Cornelius Pass CAC 1-14-14 Agenda

5:40	Sign-in,	light supper	for CAC
	,		

6:00 Welcome and introductions

6:10 Project update

6:20 Emergency services & school transportation safety needs

6:50 Safety improvement evaluation framework

(continued)

Cornelius Pass CAC 1-14-14 Agenda

7:10 Hot spot prioritization

7:45 Public Comment

8:00 Safety improvement alternatives

8:25 Next steps and adjourn

Cornelius Pass Road Safety Improvements



Project Update

County activity

- Recent crashes

CAC member reports

Revised crash map

Charter approval

Updated crash data

- Mike Pullen

Neighbor meeting

- Bruce Penney

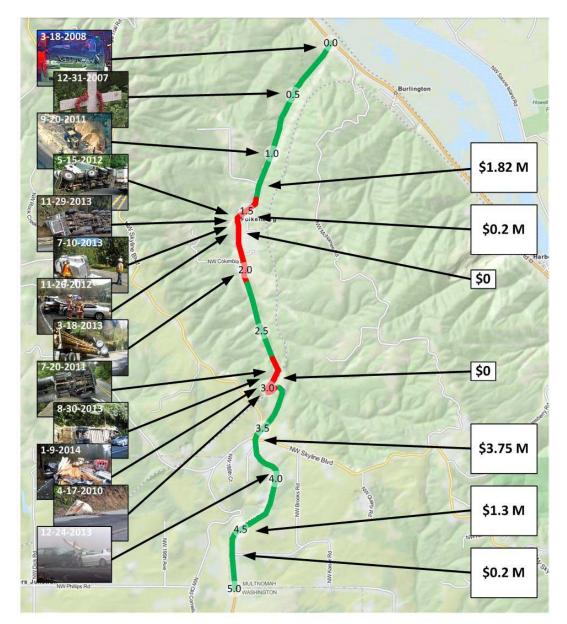
- Vaughn Brown

- Chris Link

Cornelius Pass Road

Major Accident Sites vs. County 2013 Proposed Spending

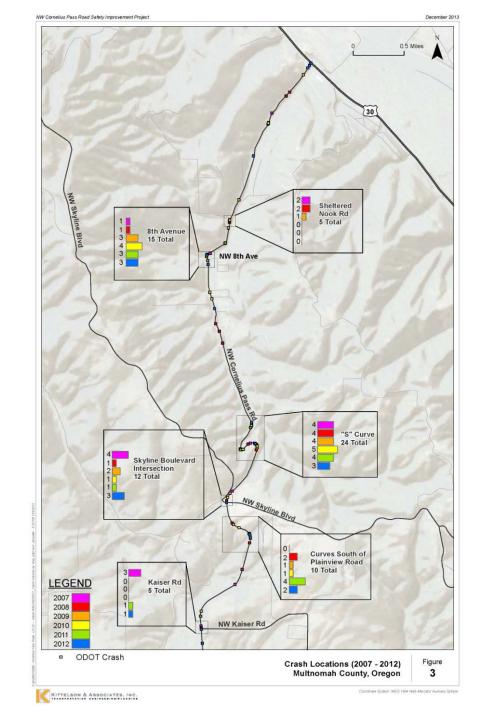
Fatalities, Truck Rollovers, Chemical Spills and Road Closures for 2003-2014

