

Grand Canyon Drive Intersection Analysis for Citizens' Petition

Council Update

Incorporated County of Los Alamos
Public Works Department

October 8, 2024

Background

- Citizens' Petition Received May 22, 2024 and presented to Council on June 11.
- Petition Requested:
 - Evaluation of three intersections along Grand Canyon Drive at Sherwood Boulevard, Rover Boulevard, and Aragon Avenue for improved road and pedestrian safety improvements.
 - A traffic signal be installed on New Mexico State Road 4 at Sherwood Boulevard.
 - Note: State Road 4 is a state-owned highway and installation of a traffic signal at this intersection has already been approved by the New Mexico Department of Transportation with a design underway by the developer for the Mirador Mixed-Use Development.

Project Objectives

- Evaluate the petition request and analyze the three intersections on Grand Canyon Drive for pedestrian and safety improvements.
 - Staff coordinated with engineering on-call consultant Wilson and Co. to perform the analysis
 - Counts: Pedestrian and Traffic counts were collected once school was in session during week of August 19.

Analysis Scope of Work

- Field Data Collection
- Sight Distance Analysis
- Signal Warrant Analysis
- All-Way Stop Control Warrant Analysis
- Pedestrian Hybrid Beacon Warrant Analysis
- Crash Data Analysis 2018-2023

Analysis Results

- Sight Distance Analysis – All three intersections meet intersection and stopping sight distances. (Removal or ongoing maintenance of vegetation is required and has been completed or is underway.)
- Signal Warrant Analysis – No warrants were met.
- All-Way Stop Control Warrant Analysis – No warrants were met. (Removal or ongoing maintenance of vegetation is required and has been completed or is underway.)
- Pedestrian Hybrid Beacon Warrant Analysis – No Warrants were met.
- Crash Data Analysis 2018-2023 - Crashes in the area are minimal, with none occurring at the intersections. No pedestrians were involved in any of the reported crashes in the time period analyzed.

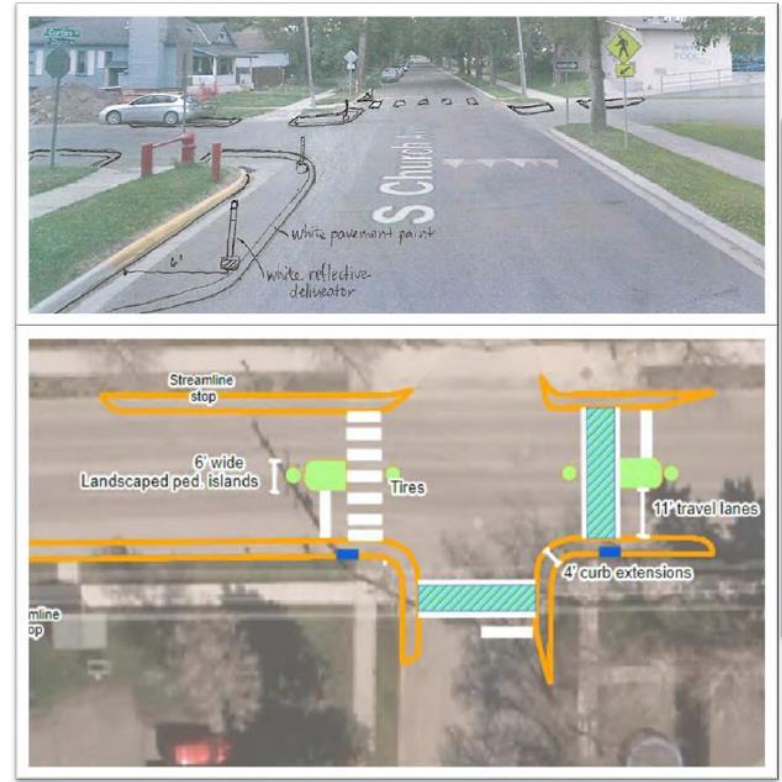
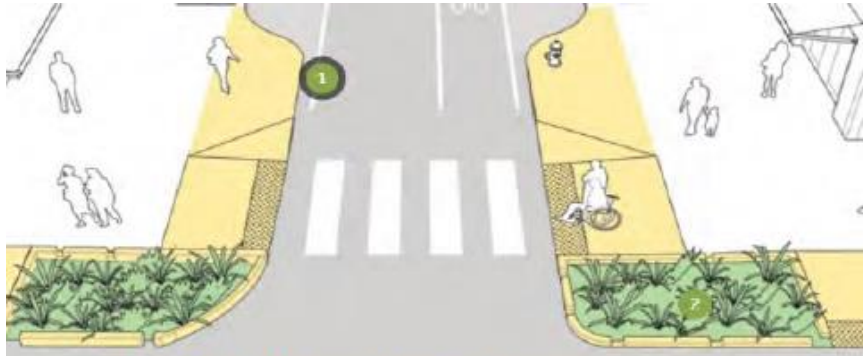
Analysis Recommendations and Next Steps

