



SH 52 Coalition Meeting

July 22, 2021





- Introductions
- Project Review and Updates
 - Schedule Status
 - Completed Meetings
- PEL Study
 - Additional Corridor Analysis
 - Alternatives Analysis
 - Visualizations
- Communications
 - August Virtual Open House
- Access Control Plan
 - Final IGA Comments
 - Access comments







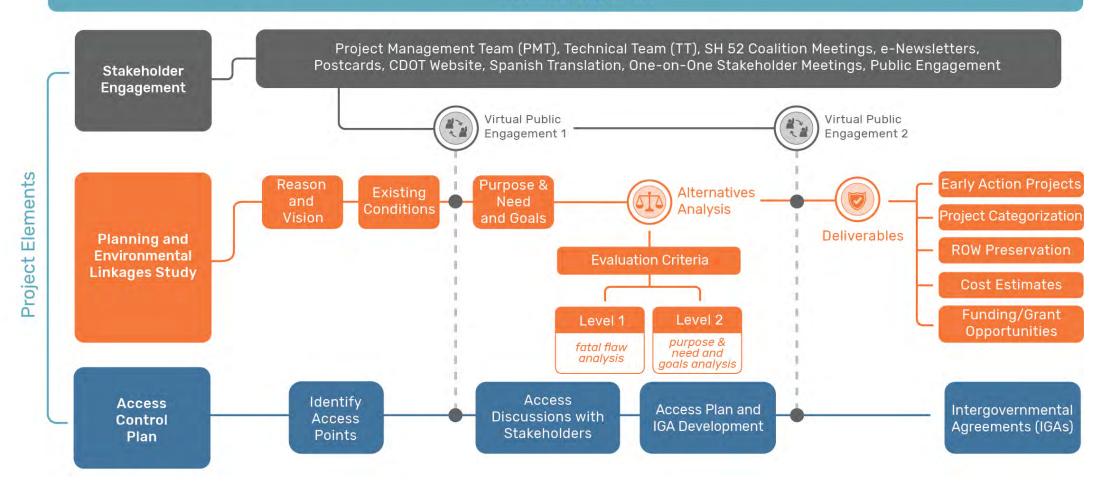
Project Review and Updates

July 22, 2021



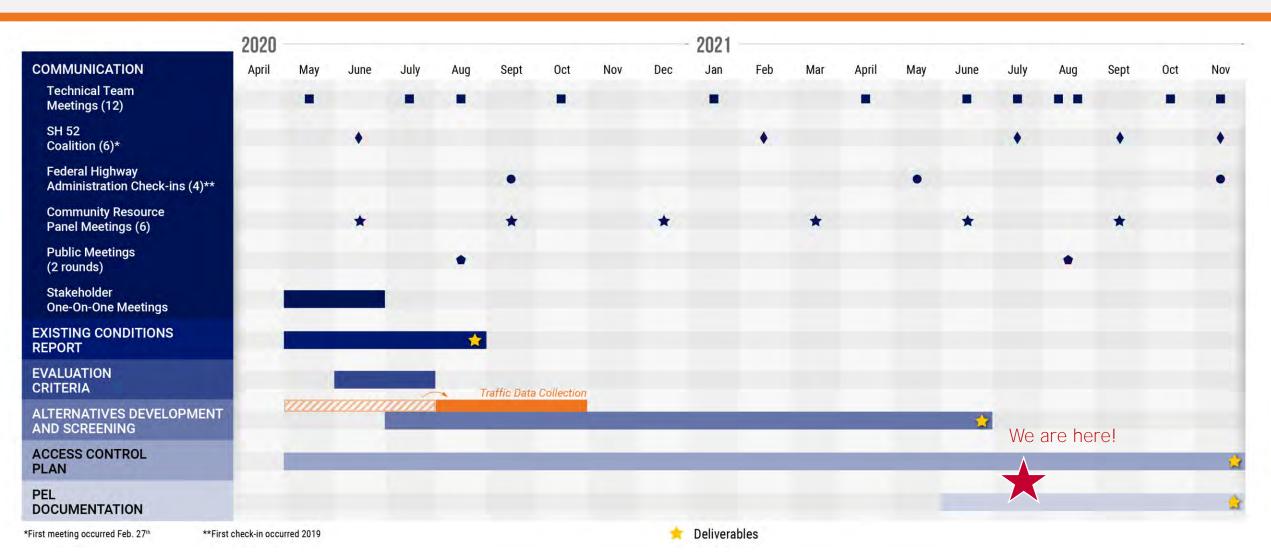
PEL Process Graphic

CO 52 Planning and Environmental Linkages (PEL) Study and Access Control Plan (ACP) CO 119 to CO 79





Project Schedule and Milestones



July 22, 2021 SH 52 Coalition Meeting



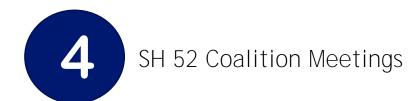
Coalition Presentation Schedule

Topic	Date
Kick-off Meeting	February 2020
Study Reason and Vision	June 2020
Evaluation Criteria and Alternatives Process	February 2021
Project Updates and Public Meeting Review	July 2021
Corridor Projects	September 2021