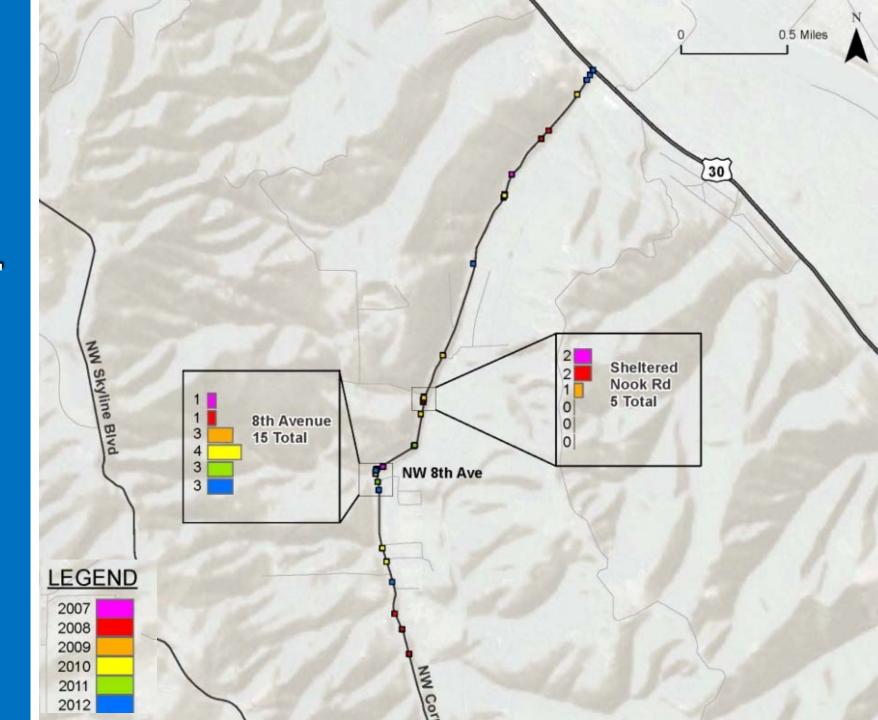


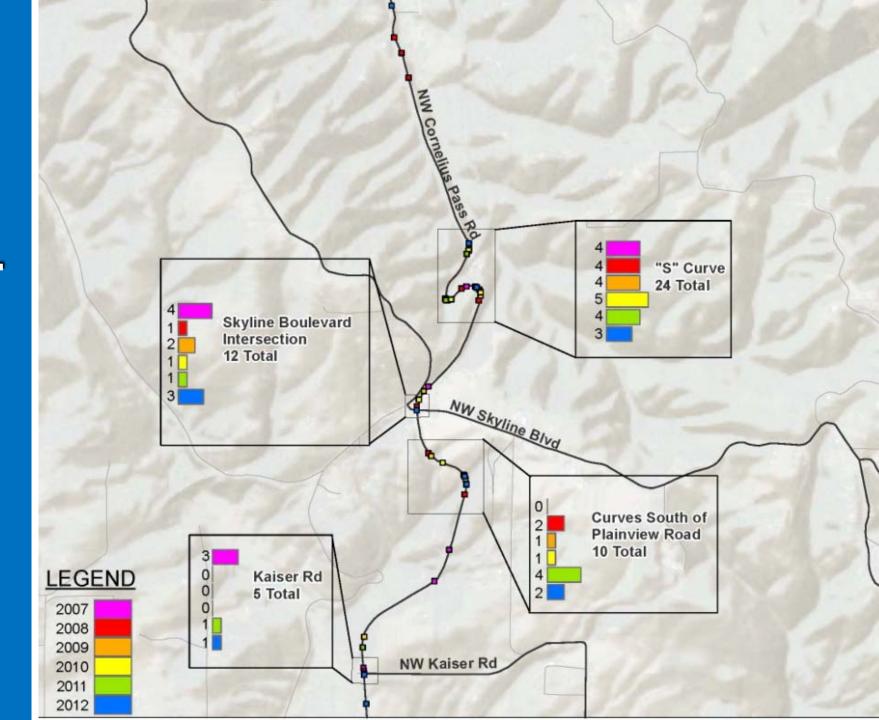
CAC member Bruce Penney's crash map

Crash Data Update

- ODOT Data 100 total crashes (2007-2012)
 - Design team will use for benefit/cost analysis and other detailed analysis
- MCSO reports 26 additional crashes
- TVF&R reports 17 additional crashes
- PFD reports 18 additional crashes
 - MCSO, TVF&R and PFD reporting is less precise and contains less info
 - Only used to gain understanding of overall magnitude and frequency of crashes

