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MPO TAC Meeting #3  
July 10<sup>th</sup>, 2019  
ODOT Region 4 Office

# BEND AREA TRANSPORTATION SAFETY ACTION PLAN (TSAP)



# MEETING AGENDA

- Introductions
- Meeting Goals
- Review of Draft TSAP
  - Policies and Goals
  - TSAP Emphasis Areas
  - MPO Performance Measures
  - Location Specific Recommendations
  - Non-Infrastructure Recommendations
- Next Steps



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# WELCOME & INTRODUCTIONS

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- Project status
- Coordination with TSP & MTP Updates
- Coordination with Deschutes County TSAP



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# MEETING GOALS

- Review Draft TSAP content
- Obtain feedback on draft recommendations prior to developing Final TSAP
  - Any major concerns/comments?
  - Comments by 7/19



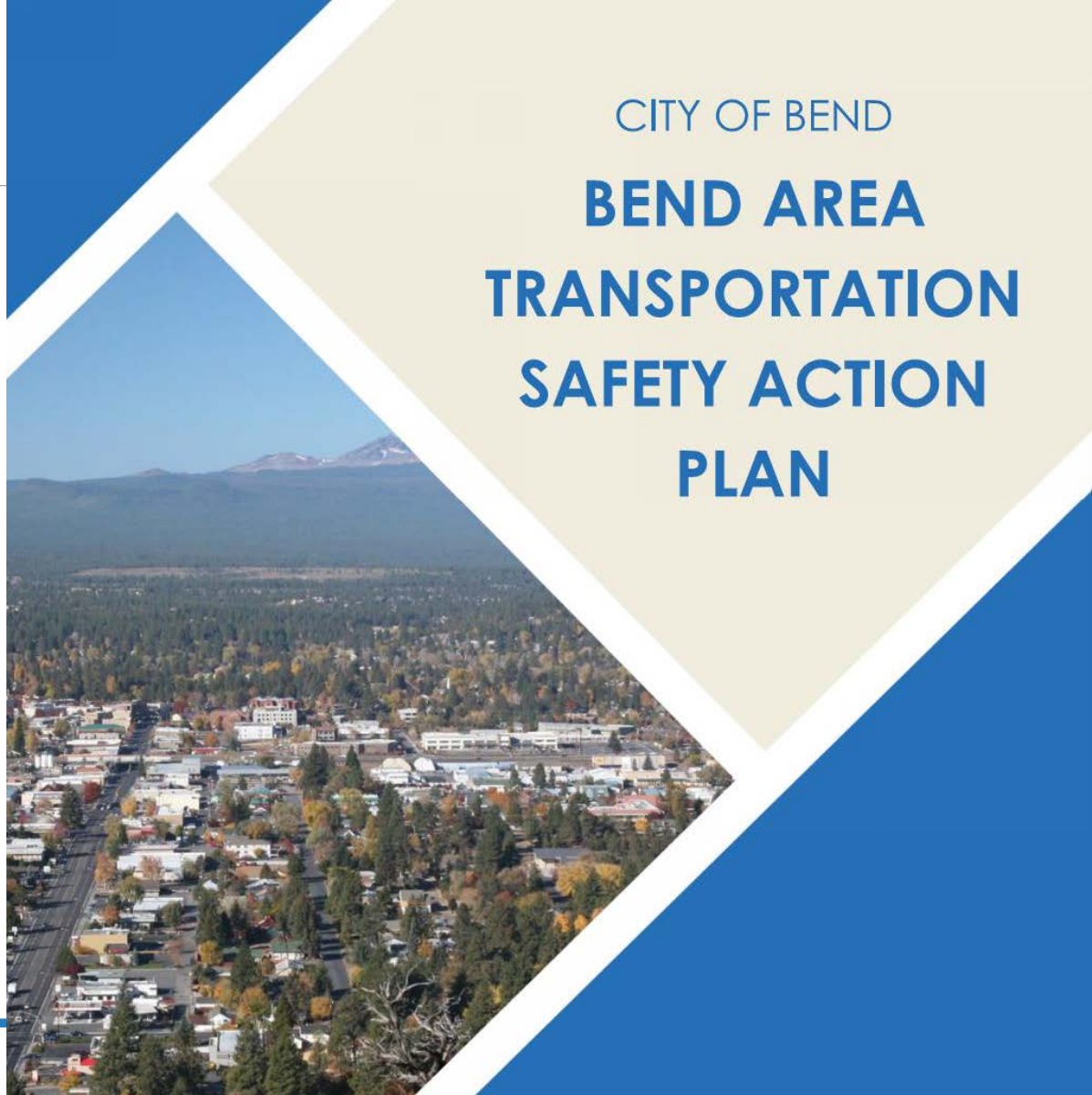
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REVIEW OF  
DRAFT TSAP

