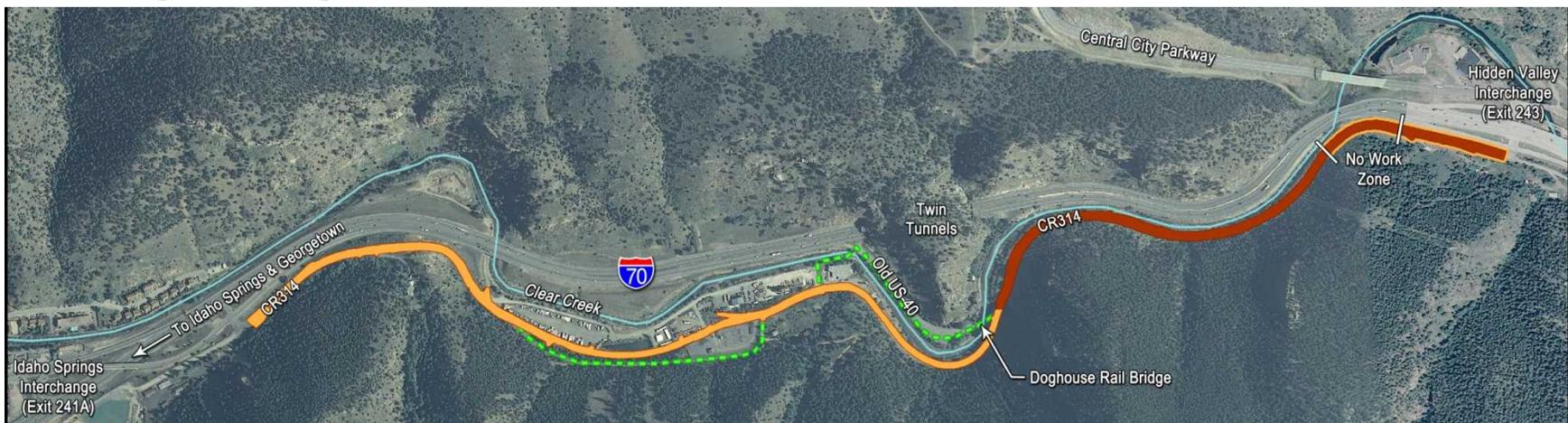


I-70 Frontage Road Improvements

Old US 40 / CR 314

Project Leadership Team / Technical Team Meeting #5
January 31, 2012

Jim Bemelen, I-70 Corridor Manager
David Singer, I-70 Corridor Env. Manager
Benjamin Acimovic, Project Manager
Janet Gerak, Project Env. Manager



Agenda

9:05 Agenda Review, Process and Updates

9:15 Wall Concepts / Visuals

10:15 Construction Closure / Detour

10:45 Other Issues

11:15 Next Steps

Step 1
Define Desired Outcomes and Actions

Step 2
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Step 6
Finalize Documentation and Evaluation Process

Process Overview

- **Categorical Exclusion for frontage road improvements east of Idaho Springs to Hidden Valley**

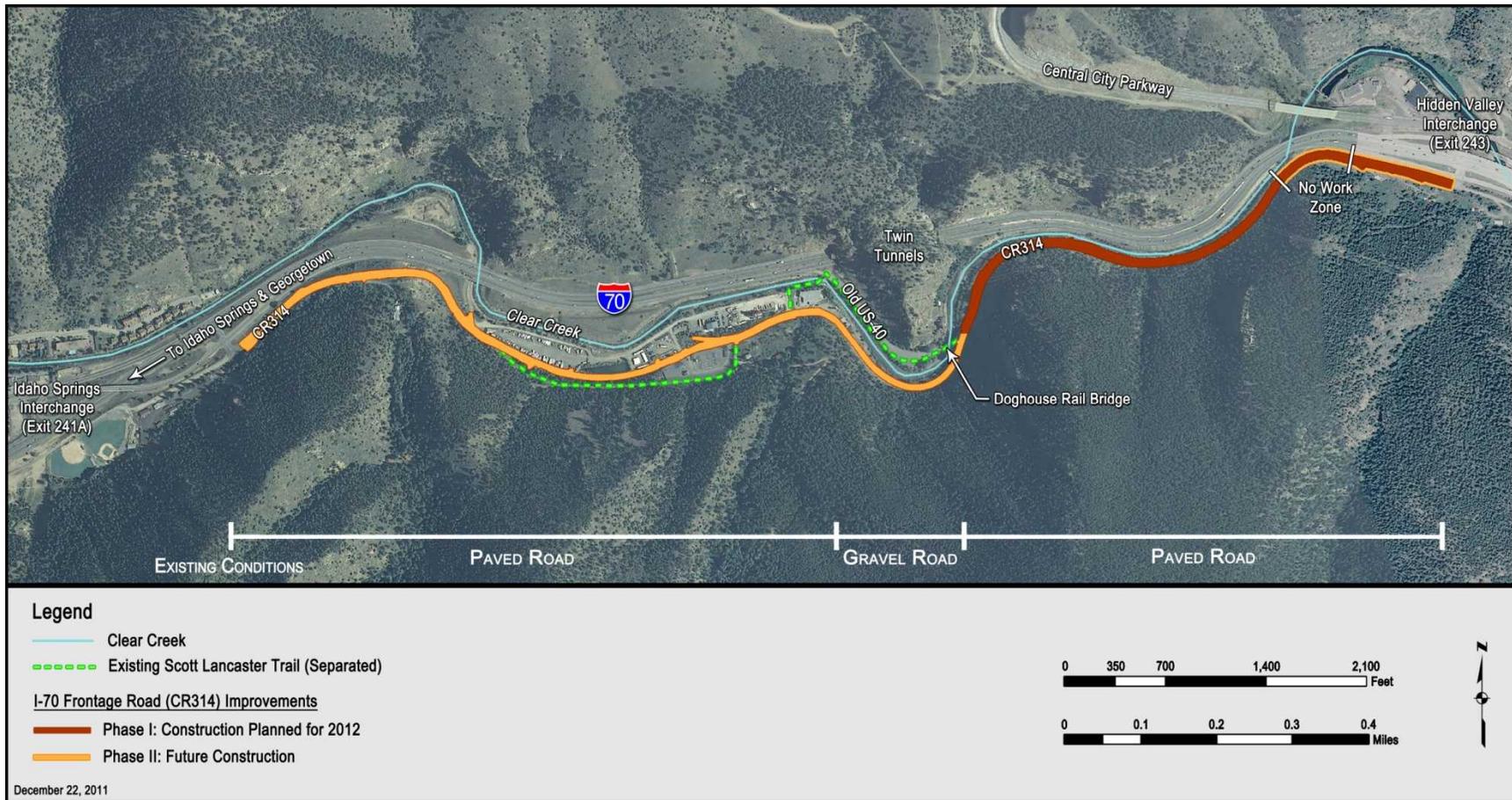
- **Project Schedule**

| | |
|---------------------------------------|---------------------------|
| – PLT/TT Meeting #1 | August 31, 2011 |
| – Scoping | September 7, 2011 |
| – PLT/TT Meeting #2 | October 26, 2011 |
| – PLT/TT Meeting #2.5 | November 1, 2011 |
| – Greenway ITF | November 22, 2011 |
| – Field Inspection Review | December 1, 2011 |
| – Clear Creek Board meeting review | December 12, 2011 |
| – PLT/TT Meeting #3 | December 15, 2011 |
| – Engineering Coordination meeting | December 21, 2011 |
| – PLT/TT Meeting #4 | January 18, 2012 |
| – SWEEP Meeting #3 | January 19, 2012 |
| – ALIVE Meeting #2 | January 20, 2012 |
| – PLT/TT Meeting #5 | January 31, 2012 |
| – Idaho Springs City Council | February 13, 2012 |
| – Section 106 PLT Meeting #2 | February 16, 2012 |
| – Rafting Company Coordination | TBD |
| – PLT/TT Meeting #6 | TBD |
| – Final Office Review | March 2012 |
| – Ad date for Phase I | April 2012 |
| – Construction of Phase I | Summer / Fall 2012 |