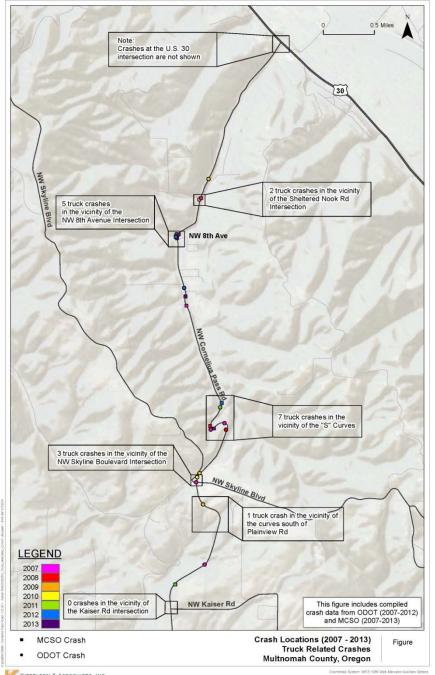


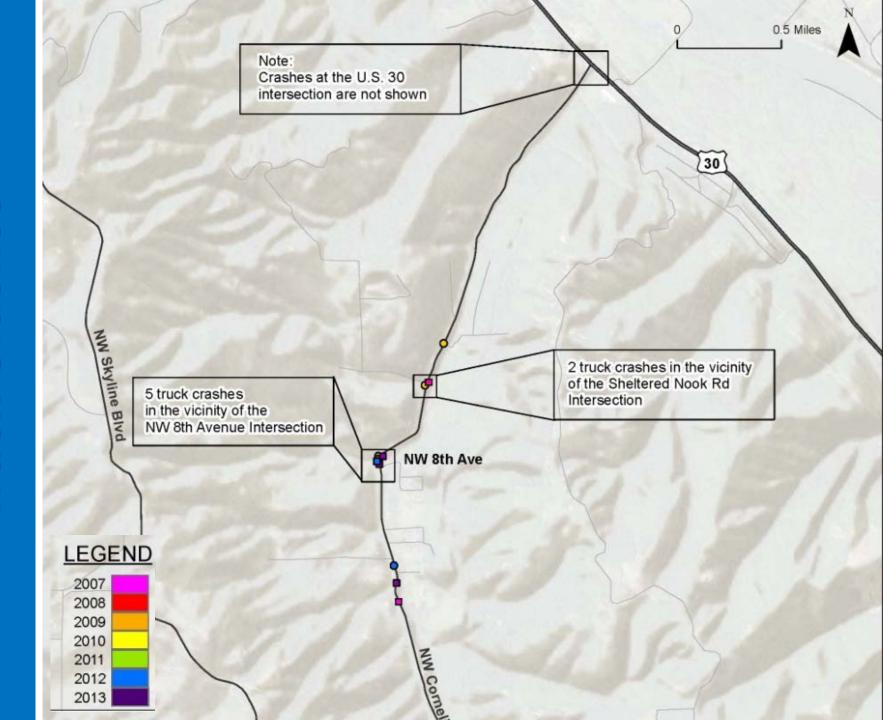


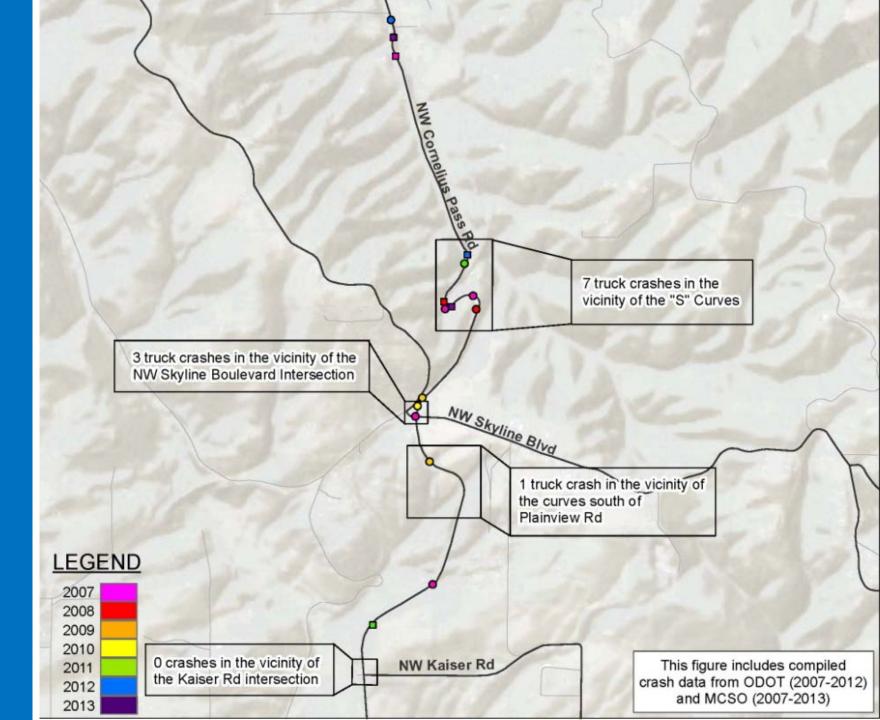


Truck Crashes

- Team developed figure showing truck crashes from 2007-2013
- Includes 2007-2012 ODOT data
- Includes 2007-2013 MCSO supplemental data
- Truck crashes occurring at higher frequencies at 8th Ave and S curves
- Additional crashes grouped at Skyline and Sheltered Nook







