



PUBLIC MEETING

West Spring Creek Channel Improvements Project

Foxridge Open Space: Between Mineral Avenue & Phillips Avenue

Public Meeting

MEETING GOALS

- Present project information to the public: background, need for improvements, proposed design, and next steps.
- Provide an opportunity for the public to ask questions and offer input.

MEETING FORMAT

- Project Presentation by SEMSWA & SSPRD
 - Breakout for Q&A at stations
-

Project Team

Regulatory Agencies:



South Suburban Parks & Recreation
(SSPRD)

Foxridge Open Space
Property Owner

Land Management & Maintenance



South Metro Stormwater Authority
(SEMSWA)

West Spring Creek
Stormwater Authority

Stream Stabilization & Flood Mitigation

City of Centennial: Foxridge is within the City of Centennial's boundaries. Centennial Public Works Department issues right-of-way permits.

US Army Corp of Engineers: West Spring Creek is considered “Waters of the US” and therefore is under federal jurisdiction. USACE issues permits for channel improvements.

Project Team

Design & Construction Team:

Kimley»Horn

Design Lead
Civil Engineering

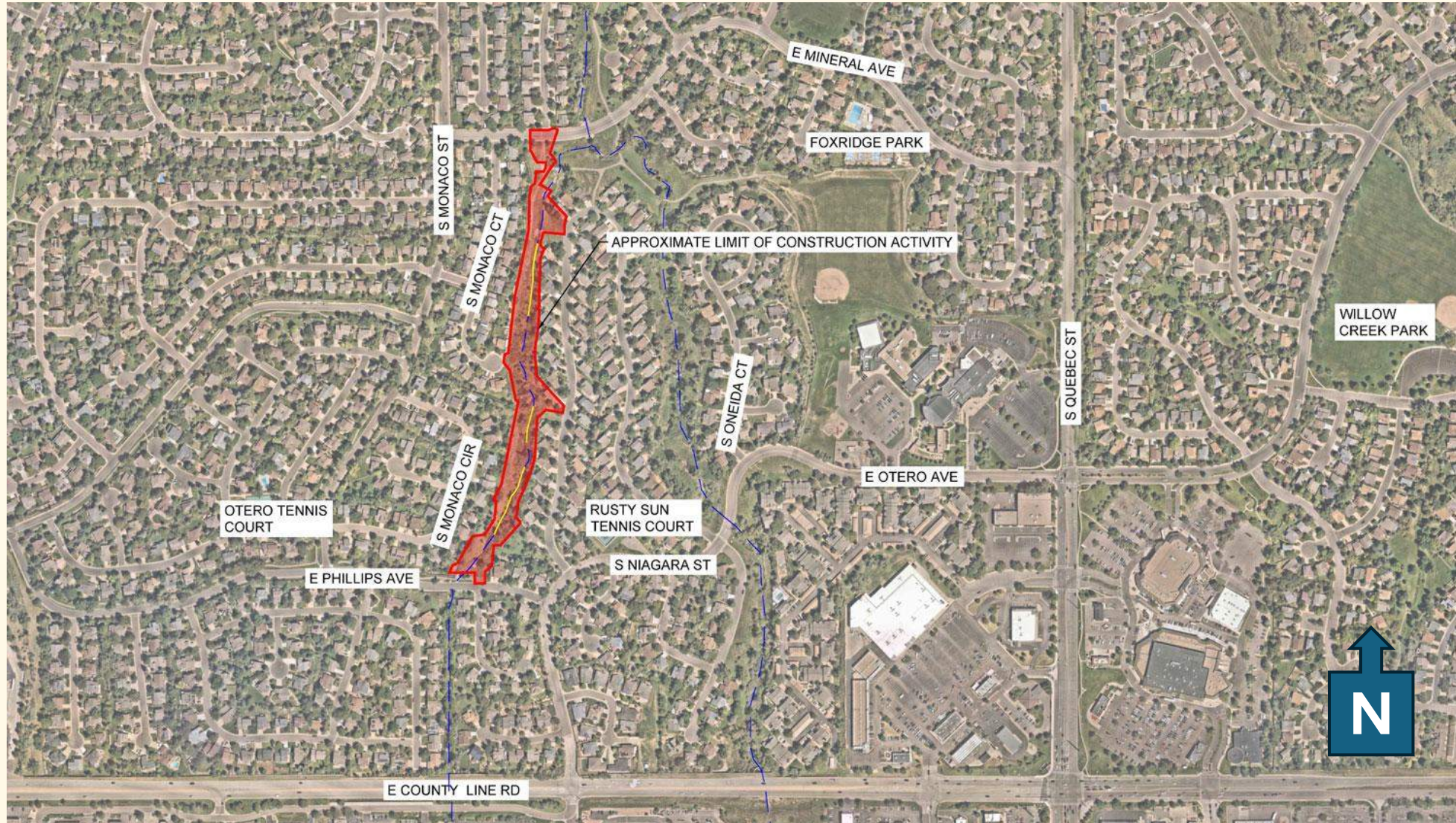


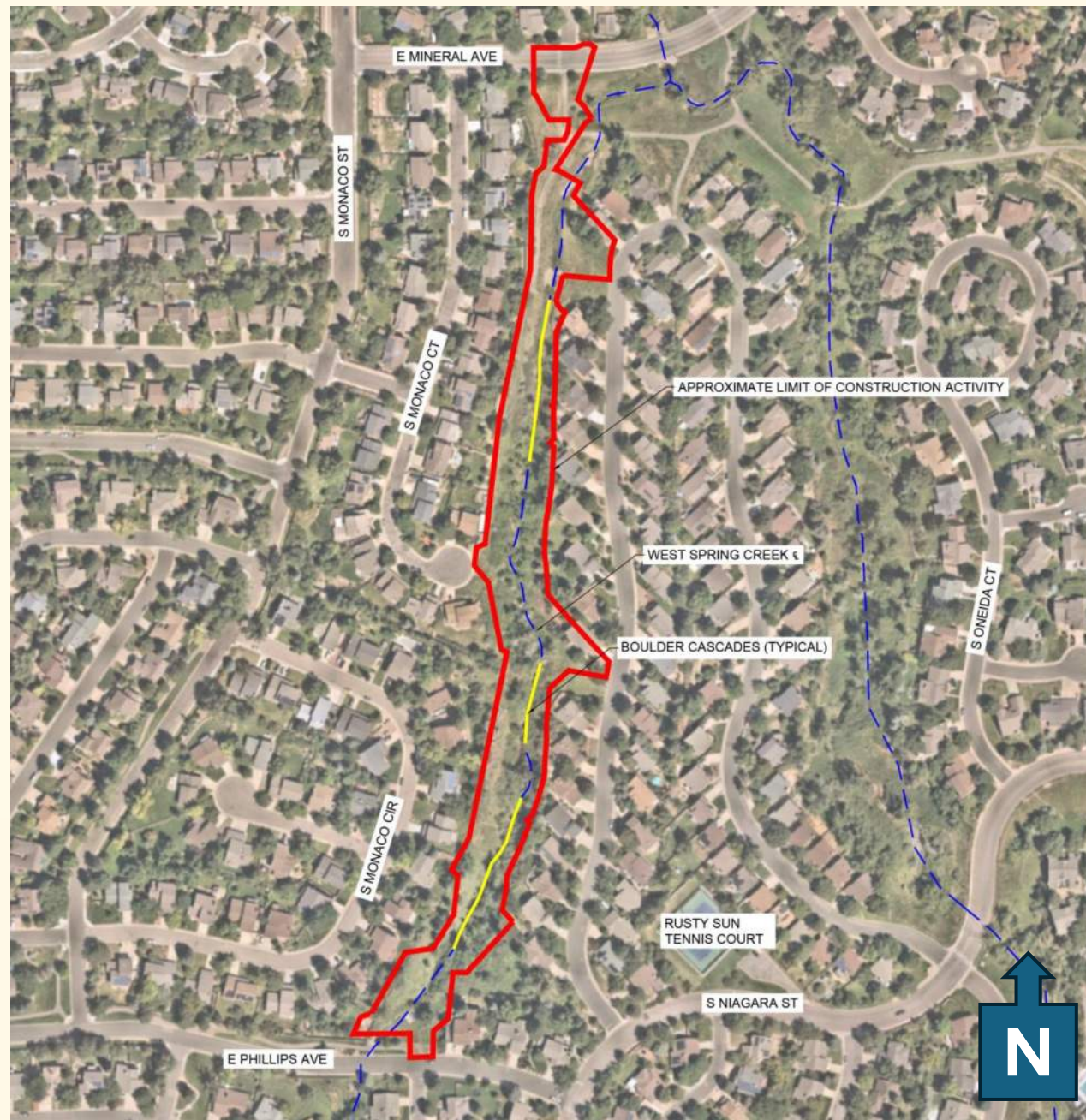
Environmental Design
Permitting



Value Engineering
Construction

Project Location







Existing Conditions

- Highly eroded creek bottom and unstable slopes
 - Degraded timber retaining walls
 - Very limited access for maintenance
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Creek Erosion and Slope Instability



Failing Retaining Walls

Project Phases



Phase 1 – Completed in 2020. Urgent rebuild of retaining walls and channel stabilization from 8019 Niagara Way north toward Mineral Ave.

