

# Signal, Timing, Evaluation, Verification, and Enhancement (STEVE) (Various Locations: NW 139<sup>th</sup> Street to Padden Parkway) Clark County

Project Completed: December 2019

CRP #: 352122

## Project Information

RTC funding: \$920,000 CMAQ Program

Total Project Cost: \$1,365,000

Project Type: Transportation Safety Improvement

Project Length: 15.2 miles

Function Class: Principal Arterial

Daily Traffic Volume: 20,000 ADT



## Project Description

This project installed Intelligent Transportation System (ITS) devices, data collection technology creating a standard method to evaluate the effectiveness of changes made to the county's traffic signal network. The standardization method of analyzing and measuring changes allows consistent reporting of before and after impacts of projects and enables traffic engineers to further optimize corridor capacity and relieve traffic congestion.

## Project Benefits

- Before and After studies of improvement projects are needed to validate the effective use of transportation funding as well as standardize the reporting of traffic data.
- Adding the infrastructure and framework to measure the effects of transportation projects supports several regional management and roadway operation strategies that are specified in the Regional Transportation Systems Management and Operations (TSMO) Plan.
- Measuring signal timing and configuration changes in a consistent way improves regional decision-making. Adding Bluetooth receivers and Wavetronix devices created an expanded network of travel-time detectors and count stations on more than 15 miles of the county's busiest roadways, allowing more robust analysis of roadway capacity and congestion.
- Resulting data is now collected 24-hours a day, providing continuous and comprehensive information for regional planning. The reporting framework and MOE's developed with this project further enhanced regional mobility by creating field-proven measures presented in a consistent format across all types of projects.

## Project Funding

Phase	Year	Federal Funds	Other Funds	Total
Design	2015	\$360,000	\$255,000	\$615,000
Right of Way	2017	\$0	\$3,000	\$3,000
Construction	2016	\$560,000	\$187,000	\$747,000
Total		\$920,000	\$445,000	\$1,365,000

# Project Map

