Wagonwheel Gap Community Meeting

Wagonwheel Gap Rd. and Pinto Dr. & Fourmile Canyon Creek

October 20, 2015

Meeting Format:

- **Welcome & Introductions**
- **County Presentation**
- **Group forum Q&A session**
- **Open House**

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Introduction – Purpose

Why are we here today?

➡ ***To Share the Current Design Progress and obtain community feedback***

- **Two separate but related projects:**
  1. **Permanent roadway reconstruction project**
  2. **Stream Restoration project**

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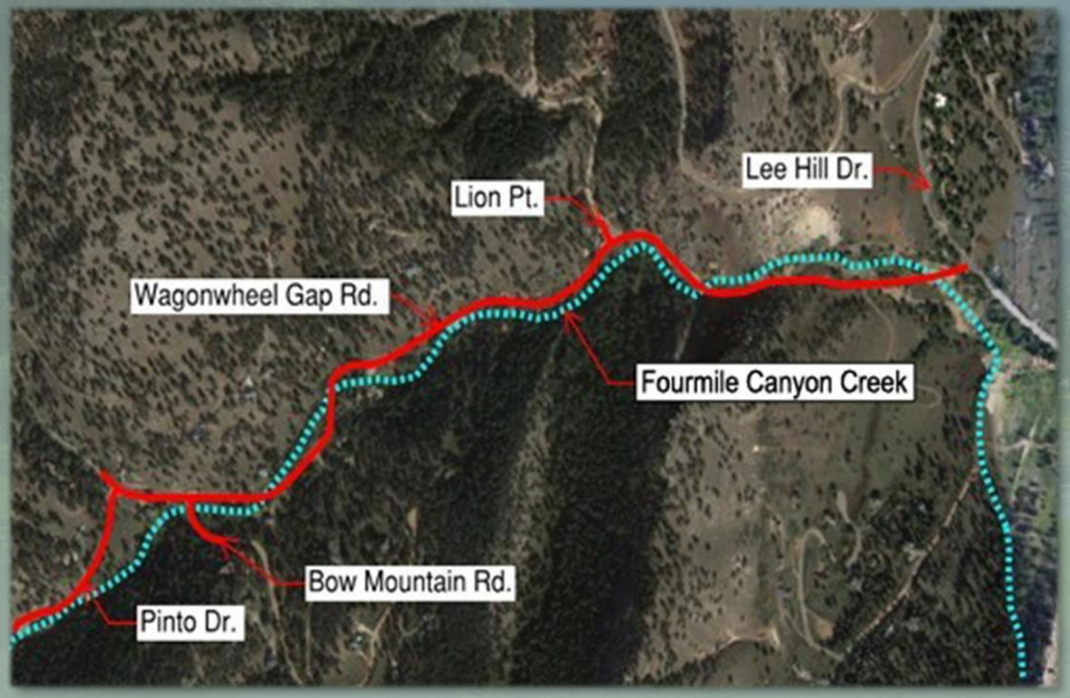
Background – Project Limits



- **Full reconstruction of Wagonwheel Gap Rd. (Lee Hill to Pinto)**
- **Full reconstruction of Pinto Dr.**
- **Fourmile Canyon Creek Restoration (partly with roadway, partly separate)**

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Background – Project Goals

- ✓ **Permanent reconstruction of damaged roadway**
- ✓ **Increase safety and resiliency of the roadway**
- ✓ **Increase health and stability of the creek**
- ✓ **Minimize environmental impacts through balanced design**
- ✓ **Minimize and manage impacts to the community**

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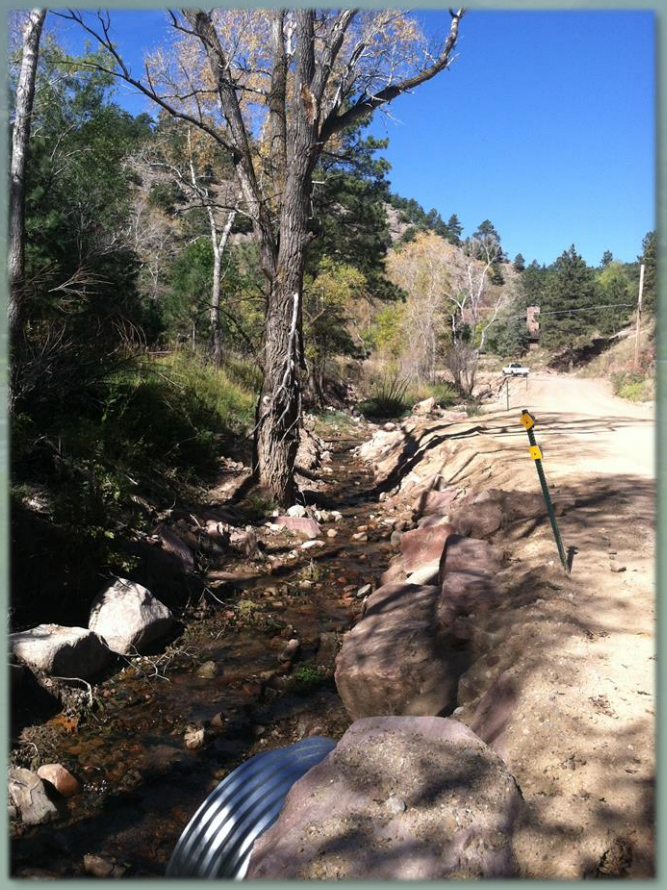
Background – Previous Meetings