Final PEL Review	November 2021

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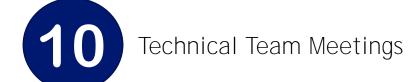


Project Meetings





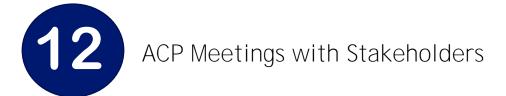




Recent Meetings

- Glens Coalition HOA Meeting (7/8)
- o Boulder County Alternatives Meeting (7/12)
- Bicycling Organization Meeting (7/20)





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PEL Study

July 22, 2021



Additional Corridor Analysis

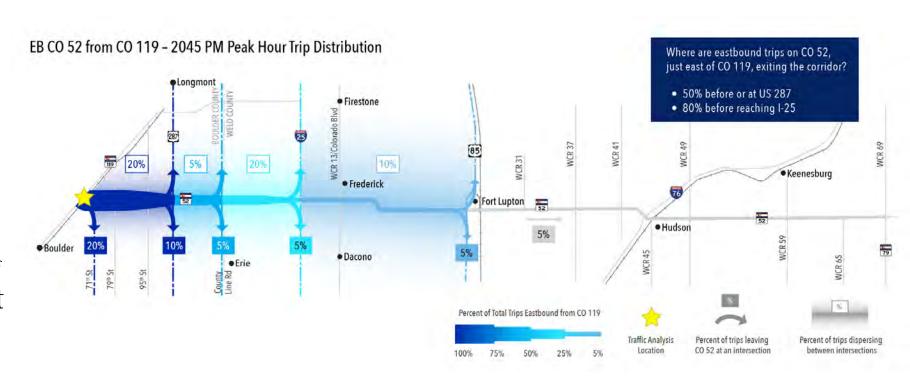
- Origin/Destination Trip Pattern Analysis
- Telework (Work from Home) Analysis
- Traffic Forecasting and Screenline Analysis Memo
- Transit Analysis
- Funding Memo





Origin/Destination Trip Pattern Analysis

- Insight on traffic flow through the corridor
- Majority of trips exit CO 52 before or at first major highway access
- 2015 and 2045 trip patterns are similar
- Increase in percentage of trips to new development areas in 2045:
 - I-25 area
 - Ft Lupton