- **Anticipating \$6.25M project budget - for design and construction**



Endorsed CE Study Area



Endorsed Phase I Construction



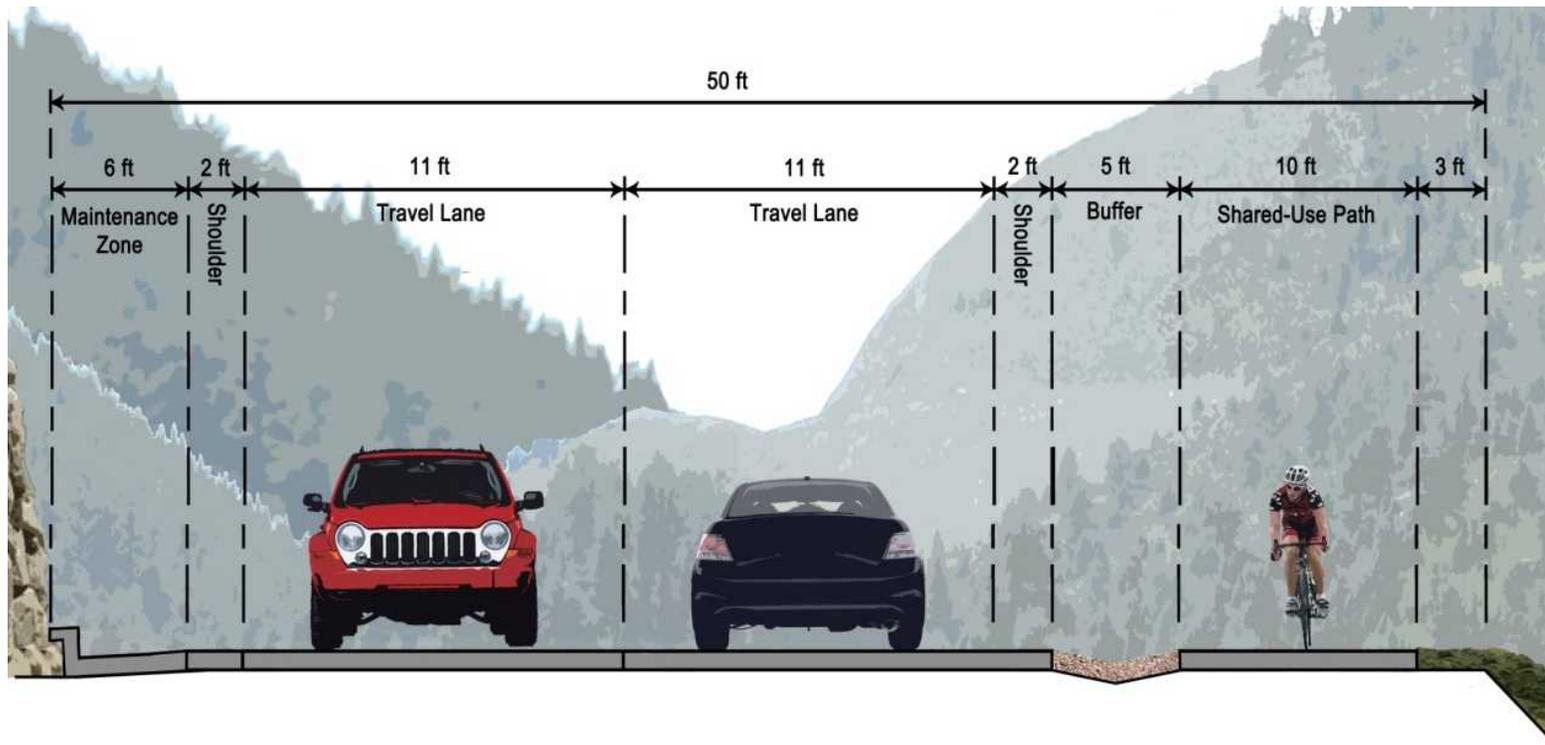
Legend

- Clear Creek
- - - Existing Scott Lancaster Trail (Separated)

I-70 Frontage Road (CR314) Improvements

- Phase I: Construction Planned for 2012
- Phase II: Future Construction

Endorsed Phase I cross section



Updates

- SWEEP Meeting #3 January 19 2012
- ALIVE Meeting #2 January 20 2012
- Response to Clear Creek County Dec 14 letter
- Other meetings
 - Idaho Springs City Council - February 13
 - 106 – February 16



PLT Decisions/Endorsements

- Phase I Cross Section
- Cut side wall system, dimension, tiering, aesthetics
- Type 10 guardrail and trail rail treatment
- Parking area dimension
- Crosswalk design at end of separated path – no street light
- Section at Bell property
- Traffic control during construction

Agenda

9:05 Agenda Review, Process and Updates

9:15 Wall Concepts / Visuals

- **Geotech information: what we expected vs what we learned**
- **Location and view map**
- **Renderings: Rockery and shotcrete criteria, tiering, treatments, I-70 walls**

10:15 Construction Closure/Detour

10:45 Other Issues

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Geotech Findings

- Rockery system works with slopes 2:1 or flatter
- Difference between rockery system vs. rockery treatment
- With correct treatment a soil nail wall can look like a rockery wall
- May still need to tier walls

West wall locations



I-70 Twin Tunnels and Frontage Road Walls

Sheet 1 of 2

Legend

Wall Height

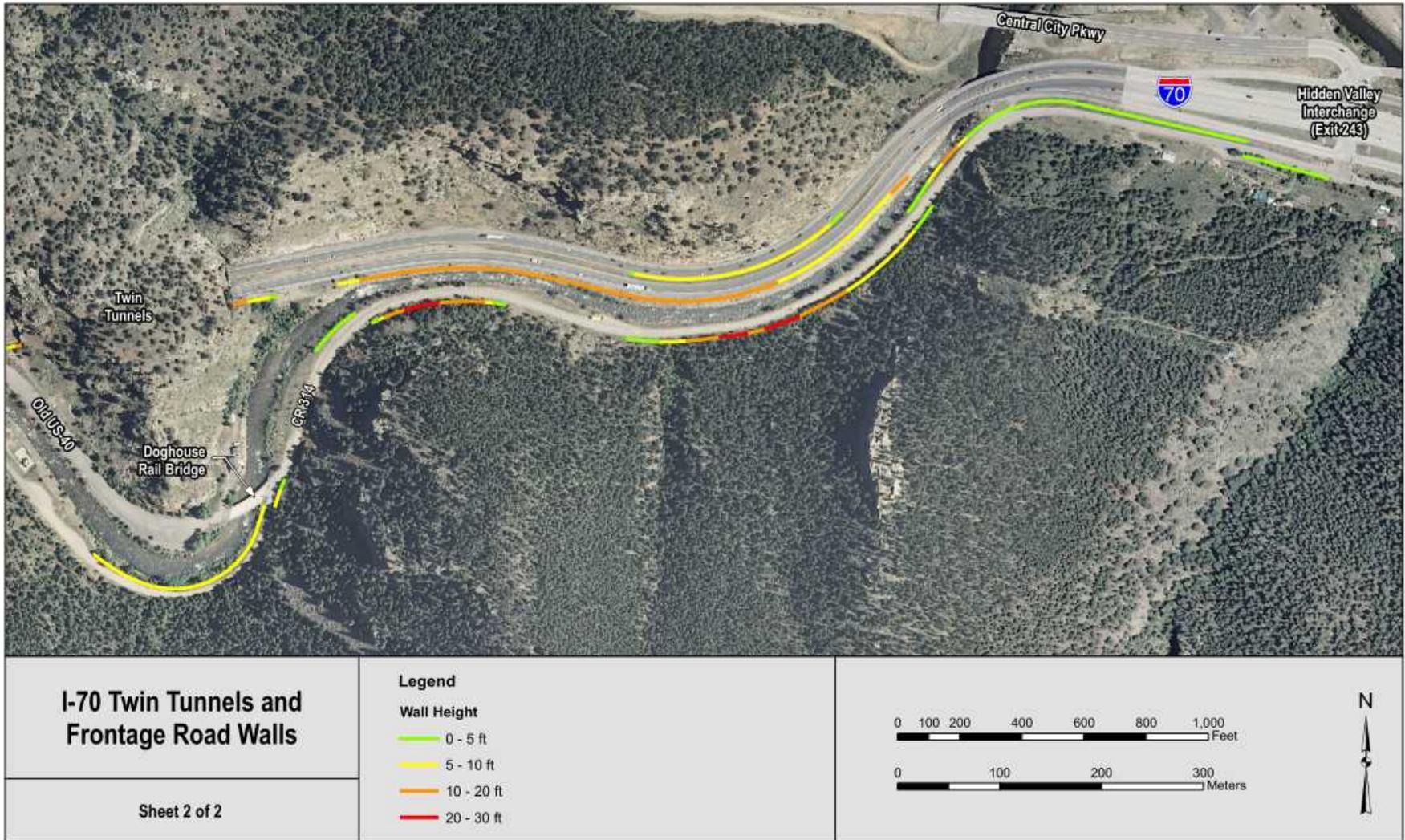
- 0 - 5 ft
- 5 - 10 ft
- 10 - 20 ft
- 20 - 30 ft