From earlier community meetings:

- **Don't urbanize the corridor**
- **Fix roadway surface**
- **Fix roadside drainage**
- **Improve creek health and stability**
- **Make necessary walls and barriers visually appealing**
- **Minimize tree/vegetation impacts**
- **Improve drainage structures to avoid clogging and roadway washout**



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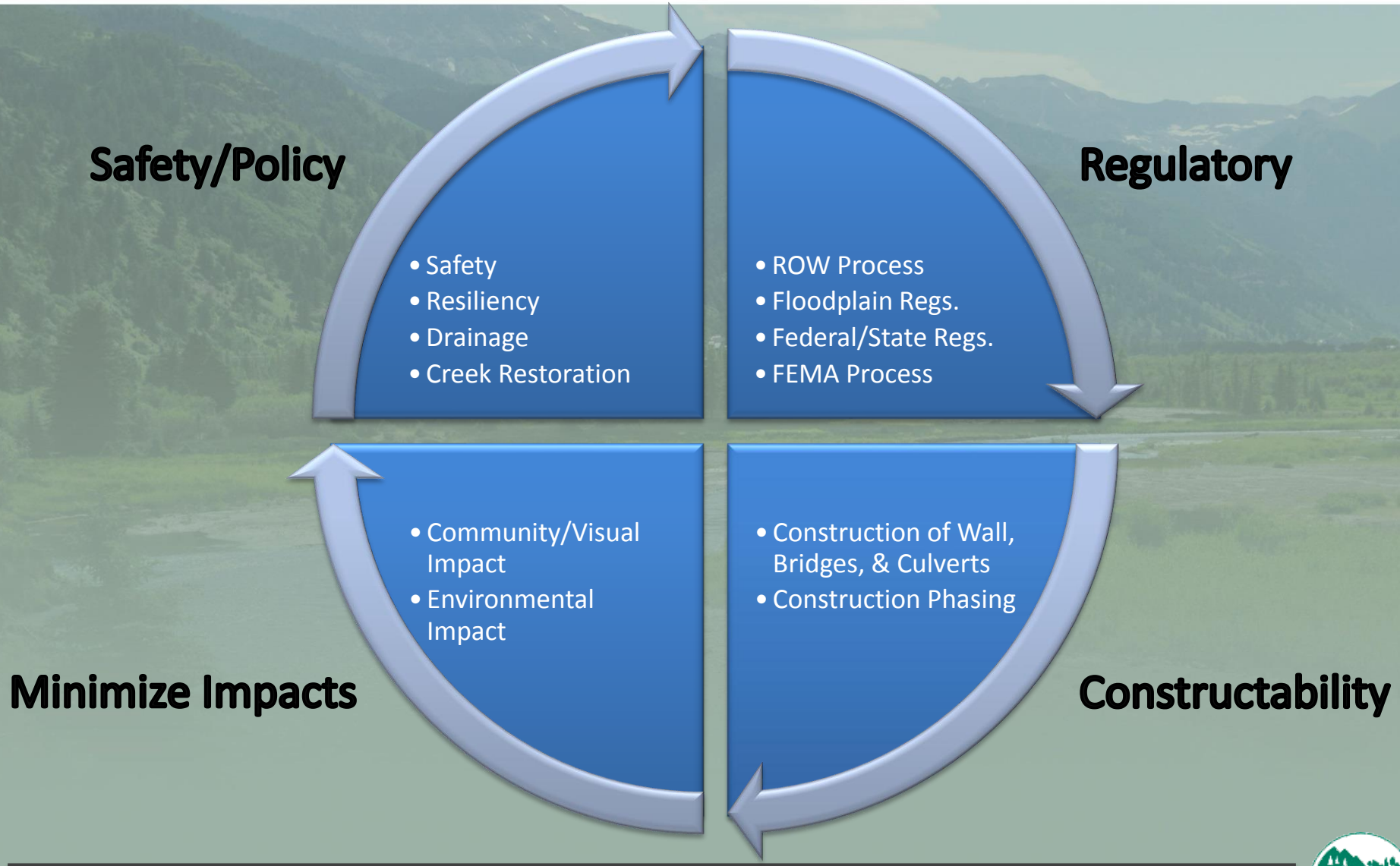
Project Development – Driving Factors



