



# WB I-70 Peak Period Shoulder Lane Project

## Technical Team Meeting #9

December 13, 2017  
CDOT I-70 Mountain Corridor

# AGENDA

1. INTRODUCTIONS AND OVERVIEW

2. PROJECT TT CHARTER

3. RESPONSES TO TECHNICAL TEAM ISSUES

- Tool Box

4. OUTCOMES FROM ISSUE TASK FORCE MEETINGS

5. OUTREACH SUMMARY

6. FOLLOW UP

7. DISCUSS PROPOSED SOLUTIONS

- Context Map Review

8. OUTSTANDING ISSUES

9. DEVELOP CRITERIA FOR:

10. NEXT STEPS

- Parking Lot





# INTRODUCTIONS AND OVERVIEW

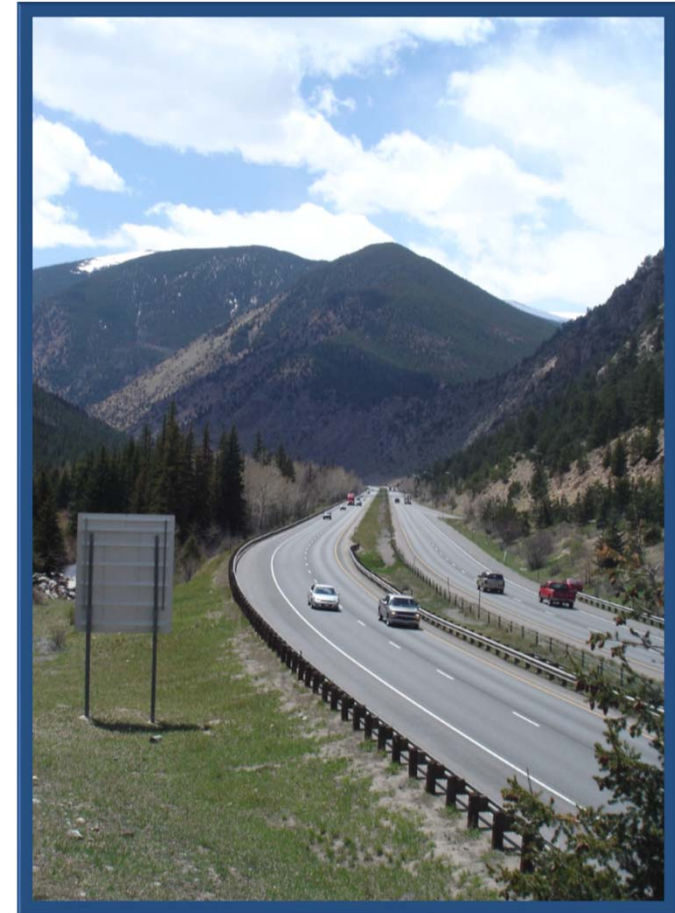
## Outcomes/Process to date:

