



## Floyd Hill Design - Technical Team

### Meeting Summary

November 11, 2022, 9 AM to 12:00 PM

CDOT Golden Office – Lookout Mountain Conference Room and Virtual (Zoom)

#### 1. Introductions, Meeting Purpose and Project Updates

CDR Associates opened the meeting and reviewed the agenda.

The purpose of the meeting was to discuss:

- Project Updates
- *Confirm* Roadway Integral Components:
  - Shade Studies
  - Sound Wall Renderings
- *Discuss* Roadway Integral Components:
  - East Section Retaining Wall Aesthetics
  - East Section Rock Treatment Aesthetics
- *Introduce* Roadway Integral Components
  - East Section Drainage Elements
  - Update on East Section Signing
- Next TT Agenda & Next Steps

TT members confirmed the meeting agenda with no changes.

#### 2. Project Updates

- Idaho Springs presentation
  - Scheduled for City Council meeting on 11/14
  - Comparison of PA '21 and RPA '22, highlight key improvements
  - City Council meetings are open to the public
- ASCE American Society of Civil Engineers
  - Next Wednesday 11/16
  - CDOT and Atkins representatives to present on the project
- Updated [website](#)
  - Lumen Models of RPA '22
  - FONSI and EA status updates
  - Additional updates including a new section for Monthly Updates which currently highlight that the **Genesee Wildlife Crossing** construction has



begun and the construction of the **US 40 Roundabout** will begin in early Dec.

- **TT Comment:** In regards to the postcard that was sent to community members, the image is not consistent with Lumen Models.
- **Project Team Response:** Yes, there was a rendering issue where the trail was labeled as US 40. If other concerned community members reach out, point them to the rendering online for more correct images.
- **TT Question:** Is there any information being disseminated to the public about how to navigate the roundabouts during construction?
- **Project Team Response:** The website update includes the only information shared so far. We can put together a postcard or flier to provide more info on what to expect during the phases of the roundabout construction.

**ACTION:** CDOT to communicate with local residents about navigating roundabout construction.

- **TT Question:** Does construction consider the sun glare closures?
- **Project Team Response:** Yes, that is considered.
- **TT Comment:** Community members had questions about language used in the recently distributed postcard. The post card uses the NEPA term FONSI: finding of no significant impact. Community members were confused by this because it will have a significant impact on this area.
- **Project Team Response:** That is understandable, we felt that the public information is a large part of the NEPA process and needed to include the terminology. We could add a reference to the website for more detailed explanation and term definitions.

**ACTION:** CDOT to create an FAQ section on the website to address common questions such as those around the NEPA language.

- **TT Question:** Who received postcards?
- **Project Team Response:** ~5,000 interested parties that registered for updates



### 3. Confirm Roadway Integral Components

#### Sound Wall & Shade Studies

THK incorporated input on the sound wall renderings from the last meeting and have changed the color and texture of wall material.

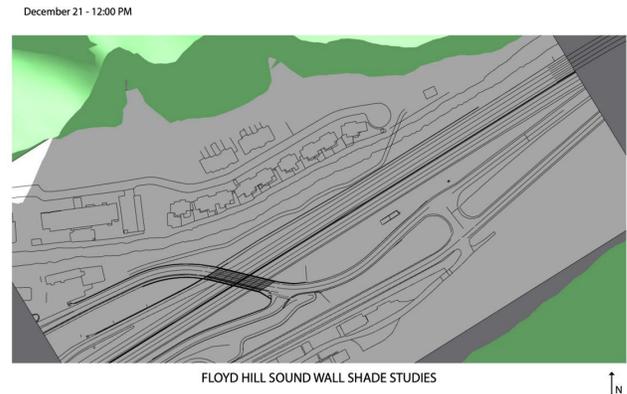
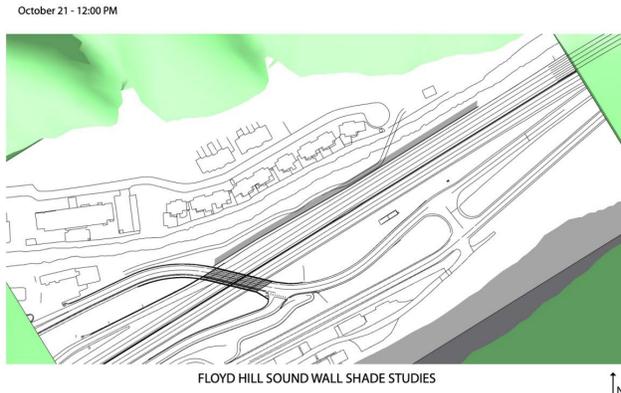


**TT Agreement:** The group agreed that they liked this revised rendering of the Sound Wall much better.

The next step for the Sound Wall is to share the images with Idaho Springs residents for comments. TT members not in attendance will need to be included in the final decision to use the revised renderings for this public outreach.