Safety Needs Emergency Services and Schools

Multnomah County Sheriff

- Capt. Monte Reiser

Tualatin Valley Fire & Rescue

- Dept. Fire Marshal Drew DeBois

Portland Public Schools Transportation

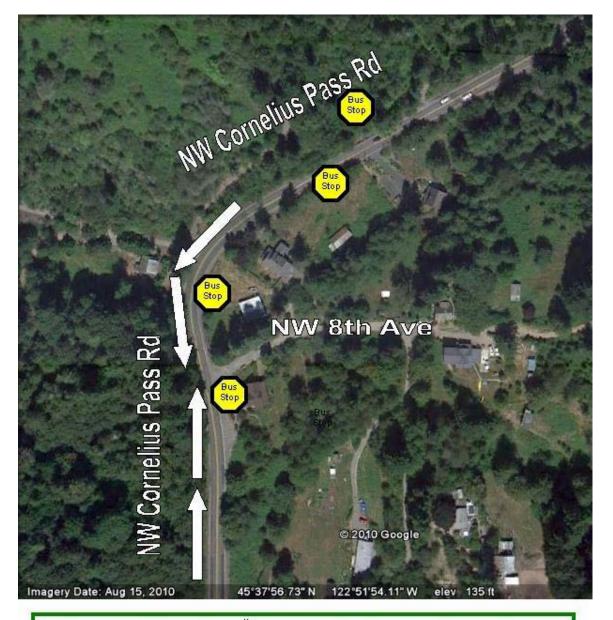
- Read by Mike Pullen

Speed limits – Brian Vincent, MC Engineer



Project Area I - NW Skyline Blvd Intersection

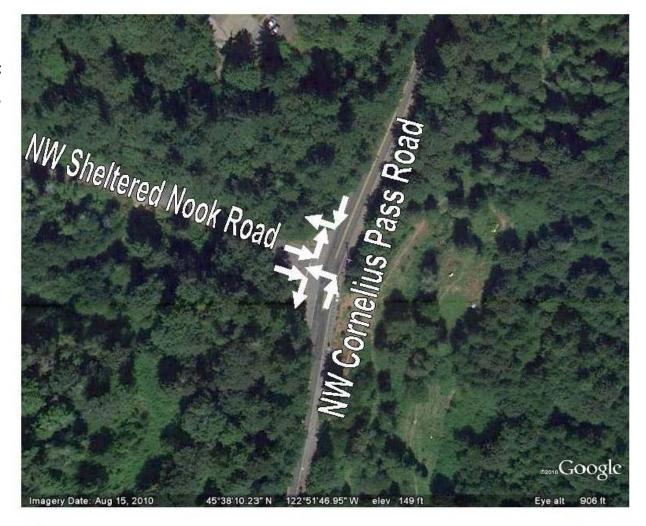
There are three bus stops in this area on five routes within a one and a quarter hour time frame both AM and PM. The buses travel in all directions as shown by arrows. (See below for times) AM stop times – 7:10, 7:11, 7:21, 8:02, 8:25 AM PM stop times – 3:07, 3:12, 4:37, 4:48, 4:59, 5:12 PM



Project Area F - NW 8th Ave Between Mile 1.4 and Mile 1.6

There are four bus stops in this area on one route and 2 runs twice a day. The bus travels in both directions as shown by arrows. (See below for times)

AM stop times - 7:37, 7:38, 7:39, 8:24 AM PM stop times - 3:34, 3:44, 3:45, 3:48 PM