Phase 2 – Replacement of 1,570 linear feet of failing timber retaining walls and stream restoration from Phillips Ave north to Phase 1.

Phase 1 (2020)

Private property safety issue due to retaining wall failure from severe creek erosion





Phase 1 Before



Phase 1 After

Planning Process (2024)

Identified Problems:

- Storm sewer outfall repairs
- Replacement of failing retaining walls
- Need for private property and utility protection
- Lack of maintenance access for vegetation and debris management



Major Drainageway Plan
Willow Creek Tributaries Upstream of Englewood Dam
December 2024

Tributaries Studied	
1	Acres Green Tributary (FHAD)
2	Fox Hill Park Tributary (FHAD)
3	Homestead Tributary
4	Homestead Farms Tributary
5	Jamison Tributary
6	Kettle Tributary
7	Phillips Tributary (FHAD)
8	Spring Creek (FHAD)
9	Spring Creek East - Altair Park Tributaries
10	Spring Creek East - Edgewood Tributaries
11	Trenton Outfall Tributary
12	West Spring Creek
13	Willow Creek East (FHAD)

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ENGINEERING

In cooperation with:



Project Phases



Phase 1 – Completed in 2020. Urgent rebuild of retaining walls and channel stabilization from 8019 Niagara Way north toward Mineral Ave.

Phase 2 – Replacement of 1,570 linear feet of failing timber retaining walls and stream restoration from Phillips Ave north to Phase 1.

Phase 2 Objectives

**Stabilize the creek
bed with channel
armoring**

**Replace walls with
reinforced slopes
and vegetation**

**Reduce potential for slope
failure and damage to utility
lines and private properties**

Project Constraints and Opportunities

- Corridor is narrow - Avoid encroachment into private properties
 - Avoid exceeding maximum slopes
 - Maintain Floodplain capacity
 - Protect the existing sanitary sewer line and other utilities
 - Maintainable – need to provide a minimum space for maintenance access
 - Limited funding and rising construction costs
 - Permanence: provide a solution with longevity
 - Limiting disturbance and protecting existing vegetation/habitat
-