**ACTION:** Affirm decision to share these Sound Wall renderings with the Idaho Springs community with key TT members not in attendance at this meeting.

Additionally, THK created shade studies to address a question from last meeting around shade from the Sound Wall impacting the Greenway Trail. (Examples of renderings below, all renderings can be found in the meeting slides.)



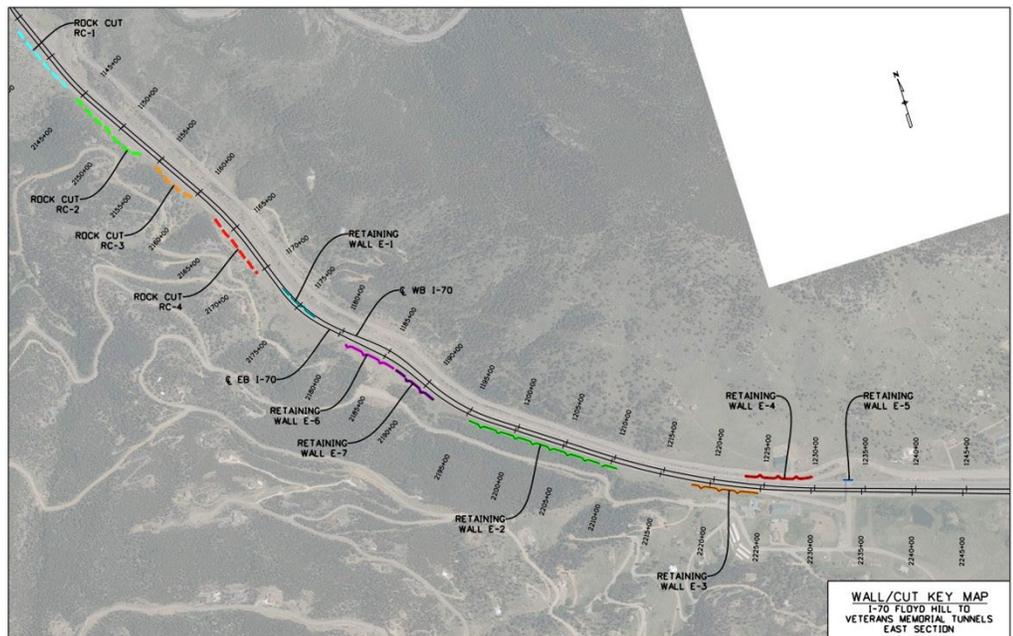
The renderings show that shade from the Sound Wall is negligible through most of the winter months due to the large shadow of the Mountain. During Oct, Feb, and March, the wall shades more of the trail than would be shaded by Mountain shadow. Regardless of the Sound Wall, a long term maintenance plan will be necessary to ensure ice is not an issue on this section of the trail.

- **TT Question:** Will we include these renderings in the community survey?
- **Project Team Response:** We will need the input from TT members not in attendance today to make that final decision.

#### 4. Discuss Roadway Integral Components

##### East Section Retaining Wall & Rock Treatment Aesthetics

The project team presented updates on the Walls and Rock Cuts in the East Section and asked TT members to think about what consistent aesthetic is desired and reach consensus on that decision.





Renderings for walls and rock cuts from West to East for this Section.

### RC-2 and RC-3



The Project Team described the options for the rock cut sections RC-2 and RC-3. These include a direct vertical cut with stabilization (a wall) or a rock cut that would lay back at a 30 degree slope to avoid risk of failure. The engineers recommended the vertical rock cut with a structural support wall at the base to ensure stability. The rock cut that would lay back 30 degrees would remove slope vegetation and potentially destabilize the road above that slope.

**TT Decision:** In consideration of the Construction Team's recommendation, the TT confirms the decision to pursue vertical rock cuts with stabilization walls for RC-1, 2, 3, and 4.

Additional updates were shared regarding Walls E5, E6 and E7. After further examination, Walls E6, and E7, will only require dirt excavation, no longer walls. Wall E5 has been removed from the plan.

**ACTION:** Project Team to update Walls and Rock Cuts on Key Map to reflect current understanding.



Median wall E1 (Consistent with existing aesthetics of other medians)



- **TT Question:** Along with the redesign of the median, could we consider the issue of the fire evaluation route? There is currently no way for community members from the Floyd Hill neighborhood to access WB I-70 if the Homestead roundabout is closed or inaccessible.
- **Project Team:** Yes. We will consider egress routes for both EB and WB, and walls will not interfere or impact that potential.

Wall 3- Structural looking retaining wall, handling hydraulics of snow/rain runoff in ditch on outside of wall (CO Random Reveal finish vs. Shotcrete)





- **TT Comment:** I think Shotcrete works best when it is inlaid to an existing rock wall but does not work as well as a long free standing wall.

