

Western States Rural Transportation Consortium Meeting

June 17, 2014

Overview/Agenda

- Welcome / Introductions
- Western States Forum Preview
- WSRTC Pooled Fund updates/discussions
- Incubator updates
- General project discussion
- Roundtable of recent/planned ITS activities
- Other discussions (as needed)

Western States Rural Transportation Technology Implementers Forum

Preview



Western States

Rural Transportation
Technology Implementers

Forum

Western States Rural Transportation Technology Implementers Forum

June 17-19, 2014

Yreka, California

Holiday Inn Express



Western States

Rural Transportation
Technology Implementers

Forum

Presentations/Demonstrations

The Field Element Communications End Game: From POTS to Licensed Microwave

Jeremiah Pearce, P.E. , Caltrans, District 2

WSDOT LED Adaptive Roadway Lighting and Illumination Reform

Keith Calais, Washington State Department of Transportation

Control of DMS, CCTV, HAR, and 511

Phil Braun , Idaho Transportation Department

Commercial Wholesale Web Portal 2: Providing Caltrans' Traveler Information Data to Third Party Developers

Sean Campbell, Caltrans DRISI

Mike Jenkinson, Caltrans Traffic Operations



Western States

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Presentations/Demonstrations

Model 2070 Controller and ATC: Present and Future

Herasmo Iniguez
Caltrans, Headquarters

Organized Chain-Up: Save the Space – Bringing Order to Chaos

James Todd Daley
Washington State Department of Transportation



Schedule of Events

Tuesday, June 17th

- 4:00 pm Registration
- 5:00 pm Reception (no-host)
- 6:30 pm Dinner, Networking

Wednesday, June 18th

- 8:00 am – 5:15 pm Technical Program
- 6:00 pm Social, Networking

Thursday, June 19th

- 8:00 am – 11:30 am Technical Program



Discussion

- 9th Annual Western States Forum
- 38 Participants Registered:
 - By State:
 - CA (24)
 - ID (1)
 - MT (2)
 - NV (2)
 - OR (4)
 - WA (5)



Discussion

Caltrans Participants:

- D1 (2)
- D2 (6)
- D3 (1)
- D4 (1)
- D6 (2)
- D8 (1)
- D9 (1)
- D10 (2)
- HQ (4)
- DRISI (1)
- OSM (1)



Discussion

– Participants from Other Agencies:

- AHMCT UC Davis (1)
- City of Salem Public Works Department (2)
- FHWA-California Division (1)
- Idaho Transportation Department (1)
- Nevada Department of Transportation (1)
- Oregon Department of Transportation (2)
- University of Nevada Reno (1)
- Washington State DOT (5)
- Western Transportation Institute (2)

www.westernstatesforum.org

WSRTC Pooled Fund update/discussion

WSRTC Meeting Coordination, Western States Forum Travel Support and Website Maintenance (Task Order 4)

- Start Date: 5/1/2013
- End Date: 10/31/2014
- Budget: \$80,000
- WSRTC Meeting Facilitation and Attendance:
 - NRITS 2014 (if sufficient funds remain)
 - Other meetings via teleconference as needed.
- Western States Forum Support
- Website Content and Maintenance
- Estimated \$10,000 remaining after June.

Rural Traveler Information (One Stop Shop) (Task Order 2)

- Start Date: 10/1/2011
- End Date: 9/30/2014
- Budget: \$150,000
- A no-cost extension was granted, with the objective of covering the 2013-2014 bad weather season.
- We will need another extension. This will cover the 2014-2015 bad weather season and will allow for expansion to cover additional states.
- There will be approximately \$110,000 remaining after June 2014.

WSRTC Pooled Fund

- Interest in renewal of Pooled Fund after expiration (June 30, 2016)
- Other Items for Discussion

Incubator Project Updates

Survey of Safety Warning Devices

- Agency contacts concluded
 - Occasional new systems pop up and contacts have been forwarded
- Approach was been successful
 - Good leads provided by steering comm., led to additional contacts via our interviews
- Contacts made with all states of interest
 - CA, OR, WA, NV, AK, ID, AZ, NM, MT, WY, CO, UT

Survey of Safety Warning Devices

- Systems identified/documentated:
 - Ice/Weather warning (11)
 - Animal warning (9)
 - Curve Speed warning (21)
 - Traffic/Queue warning (8)
 - Variable Speed Limit (3)
 - Wind warning (7)
 - Runaway Truck Ramp (3)
 - Flood warning (4)
 - Visibility warning (6)
 - Tunnel warning (2)
 - Seismic warning (2)
 - Other (8) [vehicle overlength detection, travel time, automated deicing]

