

Advanced Signal Warning System Project Update

January 25, 2022



ADVANCED SIGNAL WARNING SYSTEM

ASWS are used to alert drivers when certain features are necessary to provide specific advance notice for a signalized intersection.

ASWS include the yellow signs stationed over the roadway that often feature flashing yellow lights to warn of a traffic signal ahead.







CONSIDERATIONS FOR ASWS USE

Considerations listed in the State Guidance

- Limited Sight Distance
- Isolated or Unexpected Intersection
- High Speed
- Engineering Judgment







WHEN SIGNAL IS FLASHING AND TRAFFIC LIGHT IS CLEARLY VISIBLE





ASWS CHANGES

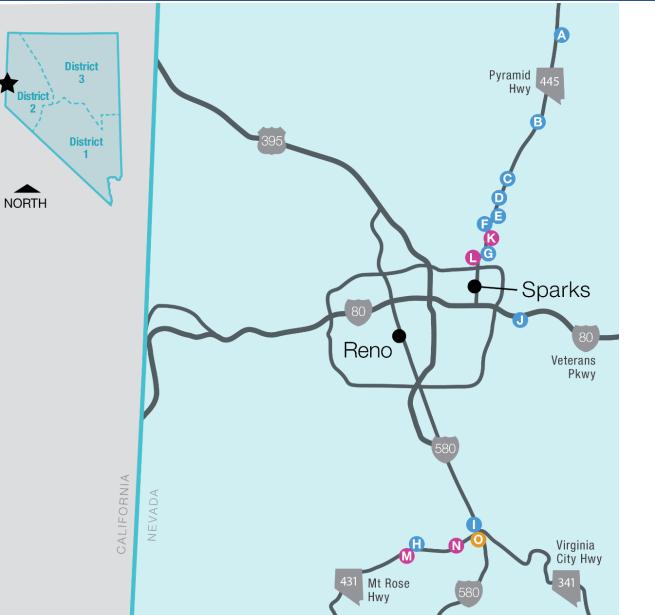
GOAL: to develop a unified approach statewide that promotes uniformity and consistency in the treatment of ASWS specific to each intersection's individual needs. This will enhance the safety of the traveling public and **promote better driver behavior**.

- System modifications have been successfully completed in Carson, Douglas, and Las Vegas.
- Similar modifications in other states have shown a reduction in travel speeds which enhances safety.





RENO-SPARKS AREA



TRAFFIC SIGNAL REMAINS, ELIMINATE ADVANCE WARNING SIGN

- (NB) SR-445 Pyramid Hwy / Calle De La Plata
- (NB/SB) SR-445 Pyramid Hwy / Eagle Canyon Dr / La Posada Dr
- 📀 (NB/SB) SR-445 Pyramid Hwy / Lazy Five Pkwy
- (NB/SB) SR-445 Pyramid Hwy / Sparks Blvd
- (NB/SB) SR-445 Pyramid Hwy / Golden View Dr
- (NB/SB) SR-445 Pyramid Hwy / Los Altos Pkwy
- (SB) SR-445 Pyramid Hwy / Disc Dr
- \rm (WB) SR-431 Mt Rose Hwy / Thomas Creek Rd
- 🕕 (SB) US-395A / SR-431 Mt Rose Hwy
- (NB) I-80 Veterans Pkwy / Greg St





- 🔇 (NB) SR-445 Pyramid Hwy / Disc Dr
- 📙 (SB) SR-445 Pyramid Hwy / Farr Ln / Queen Way
- (EB) SR-431 Mt Rose Hwy / Thomas Creek Rd
- (LB) SR-431 Mt Rose Hwy / Wedge Pkwy



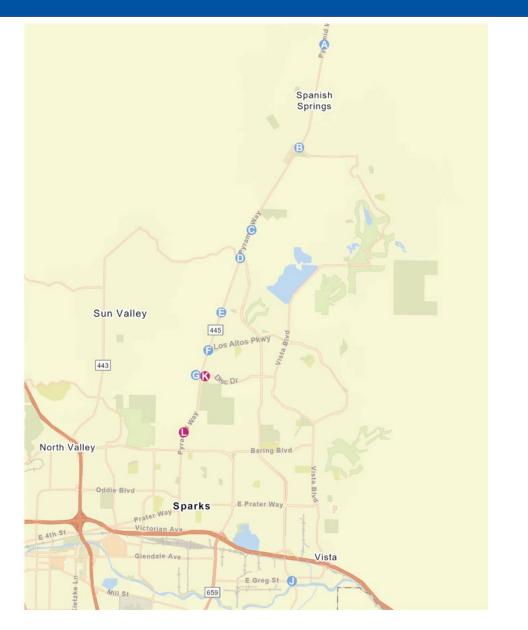


) (NB) US-395A / SR-431 Mt Rose Hwy

(SB) Southbound (NB) Northbound (EB) Eastbound (WB) Westbound



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MODIFY TIMING



- ((NB) SR-445 Pyramid Hwy / Disc Dr
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- 🚺 (EB) SR-431 Mt Rose Hwy / Thomas Creek Rd
- (B) SR-431 Mt Rose Hwy / Wedge Pkwy

