

APPENDIX K: EL DORADO COUNTY ITS SHORT AND LONG TERM ACTION PLAN

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EC1 - PLACERVILLE SIGNAL SYSTEM TECHNOLOGY ADVANCES

Project Description: This project will begin by conducting a traffic study for the City of Placerville and developing an approach toward managing congestion. This approach will likely rely heavily on many of the following signal system technologies to help alleviate congestion:

- ◆ Detection at signals (loops or video)
- ◆ Signal actuation programming
- ◆ Better timing plans
- ◆ Improved signal coordination
- ◆ Signal interconnect
- ◆ Centralized control
- ◆ Emergency vehicle preempt (*This project could also accommodate replacement of several signals as needed.*)

EC2 - LOWER U.S. 50 FREEWAY MANAGEMENT

Project Description: This project will install 13 ramp meters at interchanges on U.S. 50 between Shingle Springs and the Sacramento County line for freeway congestion management.

EC3 - U.S. 50 WINTER TRAFFIC MANAGEMENT

Project Description: This project will install a mainline meter near Pollock Pines for east bound traffic and three Road Weather Information Systems (RWIS) along U.S. 50 to aid in managing traffic during winter weather and chain restrictions.

EC4 - U.S. 50 TRAVELER INFORMATION

Project Description: This project will provide installation of as many as nine Dynamic Message Signs (DMS) and three Highway Advisory Radio (HAR) transmitters along U.S. 50.

EC5 - U.S. 50 SURVEILLANCE

Project Description: This project will provide installation of four CCTV or web cameras and six traffic-monitoring stations along U.S. 50, with locations determined at a later date.

EC6 - IMPLEMENT/EXPAND AVI/AVL TECHNOLOGIES FOR PUBLIC TRANSIT

Project Description: This project will install AVI/AVL and other equipment on a limited number of selected vehicles and enable transit dispatch facilities to monitor. It will also provide the possible ability to provide information to users at bus stops. One major focus of these projects will be improved coordination between the South Tahoe Area Ground Express (STAGE) and El Dorado Transit with the intent of providing travelers with greater use information related to connections.

Potential Technologies

- ♦ AVI/AVL
- ♦ CAD Computer Aided Dispatch
- ♦ En-route information to users
- ♦ Automatic Fare Systems
- ♦ Electronic Payment Systems (Smart Cards)
- ♦ Ridership Tracking Systems

EC7 - INSTALL ICE DETECTION AND WARNING SYSTEMS - U.S. 50

Project Description: The first step in this project is to identify specific locations where roadway ice is a recurring problem on U.S. 50. To address the problem areas the project will then install ice detection technology and motorist warning capabilities, likely consisting of DMS, at key locations. Systems will also report roadway ice conditions to the RTMC or maintenance facility to activate response.

EC8 - INSTALL DOWNHILL SPEED WARNING SYSTEM ON U.S. 50 (NEAR CAMINO)

Project Description: This system will provide motorist warning messages based on approach speeds to this highway segment.

EC9 - INSTALL ANIMAL VEHICLE COLLISION AVOIDANCE SYSTEMS S.R. 49 AND U.S. 50

Project Description: This project will deploy technology to address the animal vehicle collision problem areas on SR 49 and U.S. 89 in El Dorado County. This project will also look at the potential for other needs within the county and conduct deployments where needed.

EC10 - AVI/AVL FOR EMERGENCY VEHICLES

Project Description: This project will install AVI/AVL equipment on emergency response vehicles and tracking equipment in emergency service dispatch and possibly TMC.

EC11 - INSTALL ROCK/MUDSLIDE AND AVALANCHE DETECTION AND WARNING SYSTEM

Project Description: This project will review the locations within El Dorado County, especially on U.S. 50 and SR 49, that have noted mud and rock slide areas or avalanche zones and explore the potential for using detection technology. Where appropriate, detection systems will be installed. In addition, the project will explore opportunities to provide motorist warnings through integration with existing DMS and/or installation of additional traveler information strategies.