

Cornelius Pass Road Safety Improvements



April 16, 2013 Open House



Overview

- What's Been Done
 - 2007 – 2009 County improvements
 - 2008 Road Safety Audit
 - 2008 – 2010 County improvements
 - 2011 ODOT Report
 - Current Projects
 - 2013 ODOT projects
- (continued)

Overview

Current Projects (continued)

- 2013 – 15 County improvements
 - Project Funding, Schedule
 - Public Input So Far & Future Opportunities
- Questions

2008 Road Safety Audit

- Formal safety performance examination
- Independent, multidisciplinary team
- Identified 18 safety issues



2008 Road Safety Audit

- 1: Hazards in the Clear Zone**
- 2: Centerlines**
- 3: Existing Guardrails and Barriers**
- 4: Vehicles Crossing over Centerline**
- 5: General Signing**
- 6: Signing for Curves**
- 7: Maintenance of Signs and Delineators**
- 8: Intersection Sight Lines**
- 9: Sheltered Nook Road**

2008 Road Safety Audit Issues

- 10: Road Network Analysis**
- 11: Geometry of Highway 30 Intersection**
- 12: Evaluating Posted Speed**
- 13: Sightlines around Curves**
- 14: Emergency Communication**
- 15: Safety Corridor Designation**
- 16: Ice and Snow Management**
- 17: Driver Guidance at T-Intersections**
- 18: Driver Perception at Skyline Road**

2007 – 2009 Safety Improvements Made by County (Before Audit)

- No-passing zone
- Realignment of S-curves and barrier
- Reflectors
- Lighting
- Advisory speed signs



2011 - 2012 County Projects

- Rumble Strips
- Flashing beacons at Sheltered Nook
- Speed signs

2011 – 2012 County Projects

Maintenance

- Vegetation removal
- Clean signs/reflectors
- Striping



ODOT 2013 Projects



US 30 intersection with Cornelius Pass Road

2013 ODOT Projects

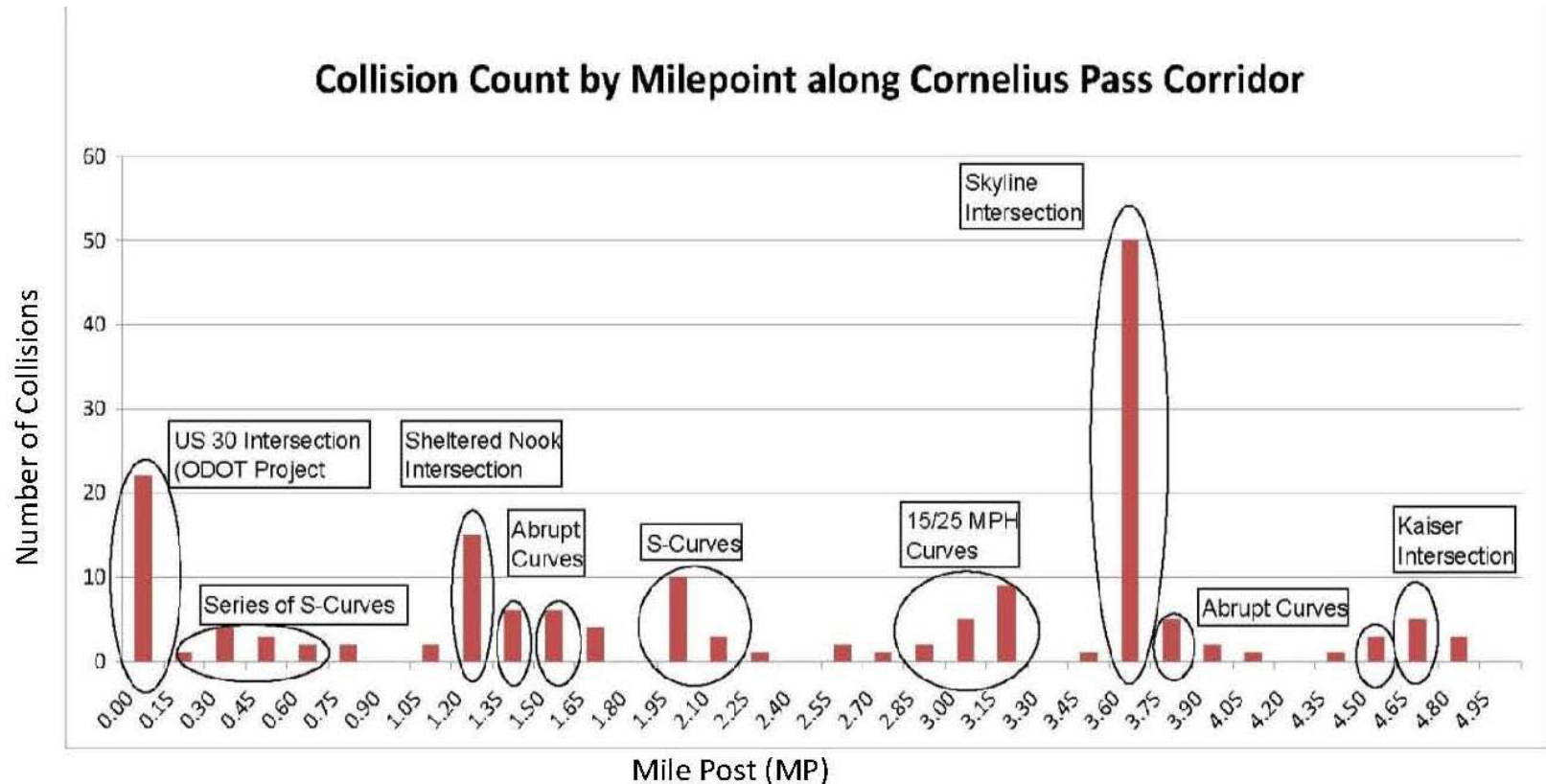
- Construction Spring - Fall 2013
- **US30/Cornelius Pass intersection**
 - Widen & extend right turn onto CP Rd.
 - Add right & left turn lanes on CP Rd.
 - Upgrade signal, improve signs
 - Bike shoulders & ped island
- **Pave US30**
 - From McNamee to near county line