CONVERT TO PASSIVE

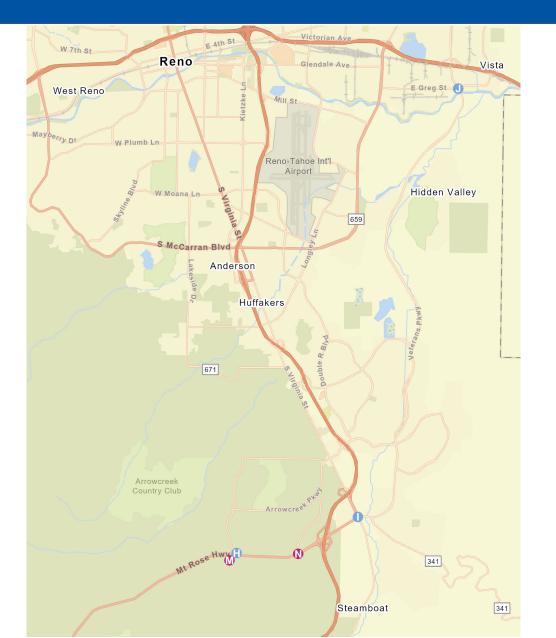


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PROJECT SCHEDULE





PROJECT UPDATE

Construction complete

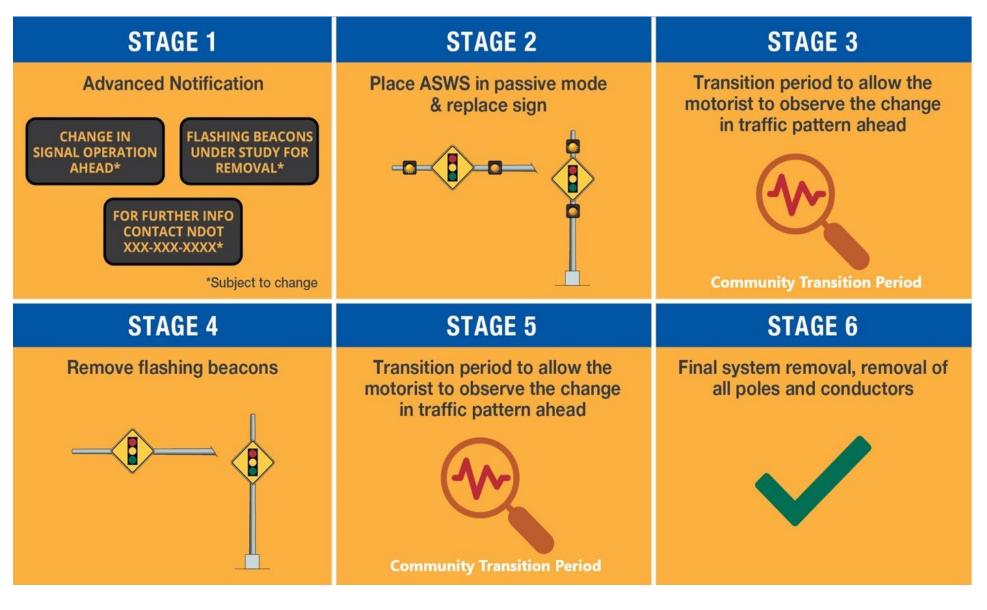
 ✓ Northern Nevada NDOT District 2 SOUTH: Carson City and Douglas County
✓ NDOT District 1: Clark County/Las Vegas Area
✓ NDOT District 3: Northeastern Nevada/Elko Area

Construction scheduled to begin in Spring/Summer 2022

Northern Nevada NDOT District 2 NORTH: Washoe County



DECOMMISSIONING PLAN STAGES





UNR TRAFFIC STUDY





UNR TRAFFIC STUDY

- UNR'S use of LiDAR (Light Detecting And Ranging) was completed in December of 2020 and prepared by the UNR Center for Advanced Transportation Education and Research
- The Intersection Traffic Study with LiDAR at Pyramid and Los Altos Pkwy was prepared for the Regional Transportation Commission (RTC), Washoe.
 Methodology
 - 7 speed-study zones for each southbound lane
- Conclusion
 - When both the ASWS signal <u>and</u> traffic light were clearly visible, most vehicles sped up by a few miles per hour after the ASWS signal was activated



PROJECT OVERVIEW

After decommissioning was carried out in Carson City, Douglas County, and Las Vegas, **no crashes have been recorded by our road operations center.**



STAY CONNECTED



Website: NVsafesignals.com

Communications Toolkit

- Frequently Asked Questions
- District Fact Sheets
- Video



Hotline: 775.888.7000



Email: info@dot.nv.gov



THANK YOU