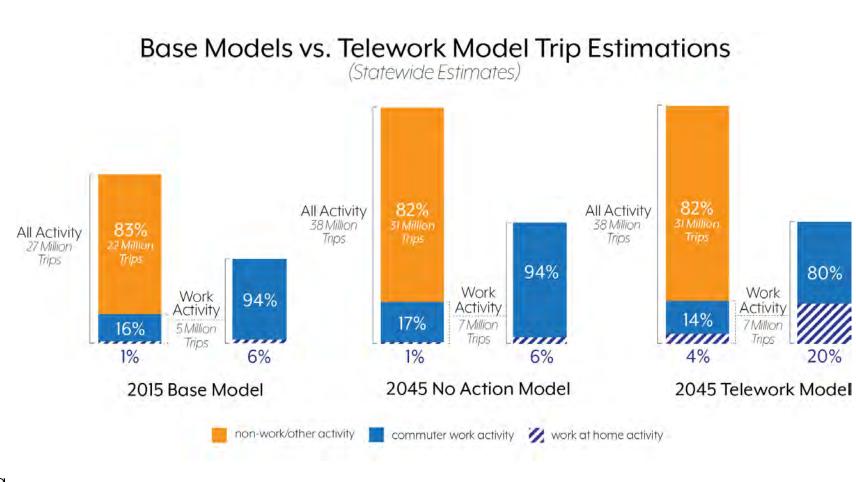


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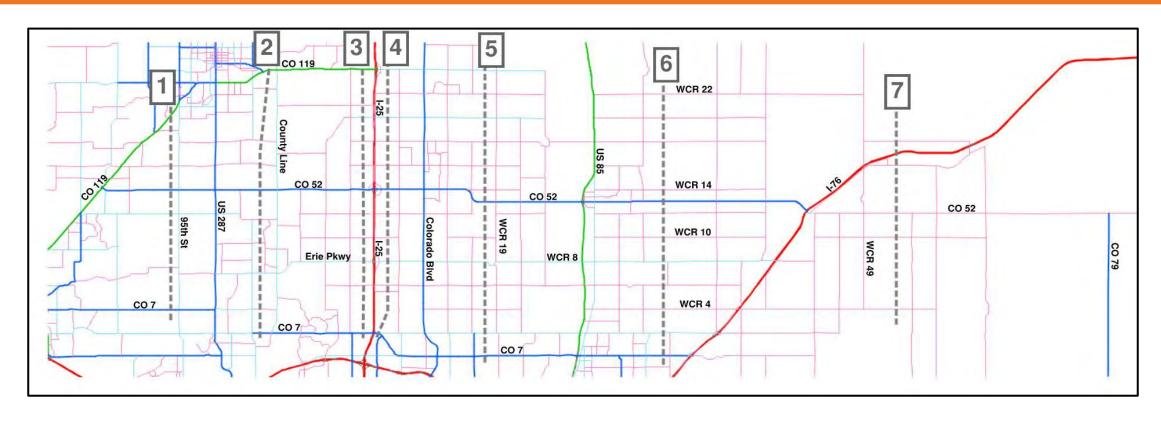
Telework (Work from Home) Analysis

- Analysis was based on the StateFocus travel demand model's telework assumptions, as well as other Metropolitan Planning Organizations and regional models to identify transit trends in telecommuting, both before and after the pandemic.
- 20% of all work activity trips can be estimated to be telecommuting 'trips'
- This means that in the 2045 model, 1.4 million trips are estimated to be telecommuting 'trips'





Traffic Forecasting and Screenline Analysis Memo



Though volumes along CO 52 increase by approximately 35% to 55% at the screenlines west of Dacono/Frederick compared to the No Action scenario, the major highways that parallel the highway, CO 119 and CO 7, experience minimal impact to daily volumes.



Transit Analysis

- Daily ridership forecasts from the travel demand model in year 2045 indicates fewer than 200 riders per day for a transit route along CO 52.
- A lack of dense employment/population centers along the corridor is likely the greatest factor in the ridership forecasts.
- From these findings, expanded transit options in the corridor are not warranted right now.