0 100 200 400 600 800 1,000 Feet

0 100 200 300 Meters



East wall locations



Wall Design - Rockery

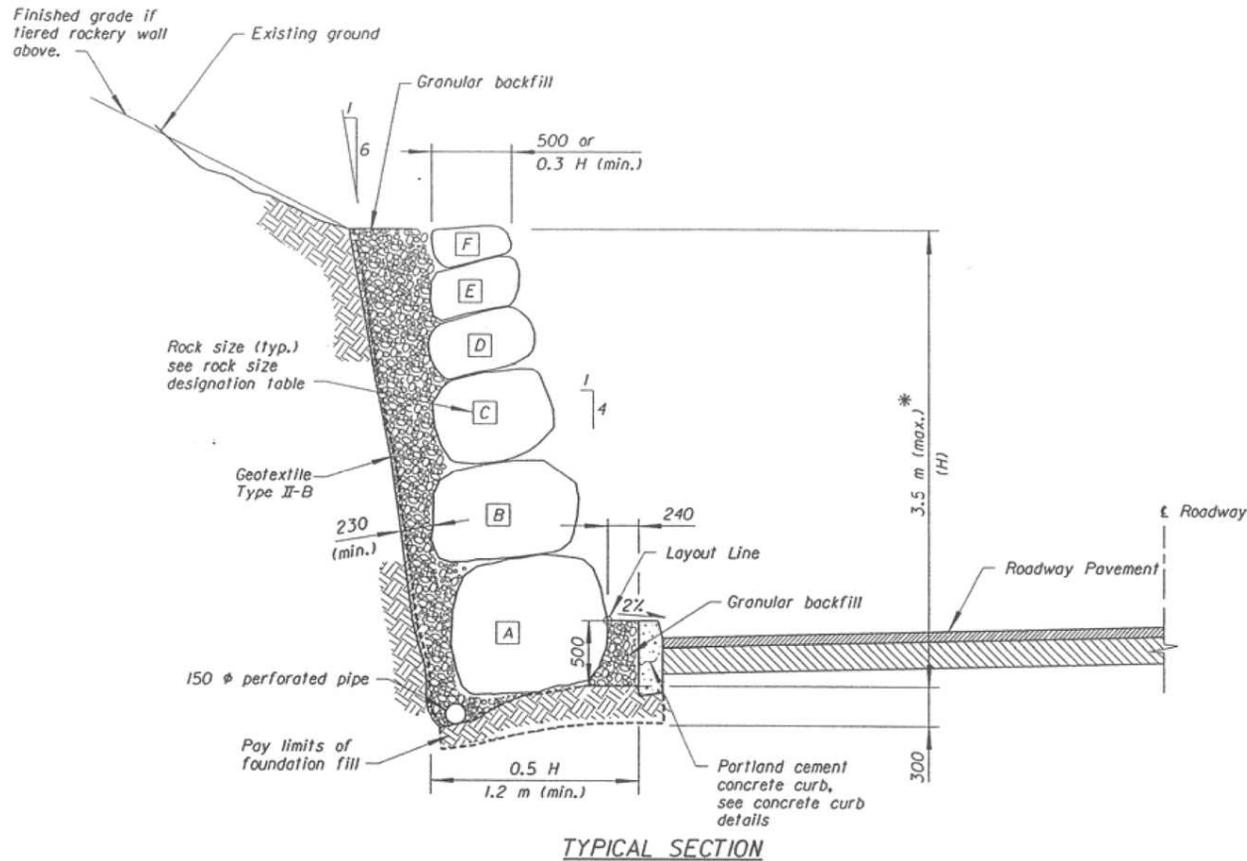
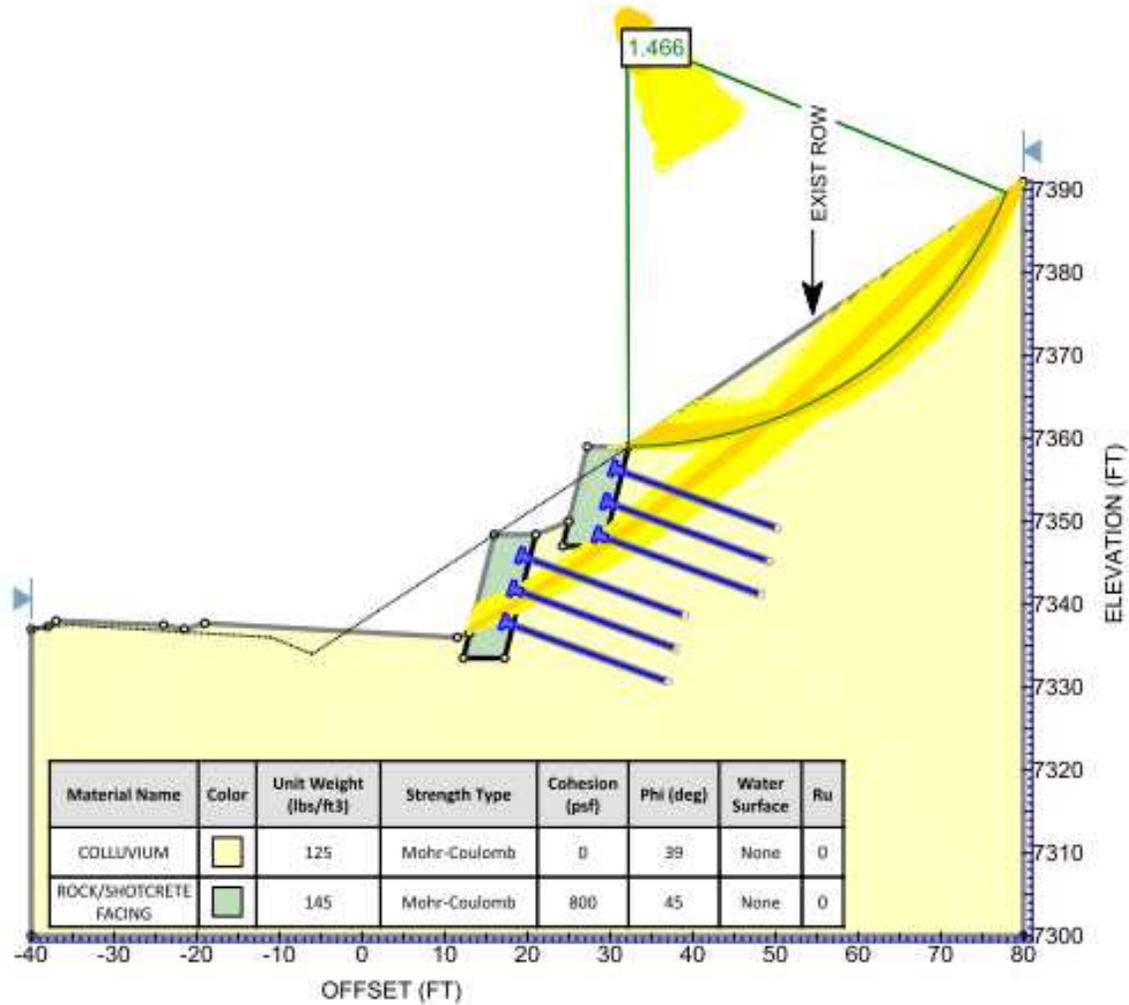
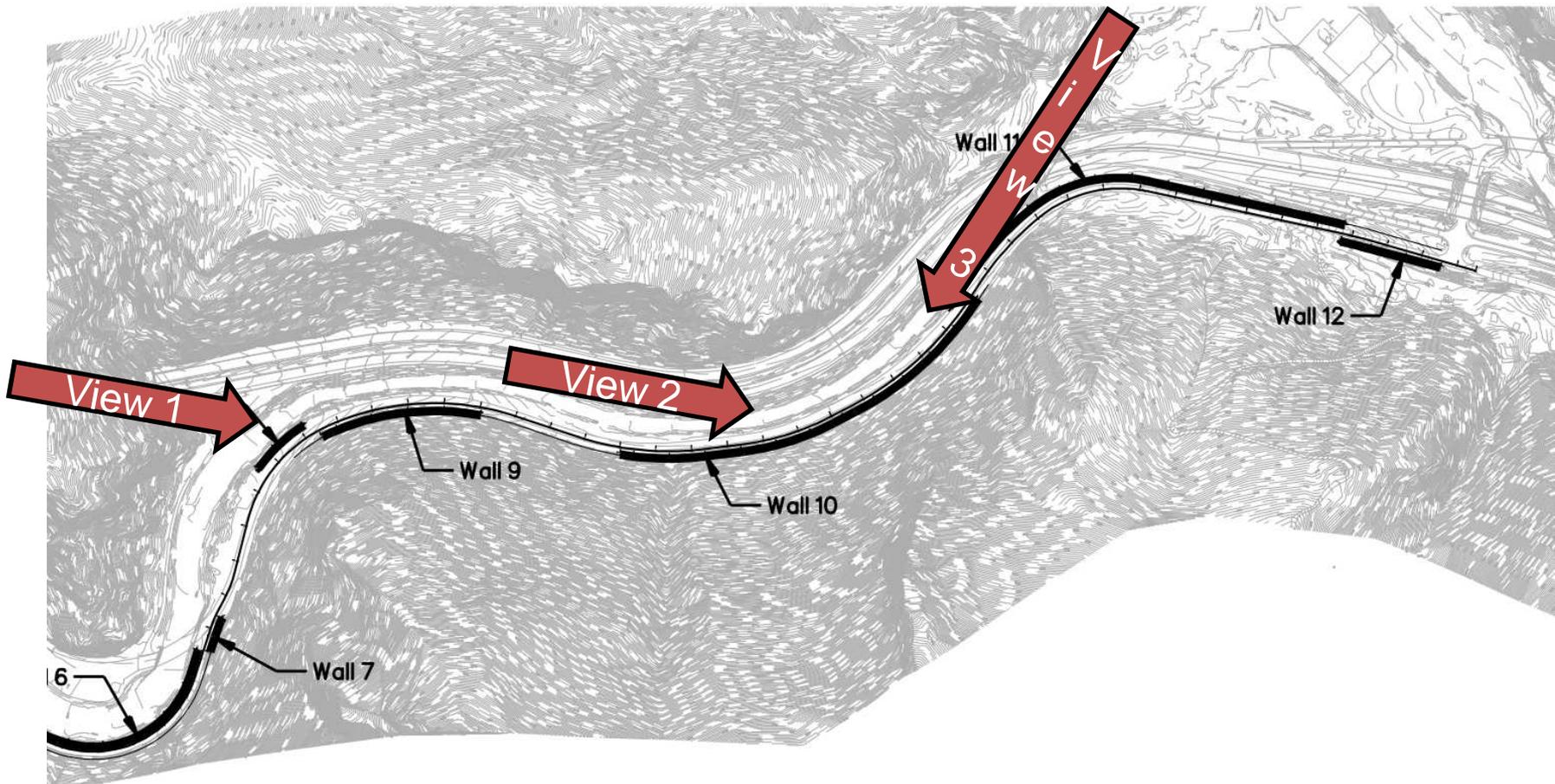