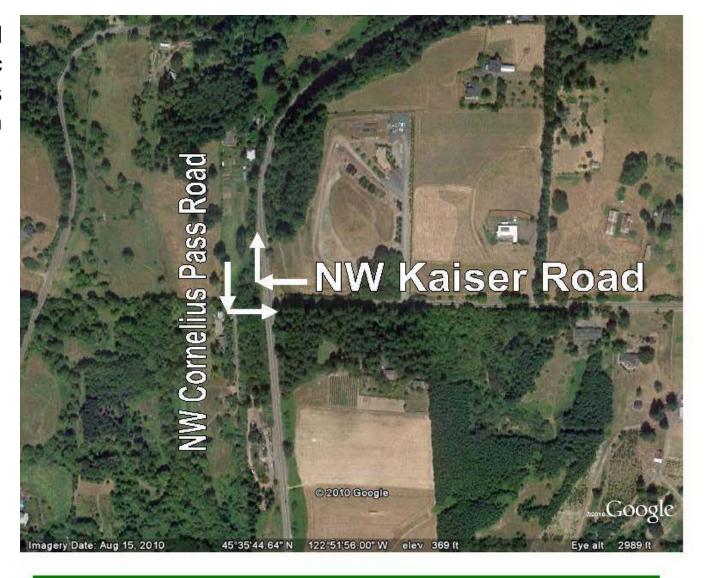
Project Area D - Sheltered Nook Road Intersection

There is not a bus stop at this intersection; however five different runs on different schedules (see below for times) use this intersection in order to access bus stops on NW Sheltered Nook Rd. The buses approach and depart from all directions as indicated by the arrows.

AM stop times - 7:29, 7:52

MD stop times - 10:56

PM stop time - 2:56, 5:20



Project Area F - Kaiser Road Intersection

There is not a bus stop at this intersection; however three different routes on different schedules (see below for times) use this intersection in order to access bus stops in the area. The buses approach and depart from directions indicated by arrows.

AM stop times - 7:10, 8:05, 8:25

PM stop times - 3:15, 4:40, 5:00

Selection Criteria

Quantitative

- What is the benefit/cost ratio of the suggested/ potential improvements?
- If documented safety benefit information is not available for suggested/potential improvements, what is the reasonable anticipated benefit?
- What is the confidence level of the anticipated benefit of the suggested/potential improvements?
- Do the suggested/potential improvements fit within the project budget?

Selection Criteria

Qualitative

- Is supplemental non-ODOT crash data (MCSO, TVF&R, PFD) consistent with the ODOT data? If not, what affect might this have on the suggested/potential improvements?
- Do suggested/potential improvements address the types of crashes (i.e. trucks) observed at each location?
- Are the suggested/potential improvements for each hot spot in proportion to the number of crashes and overall priority with respect to other hot spots?
- Do suggested/potential improvements address existing substandard elements?

Selection Criteria

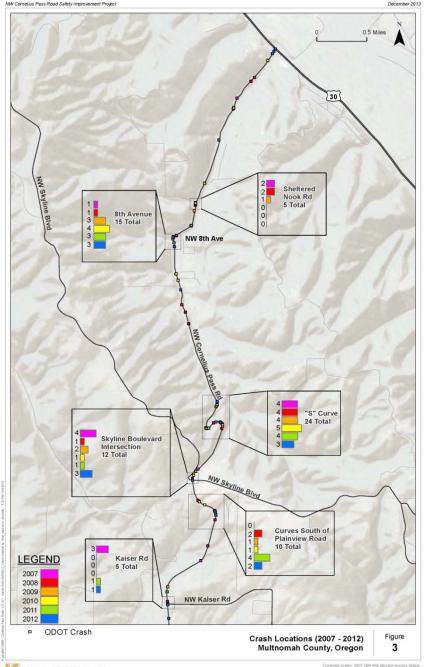
Qualitative cont.

- Do suggested/potential improvements have the potential for adverse effects to safety, property owners (including right-of-way impacts), the environment or other factors?
- Do the suggested/potential improvements fit within the context of the corridor?
- Do the suggested/potential improvements reflect the priorities expressed by the CAC?
- Are there additional benefits (such as capacity) associated with the suggested/potential improvements?

Hot Spot Prioritization

CAC prioritization exercise

Led byVaughn Brown



KITTELSON & ASSOCIATES, INC.