Scenario 1



Scenario 2



Scenario 3





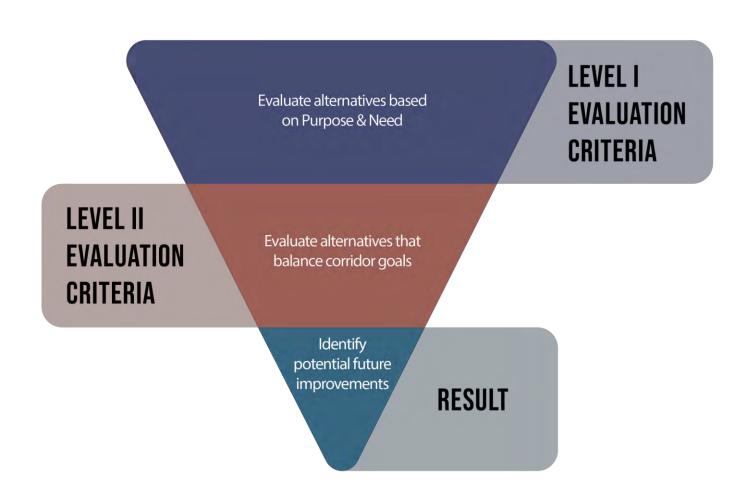
Funding Memo

- Provides summary descriptions of existing and potential federal, State, local and private funding sources
- Depending on the investment category, specific projects could pursue funding opportunities with local (cities and counties), regional (Regional Transportation District (RTD), Denver Regional Council of Governments (DRCOG), or North Front Range Metropolitan Planning Organization (NFRMPO), State (CDOT) and federal partners





Level 2 Evaluation Matrix: Agency Review



All agencies to provide feedback on the Level 2 Evaluation Matrix by End of July

- Met with Boulder County on 7/12
- Please let us know if you would like to set up a meeting with the project team





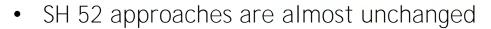
Alternatives: Areas Studied in Detail



US 287 & CO 52 Intersection: Partial CFI Layout



- Middle 4-Lane model = LOS C
- West 4-lane model = LOS D



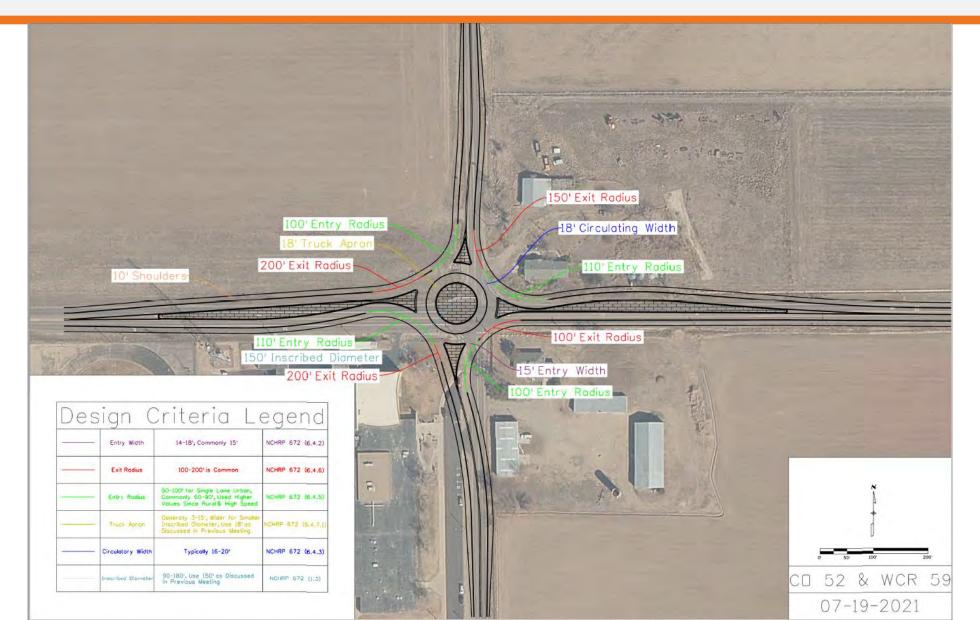
- Focuses on US 287 approaches
- Crossover intersections are approximately 500 feet from signal
- Overall footprint may require slight widening from current footprint