Design Process

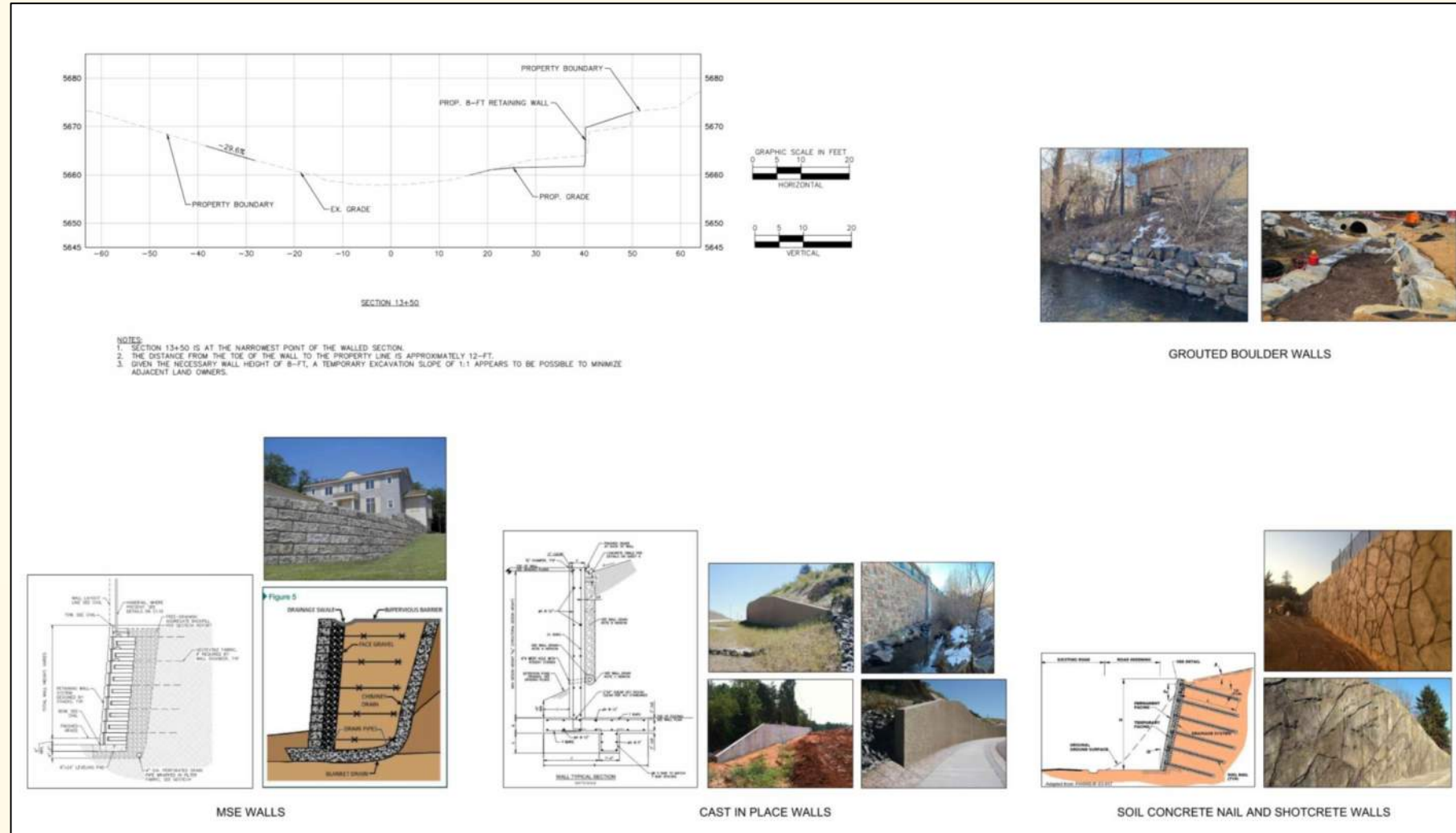
Alternative solutions considered:

- Buried pipe to replace open channel
- Replacement of existing retaining walls