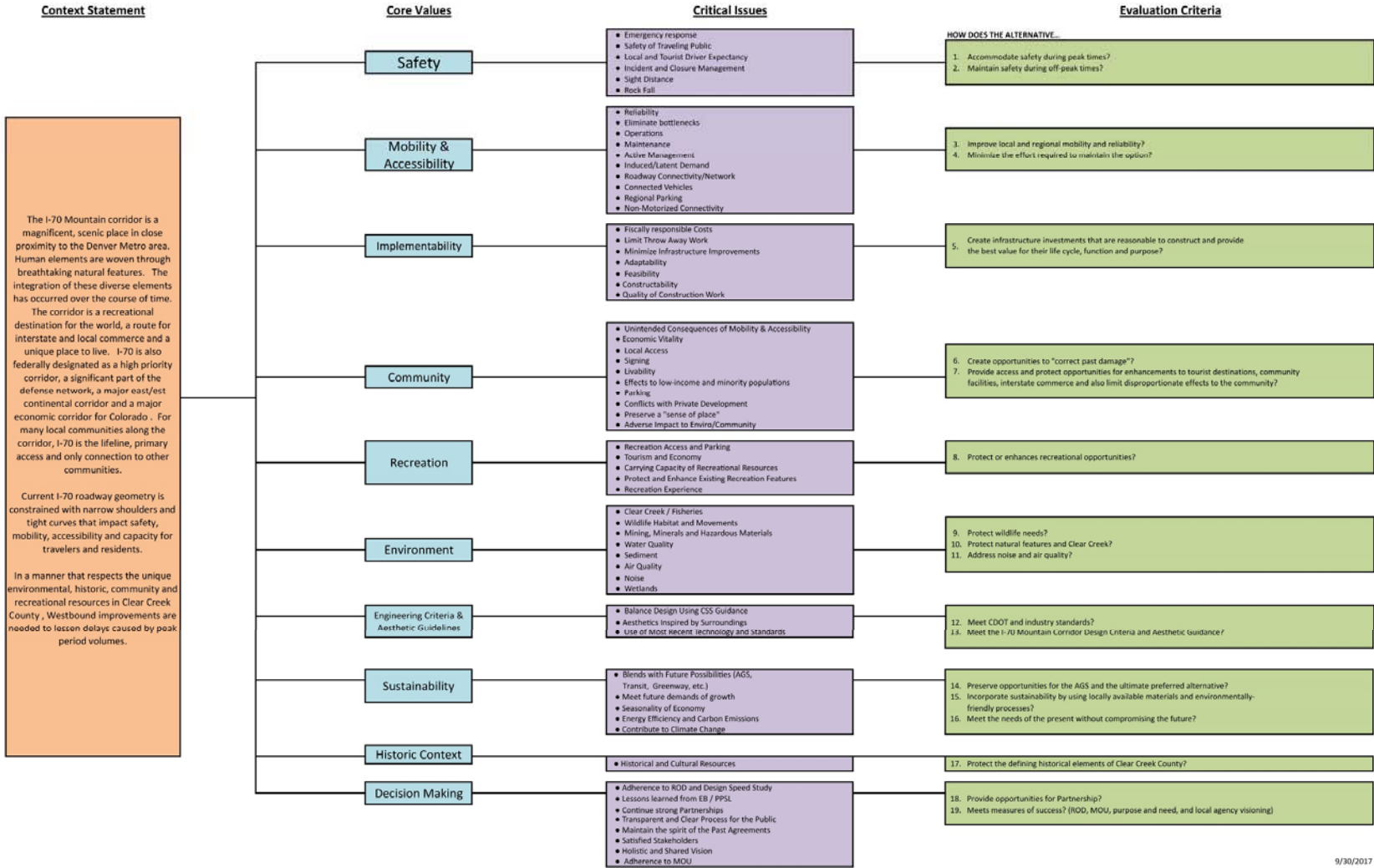
- Information from mapping exercise integrated into baseline contextual design
- Reviewed baseline contextual design
- Reviewed project elements, specifically Clear Creek Greenway Trail



# PROJECT UPDATES

- Floyd Hill
- Region 3 Vail Pass
- Idaho Springs Transit Center
- Colorado Boulevard Reconstruction
- Clear Creek Greenway
- Fall River Road Bridge
- Smart 70 / RoadX
- Geohazard Mitigation Program
- INFRA Grant – Results Spring, 2018
- Circulation Partnership Symposium