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Project Development – Roadway

Summary of the Road Project:

- **30% Design level**
- **Funded primarily through FEMA**
- **Primary focus**
  - ➢ **Permanent, resilient solutions with minimal impacts**

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Project Development – Creek

Summary of the Creek Project:

- **30% Design level**
- **Portions constructed with roadway funded primarily through FEMA**
- **Portions constructed away from roadway not funded**
- **Primary focus**
  - **Increase health and stability with minimal impacts**

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Anticipated Project Schedule

Road project:

- **Final Design Completed – Spring 2016**
  - **60% & 90% designs posted to website**
- **Environmental, ROW, and FEMA Clearances – Spring 2016**
- **Begin Construction – Summer 2016**

Creek project:

- **Final 30% Design Completed – November 2015**
- **Begin Construction – Pending Funding**

Road Project – Basics

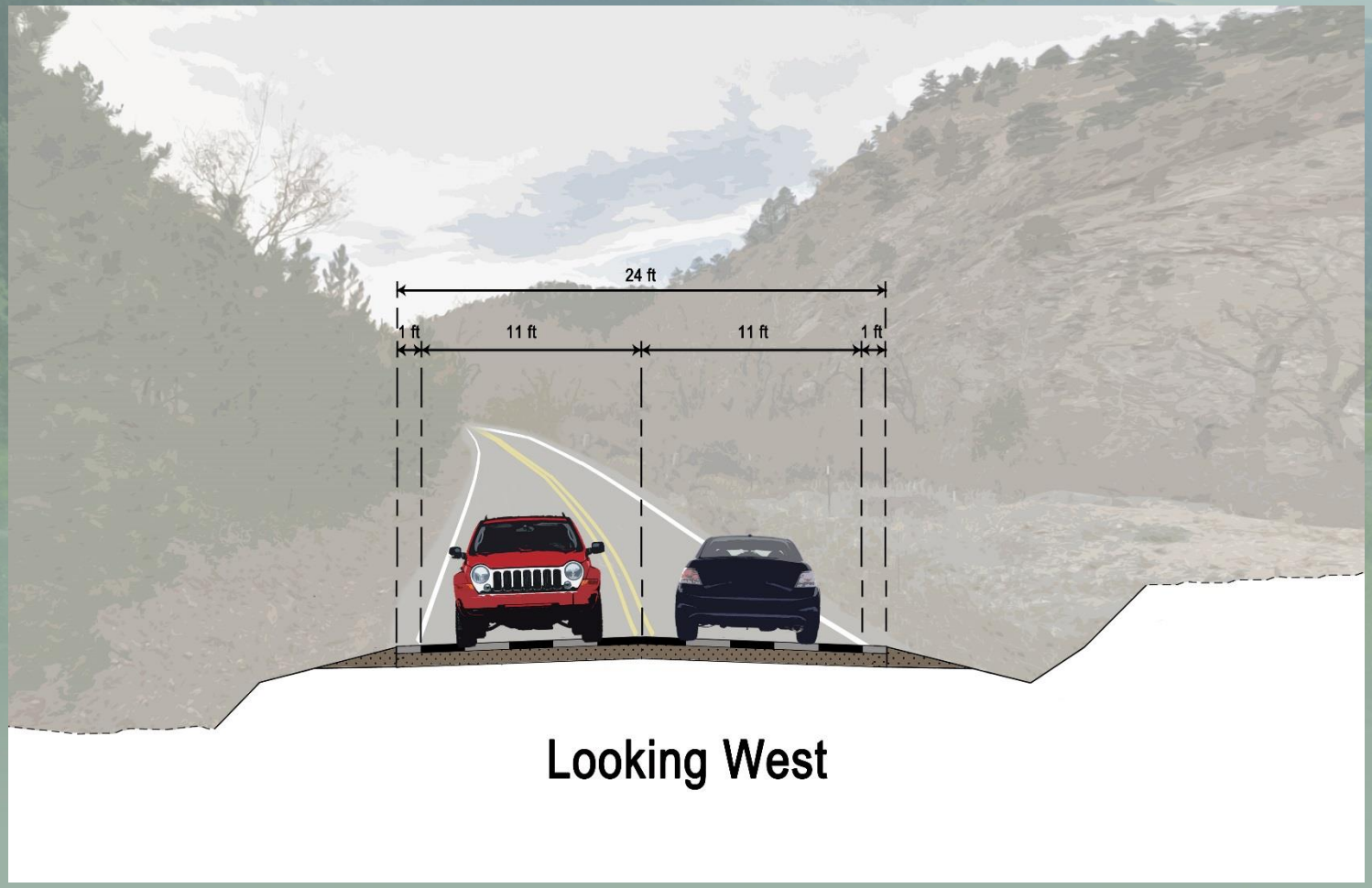
Primary features of the project:

- **Reconstructed asphalt roadway surface (Pinto remains gravel)**
- **Improved surface drainage**
- **Improved stream crossings**
  - **10-yr Box Culverts**
  - **Bridges at Bow Mountain and near Lee Hill**
  - **Natural design scour protection and armoring**

- **Tie-ins with existing driveways and access points**
- **Coordination with Parks and Open Space**
- **Minimal retaining walls and guardrail**

Road Project – Typical Sections

Wagonwheel Typical



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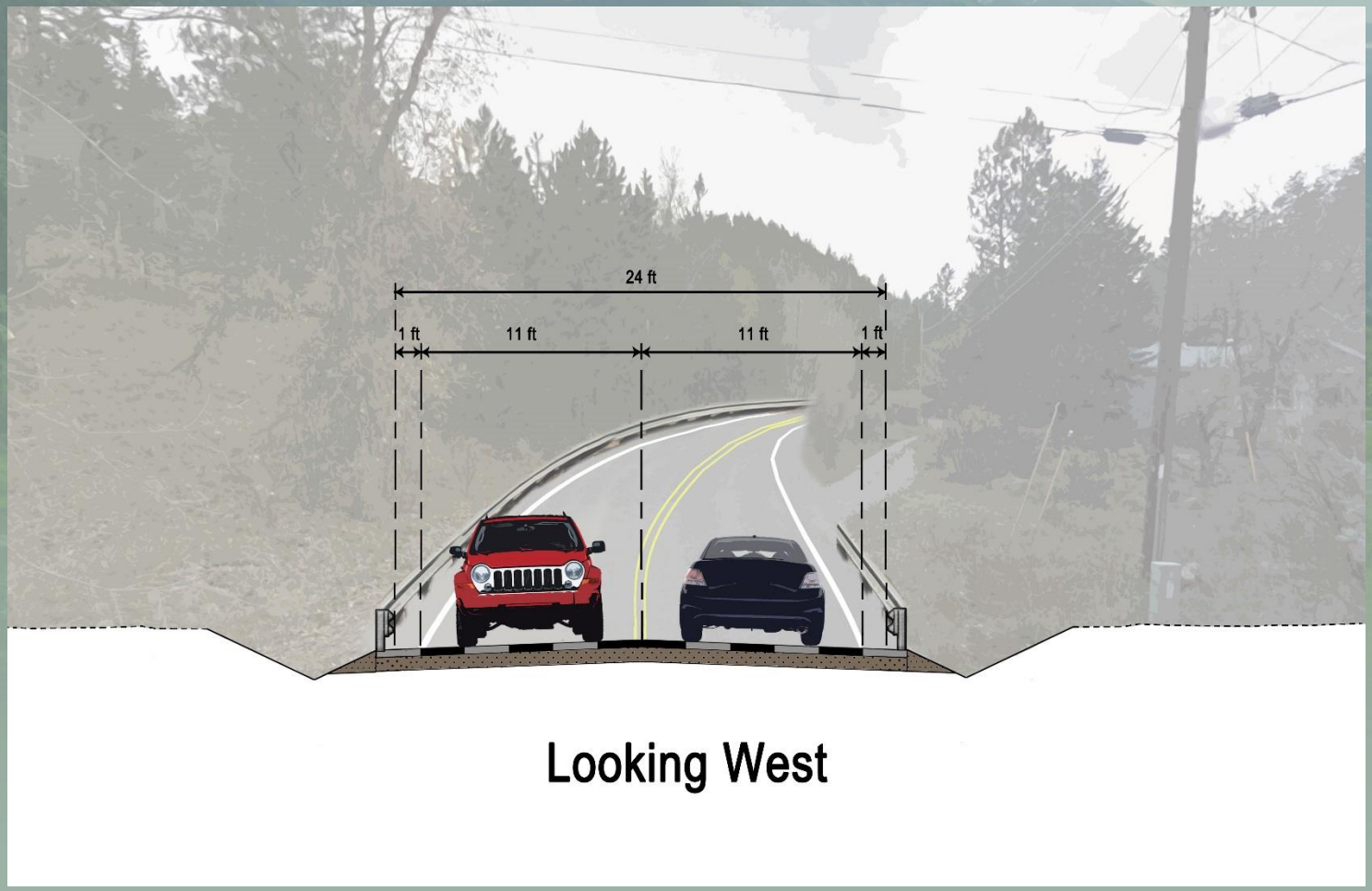
Road Project – Typical Sections

