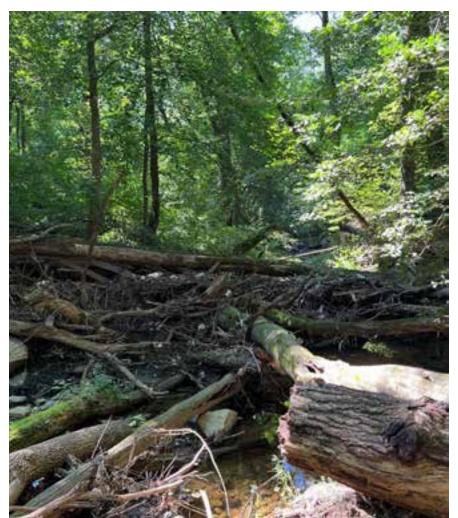
Proposed Approach: Project Area 2

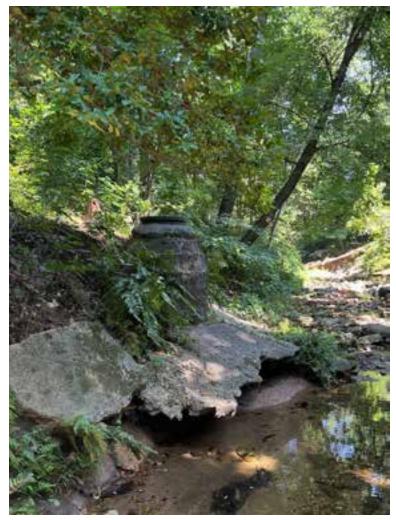




Existing Condition - Project Area 3

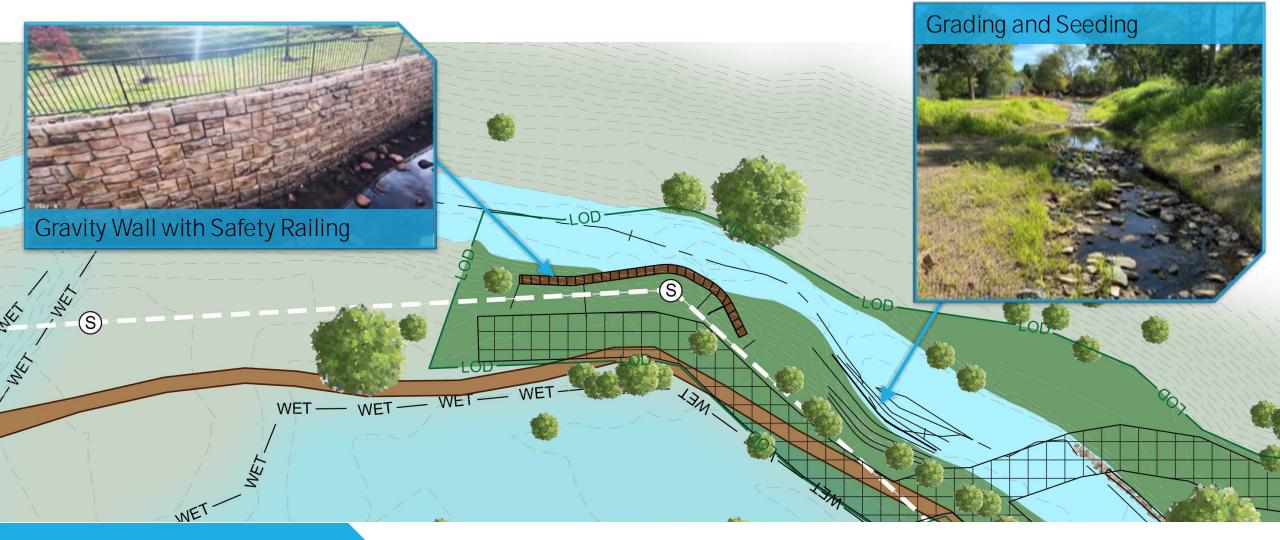
- Exposed sanitary manhole with undercut concrete base
- Risked sanitary sewer exposure due to erosion
- Woody debris accumulation