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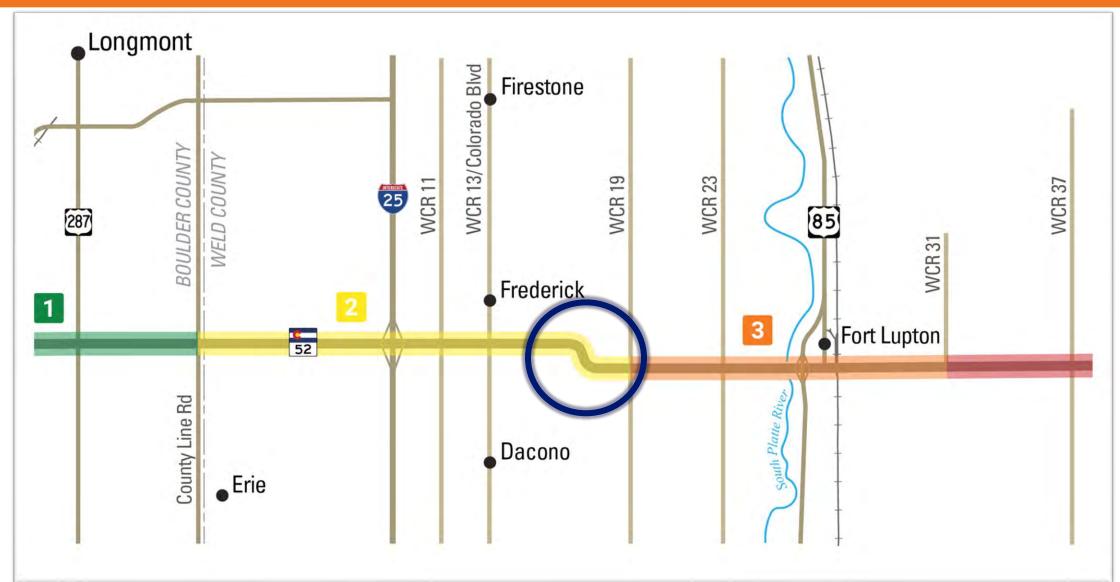


Draft WCR 59 Roundabout Exhibit





Reverse Curves Location





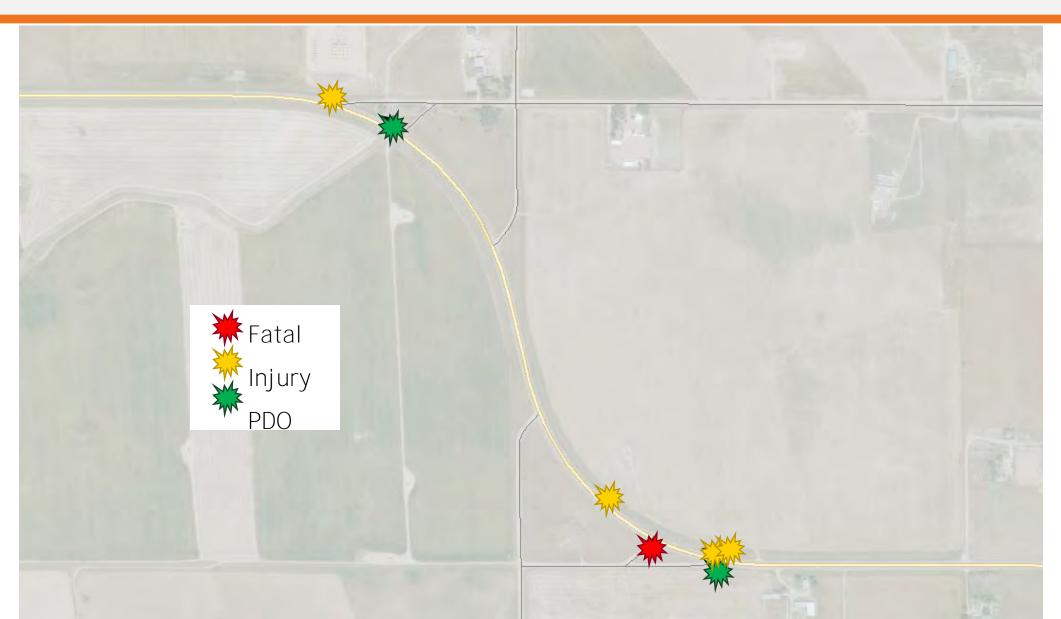


- Geometry
 - Spiral curve
 - 8% Superelevation
 - Vertical
- Documented Crash History