Figure 6. Graphic. Typical rockery section from Guanella Pass bid documents.

Wall Design - Soil Nail



Phase I Wall Views



Wall View 1 - Existing



Wall View 1 - Tiered



Wall View 1 – Single Wall



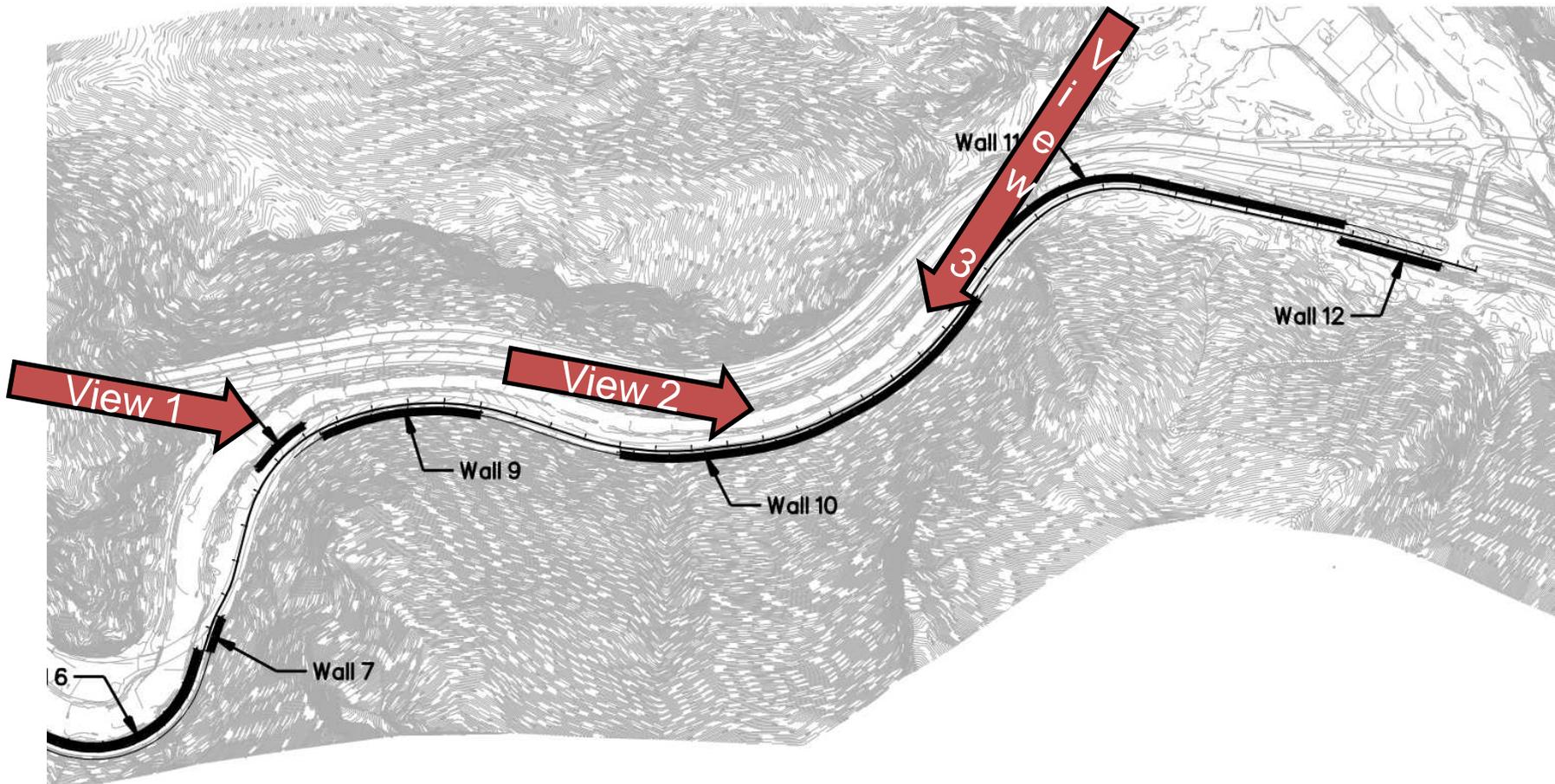
Wall View 1 – Rockery with I-70 fill wall