- Tall boulder drop structures

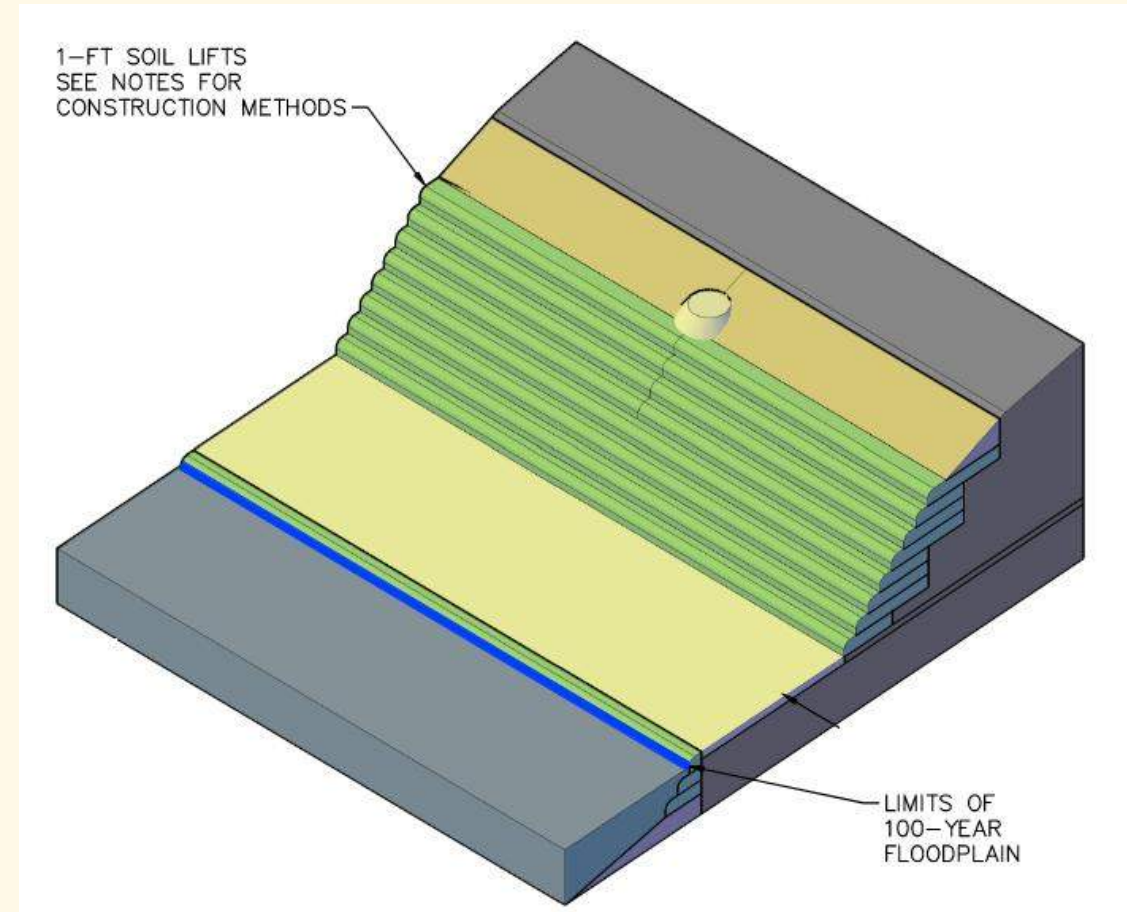
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Retaining Wall Replacement Alternatives