JTA Final 2011 Report

- Evaluated safety of CP Rd. in MultCo
- Requested by Legislature
- Provided to Legislature in 2011
- Report available on ODOT website
(link via www.multco.us.roads)

JTA Report Findings

- Existing Conditions Assessment
 - Collect & analyze collision data for corridor



JTA Report Findings

Collision Analysis

- Looked at various conditions
- Closer look for specific areas or specific conditions



*Overtured
truck in 2013*

JTA Report Findings

- Conceptual improvement projects list
 - Categories:
 - Location specific improvements (intersection geometric improvements)
 - Corridor-wide improvements (i.e. lighting)
 - Policy considerations (corridor design guide)
 - Identified 27 potential safety projects
 - Cut to 13 projects, using evaluation criteria
 - Estimated cost and benefit of each
 - 6 projects rose to top

Six Highest Rated Projects

Map ID	Projects	Benefit Estimate	Cost Estimate	B/C Ratio
1	Series of S-Curves at MP 0.15-0.60	\$773,000	\$1.38 Million	0.56
2	Sheltered Intersection	\$3.89 Million	\$1.82 Million	2.14
3	S-Curves and Intersection at MP 1.5	\$636,000	\$191,000	3.33
4	S-Curves and Intersection at MP 1.8-2.1	\$100,000	\$914,000	0.11
5	Tight 15/25-mph Curves at MP 2.8-3.3 (Minor Widening)	\$75,000	\$260,000	0.29
6	Tight 15/25-mph Curves at MP 2.8-3.3 (Realignment to the West)	\$675,000	\$13.50 Million	0.05
7	Skyline Boulevard Intersection (Roundabout)	\$9.79 Million	\$3.75 Million	2.61
8	Skyline Boulevard Intersection (Realignment and Access Management)	\$6.58 Million	\$5.30 Million	1.24
9	Curve at MP 4.5	\$1.70 Million	\$1.3 Million	1.31
10	Intersection	\$960,000	\$200,000	4.80
**	Corridor Roadway Lighting	\$2.82 Million	\$1.00 Million	2.82
**	Improve Corridor to 45-mph Facility	\$29.1 Million	\$26.8 Million	1.08
**	Corridor Design Guide and Policies*	-	-	-

Report Project Areas

- Sheltered Nook Rd.
- Skyline Blvd.
- Kaiser Rd.