Prioritization Exercise

Compare each of the hot spots in terms of which is more important, critical or consequential in improving safety on Cornelius Pass Road. Circle your choice in each of the following pairs:

- 1. Sheltered Nook
- 2. 8th Avenue
- 3. S Curves
- 1 vs. 2 1 vs. 3 1 vs. 4 1 vs. 5 1 vs. 6

6. Kaiser Road

4. Skyline Intersection

5. Plainview Road Curves

- 2 vs. 3 2 vs. 4 2 vs. 5 2 vs. 6
- 3 vs. 4 3 vs. 5 3 vs. 6
- 4 vs. 5 4 vs. 6
- 5 vs. 6
- Number of: 1's ____ 2's ___ 3's ___ 4's ___ 5's ___ 6's ___

Public Comment

Safety Improvement Alternatives - Sheltered Nook

Left Turn Lane Installation

\$1,800,000

 Sight Distance and Vertical Curve Improvement \$560,000

Safety Improvement Alternatives - 8th Ave

- Signing improvements and clearing for sight distance (within R/W)
- \$30,000

- Signing, additional clearing (beyond R/W) and shoulder widening
- \$120,000

- Minor curve realignment with shoulder widening (30 MPH)
- \$490,000

- Major curve realignment with shoulder widening(35 MPH)
- \$800,000 to \$1,380,000

Safety Improvement Alternatives -"S" Curves - Tunnel Curves

Overhead signing

\$170,000

Overhead signing, striping for truck off-tracking, drainage, and minor shoulder widening

\$250,000

Overhead signing, striping for 5770,000 truck off-tracking, drainage, cross slope correction and minor realignment between "S" curves

Safety Improvement Alternatives -"S" Curves – Boyd's Lower Driveway

- Improved curve signing, \$340,000 roadside barrier and shoulder widening on outside of curve

- Improved curve signing, excavation to improve sight distance and shoulder widening on inside of curve
- \$550,000 to \$960,000

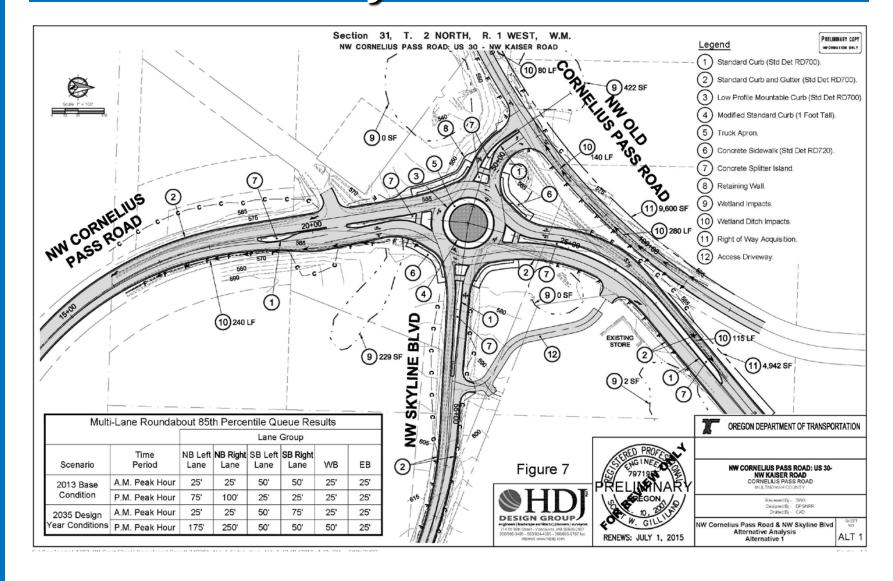
Safety Improvement Alternatives - Skyline Blvd