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**BEND AREA  
TRANSPORTATION  
SAFETY ACTION  
PLAN**



# WHAT'S IN THE TSAP?



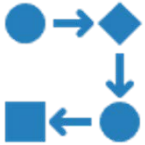
## Section 1

- Introduction
- Policies and Goals



## Section 2

- Crash Data Summary
- Emphasis Areas



## Section 3

- Systemic Solutions



## Section 4

- Speed management  
Toolbox



## Section 5

- Location Specific  
Applications



## Section 6

- Non-Infrastructure  
Measures



## Section 7

- Performance Measures



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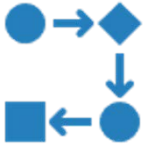
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# TSP SAFETY DRAFT GOALS, POLICIES, & ACTION ITEMS

- **Goal:** The City of Bend aspires to have zero serious injuries or fatal crashes on its transportation system. The City recognizes that we must design and manage our transportation system with this goal in mind.

*Section 1.3 of the Draft TSAP*



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# TSP SAFETY DRAFT GOALS, POLICIES, & ACTION ITEMS

- **Policy:** The City will balance safety, connectivity, and travel time reliability for all modes of transportation in design and construction of transportation projects and in transportation program implementation.
- **Actions:**
  - Adopt and implement the 2019 TSAP, including mapping identified emphasis areas.
  - Amend the Bend Development Code to ensure that safety mitigation is included as part of development.



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# TSP SAFETY DRAFT GOALS, POLICIES, & ACTION ITEMS

- **Policy:** The City aspires to have no transportation-related fatalities or serious injuries by reducing the number and severity of crashes through design, operations, maintenance, and enforcement.
- **Actions:**
  - By 2021, the City will develop and adopt an action plan to move the City towards zero traffic deaths or serious injuries (e.g. Vision Zero). The plan will set a clear goal of eliminating traffic deaths and serious injuries among all road users within an explicit timeframe (i.e. 10 years) and actively engage key City departments.



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# TSP SAFETY DRAFT GOALS, POLICIES, & ACTION ITEMS

- **Policy:** The City will consider the needs and safety for all users in transportation projects, programs, and funding decisions, to improve safety for vulnerable users. Vulnerable users are transportation system users most at risk in traffic, such as pedestrians, cyclists, and public transportation users – children, older people, and disabled people may be in this category.
- **Actions:**
  - The City will plan for, design, construct, and/or reconstruct streets to achieve consistency between motorists' speeds and target speed limits, and prioritize speeding and reckless driving enforcement programs on problematic routes.
  - Identify, prioritize, and/or allocate funding for projects and programs to improve safety for vulnerable users.



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# TSP SAFETY DRAFT GOALS, POLICIES, & ACTION ITEMS

- **Policy:** The City's policy is to achieve consistency between motorists' speeds and target speed limits.
- **Actions:**
  - Create a citywide speed management program to address safety issues related to speed.
  - Review street design in coordination with emergency services; amend Standards and Specifications accordingly.



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# TSP SAFETY DRAFT GOALS, POLICIES, & ACTION ITEMS

- **Policy:** The City will provide transparent, easy to understand, and effective communication programs to encourage safe travel on the transportation system.
- **Actions:**
  - Develop a comprehensive public dashboard of data to capture the user experience of the City's Transportation System in a system that integrates data from existing sources, not limited to crash data, with data from new and emerging street monitoring technology and public input.