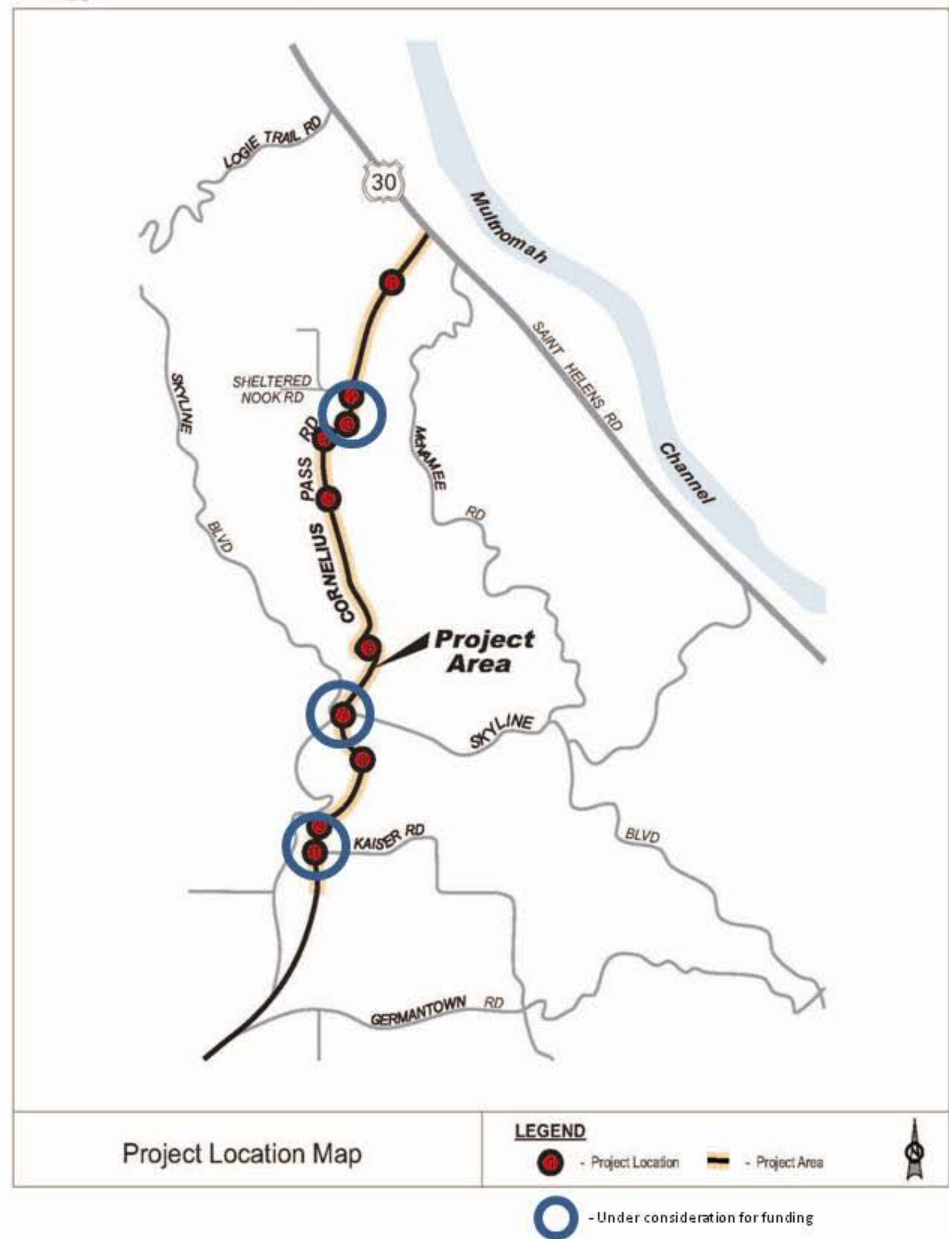


Multnomah
County

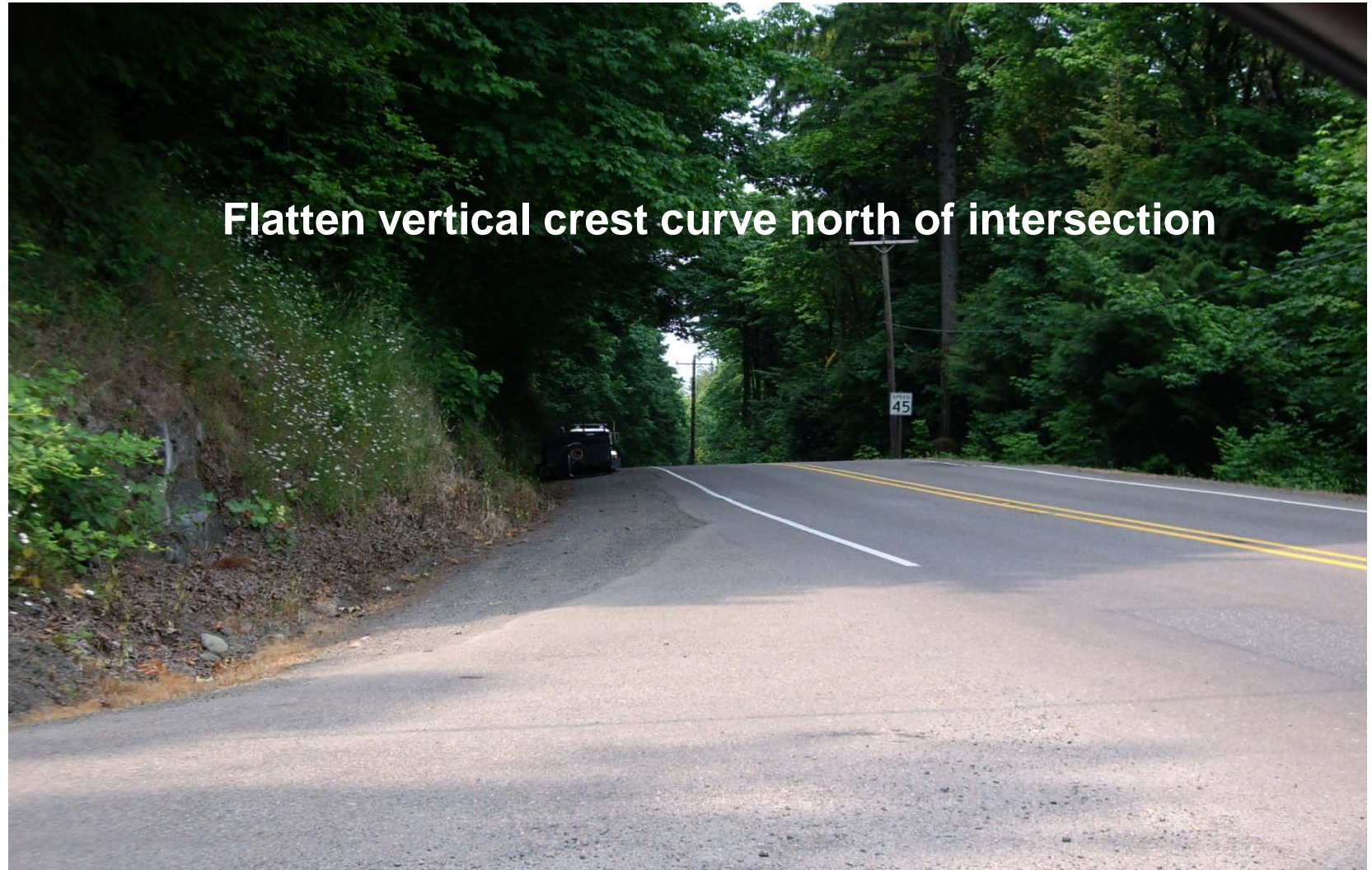


KITTELSON & ASSOCIATES, INC.
TRANSPORTATION ENGINEERING/PLANNING

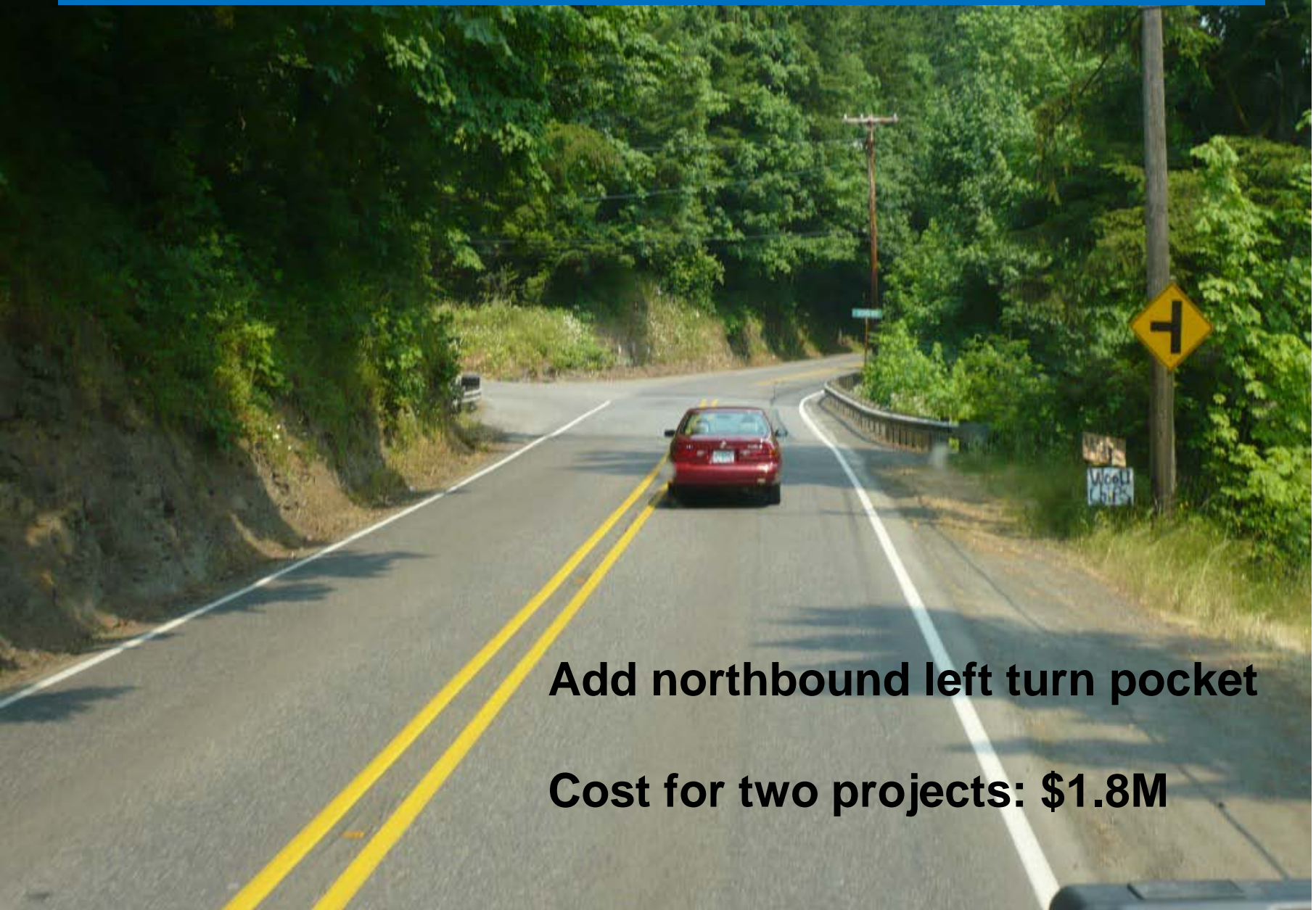
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TRANSPORTATION SOLUTIONS



Sheltered Nook Road Intersection



Sheltered Nook Road Intersection



Add northbound left turn pocket

Cost for two projects: \$1.8M

Skyline Blvd. Intersection

- **Construct roundabout**
- **Add left-turn lanes at Plainview Road**
- **Provide one consolidated grocery access**
- **\$3.75M cost**
- **Alternate: realign and manage access (\$5.3M)**

Kaiser Road Intersection

- Create northbound right-turn lane
- Improve intersection sight distance
