# I-70 Frontage Road Improvements Old US 40 / CR 314 

## Project Leadership Team / Technical Team Meeting \#2.5 November 1, 2011

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## Review of PLT \#2

- New cancellation protocol - consistent with Clear Creek County Schools
- PLT \#2 presentation and minutes on website
- Discussion but no decisions
- This is an updated version of presentation from PLT \#2


## Process Overview

- Categorical Exclusion for frontage road improvements east of Idaho Springs to Hidden Valley
- Project Schedule
- PLT/TT Meeting
- Scoping
- PLT/TT Meeting \#2
- PLT/TT Meeting \#2.5
- Field Inspection Review
- Final Office Review
- Ad date for Phase I
- Construction of Phase I

August 31, 2011
September 7, 2011
October 26, 2011
November 1, 2011
December 2011
March 2012
April 2012
Summer /Fall 2012

- Anticipating \$6M project budget - for design and construction


## Agenda

9:05 New Introductions
9:15 Updates
9:30 Greenway Process
9:45 Work Plan Review
10:00 Screening Criteria
10:15 Break
10:30 Cross sections, decision areas,and conceptual costs
11:45 Next Steps
Step 2Endorse the Process
Step 1
Define Desired Outcomes ..... and Actions
Step 3
Establish Criteria
Step 4Develop Alternatives and Options
Evaluate, Select: and Refine
Atematives and Options

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Step 6
Finalize Documentation and
Evaluation Process
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## New Introductions

- Project Leadership Team / Technical Team (PLT/TT) new members
- Rafting community representatives Suzen Raymond and John Rice
- Colorado State Patrol Captain Ron Prater



## Updates: Frontage Road website



## Updates: Open House comments

Received at Twin Tunnels EA Open House - September 27 ${ }^{\text {th }}$

- "Some inconvenience now, better access later."
- Offer to provide survey data and bore tests of frontage road
- Offer to lease office and warehouse space for contractors.
- Emergency responders request for a special access at the dirt road/doghouse bridge intersection to avoid I-70 congestion
- Can the transitions be used to enhance greenway facilities or
 access to the river?


## Updates

- Relocates and water/sewer plans
- Doghouse rail bridge sufficiency



## Updates: Greenway

- Greenway refinement process
- Participant suggestions
- "doodle" date scheduling
- Interim v ultimate
- CDOT v local responsibilities
- Additional funding opportunities
- CDOT Transportation Enhancement Grants requested mid-Nov. to Dec 1
- GOCO


## Work Plan

- Elements for consideration and approval
- Project Context Statement
- Desired Outcomes
- Team and Roles
- Public

Involvement Plan


## Work Plan: Context Statement

- I-70 is Colorado's only east-west Interstate. The adjacent frontage road (CR 314) provides access to local businesses, recreation, and residences and an alternate east west connection for vehicles, bikes, and pedestrians.
- Between Idaho Springs and Hidden Valley, the frontage road is parallel to I-70 and Clear Creek. It provides a natural crossing for wildlife and connects local communities to regional services, recreation, and I-70.



## Work Plan: Desired Outcomes

- Complete design and environmental for corridor from Exit 241 to 243
- Enable Phase I construction Summer 2012
- Enhance the experience for Greenway users and facilitate recreational use of Clear Creek



## Work Plan: Teams and Roles

- Project Leadership Team / Technical Team (PLT/TT): Collaborative team that ensures consistency with the CSS 6Step Process and provides multidisciplinary experts in all Core Values.
- Project Staff: Multidisciplinary team includes experts in planning, design,
 public process, and communication.
- Issue Task Forces (ITF):
- ITF to be formed for Greenway issues
- ITF may be formed for utilities
- Coordinating with Twin Tunnels EA ITFs' for SWEEP, ALIVE and Section 106 issues.


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## Work Plan: Public Involvement Plan

- PLT oversight
- CDOT hosted website
- Monthly newsletters to stakeholders
- Coordination with Twin Tunnels Public outreach



## Timing and Interactions between Twin Tunnels EA \& I-70 Frontage Road Cat Ex

| Step No. | Step Name | Timeline |
| :--- | :--- | :--- |
| 1 | Frontage Rd Phase I | Open Fall 2012 |
| 2 | Frontage Rd used as I-70 <br> detour and Twin Tunnels <br> improvements | Spring - <br> Summer 2013 |
| 3 | Restoration of Phase I of <br> Frontage Road after use as <br> detour | Immediately <br> after detour use <br> Fall 2013 |
| 4 | Frontage Rd Phase II | TBD based on <br> funding |

## Timing and Interactions between Twin Tunnels EA \& I-70 Frontage Road Cat Ex



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## Screening Criteria

## IDAHO SPRINGS - AREA OF SPECIAL ATTENTION REPORT

- Based on Idaho Springs ASA recommended criteria
- Also includes PEIS and project specific suggestion
- Review Draft Criteria
- Mobility
- Healthy Town
- Environmental
- Sustainability


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## Traffic Projections

## I-70 Frontace Road Improvevents

| Year | Peak Hour | Daily |
| :---: | :---: | :---: |
| 2015 | 292 | 1424 |
| 2035 | 451 | 2202 |