Wall View 1 – Trail Rail zoom in



Phase I Wall Views



Wall View 2 - Existing



Wall View 2 – Tiered Walls



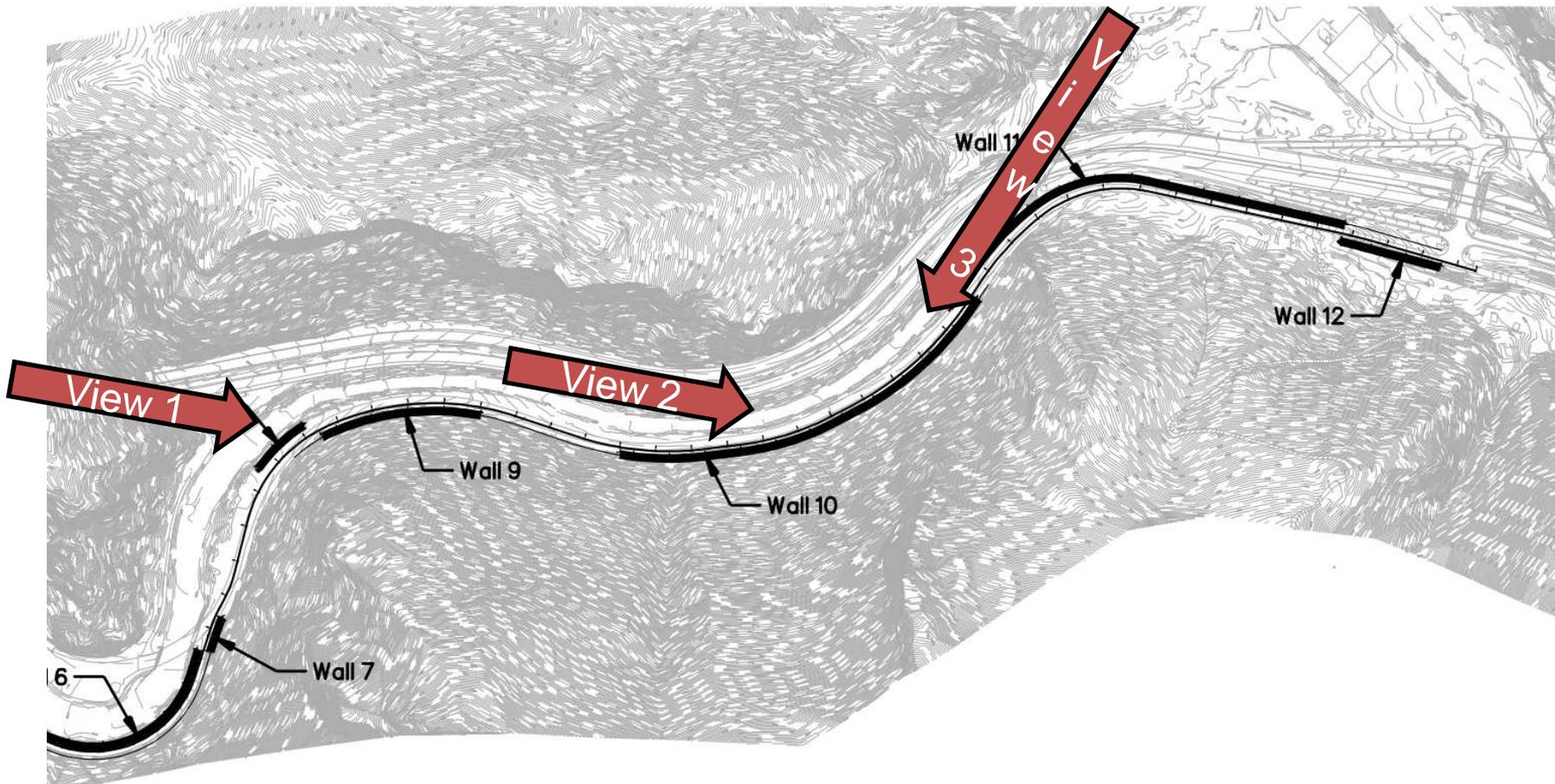
Wall View 2 – Single Wall



Wall View 2 – Rockery facade



Phase I Wall Views



Wall View 3 - Existing



Wall View 3 – Rockery facade



Wall View 3 – Rockery with I-70 wall

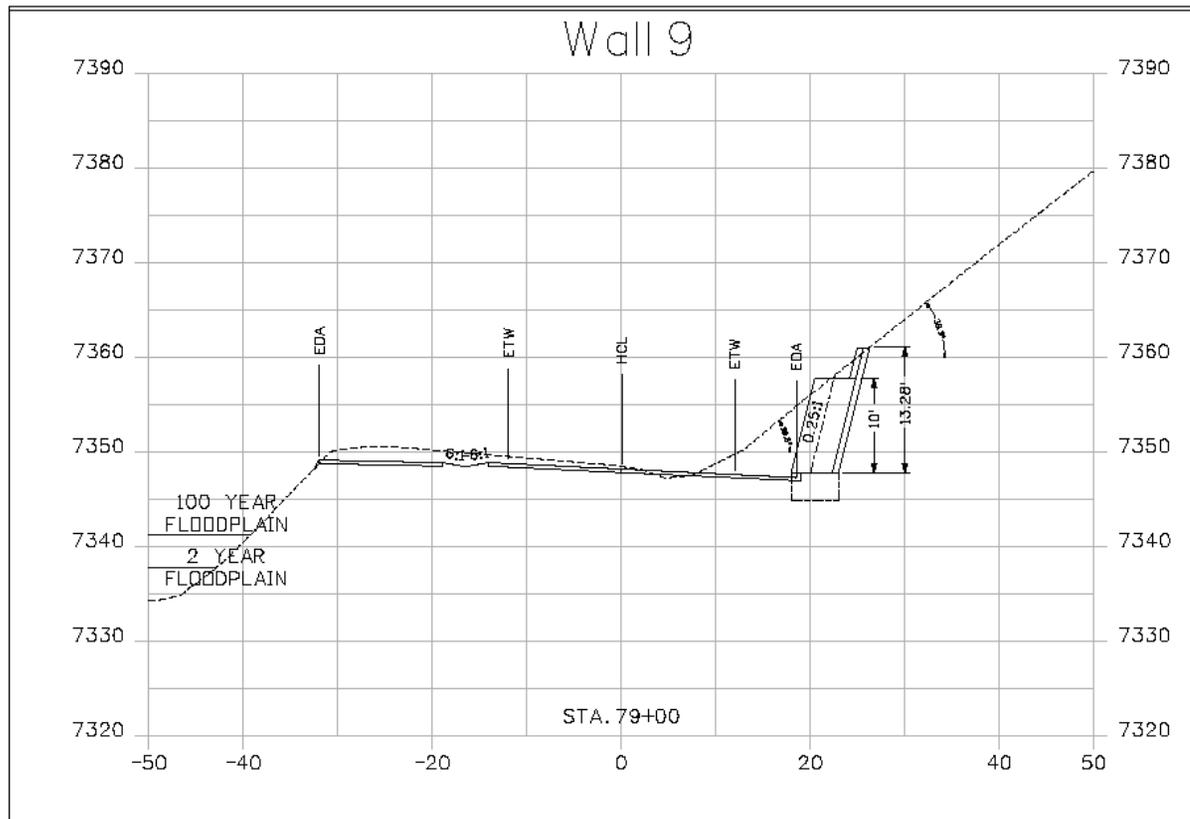


31/2012

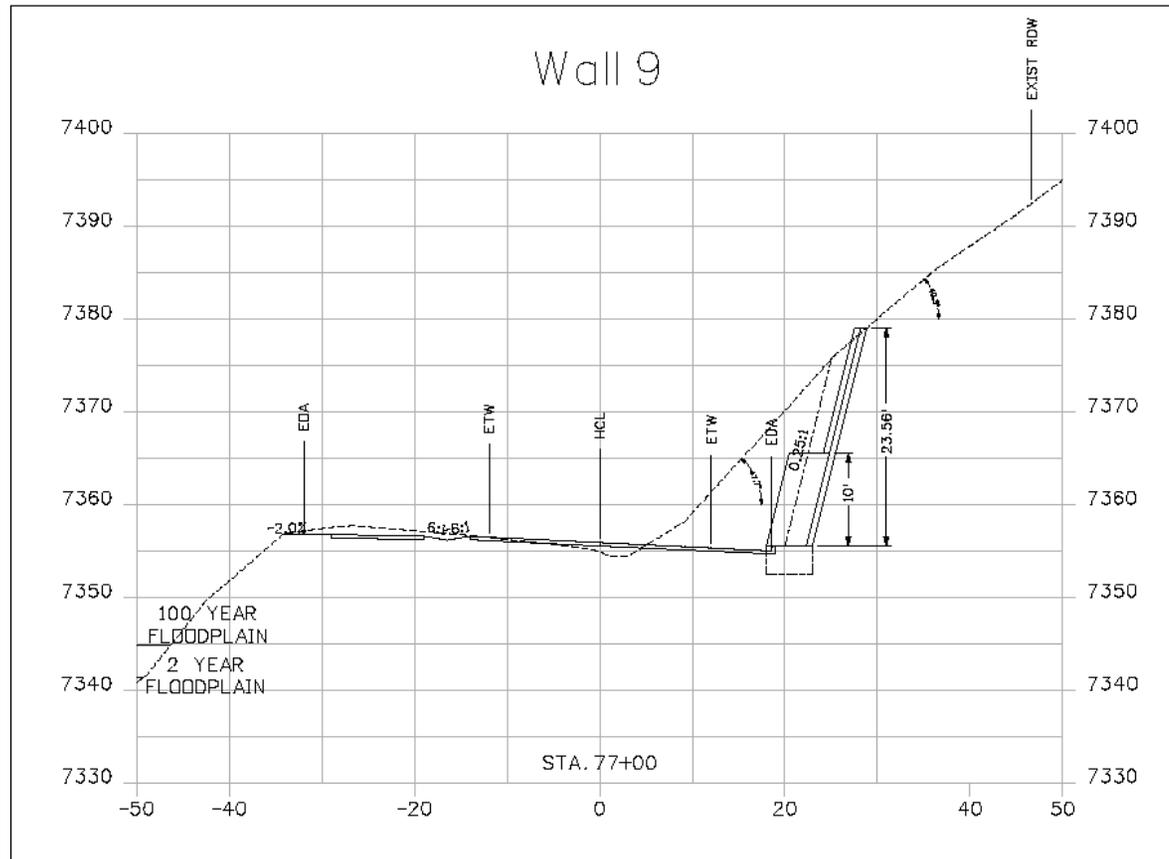
CCC Recommendations

- Cut walls less than 10 feet high
- Cut walls 10 feet or higher
- Fill Walls
- Street light at pedestrian crossing

Cut Wall >10'



Cut Wall >10'



Agenda

9:05 Agenda Review, Process and Updates

9:15 Wall Concepts / Visuals

10:15 Construction Closure/Detour

- Rafting company responses
- Idaho Springs needs

10:45 Other Issues

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Rafting Company Coordination

- Rafting mid-May to mid-September
- Trips primarily run 8:30 AM to 6:00 PM
- Highest volumes: July 4, and mid-Aug
- Light use of frontage road
- Common safety protocols
- Detour coordination meeting requested



Agenda

9:05 Agenda Review, Process and Updates

9:15 Wall Concepts / Visuals

10:15 Construction Closure/Detour

10:45 Other Issues

- East Section Clarification
- Trail crossing light
- Discuss extension of Greenway Trail under I-70 bridges
- Twin Tunnels detour concepts
- FOR distribution at PLT #5