Survey of Safety Warning Devices

- State totals:
 - Alaska – 0
 - Arizona - 5
 - California - 26
 - Colorado - 2
 - Idaho - 1
 - Montana - 3
 - Nevada - 2
 - New Mexico - 3
 - Oregon - 16
 - Utah - 5
 - Washington - 16
 - Wyoming - 7

Survey of Safety Warning Devices

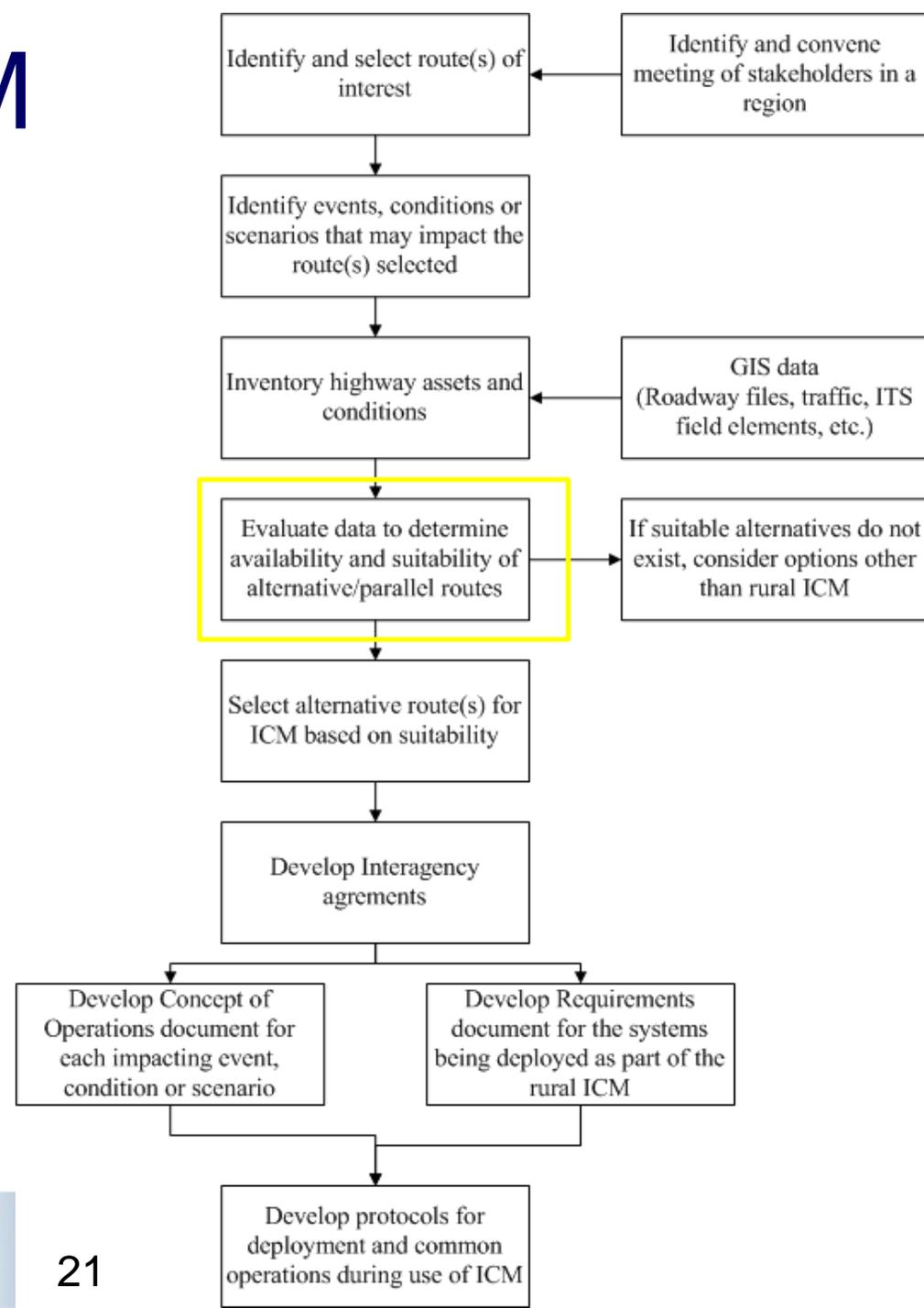
- Status
 - Work completed, draft of report reviewed by steering comm., comments addressed
 - Additional systems occasionally added as identified or as new contacts provided
 - Report will be sent out to group and those who were interviewed with committee approval
- Comprehensive update of document recommended on a four year basis