**TT Agreement:** The group would like to compare renderings of Shotcrete vs. CO Random Reveal for the new supporting wall structures at RC-1, 2, 3, and 4.

- **TT Question:** Is it possible to get an image from the roadway of the wall?
- **THK Response:** This may be difficult because any photos taken now will have snow which doesn't provide a good sense of how the wall would blend with existing rock.

**ACTION:** THK to produce new renderings comparing Shotcrete with CO Random Reveal for RC 1, 2, 3, and 4.

- **TT Question:** When designing these walls, is there any consideration to mitigate drainage issues at US 40, to mitigate erosion?
- **Project Team Response:** Yes, we have not made any specific design decisions yet but that is definitely being taken into consideration.

## 5. Introduce Roadway Integral Components

### East Section Drainage Elements & Update on East Section Signing

The Project Team wanted to prime the TT for topics to come during the next meeting including drainage elements and proposed signage and lighting elements. The Team is working on visuals to share with the group currently.

Notably, there will be a water quality pond near the evacuation area down the hill to collect runoff, contain it, let sediment settle out, and allow water to continue down the hill.

- **TT Question:** How does this pond address salinity?
- **Project Team Response:** We will address this in more detail during the next meeting.
- **TT Comment:** I look forward to discussing how these water quality features work and what they are intending to address. I am curious about how these fit into the broader CDOT policies of drainage management and how these policies may change over time.



- **Project Team Response:** Would you be interested in discussing this topic in more detail with some experts from CDOT Maintenance? Should we bring them into the discussion?
- **TT Response:** Yes, I would appreciate that, although I am just one voice at the table.
- **Project Team Response:** I'm not sure if we will make the next meeting but we will field our team for who we can bring in to discuss it as it is an expansive and important topic.

The project team then briefly introduced the topic of Signage & Lighting, asking the group to come prepared to discuss what signs are necessary vs. “nice to haves.” In regards to lighting, overhead lighting along the corridor will remain the same, however new signs will be illuminated. The goal is to reduce sign clutter and be efficient with new signage and lighting.

## 6. Next Steps

**Scheduling:** Next meeting is scheduled for the Friday after Thanksgiving. Is the group in agreement that we can reschedule for Dec. 2? Similarly, the following meeting could be rescheduled for Dec. 16th in order to navigate the Christmas holidays. The first meeting of the new year would then be on Friday 6th of January.

**TT Agreement:** The revised TT meeting dates around the holidays work for all in attendance.

### Summary of Action Items, Agreements, & Decisions:

**ACTION:** CDOT to communicate with local residents about navigating roundabout construction.

**ACTION:** CDOT to create an FAQ section on the website to address common questions such as those around the NEPA language.

**ACTION:** Affirm decision to share these Sound Wall renderings with the Idaho Springs community with key TT members not in attendance at this meeting.

**ACTION:** Project Team to update Walls and Rock Cuts on map to current understanding.



**ACTION:** THK to produce new renderings comparing Shotcrete with CO Random Reveal for RC 1, 2, 3, and 4.

**TT Agreement:** The group agreed that they liked this revised rendering of the Sound Wall much better.

**TT Agreement:** The group would like to compare renderings of Shotcrete vs. CO Random Reveal for the new supporting wall structures at RC-1, 2, 3, and 4.

**TT Agreement:** The revised TT meeting dates around the holidays work for all in attendance.

**TT Decision:** In consideration of the Construction Team's recommendation, the TT confirms the decision to pursue vertical rock cuts with stabilization walls for RC-1, 2, 3, and 4.

## 6. Attendees

Cindy Neely, Amy Saxton, Jessica North (Clear Creek County); Lisa Wolff (Floyd Hill POA); Mike Raber (Clear Creek Bicycle User Group); Margaret Bowes (I-70 Coalition); Lynnette Hailey (City of Black Hawk); Brian Dabling (FHWA); Sam Hoover (Central City); JoAnn Sorenson, John Curtis (Upper Clear Creek Watershed Association (SWEEP)); Steve Durian (Jefferson County); Steve Cook (DRCOG); James Proctor (Bridge Enterprise/AECOM); Tracy Sakaguchi (CMCA); Gary Frey (Trout Unlimited); Kurt Kionka, Jeff Hampton, Tyler Brady, John Gregory, Ryan Sullivan (CDOT, CTIO); Anthony Pisano, Matt Aguirre, Alan Carter (Atkins); Matt Hogan, Koichiro Shimomura, Brandon Simao, Austin Knapp, Tim Maloney (Kraemer); Tammy Hefron (HDR); Kevin Shanks (THK Associates); Jonathan Bartsch, Daniel Estes, Cara Potter (CDR Associates).