Crashes by Severity





Existing Alignment



8% R=1200'



4% Superelevation Alignment



R=3890' 4%

R=1200'

Pros

- Flatter curves
- Lower superelevation (better for winter)
- Does not preclude a signal

Cons

Larger impact



6% Superelevation Alignment



6% **R=2320'**

8% R=1200'

Pros

- Flatter curves
- Lower superelevation (better for winter)
- Smaller impact
- Does not preclude signal

Cons

ROW impact



Reverse Curves - Comparison of Alignments



4% R=3890'
6% R=2320'
8% R=1200'



Right-of-Way Preservation Discussion





Right-of-Way Preservation Discussion 6%





Right-of-Way Preservation Discussion







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Visualizations



Visualization Locations

- Boulder County (trail separation location) In progress
- Dacono/Frederick Forest Ave.
- Fort Lupton east of Grand Ave.
- Hudson Beech St.
- WCR 59 In progress





Dacono/Frederick - Existing



Dacono/Frederick - Proposed





Dacono/Frederick - Both



Ft. Lupton - Existing



Ft. Lupton - Proposed





Ft. Lupton - Both



Hudson - Existing



Hudson - Proposed





Hudson - Both





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Communications

July 22, 2021



August Virtual Open House

Aug 20 - Sept 3, 2021 | Available Anytime, 24/7 | co52pel.com/pelopenhouse



CO 52 Planning and Environmental Linkages Study and Access Control Plan



Welcome

- O PEL Orientation
- O Existing Conditions
- O Purpose and Need
- O Data Collection
- O Alternatives Analysis
- O Introducing Alternatives
- O Visualizing Alternatives
- O Provide Feedback
- O Next Steps



ENGAGE

Sign In

View Tutorial

WELCOME TO THE CO 52 PEL STUDY

Online Open House

Please let us know you're here by signing in on the left

At the onset of this project, the team held a virtual public engagement opportunity in August 2020. If you would like to review materials presented at the previous meeting, please select the button below.

Public Engagement #1 Materials



Outreach Methods

- Postcards
- Coordination with Local Agency PIOs
- Eblasts





Survey/Comment Opportunities

Corridor Alternatives

Corridor Needs and Goals

?

Participation

Access Control Plan



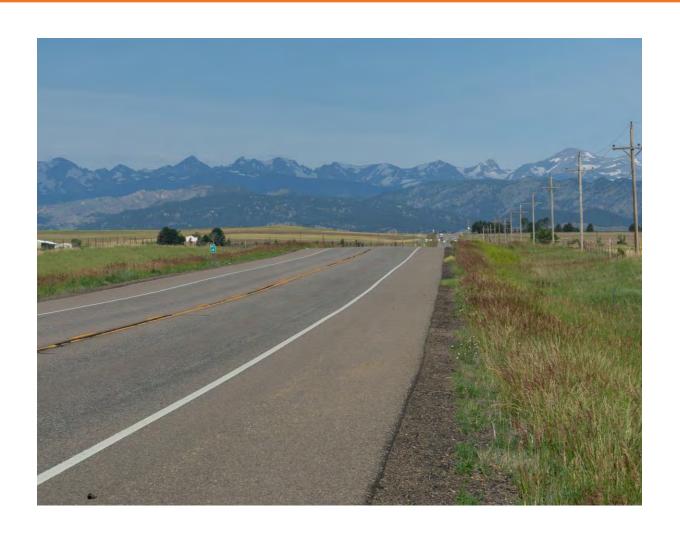


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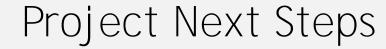
Access Control Plan



Access Control Plan



- Discuss Final IGA
- Outstanding access comments
- Currently under review by CDOT Headquarters
- On track to be completed by November 2021







- Level 2 Matrix Evaluations
 - Please reach out if you would like to set up a meeting!
- Finalize IGA and Circulate for Signatures
- August Virtual Open House (8/20 9/3)
- Next PEL/ACP Presentation to Coalition: September 23, 2021 (Corridor Projects)



Questions

