Session Overview

Three parts to this session:

- What are the WSDOT considerations?
- What are issues we are trying to address?
- What are some tools we can use to achieve our goals?
Traffic Control Treatments to Alter Driver Speeds

2016 Tribal/State Transportation Conference

Mike Dornfeld
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Setting Speed Limits

• The majority of motorists drive safely and reasonably.
• Careful, competent actions of a reasonable person should be legal.
• Laws are for protection and regulation of unreasonable behavior of the few.
• Therefore, speed limits should generally reflect prevailing conditions.
Engineering Study

- 85\textsuperscript{th} Percentile Speed
- Average Speed
- 10 MPH Pace
- Crash Rates
- Roadway Characteristics and Context
How to get drivers to change behavior

• WSDOT trying a number of treatments
Speed Limit Changes: SR 109, Seabrook

- 50 MPH 2001
- 40 MPH 2007
- 35 MPH 2011
- 25 MPH 2015
SR 106 Wide Paint Lines
Compact Roundabout
NW Region Zig-Zag Lines
SR 9 in Arlington
Electronic Traffic Control Signs
Hardscape Gateways
Lane Narrowing
Getting to the core: what issues are we trying to address?

Understanding the Context

- Who are the users?
  - Thru travel vs community users
  - Modes - pedestrians, bikes, cars, trucks
  - Bus or school route
- Are there too many or too severe crashes?
- Does the highway speed impact community character?
- Does it impede economic development?
Getting to the core: what issues are we trying to address?

Ways to identify the issues and develop goals for improvement

➢ Transportation Safety Analysis
  ➢ Collision history
  ➢ Highway safety manual
➢ Road Safety Audits

The “4 E’s” of safety:
1. **Education** gives drivers information about making good choices, such as not texting while driving, and wearing a seatbelt. Education can also inform people about the rules of the road.
2. **Enforcement** of traffic laws and a visible police presence may deter motorists from unsafe driving
3. **Engineering** addresses roadway infrastructure improvements
4. **Emergency** services provide rapid response and quality of care when responding to collisions
What tools can we use to achieve our goals?

Given funding limitations for large capital projects – what creative measures can we apply?

- Access Management
- Improved crossings and intersections
- Medians
- Community signage
- Tree removal
- Raised planters
- Striping
- Lighting
Examples

Seabrook, Pacific Beach, WA Highway 109

- Users –
  - Pedestrian heavy environment
  - Mix of highway thru travel and local circulation
  - Reduced posted speed from 50 mph down to 25 mph in increments over 10 years
  - 85\textsuperscript{th} percentile speed today less than 25 mph
Examples

Seabrook, Pacific Beach, WA Highway 109

- Changes implemented
  - Speed radar signs
  - Frontage improvements
  - Lane width reductions
- Master plan
  - Stamped pedestrian intersections
  - Install pedestrian flags at crossings
  - Extend frontage improvements
Examples

Seabrook, Pacific Beach, WA Highway 109

- 3 midblock pedestrian crossings + 2 intersections, within about a quarter mile
Examples

Seabrook, Pacific Beach, WA Highway 109
Examples

Seabrook, Pacific Beach, WA Highway 109
Examples

S’Klallam, Sequim, WA Highway 101

US 101 E. Sequim Bay Road Access Improvements
• safety and access concerns on US 101 thru the Tribe’s community

• Traditional solutions
  • Build interchange with US101 – High $50M

• Phased approach
  • Reduce speed limits on US 101 – little to no cost
  • Guardrail and tree removals – low cost
  • Traffic calming measures on intersecting county road – low cost
  • Chicken Coop and Zaccardo Road Realignment – medium cost
  • Future E. Sequim Bay Road connection and closures - medium cost
Examples

*S’Klallam, Sequim, WA Highway 101*

Attachment 3
Future Average Daily Traffic
Examples

S’Klallam, Sequim, WA Highway 101

OLD BLYN HIGHWAY
TRAFFIC CALMING MEASURES
Examples

S’Klallam, Sequim, WA Highway 101
Examples

S’Klallam, Sequim, WA Highway 101

CHICKEN COOP / ZACCARDO REALIGNMENT PROJECT OVERVIEW

ABANDON EXISTING ROADWAY
NEW ROADWAY CONSTRUCTION OR WIDENING
Examples

Quileute Tribe, La Push, WA Highway 110

- Evacuation route
- National Park access
- Heavy ped use
- School bus route
- Community “main street” and only access point
Discussion and Questions

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