Wagonwheel with guardrail (minimal application)



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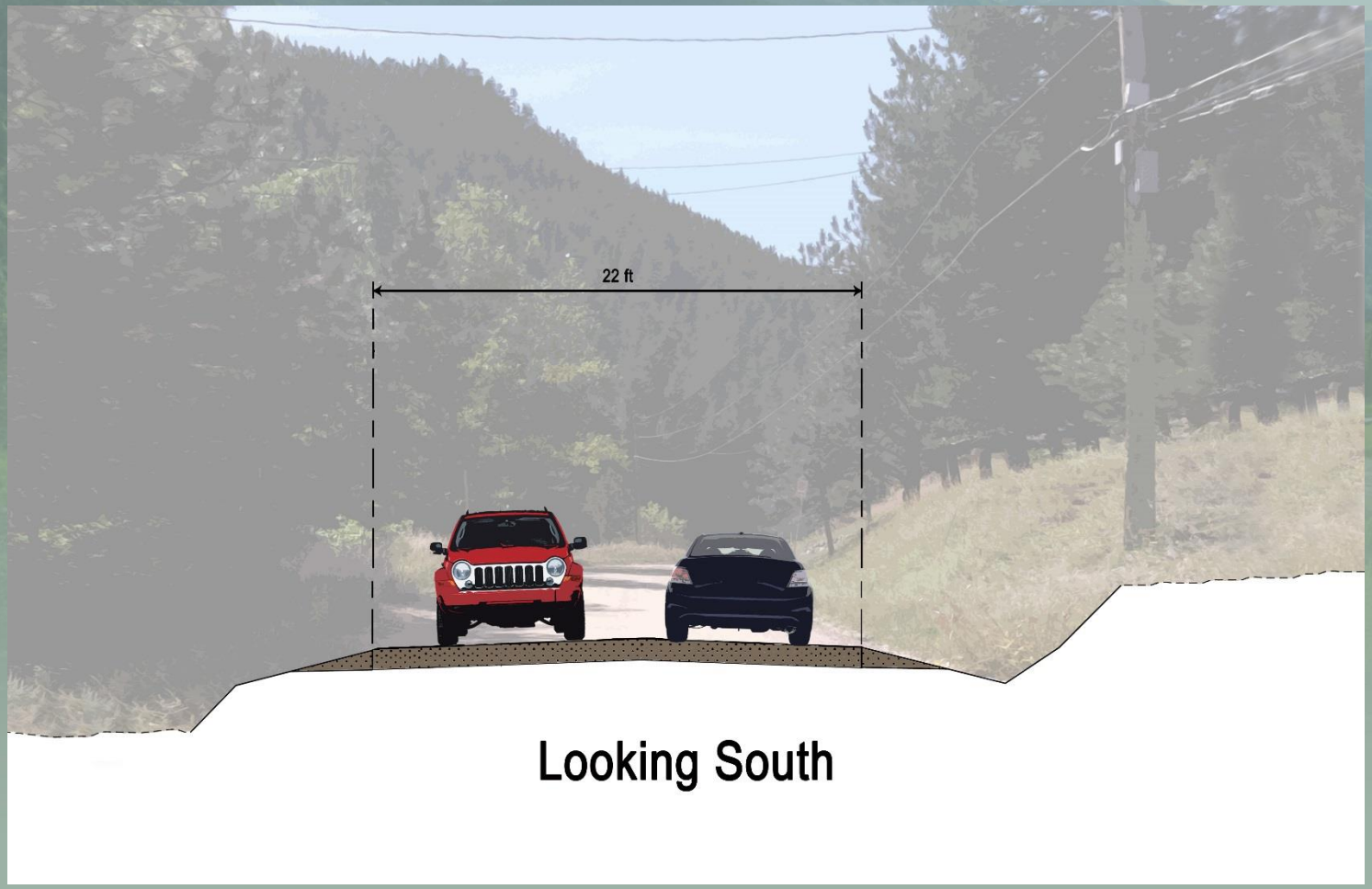
Road Project – Typical Sections