Regional ICM Planning

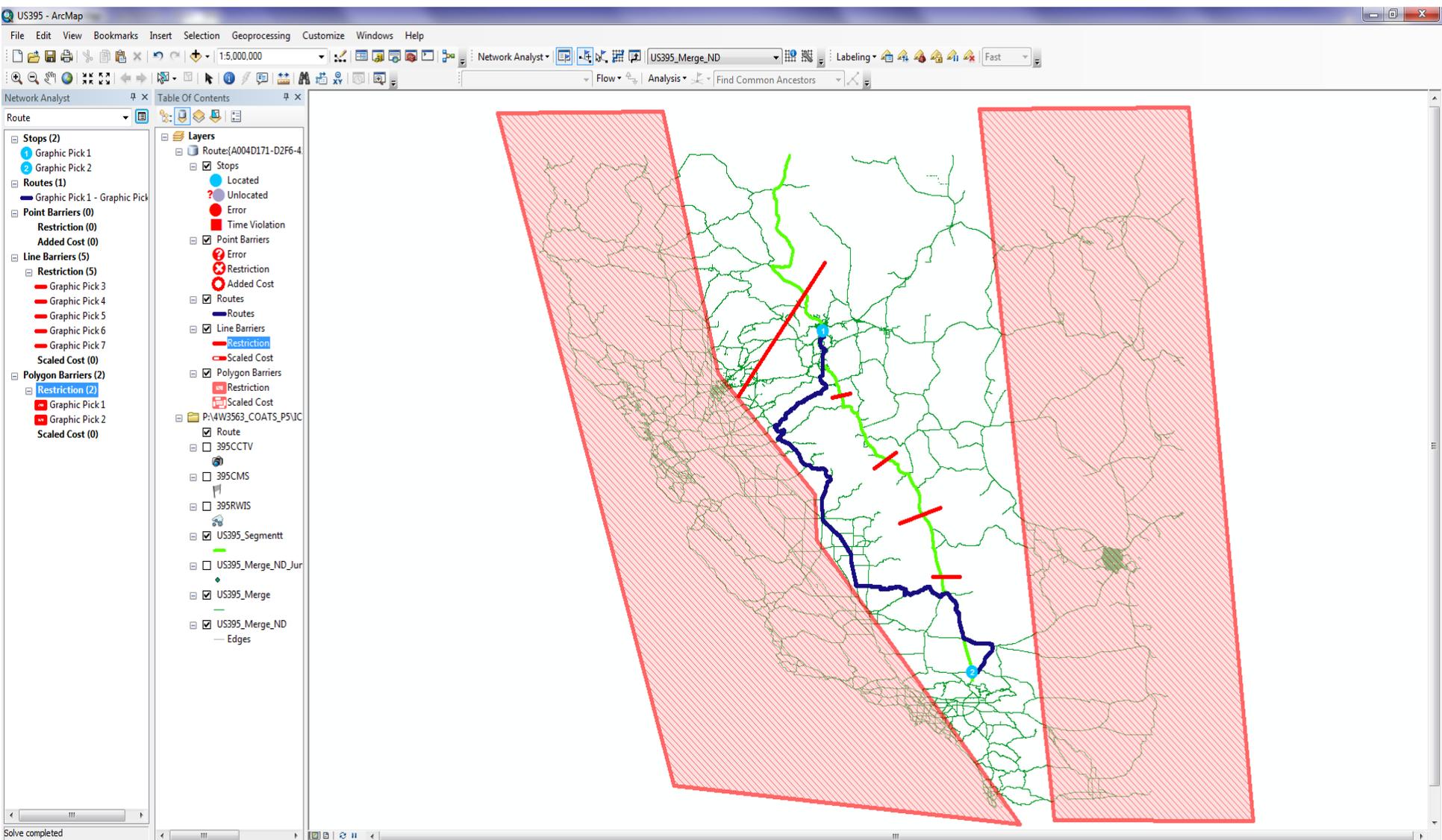
- Establish guidance and criteria to initiate, plan and develop rural ICM plans
- Work to-date
 - Literature review
 - Document ICM Planning (urban) and Emergency Operations Center protocols
 - Develop rural ICM planning process
 - White paper project discussion and update of current status
 - Construct dataset