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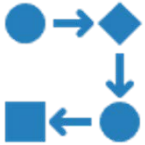
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# FEDERAL MPO PERFORMANCE MEASURES

## Section 7 of the Draft TSAP

### Effectiveness



- Performance Measures track the **results** of a program or activity. For example, they track how many fatalities or injuries occurred, or number of non-motorist fatalities

### Efficiency



- Performance Measures track **effort and output**. For example, they track how many activities were conducted, or miles of treatment were installed

Base Period	Fatalities (People)	Fatality Rate (People per 100 Million VMT)	Serious Injuries (People)	Serious Injury Rate (People per 100 Million VMT)	Non-motorized Fatalities and Serious Injuries
<b>Bend UGB Area</b>					
2012-2016	12	0.45	88	3.31	19
<b>Bend MPO Area</b>					
2012-2016	13	0.49	102	3.84	20
<b>Oregon Performance Targets</b>					
2013-2017		0.94		4.42	



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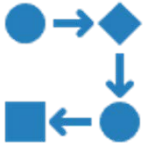
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# TSAP EMPHASIS AREAS

## Section 2 of the Draft TSAP



CRASH DATA

### Crash Type

Most frequent crash types associated with fatal/incapacitating injuries: **Turning movement, rear-end, angle, pedestrian, fixed object, and bicyclist crashes.**

Among fatal/incapacitating crashes at intersections, 49% occurred at **stop-controlled intersections**, and 28% occurred at **traffic signals.**

### Intersections



# TSAP EMPHASIS AREAS



## Roadway Segments

32% of fatal/incapacitating crashes occurred on **five-lane roadways**

58% of fatal/incapacitating crashes occurred on **arterial roadways** or at intersections with arterial roadways.

**Severe outcomes:** 94% of pedestrian collisions resulted in injury or death. 24% resulted in death or incapacitating injury.

Fatal and incapacitating pedestrian collisions predominantly occurred in the **evening/nighttime hours**

## Pedestrians



PEDESTRIAN  
INVOLVED CRASHES

# TSAP EMPHASIS AREAS



BICYCLE INVOLVED  
CRASHES

## Bicyclists

Bicycle crashes accounted for two percent of reported crashes and **9% of fatal/incapacitating crashes.**

70% of bicyclist crashes occurred on roadways with **level of traffic stress (LTS) 3 or 4**, or at an intersection including such a street.

13% of fatal/incapacitating crashes involved; **excessive speeds**

**Alcohol/drug involvement** was reported in 6% of crashes but in 20% of the fatal/incapacitating subset of collisions.

## Road User Behavior



MOTOR VEHICLE  
INVOLVED CRASHES

# TSAP EMPHASIS AREAS

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## Lighting

22% of fatal/incapacitating crashes occurred in dark, unlit conditions.

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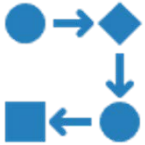
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# LOCATION SPECIFIC RECOMMENDATIONS: SITE-SPECIFIC CONCEPTS

## *Section 5.2 of the Draft TSAP*

Implemented two network screening approaches to identify priority locations for recommendations.

### Equivalent Property Damage Only (EPDO) Screening → *Site-Specific Concepts*

- The performance measures identify locations with high collision frequency and severity.

*EPDO performance measure assigns weighting factors to collisions by severity to account for the societal costs of fatal/incapacitating crashes compared to less severe injury crashes. Fatal/incapacitating crashes were given 100 points; moderate and minor injury crashes were given 10 points; and property damage only crashes were given 1 point.*