Proposed Approach: Project Area 3







Existing Condition - Project Area 4

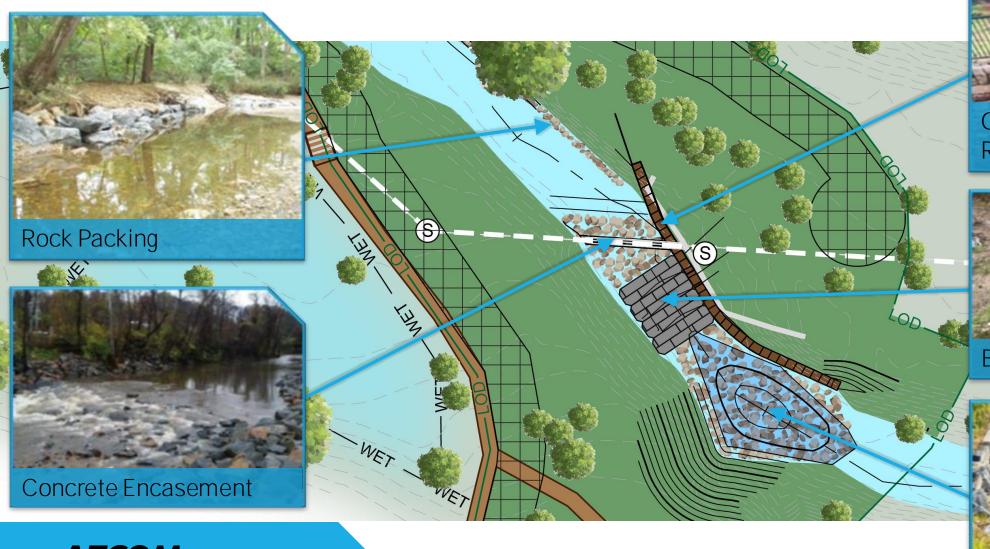
- Failing sheet pile wall
- Exposed sanitary pipe and manhole
- Root exposure and damage to significant red maple tree







Proposed Approach: Project Area 4













Minimal Disturbance and Replanting

- Minimal disturbance
 - Following "minimal approach" set by CBG and approved by Council
- ► Critical Root Zone Protection
 - Mulch and deck matting proposed to protect tree roots
- ► Native Plantings
 - ► Replanting anticipates 150 new trees





Minimal Disturbance for Tree Preservation

Location	Living trees proposed for removal	Dead trees proposed for removal	Total trees proposed for removal
Project Area 1	19	12	31
Project Area 2	2	1	3
Project Area 3	2	0	2
Project Area 4	3	4	7
Total	26	17	43

- 53 trees estimated for removal in 2023 minimal design impact concept
- Of living trees proposed for removal, 11 are above 12" DBH and one is above 24" DBH





Living trees proposed for removal

19

Dead trees proposed for removal

12

Total trees proposed for removal

31







Living trees proposed for removal

2

Dead trees proposed for removal

1

Total trees proposed for removal

3







Living trees proposed for removal

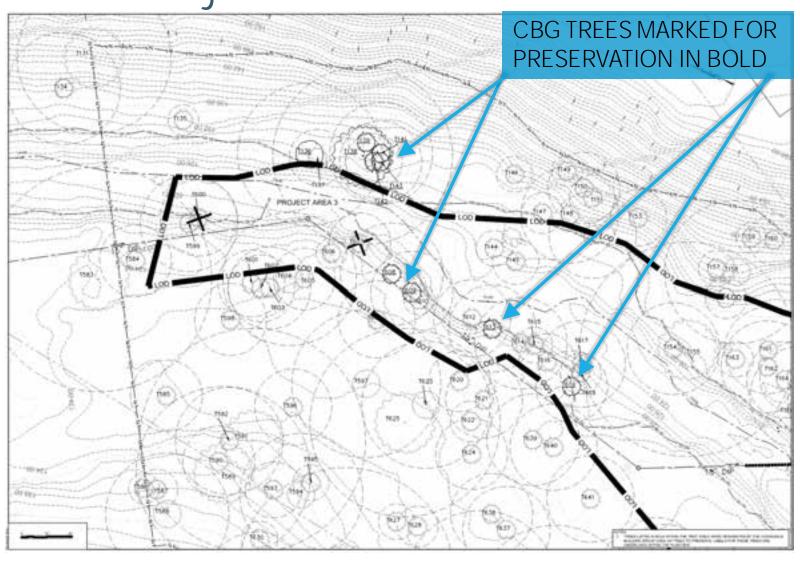
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Dead trees proposed for removal

()

Total trees proposed for removal

2





 The Consensus Building Group (CBG) in 2023 recommended the trees in bold for continued preservation



Living trees proposed for removal

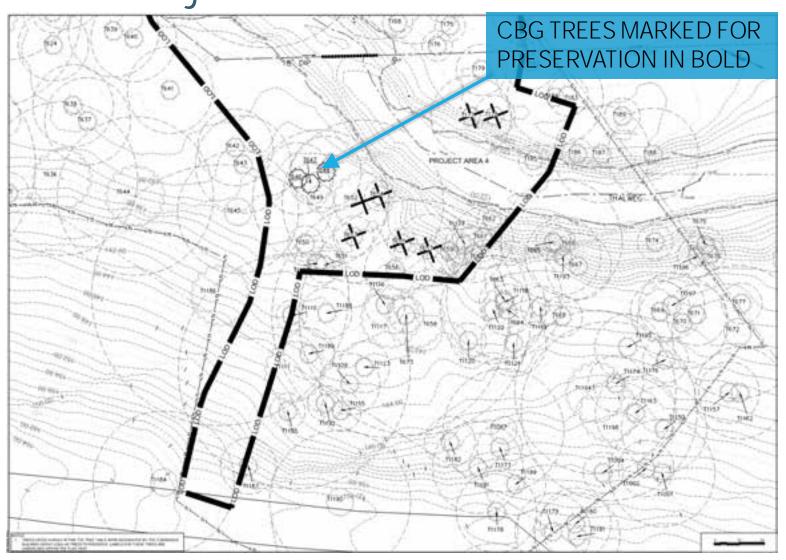
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Dead trees proposed for removal