Pinto Drive (Gravel)



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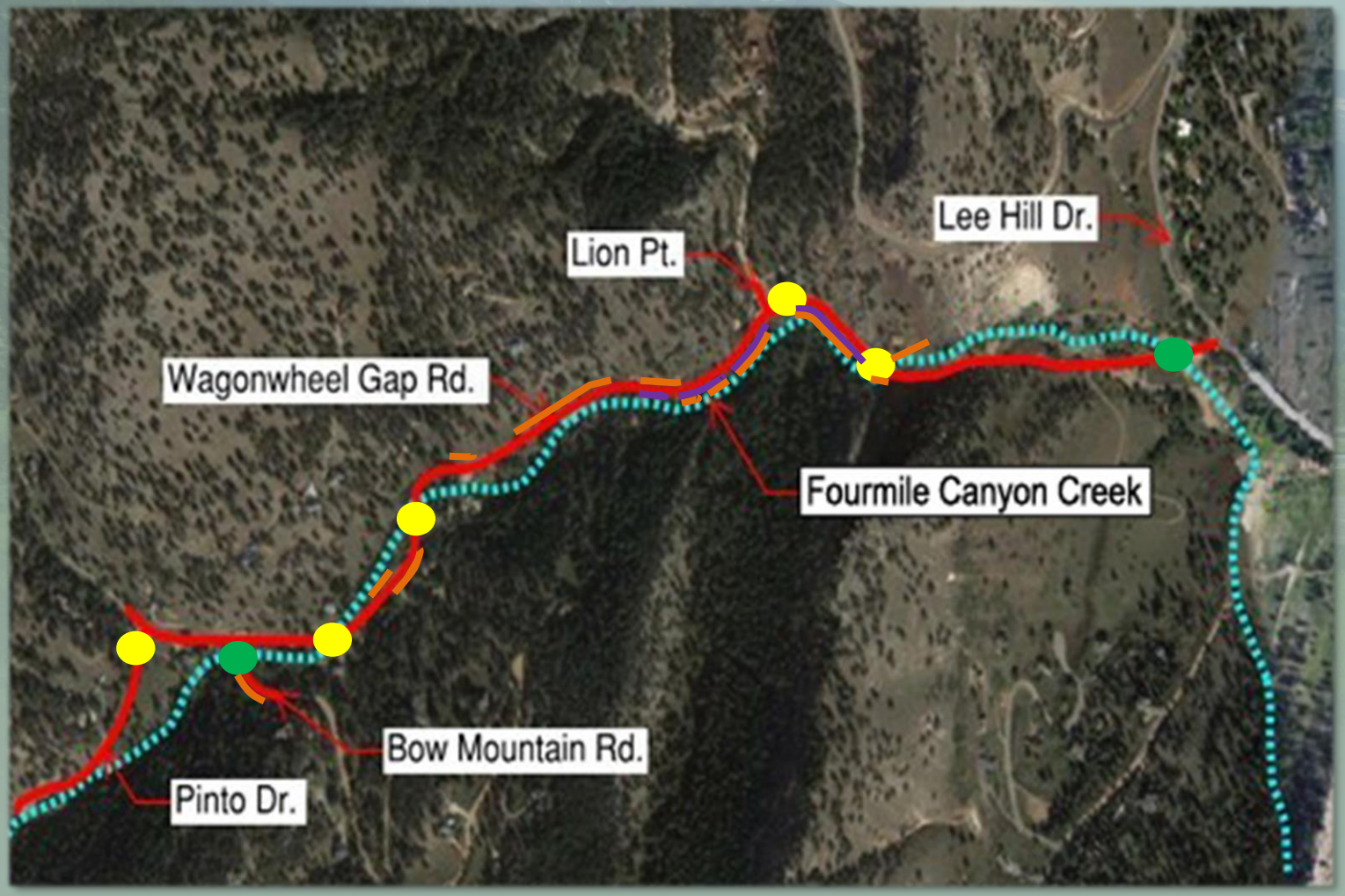
Road Project – Structures