Regional ICM Planning

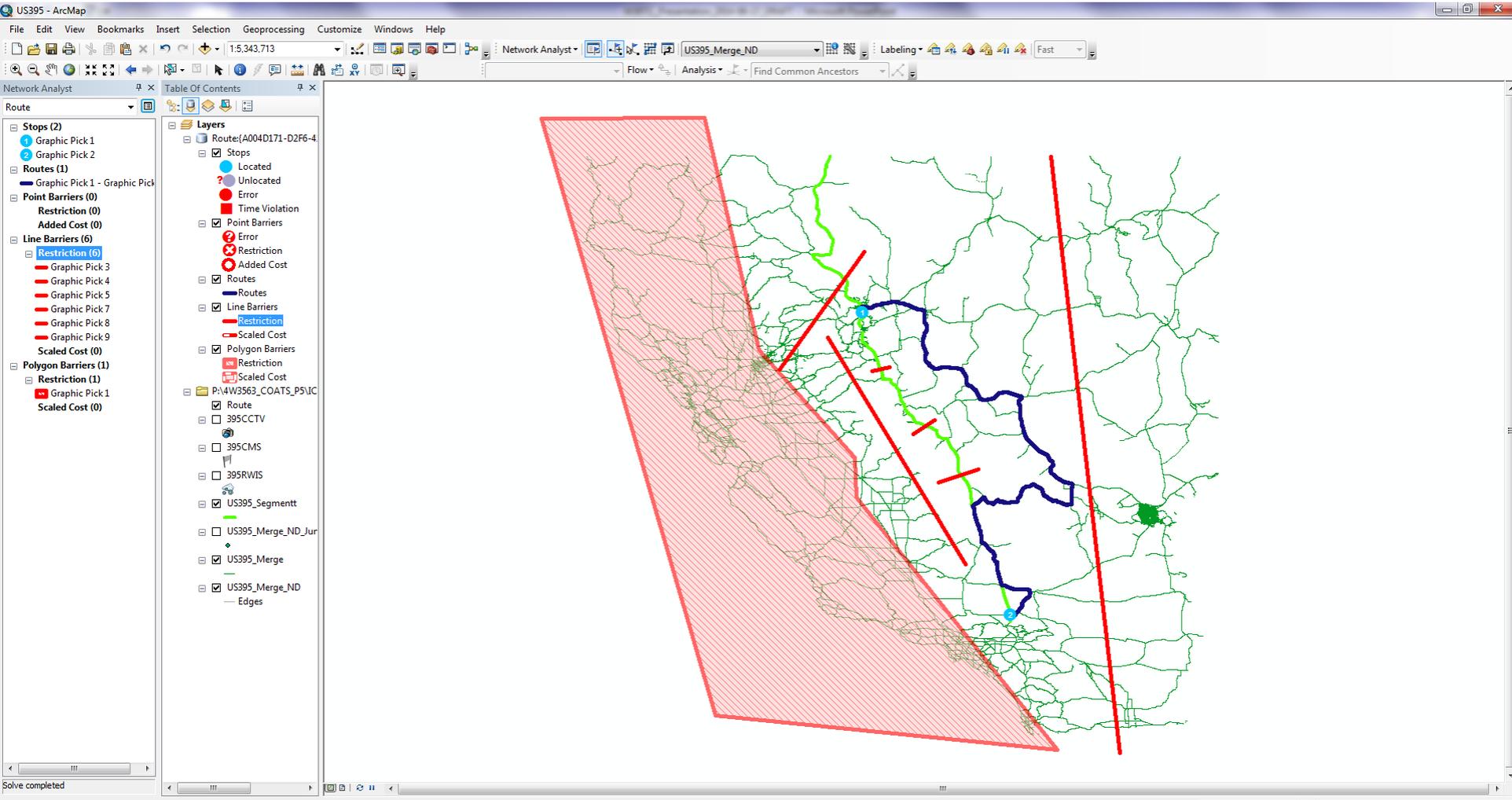
- Approach
 - GIS data for roads in varied formats
 - Base data for roads and traffic via HPMS
 - Field element data available
 - Identify and evaluate alternative routes in GIS
 - Summarize and report results



US 395



US 395



Regional ICM Planning

- These are the initial aspects of identifying routes
 - Additional data such as terrain (grades) and other restrictive features need to be
- Prospective routes identified by restrictions and added costs (longer travel times)
- Future traffic/flow data are not available in GIS formats that can readily transfer
 - Planning approach applies to present/recent conditions

Regional ICM Planning

- Next Steps and Needs
 1. Complete route analysis for the selected corridor(s) and document the overall process
 - Demonstrate how alternative routes can be identified and determined suitable for use in regional ICM deployments
 - Demonstrated process will not develop Con Ops or Requirements documents, interagency agreements or operations protocols
 2. Final report and review/comment

Bluetooth Evaluation

- Bluetooth to be used for wait time estimation at chain-up area.