- \$200K estimate

Kaiser Road looking south

Curves & Vision Clearance



S Curves & 8th Ave. Intersection

- At MP 1.5
- Recommend tree & vegetation removal
 - Provide stopping sight distance on S curves
 - Provide intersection sight distance at 8th Ave.
 - \$191K estimate

Curve north of Kaiser Road

- At MP 4.5
- Improve stopping sight distance around curve
- \$1.3M estimate

Guardrails

- Not specifically listed in JTA
- Strive to identify guardrail locations



Corridor Wide Lighting

- Corridor wide optimal lighting levels
- \$1M estimate



Funding

- \$9.5 million awarded to County by Legislature for safety improvements
 - Administered through ODOT
 - Includes state and federal funds
- County funds used to begin work at Skyline Blvd.

Schedule

- Alternatives Analysis: 2013
 - Select project elements & phases
 - Key Stakeholders: Residents, Commuters, Freight, Emergency Responders, Agencies, etc.
 - Public meeting: Late summer/fall 2013
- Design: 2013/14
 - Public Meeting at 90% design (late summer/fall 2014)
- Construction: Late 2014 – End of 2015

Public input to date

- Speed – Mixed
- Turn Lanes – Mixed
- Roundabout – Mixed
- Lighting – Mixed/Negative
- Guardrails – Supported
- Environmental Concerns



For More Information

- Project website:
 - www.multco.us/roads
- Staff contacts:
 - Sandy Prock, Project Manager,
503-988-5050 Ext. 29627
 - Mike Pullen, Public Information,
503-209-4111

Questions & Discussion