- Removal and relocation of flashing school zone lights near Sherwood Boulevard.
- Update of signage at Sherwood Boulevard intersection to current MUTCD Standards.
- Re-striping of worn and faded crosswalks at Rover Boulevard intersection.
- Installation of crosswalk at Aragon Avenue across Grand Canyon Drive.
- Further evaluation of additional traffic calming measures, enhanced pavement markings and signage.

Next Steps – Potential Traffic Calming Measures

-Pop-Up Quick Traffic Calming Measures

- Maximum 25-30 mph, Iterative Process, MUTCD Compliant
- Traffic Calming Reduces Traveling Speed and Yield Rates
- Reduce Crossing Distance increasing safety and visibility.
- Inexpensive and may lead to permanent installations.
- Potential for community and school involvement

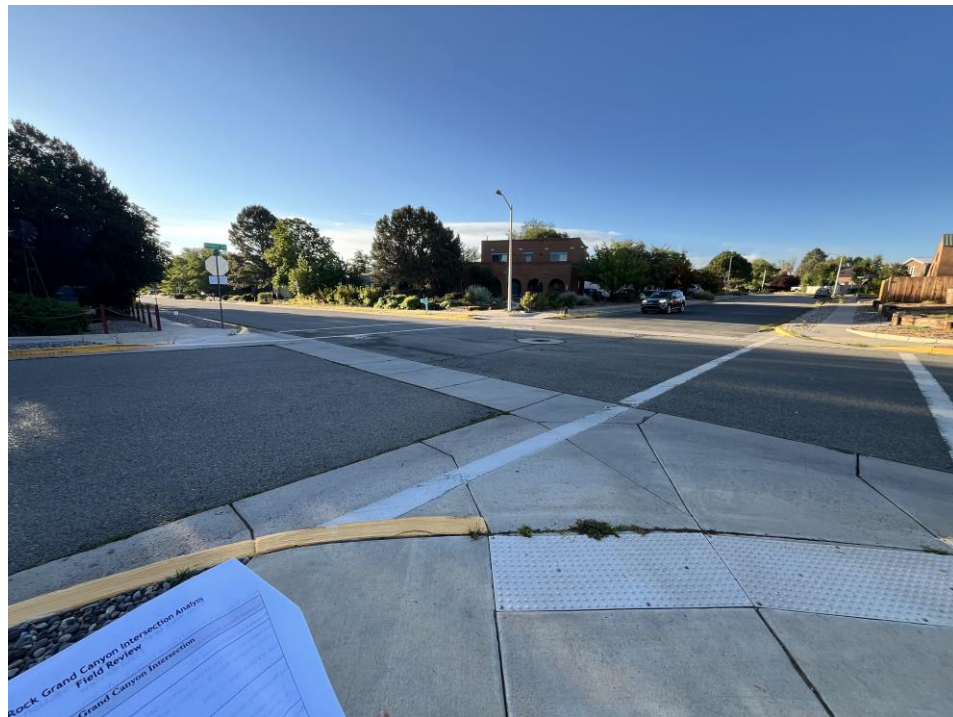


Next Steps – Potential Traffic Calming Measures



Photos Courtesy of Montana State University (Western Transportation Institute)

Aragon/Grand Canyon



Rover/Grand Canyon



Sherwood/Grand Canyon



Questions?