11:15 Next Steps

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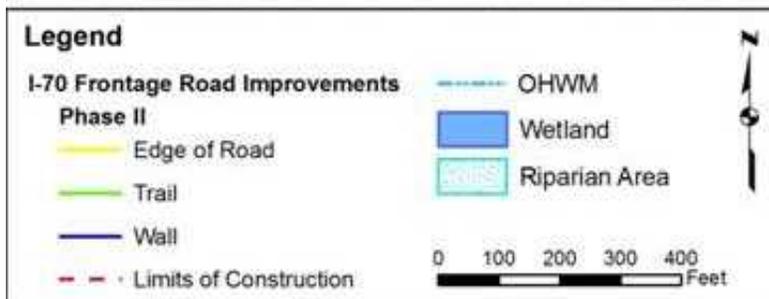


East Section at Bell property

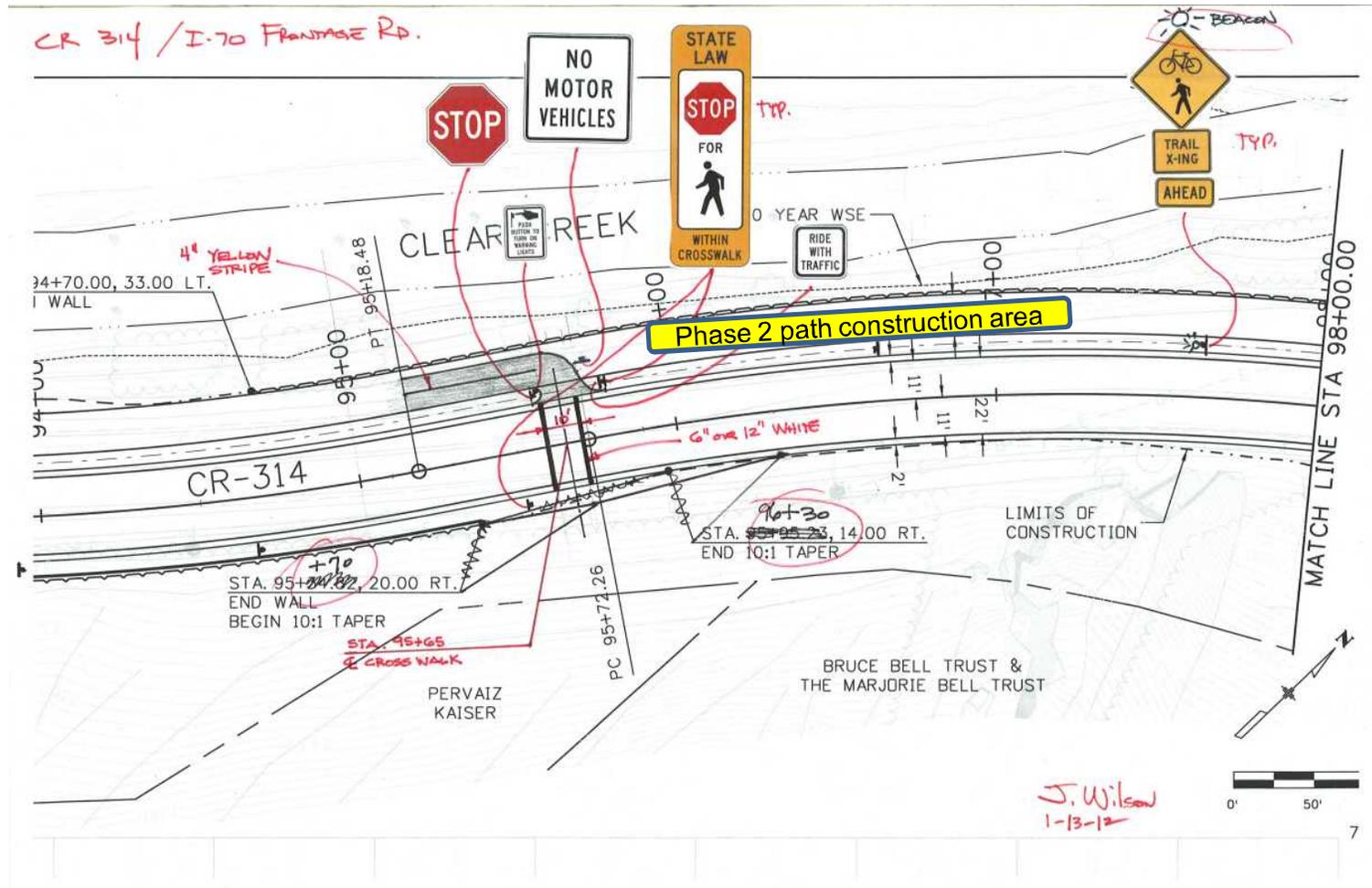
Phase I - overlay



Phase II – Walls and trail



Refinements: Trail Crossing Area



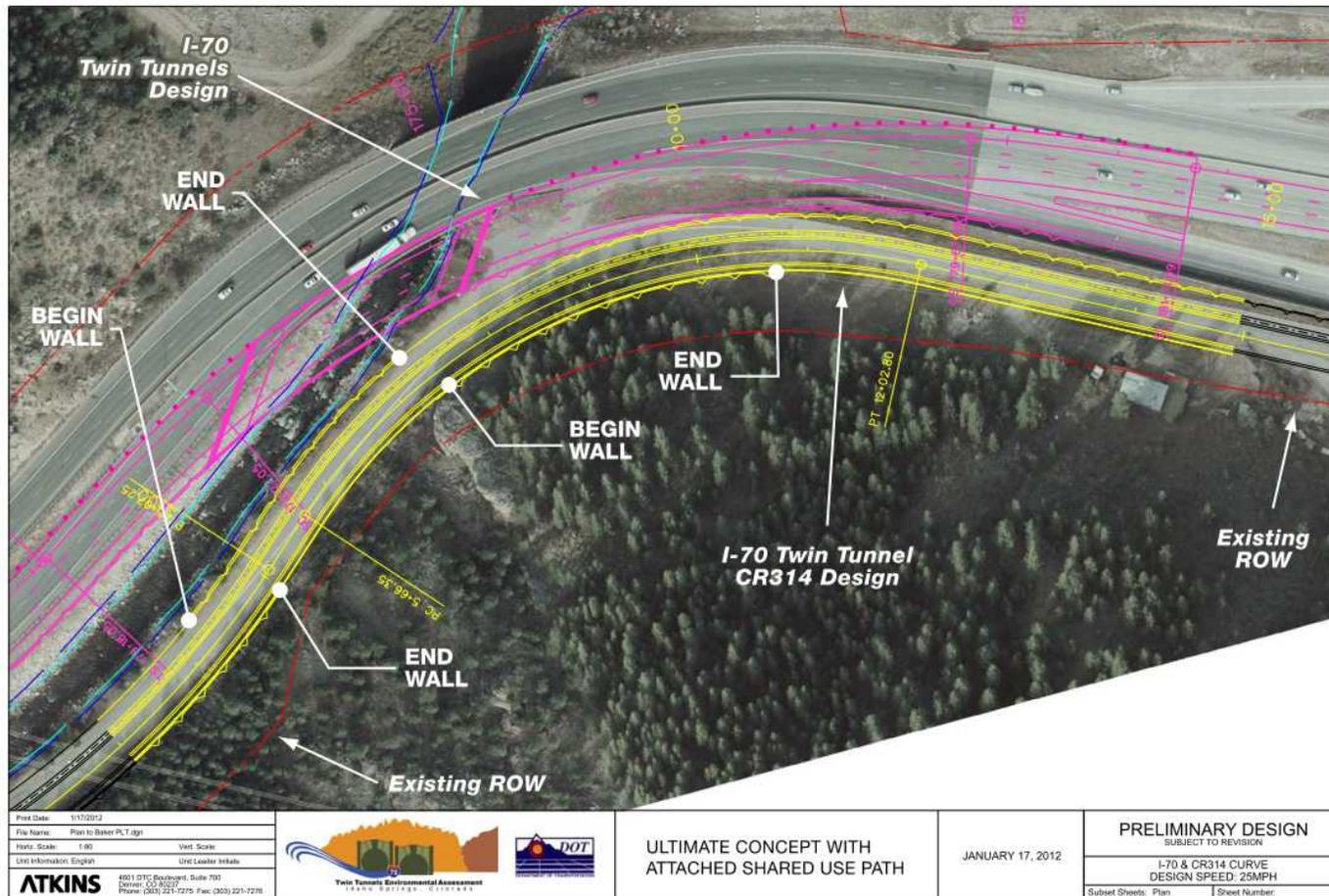
Extension of Greenway Trail



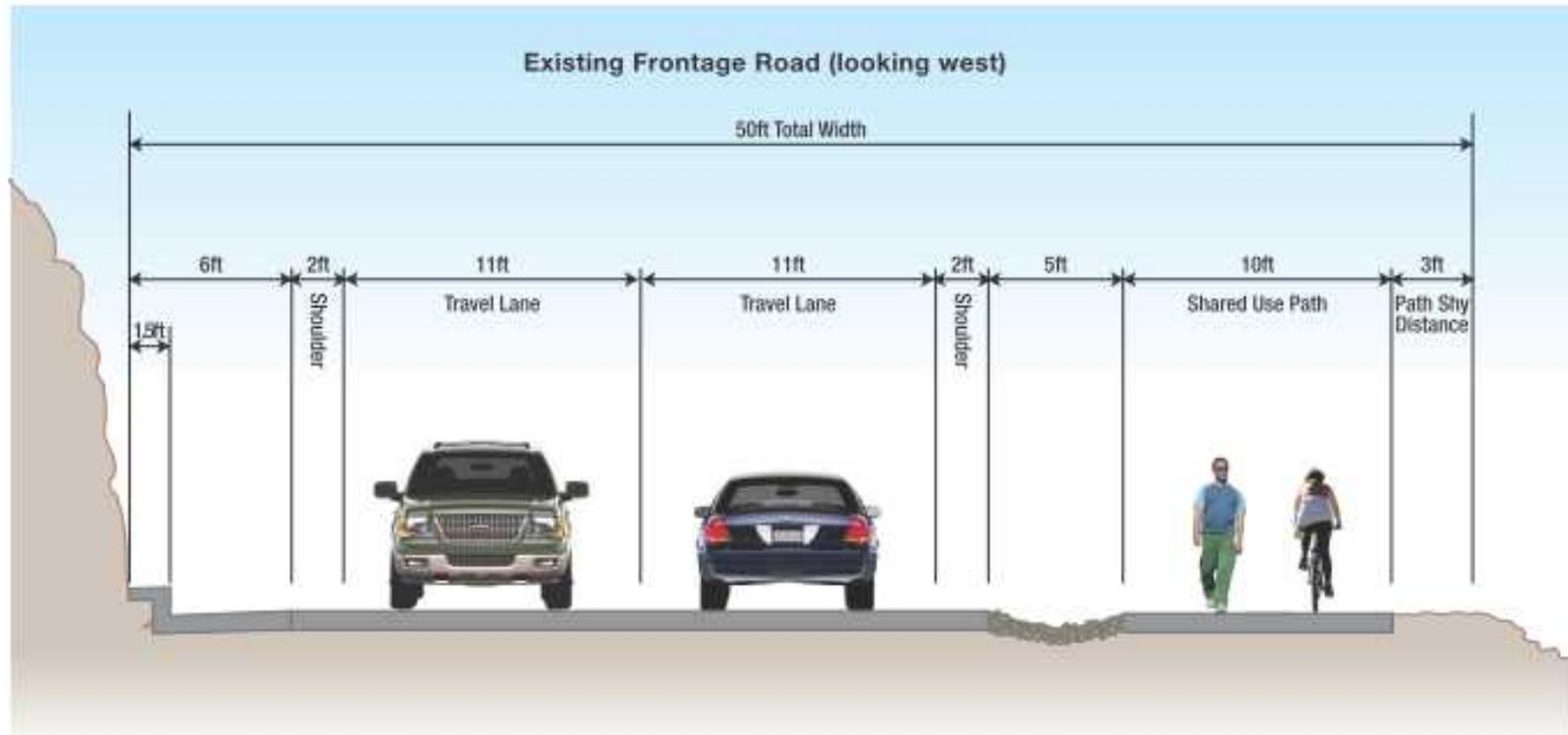