Legend

- Culvert
- Bridge
- Wall
- Guardrail

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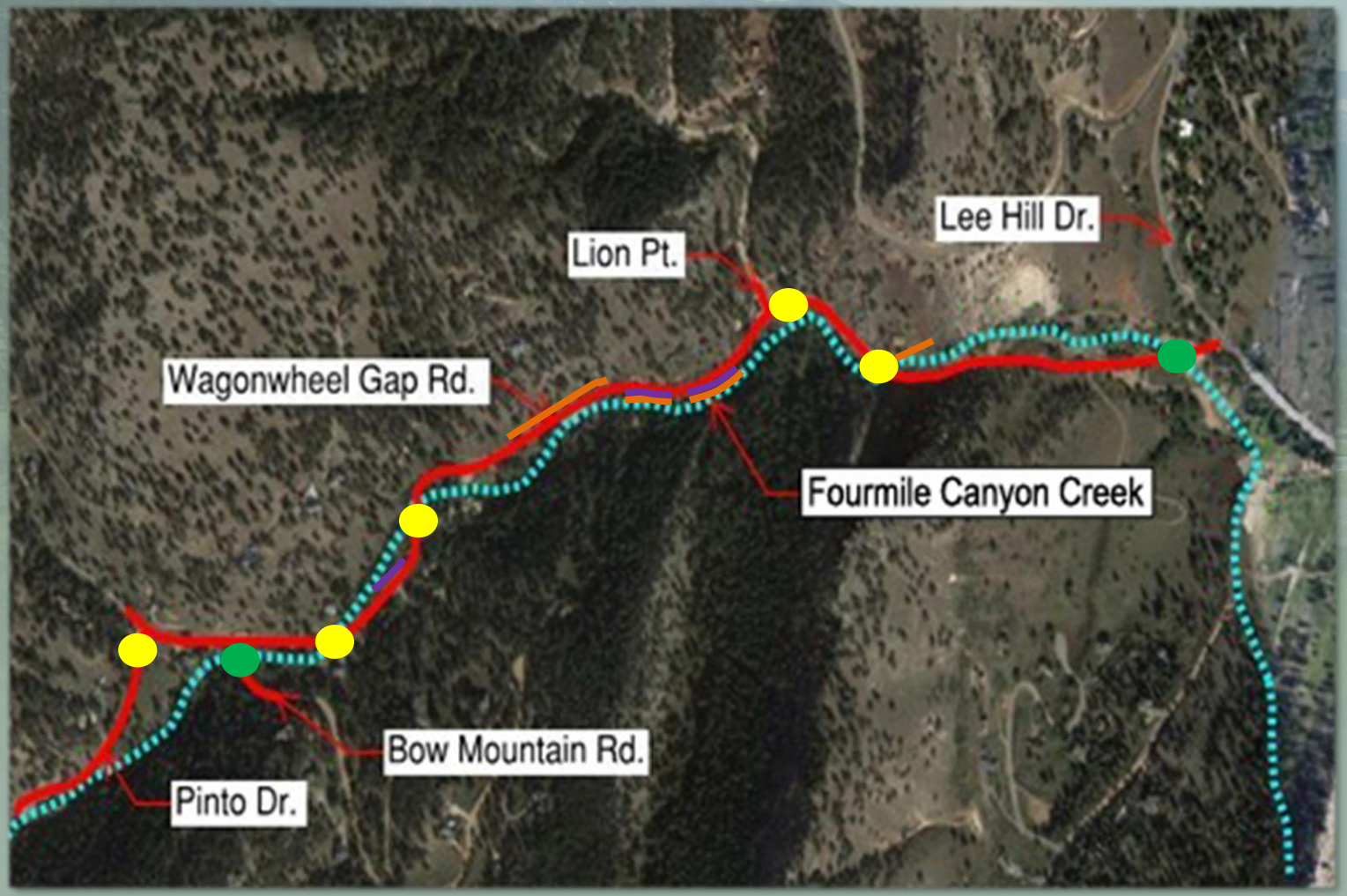
Road Project – Structures



Legend

- Culvert
- Bridge
- Wall
- Guardrail

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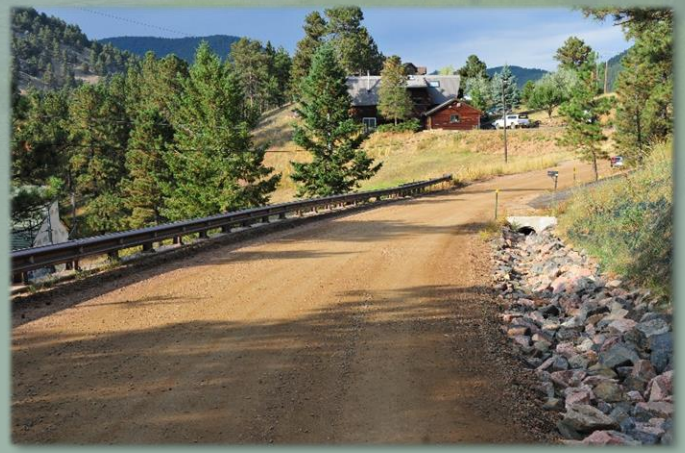
Road Project – Aesthetics

Where applicable, aesthetics can be implemented



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Creek Project – Basics

What is Stream Restoration?

