



## CITY COUNCIL WORK SESSION MEMO

DEPARTMENT	PRESENTED BY	DATE
Public Works	David Lady - Public Works Director	August 19, 2024

### **AGENDA ITEM**

State Highway 291 West Entry Streetscape Improvements Update

### **BACKGROUND**

Design work is underway for the State Highway 291 West Entry Streetscape Improvements. This includes bike lanes, sidewalks, storm sewer, and other improvements comparable to what is underway at the east end of Oak Street (SH-291). Part of the design scope required a traffic evaluation of the Mesa Lane and SH-291 intersection. This intersection receives considerable traffic during the peak hour as it is utilized by commuters. The attached presentation by SEH, the consulting engineers on the project, identifies pros and cons of a traditional intersection versus a roundabout for addressing current and future traffic demands. This includes safety, speed of traffic, and cost implications. The roundabout option is currently being proposed due to the evaluation criteria results. Design criteria received from the Fire Department were also incorporated into the proposed concept.

The schedule for design work is critical to have construction completed by 2026 as required by the grant funding provisions. However, given the current stage in design, changes requested by Council could be incorporated without significantly impacting the scope or budget.

### **REQUESTED DIRECTION FROM COUNCIL**

Staff requests direction from Council to determine whether the design direction should continue as proposed or offer any alternative suggestions.



# SH-291 West Entry Streetscape Improvements

CDOT Local Agency Project #25249



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SALIDA, CO | AUGUST 2ND, 2024







**A**

**GATEWAY TO THE CITY**

**B**

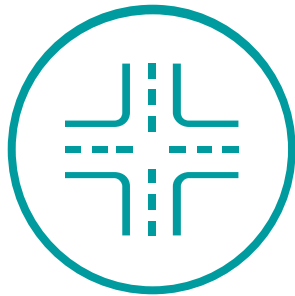
**MESA LANE INTERSECTION**

**C**

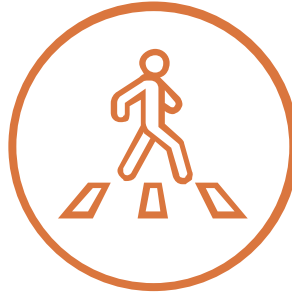
**PEDESTRIAN CROSSINGS**



KEY PROJECT CONSIDERATIONS



WAIT TIMES



SAFETY



COST



## MESA LANE INTERSECTION



### WAIT TIMES (LEVEL OF SERVICE)

- CURRENT NORTHBOUND LEFT TURN FROM MESA LANE IS LEVEL OF SERVICE C “STABLE FLOW”  
(15-25 SECONDS OF DELAY PER VEHICLE)
- ROUNDABOUT OR SIGNALIZATION WOULD IMPROVE TO LEVEL OF SERVICE A “FREE FLOW”  
(0-10 SECONDS OF DELAY PER VEHICLE)
- SIGNALIZATION IS NOT CURRENTLY AN OPTION  
(DOES NOT MEET MUTCD WARRANT CRITERIA)

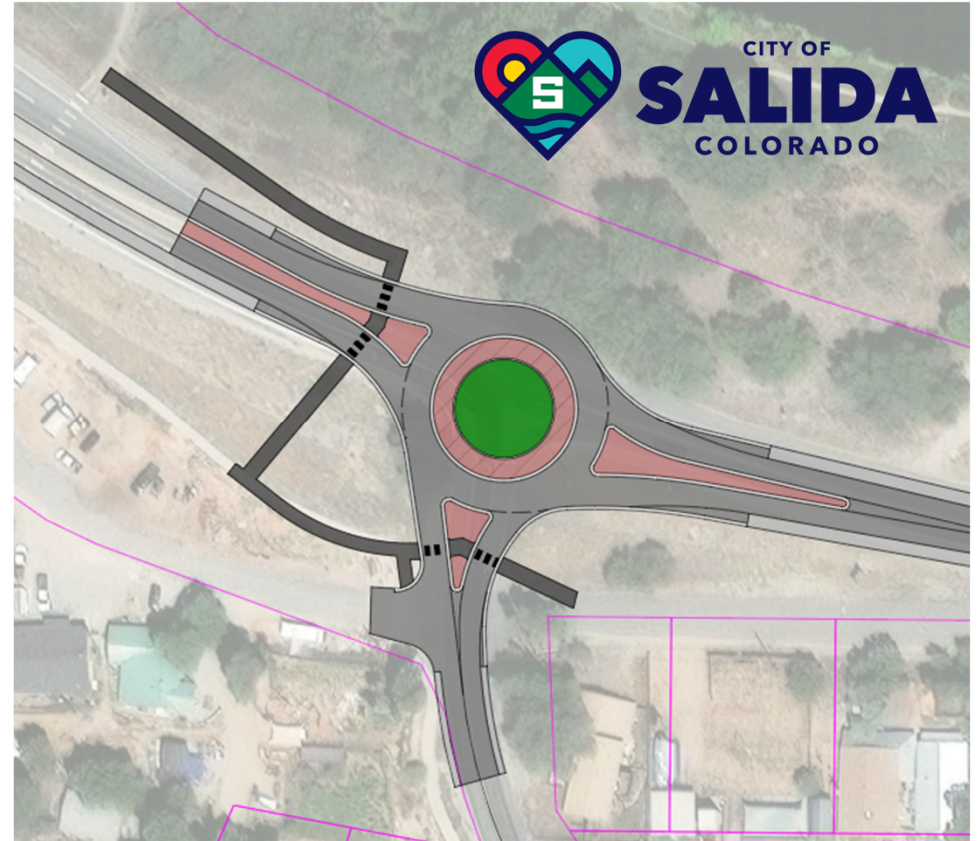


## MESA LANE INTERSECTION



### SAFETY

- ROUNDABOUT WILL COMPEL A REDUCTION IN TRAFFIC SPEED
- PROVIDES A IMPROVED PEDESTRIAN CROSSING
- WILL REDUCE THE LIKELIHOOD AND SEVERITY OF CRASHES
- WILL MEET SPECIFICATION PROVIDED BY FIRE CHIEF
- MAY DISCOURAGE HEAVY TRUCK TRAFFIC



## MESA LANE INTERSECTION



### COST

- ROUNDABOUT IS ESTIMATED TO ADD ~\$350,000 TO THE PROJECT COST
- FUTURE SIGNALIZATION IS ESTIMATES TO COST BETWEEN \$500,000 AND \$750,000







THANK YOU!



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