Items to be addressed by Twin Tunnels Team

- Impacts of I-70 bridge reconstruction
- Detour construction details
- Guard rail adjustments
- Buffer seeding/restoration

Potential I-70 bridge reconstruction

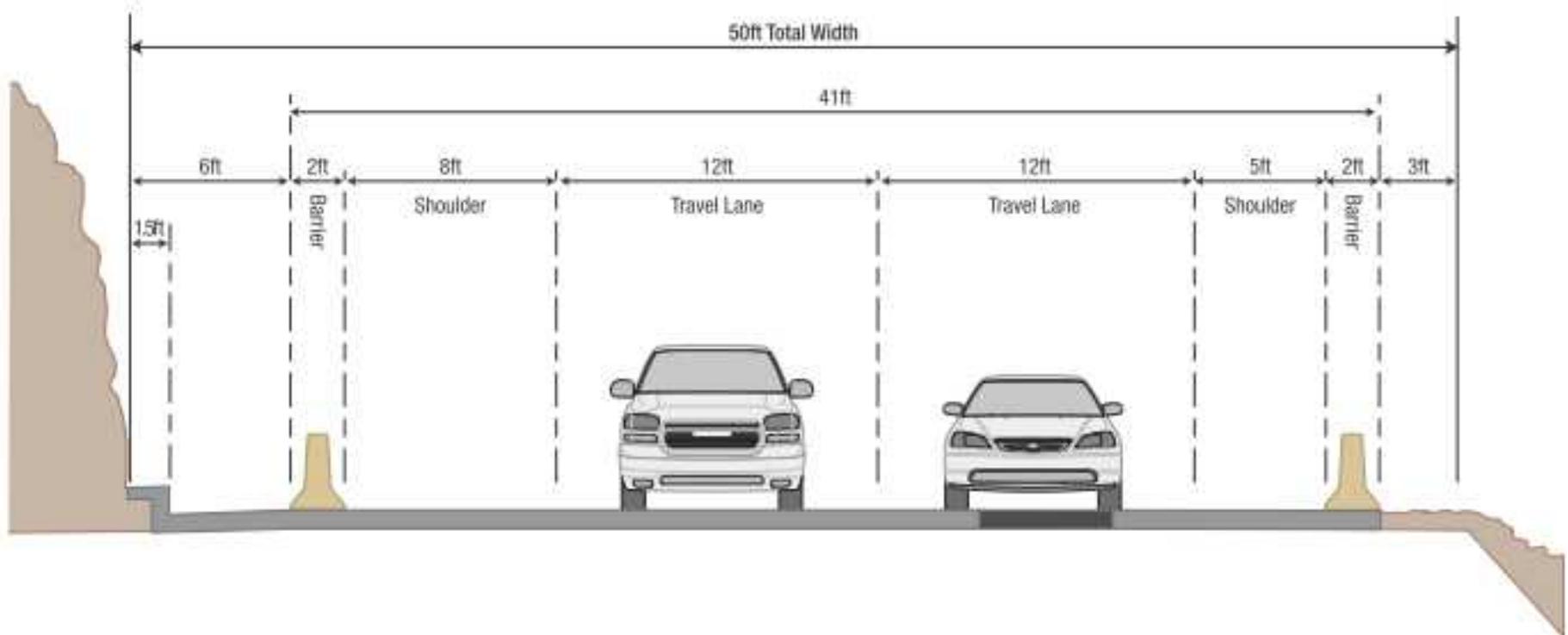


Twin Tunnel (post phase I) existing condition



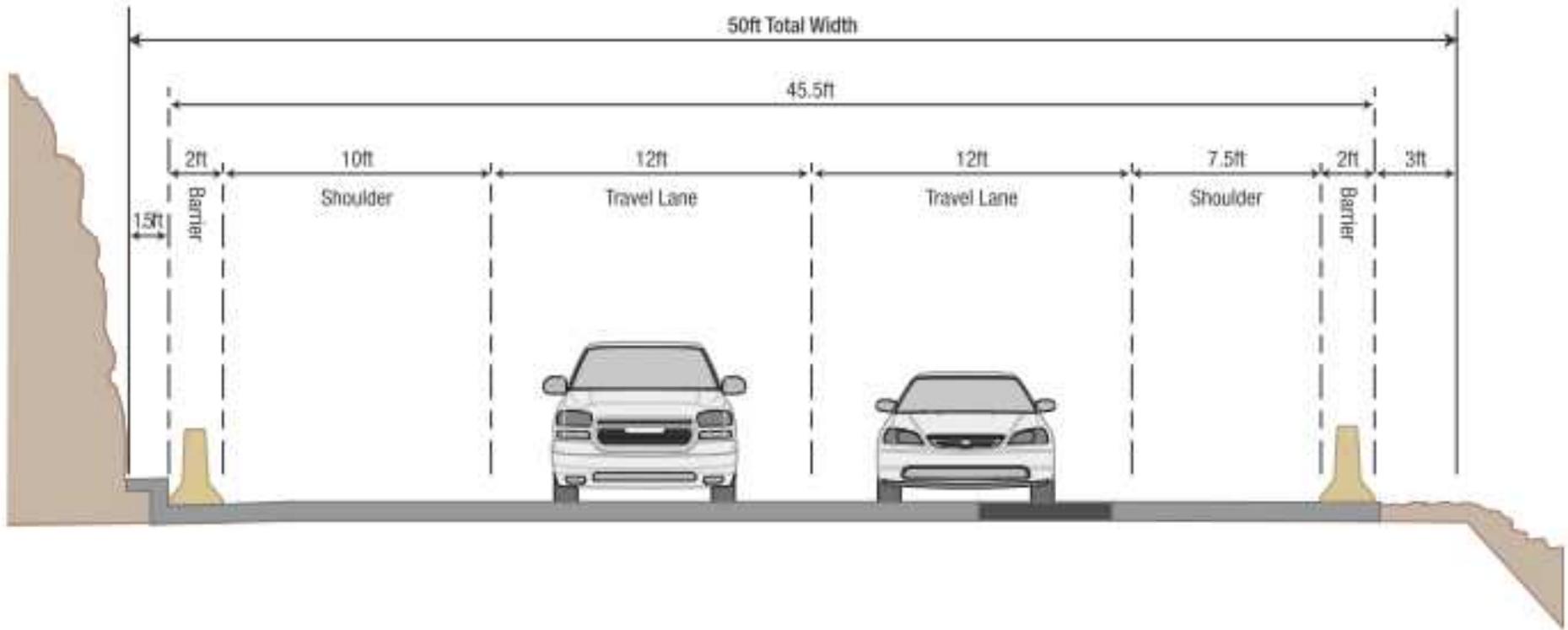
Twin Tunnel Team proposed detour cross sections: without path - option 1

