NDOT Active Traffic Management System

LaShonn Ford
ITS Project Manager
Traffic Operations
Project Neon – Las Vegas, Nevada

• Project Highlights
  • Improve Mobility and Safety
  • Project includes newly constructed and reconstruction of the I-15 and US 95/I-515 freeway system

• Includes the following:
  • Upgrades to the lighting system
  • Landscaping and Aesthetics
  • Safety improvements
  • Signals
  • ITS for the ATM system

• All lanes open by May 10th, 2019
  • 60 Day system acceptance test.
Why ATM?

- ATM supports NDOT goals
  - Improve Safety
    - Reduce Crashes
    - Reduce Incident Duration
    - Support Work Zone Management
    - Speed Harmonization
  - Provide a Reliable Transportation Network
    - Incident Management
    - Reduce Congestion
    - Secondary Crash Prevention
    - Traveler Information
Project Neon ATM Elements

ATM Gantries
- Full Color, Full Size Electronic Displays
- Speed Limits
- Lane Control
- Messages
- Flow Detectors
  - Traffic Monitoring
- CCTV (Cameras)
  - Traffic Monitoring
  - Display Monitoring
ATM Development

• ATM implementation process
  • Systems engineering
  • Design
  • Software Development
  • Operations

• Other States
  • 2014 Virtual Peer Exchange USDOT, NDOT, VDOT, MnDOT, TDOT, WSDOT, ODOT, and Battelle
  • Peer to Peer Exchange with MnDOT

National Operations Center of Excellence
Gantry Locations
ATM Concept of Operations

- Goals and objectives
- ATM Applications Overview
- System Overview and Operational Needs
- Concepts of the Proposed System
- Operational Scenarios
- Roles and Responsibilities
Lane Control Signs

- **OPEN**
- **CLOSED**
- **MERGE**

Reduced speed ahead
MUTCD W3-5

- **HEAVY CONGESTION**
- 2 MI AHEAD
- RIGHT 2 LANES

Queue warning display

- **SPEED LIMIT** 45
- **REDUCED SPEED AHEAD**
- **ROAD CLOSED AHEAD**

Current speed limit
Reduced speed ahead
Road closed ahead

- **RIGHT LANE CLOSED AHEAD**
- **MERGE LEFT**

Dynamic merge display
Planned Closure Scenario
ATM Testing

- ATM signs assist with Neon construction as project wraps up
Gantry Configuration Wizard
Questions?

LaShonn Ford
NDOT Traffic Operations
lford@dot.nv.gov
(775)-888-7566