4

Total trees proposed for removal

7



The Consensus Building Group (CBG) in 2023 recommended the trees in bold for continued preservation





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



60% Design

90% Design

100% Design

Procurement

Construction

Closeout and Final Inspection/ As-Built

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



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Additional Information



- Streambank and Trail Stabilization
 - ► Gravity Retaining Walls
 - ► Installed along eroded banks in Project Areas 1, 2, and 4
 - ► Rock façade finish for natural aesthetics
 - ► Safety railings added near public access points
- Sheet Piles Installed at wall base to prevent undermining and bed scour
 - Chosen over deeper wall embedment for reduced impact, cost, and constructability
- ► Removal of Significant Woody Debris





► Gravity Retaining Wall Textures





Ledgestone

Ledgestone blocks give retaining walls a random, stacked stone look. Because they're made using architectural-grade precast concrete, the level of detail is outstanding.



Cobblestone

Cobblestone blocks have a great quarried stone aesthetic. Each one-ton block features the appearance of six smaller blocks, making it a great look for any size project.



Limestone

Limestone blocks have a natural split limestone texture that beautifully mimics real quarried limestone. The massive size of each block face gives walls an impressive scale.



Kingstone

Striking a balance between the scale of Limestone and relief of Ledgestone, Kingstone appears weathered by water and time like the crown of a natural stone outcropping.



Smooth

When you're looking for something a little more modern, the Redi-Rock Smooth texture with it's crisp, clean lines provides the sophistication you're after.





- Streambed Improvements
 - ► Boulder Cascades
 - ► Project Area 1: 56 ft cascade, 4 ft drop
 - ► Project Area 2: 95 ft cascade, 7.5 ft drop
 - ► Project Area 4: 73 ft cascade, 3.4 ft drop
 - ► Plunge Pool Redesign
 - Type I pool (36' x 30' x 3') to meet VDEQ standards
 - ► Energy dissipation and grade control
 - ► Thalweg Realignment & Substrate Mix
 - ► Stabilizes flow path and reduces erosion



► Boulder Cascade and Plunge Pool

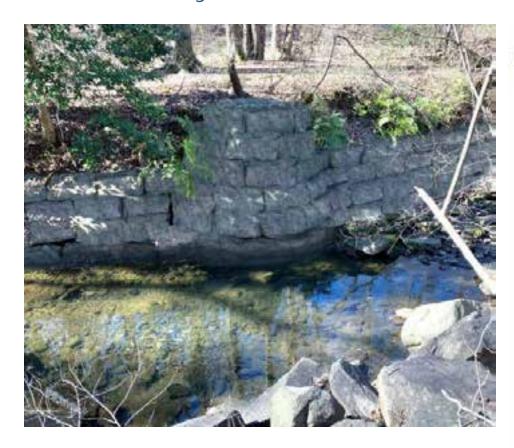


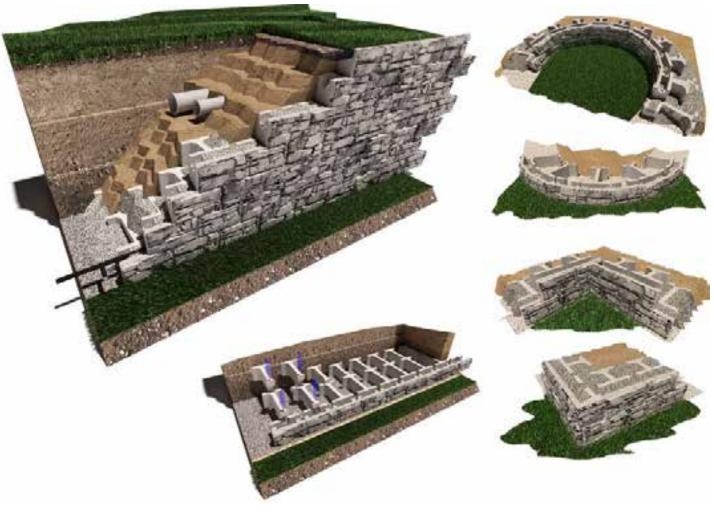


Boulder Cascade Plunge Pool



► Gravity Walls Around Manholes





Concrete Encasement