I-70 Detour without Multi-Use Path (looking west) - Option 1



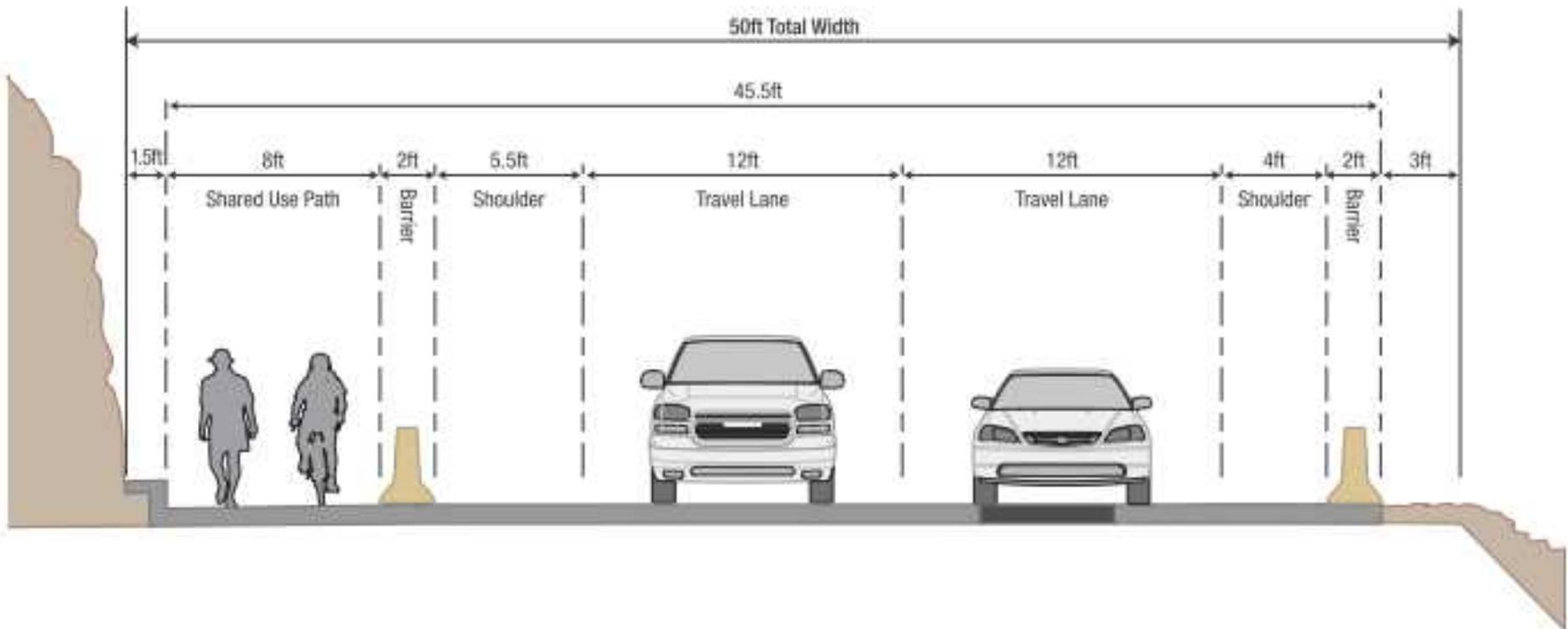
Twin Tunnel Team proposed detour cross sections: without path – option 2

I-70 Detour without Multi-Use Path (looking west) - Option 2



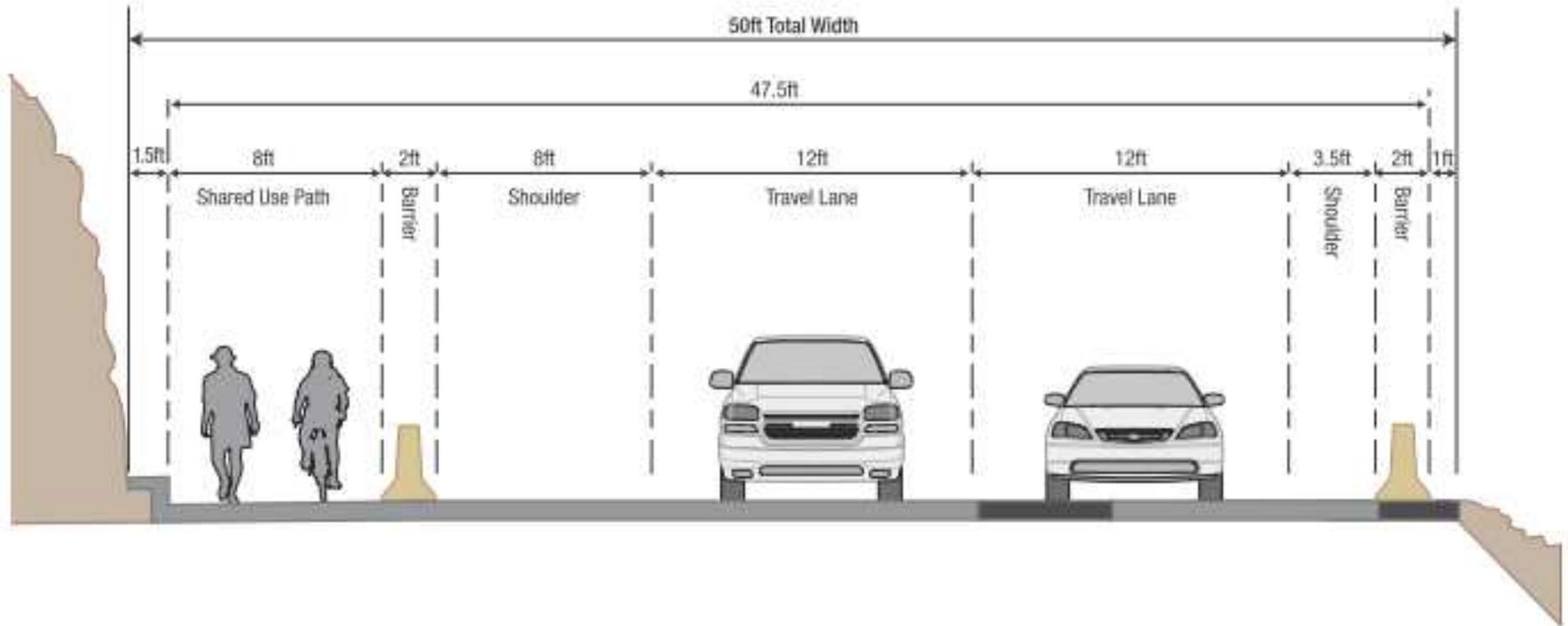
Twin Tunnel Team proposed detour cross sections: with path - option 1

I-70 Detour with Multi-Use Path (looking west) - Option 1



Twin Tunnel Team proposed detour cross sections: with path – option 2

I-70 Detour with Multi-Use Path (looking west) - Option 2



FOR Distribution List plan

- CDOT Personnel – Electronic submittal
- Posted on CDOT website
- Clear Creek County (Delivered to Georgetown Courthouse)
 - Eight 11x17 copies of plans
 - Eight copies of specifications
- City of Idaho Springs (Delivered to Idaho Springs City Hall)
 - Five 11x17 copies of plans
 - Five copies of specifications

Next Steps

- Idaho Springs City Council - February 13
- Rafting company coordination meeting
- PLT/TT Future Meetings TBD
- Final Office Review
 - March 2012