- Mechanically Stabilized Earth
- Cast-in-place Concrete
- Soil Concrete Nail
- Grouted Boulder



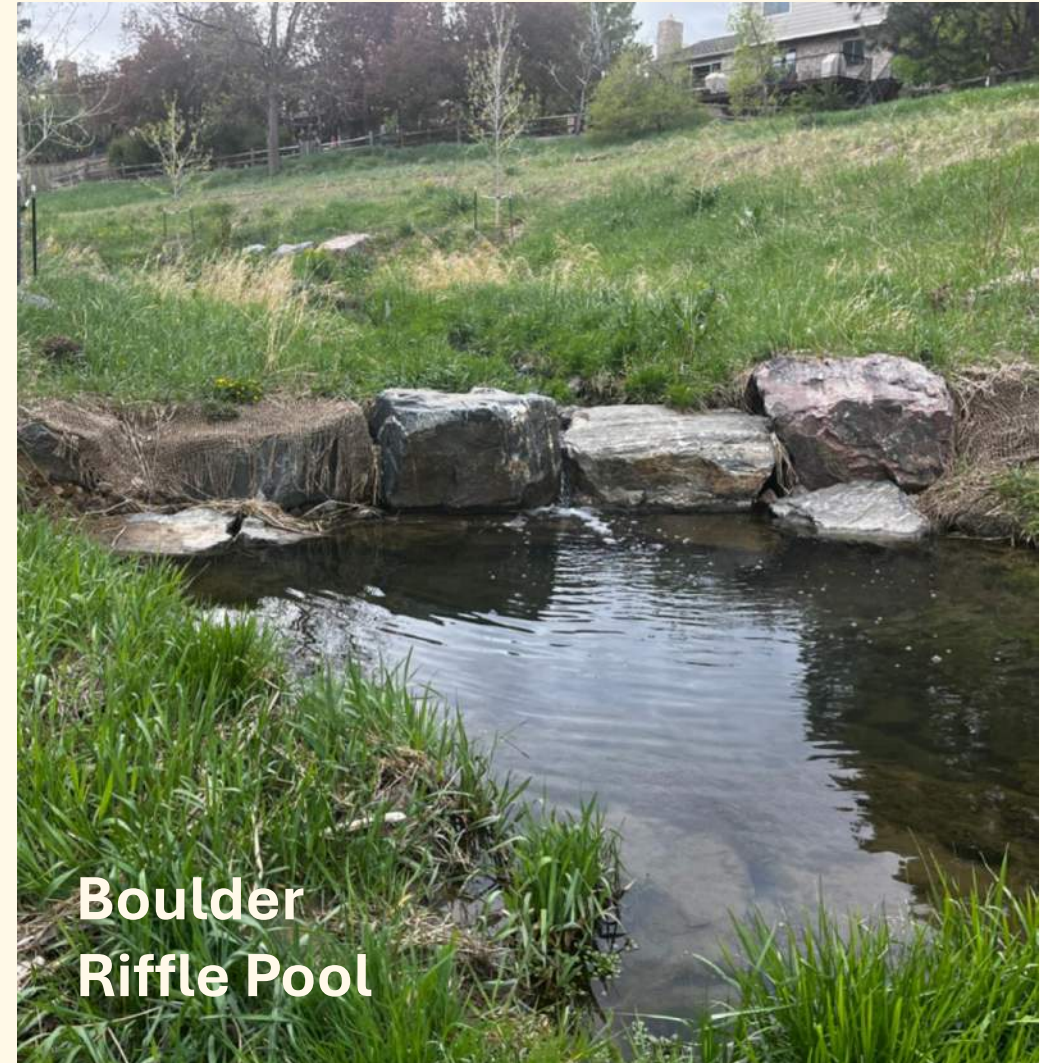
Stabilized Slope Selection



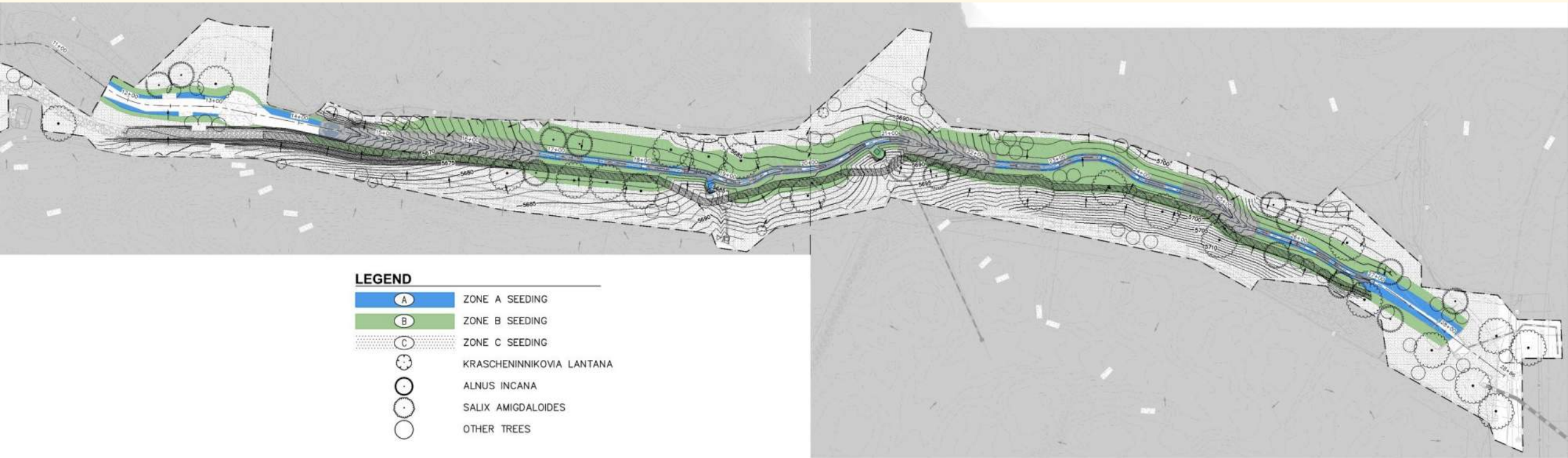
Channel Grade Control Alternatives



Channel Grade Control Selection



Revegetation Plan



Revegetation Planting – Seed mix samples



Swamp milkweed



Nuttall's sunflower



Blue flax



Blue grama



Seed mix results – Wetland, Riparian, Upland zones

Revegetation Planting – Live Plants Samples



Gray alder



Peachleaf willow



Golden currant



Desert false indigo



Wood's rose



Wetland & Upland plugs

3D Rendering – View 1 (looking north from Phillips Ave.)



Existing



Proposed

3D Rendering – View 2 (looking south from Mineral Ave.)



Existing



Proposed

3D Rendering – View 3 (looking south from Monaco Court)



Existing



Proposed

Comparable Recent Project

Big Dry Creek:
Otero Tributary

Centennial, CO



2015



2016



2018



2021



2021



2022



2022



2022



2022



2022



2022



2022



2022



2023



2023

2024



2024

2024



2024



2024



2024



2025



2025



2025



Next Steps

**Complete
Design and Permitting
Fall 2026**

**Construction Start
January 2027**

**Channel Construction
Complete
Summer 2027**

**Revegetation
Fall 2027
(monitoring ongoing)**

Breakout Q&A