FAWNDALE



Pit River Bridge

Fawndale

Pine Grove

Oasis Road

I-5 SR299

I-5 SR44

Redding

Riverside

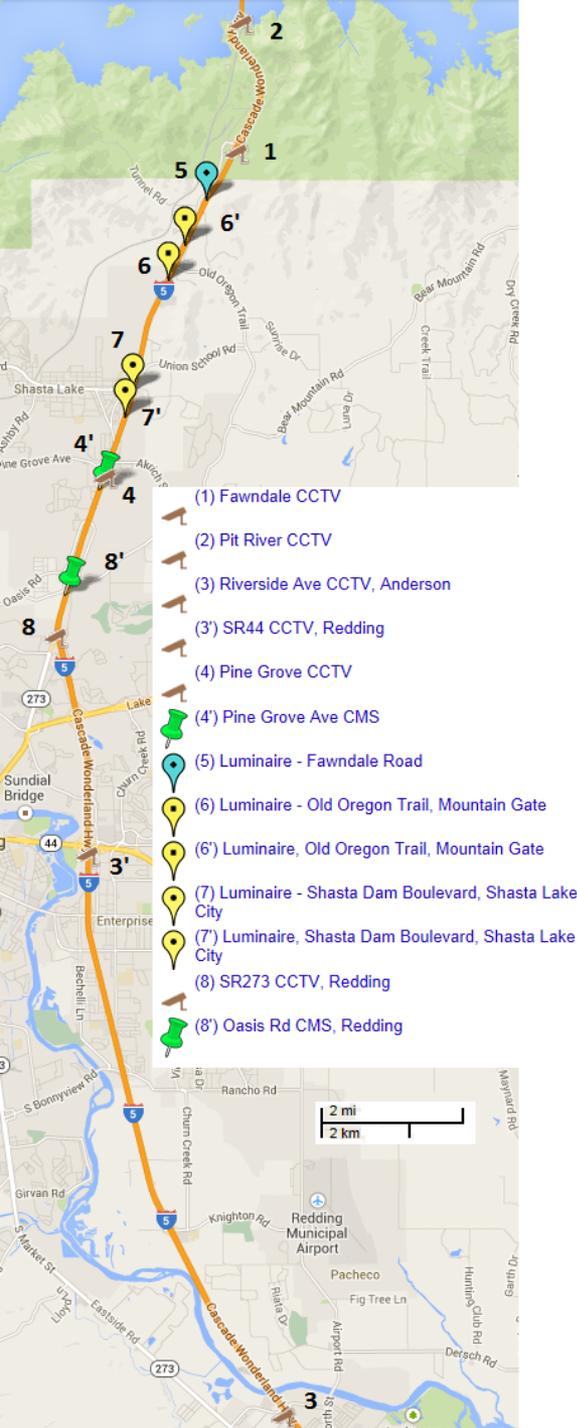
PINE GROVE
PRESET 1



Bluetooth Evaluation

Tasks:

- **Task 1: Project Management**
- **Task 2: Identify Sources for Bluetooth Receivers**
- *Task 3: Observe Conditions during Base Weather Season*
- **Task 4: Preliminary Algorithm Development**
- **Task 5: Identify Number and Locations for Bluetooth Receivers**
- **Task 6: Deploy Bluetooth Receivers**
- **Task 7: Verify Bluetooth Receiver Operation**
- **Task 8: Summary Document**



General project discussions

Spin-Off Projects – On-Going

- Professional Capacity Building (PCB) for Communication Systems
 - Phase 3 Pending
- Western States One Stop Shop for Rural Traveler Information
 - Phase 2 in Progress
 - 10/1/2011 - 9/30/2014
 - Extension granted to cover 2013-2014 bad weather season.
 - Another extension needed.
- WeatherShare
 - Phase 3 Initiated
 - 7/3/2012 – 6/29/2014
 - Extension through December 2015 being processed.

Spin-Off Projects – On-Going

- Integration of Aviation AWOS with RWIS
 - Phase 3 Initiated
 - 7/3/2012 – 6/29/2014
 - Extension through December 2015 Granted
- WeatherShare Integration with QuickMap
 - Pending
 - 3/17/2014 – 6/30/2017

Roundtable of Recent ITS Activities

Upcoming Steering Committee Meetings

Steering Comm. Mtg.

- Interest in meeting at upcoming National Rural ITS meeting?
 - Branson, Missouri - August 24-28
- Other ideas/interest for later meeting dates?

Other Discussions

Items

- Next meeting
- Action items
- Other

Wrap-up