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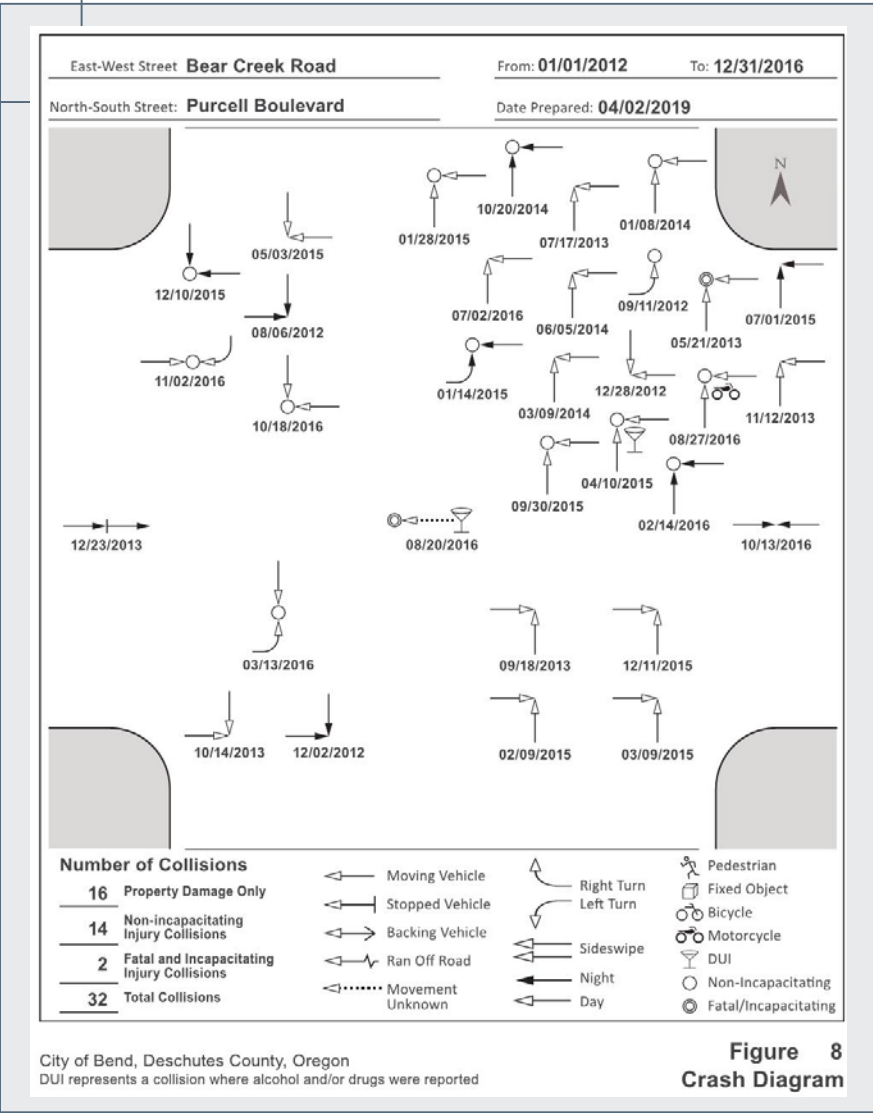


# Purcell Boulevard/Bear Creek Road Crash Data Overview

Approximately 78% of crashes reported at this intersection were **angle crashes**.

Half of all crashes resulted in some level of injury.

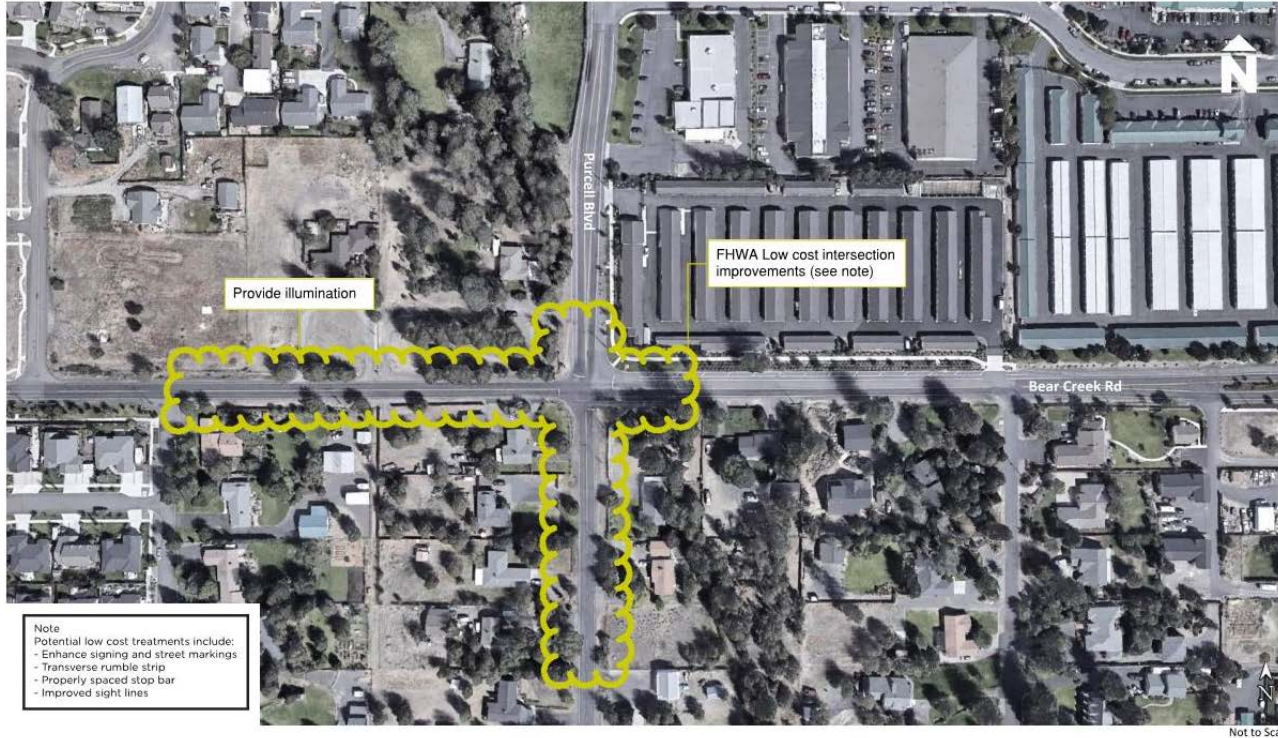
28% of all crashes occurred in dark, dusk, or dawn lighting conditions.