# CSS TRACKING SCHEDULE

I-70 MOUNTAIN CORRIDOR - WEST BOUND PEAK PERIOD SHOULDER LANE

## DRAFT Technical Team Schedule

ISSUES FOR TECHNICAL TEAM  
December 7, 2017

ISSUES	2017						2018						2018															
	JUL		AUG		SEPT		OCT		NOV		DEC	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		
	2ND	4TH	2ND	4TH	2ND	4TH	2ND	4TH	2ND	5TH	2ND	2ND	4TH	2ND	4TH	2ND	4TH	2ND	4TH	2ND	4TH	2ND	4TH	2ND	4TH	2ND	4TH	
<b>DISCUSSION ITEMS FOR REVIEW</b>																												
CONTEXT STATEMENT/CORE VALUES			★	●																								
COMMUNITY CONSIDERATIONS/OPPORTUNITIES			★	●																								
CRITICAL ISSUES			★	●																								
EVALUATION CRITERIA			★	●																								
VISIONING IDEAS			★	●																								
COMPONENTS AND DESIGN PARAMETERS				■	●	●	●	●																				
CONTEXT (SEGMENT DEFINITIONS)				■																								
ANALYSIS & SPECIFIC SAFETY RECOMMENDATIONS				■	●	●	●	●																				
<b>ROADWAY DEFINITION</b>																												
ROADWAY STRIPING OPTIONS						■	★	●	●	●	●																	
ROADWAY ALIGNMENT OPTIONS						■	★	●	●	●	●																	
ROADWAY WIDTH CONTEXT / FOOT BY FOOT						■	★	●	●	●	●																	
ROADWAY WIDTH SCENARIOS						■	★	●	●	●	●																	
SH 103 INTERCHANGE / FOCUS AREA 1											★																	
WIDENING MEDIAN VS. MOUNTAIN / FOCUS AREA 2												★																
EMPIRE JUNCTION/ FOCUS AREA 3													★															
CORRIDOR SAFETY TOOLS											★																	
ACCELERATION & DECELERATION LANES											★																	
SIGNAGE/ATM											★																	
<b>STRUCTURAL COMPONENTS</b>																												
I-70 BRIDGES																												
RETAINING WALLS																												
<b>INTEGRAL COMPONENTS</b>																												
TRANSIT/PARKING																												
PULL OUT LOCATIONS																												
EMERGENCY RESPONSE																												
GREENWAY																												
DRAINAGE																												
AESTHETICS REVIEW																												
HOURS OF OPERATION (INTERIM DEFINITION)																												
SNOW AND SAND REMOVAL																												
CONSTRUCTION CSS																												
PUBLIC INFORMATION																												
WILDLIFE MOVEMENT (ALIVE MEETINGS)																												
INDUCED/LATENT DEMAND																												
ENFORCEMENT AND TRUCK OPERATIONS																												
NOISE/AIR QUALITY																												
ROD COMPATIBILITY																												
SUMMARY OF IMPACTS AND MITIGATION																												

LEGEND: ■ SHADED ITEMS ARE COMPLETE ■ DISCUSS CRITERIA ★ DISCUSSION OF CONCEPTS ● DECISION MATRIX / DECISION

Start NEPA Analysis

Finalize CSS Project Design (Dr. Cycle and RUP)



# RESPONSES TO TECHNICAL TEAM ISSUES



## Safety Tool Box

### Physical

- Widths: Lanes, Shoulders, Buffers, Shy Distance
- Lighting
- Pullouts
- Rumble Strips
- Bridge Treatments
- Clear Zones/Unpaved hardened shoulder
- ITS: VMS, DSRC, Ramp Meters
- Acceleration and Deceleration Lengths
- Ramp Terminal Designs
- Vehicle-Wildlife collision mitigation
- Signage

### Operational

- Variable Speed Limits
- Enforcement – Speed and Lane Violation
- Winter Operations Plan:
  - Plowing
  - Courtesy Patrol
  - Traffic Incident Mgmt
  - Other
- Speed Harmonization





# DISCUSS PROPOSED SOLUTIONS

## **CONTEXT MAPS REVIEW**

- **Idaho Springs – Focus Area 1**
- **Identify alternative decisions**
  - **Limits of barrier**
  - **Length of EB on-ramp**
  - **Exit 239 Interchange**
  - **Others?**
- **Issue Specific Criteria**
- **Evaluation (matrix) as needed**





**NEXT STEPS**

- Decision points from Focus Area 1
- Focus Area 2
  - Identify alternative decisions
  - Issue specific criteria
  - Evaluation



## **PARKING LOT ISSUES**

- **Better define CSS during construction**
  - **Improved communication**
  - **Improved traffic control**
  - **Improved safety**
  - **School District issues during construction**
- **Public Health issues**
- **Modeling projections vs actual impacts (i.e., air quality, noise, vehicular trips)**
- **Residential Historic District in Idaho Springs**
- **Project Branding (i.e., express vs. peak period shoulder lane)**
- **Broadband**
- **Variable Speed Limits**
- **Weigh Station Access**



## FUTURE TT MEETINGS

- 2<sup>nd</sup> and 4<sup>th</sup> WEDNESDAY of the month
- 9 am to noon
- CDOT Golden
- NEXT MEETING: January 10, 2018