## Level of Service (LOS) Two-Lane Highways



| LOS | Control Delay <br> (s/veh) | Technical Descriptions |
| :---: | :---: | :--- | :--- |
| A | $\leq 10$ | v/c is low and either progression is exceptionally favorable or the cycle <br> length is very short. If it is due to favorable progression, most vehicles <br> arrive during the green indication and travel through the intersection <br> without stopping. |
| B | $>10-20$ | v/c is low and either progression is highly favorable or the cycle length <br> is short. More vehicles stops that with LOS A |
| C | $>20-35$ | v/c is high and either progression is favorable or the cycle length is <br> moderate. |
| D | $>35-55$ | v/c is high and either progression is ineffective or the cycle length is long. <br> Many vehicles stop and individual cycle failures are noticeable. |
| E | $>55-80$ | v/c is high and either progression is unfavorable or the cycle length is long. <br> Individual cycle failures are noticeable. |
| F | $>80$ | v/c is very high and either progression is very poor or the cycle length is <br> long. Most cycles fail to clear the queue |
| F |  |  |

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## Break?




## Frontage Road Cross Section

- Cross Section Options
- Review Decision Areas



## Cross sections developed

| Cross Section | Description | Total Width | Greenway Trail accommodation |
| :---: | :---: | :---: | :---: |
| Cross Section A | Clear Creek County Collector section | 38' | On road |
| Cross Section B | Clear Creek County Collector section with trail | 50' | Trail separated with barrier |
| Cross Section C | Clear Creek County Collector section with trail on cantilever and wall | 46' | Trail separated with barrier |
| Cross Section D | Clear Creek County Collector section with trail and boulder rock wall | 50' | Trail separated with barrier |
| Cross Section E | Clear Creek County Collector section with detached trail | varies | Detached trail |
| Cross Section F | Clear Creek County Local Access section | 32 | On road |

## Cross Section A - 38' shared



## Cross Section B-50' with trail

 for a collector road with trail

## Cross Section C - 46' cantilever trail



## Cross Section D - 50 ' with trail



## Cross Section E - detached trail



Clear Creek County design criteria for a collector road with detached trail with varied width

## Cross Section F - 32' (narrow)

 for a local road

## Western Decision Area



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## Gravel / Doghouse Rail Bridge Decision Area



## East of Gravel Road Decision Area



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## Eastern Decision Area



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## Preliminary Screening Summary

| Decision Area | Option | Summary of Benefit/Drawback | Estimated Cost (millions) |
| :---: | :---: | :---: | :---: |
| Western | Combination of CS A and B | - Impact to accesses and private property <br> - Consistent separated trail (new and existing) <br> - Potential wetland impacts | \$5.8 |
| Gravel/ <br> Dog- <br> house <br> Bridge | Option 1 or 2 (New bridge(s)) | - New trail attached to bridge(s) <br> - Lower economic/redevelopment <br> - Lower utility coordination/extension <br> - Medium stream wetland impacts | \$4.7 |
|  | Option 3 (CS F) | - Narrowest cross section <br> - Trail remains in current location along Doghouse Bridge <br> - Simpler utility coordination/extension <br> - Low stream/wetland impacts | \$3.4 |
| East of Gravel Road | Combination of CS B, D, E | - High flexibility to accommodate trail during detour/construction <br> - High accommodation of other greenway facilities | \$6.7 |
|  | CS C | - Low flexibility to accommodate trail during detour/construction (bicycle loads on cantilever) Low accommodation of other greenway facilities Potential stream/wetland impacts | \$4.8 |
| Eastern | CS B | - Impact to accesses and private property <br> - Consistent separated trail | \$3.5 |

## PLT Actions

1. Define Desired Outcomes and Actions
2. Endorse the 6-Step Process
3. Establish Criteria
4. Develop Alternatives or Options
5. Evaluate, Select, and Refine Alternative or Option

## Next Steps

- PLT\# 1 August 31st
- Scoping Meeting - Sept 7, 2011 with PLT/TT representation
- Twin Tunnels EA Open House - Sept 27, 2011
- PLT \#2.5 November 1, 2011
- Greenway coordination
- Monthly Newsletters - next on November $25^{\text {th }}$
- Future PLT/TT meetings


## The End

- Reference slides follow


## Team Organization



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## Corridor Context Statement

The I-70 Mountain Corridor is a magnificent, scenic place. Human elements are woven through breathtaking natural features. The integration of these diverse elements has occurred over the course of time.

This corridor is a recreational destination for the world, a route for interstate and local commerce, and a unique place to live.

It is our commitment to seek balance and provide for twenty-first-century uses.

We will continue to foster and nurture new ideas to address the challenges we face.

We respect the importance of individual communities, the natural environment, and the need for safe and efficient travel.

Well-thought-out choices create a sustainable legacy.

## Corridor Core Values

- Sustainability
- Collaborative decision making
- Safety
- Healthy environment
- Historic context
- Community respect
- Mobility and accessibility

- Aesthetics


## Clear Creek Greenway Plan (Nov 2005)



## Tier 1 NEPA Guidance



- Preferred Alternative recommendation:
- Six-lane component from Floyd Hill through the Twin Tunnels including a bike trail and frontage roads from Idaho Springs to Hidden Valley and Hidden Valley to US 6


[^0]:    Notes:

    - Volume to capacity ratio (v/c) $\leq 1.0$