- 2-Lane Roundabout –
 Alternative 1
- \$5,300,000

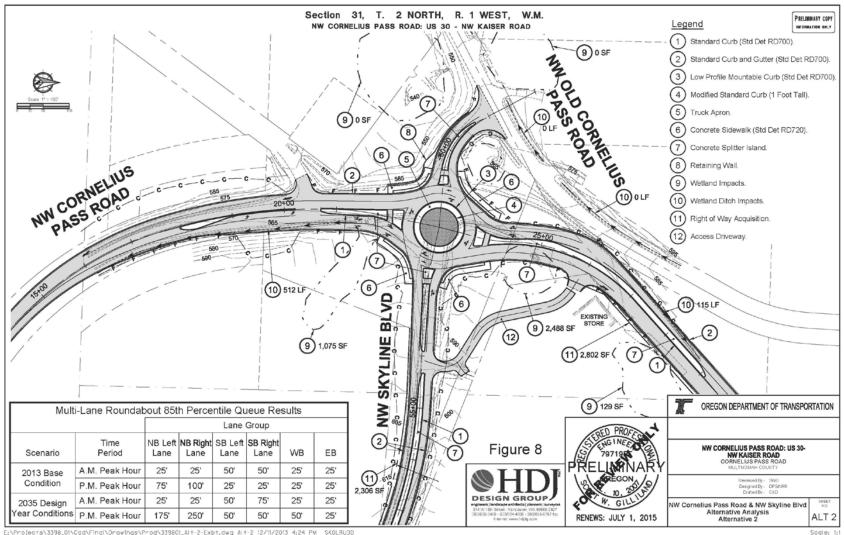
- 2-Lane Roundabout –
 Alternative 2
- \$4,600,000

- Signalized Intersection
- \$3,700,000 \$5,400,000

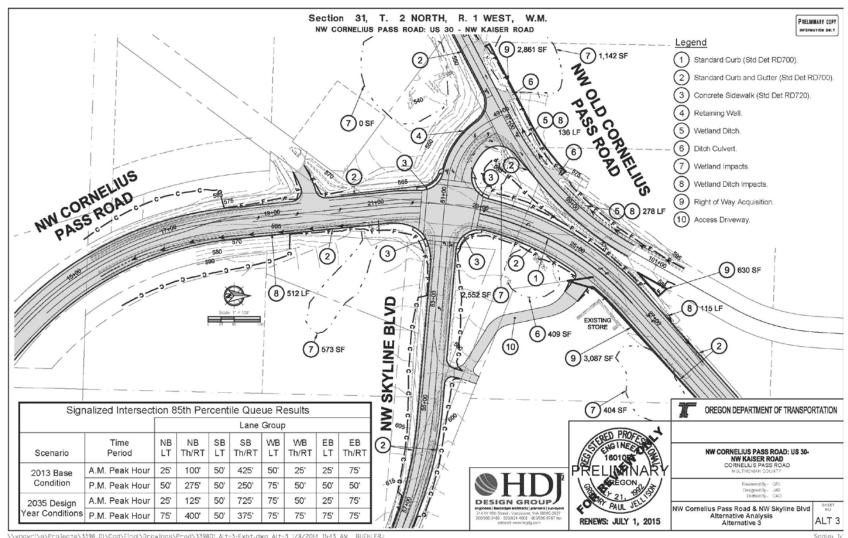
Safety Improvement Alternatives - Skyline Blvd



Safety Improvement Alternatives -**Skyline Blvd**



Safety Improvement Alternatives -**Skyline Blvd**



Safety Improvement Alternatives - Curves South of Plainview

 Improved curve signing and clearing for sight distance \$30,000

 Improved curve signing, shoulder widening and guardrail upgrades \$400,000

 Curve realignment (40 mph) and shoulder widening \$1,300,000

Safety Improvement Alternatives - Kaiser Road

 Improved signing and clearing for sight distance \$10,000

 Vehicle-activated flashing beacon (similar to Sheltered Nook) \$40,000

Right turn lane installation

\$200,000

Safety Improvement Alternatives - Corridor Improvements

 Corridor wide signing upgrades \$270,000

- Vehicle pullouts pave 10 existing wide gravel areas; assumes no earthwork, wall or guardrail:
- \$100,000(\$10K/each)

- Slow moving vehicle turnouts -NB and SB directions; 500 foot length, assumes significant cut/fill, widening and R/W impacts
- Up to \$1 Million (\$500K/each)

Climbing lanes – NB and SB direction; 1 mile each

Up to \$14 Million (\$7 M/each)

Safety Improvement Alternatives - Corridor Improvements cont.

 Corridor wide roadway delineation:

Reflective pavement markers
Delineators
Durable striping

- Corridor wide clear zone upgrades
- Illumination at key cluster locations
- Wildlife crossings
- Grouped mailboxes

- \$5,000
- \$10,000
- \$300,000
- \$300,000+
- \$460,000
- Cost TBD (site specific)
- Cost TBD (need input from USPS)

Questions & Discussion



Next Meetings

- Open House (February 18, 6:30 pm)
- CAC Meeting #3 (March 18, 6 pm)

(both at Skyline School Gym)