- **Design of a natural stable channel in current watershed setting**
- **Self Regulating**
- **Establishes the physical, chemical, biological functions**

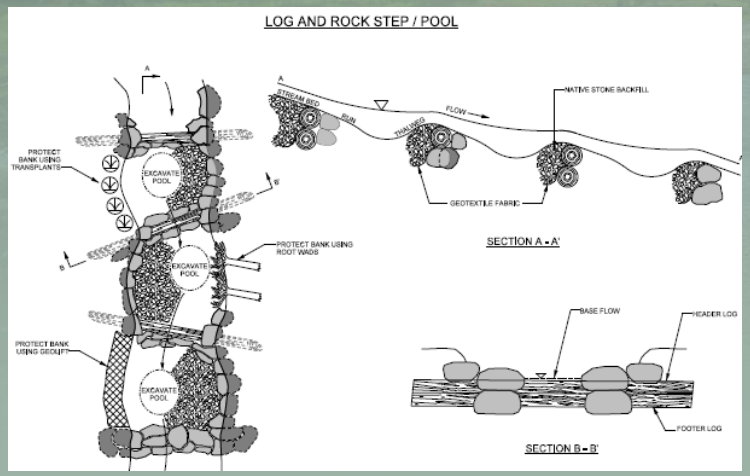
How do we do Creek Restoration?

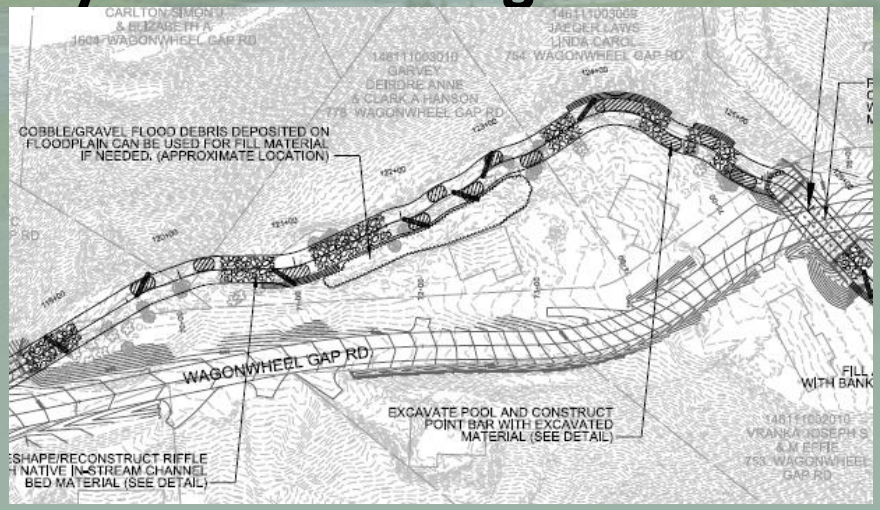
- **Quantify the degree of impairment**
- **Formulate design based on scientific methods**
- **Restore biology/ecology/geomorphology/hydrology/geometry based on quantifiable metrics**

Creek Project – Proposed Design

Design Process and Results

- **Identify Constraints**
- **Layout channel section, alignment, and profile**
  - **We want your input!**
- **Modify using design parameters**
- **Verify with sediment transport & hydraulic modeling**





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Creek Project – Implementation

Implementation Process

- **Probably Design Build Construction**
  - **Creek segments required to be constructed w/ roadway funded by FEMA**
  - **Other segments can be funded w/ different mechanisms**
- **Ideal construction times - late fall through early spring (if/when funded)**
- **In context with native stream and watershed setting**

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Community Discussion

Questions?

Wagonwheel Gap Road Reconstruction -
http://www.bouldercounty.org/roads/pages/wwg.aspx

Fourmile Canyon Creek Recovery -
http://www.bouldercounty.org/flood/creekrestoration/pages/fourmilecanyoncreek.aspx

Contact us with feedback or questions or to be added to the community list serve:
Andrew Barth, Boulder County: 303-441-1032 - abarth@bouldercounty.org

We appreciate feedback by November 3, 2015