**Figure 8**  
**Crash Diagram**

# Purcell Boulevard/Bear Creek Road

## Near Term Concepts



➞ Properly placing stop bars.

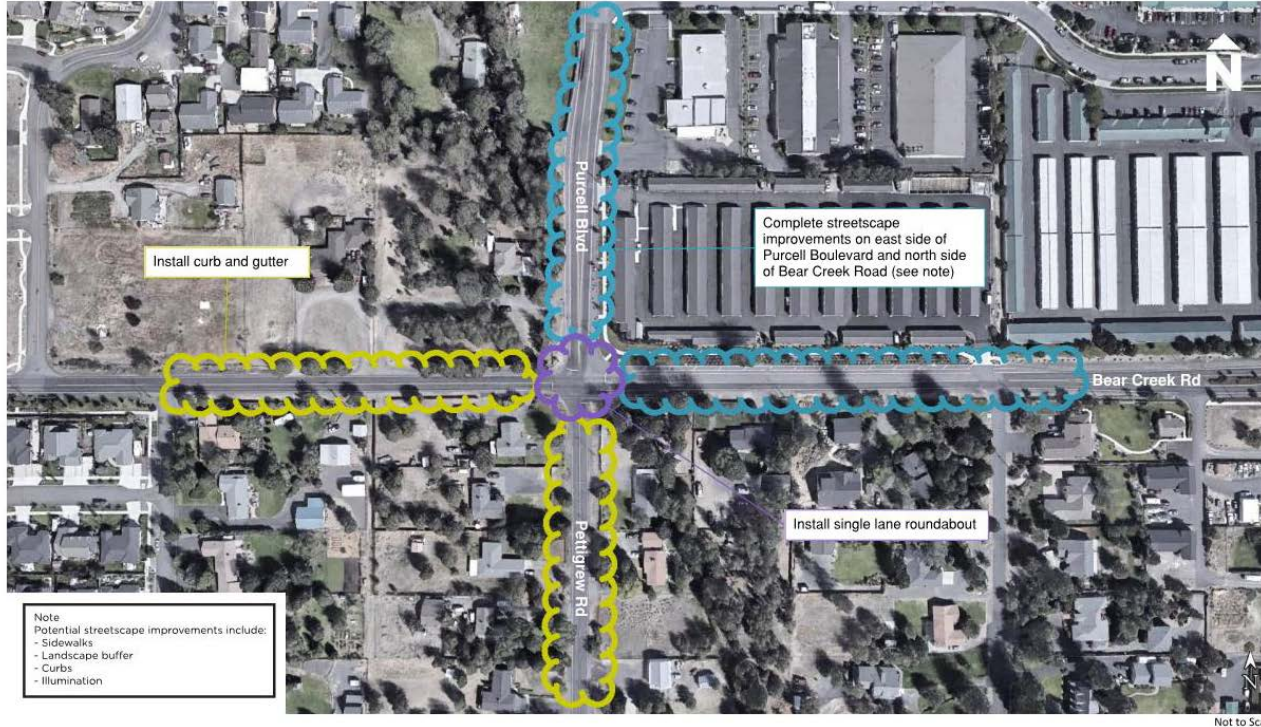
➞ Enhancing signing by doubling up and/or installing larger signs.

➞ Assessing sight lines.



# Purcell Boulevard/Bear Creek Road

## Long Term Concepts



Control crossing and turning movements with a single lane roundabout as well as reduce conflict points between road users.

Complete streetscape treatments and include storm water management.

# 3<sup>rd</sup> Street & Butler Market Road/Mount Washington Dr Area

## Crash Data Overview

49% of reported crashes in this area were reported as **rear-end crashes**.

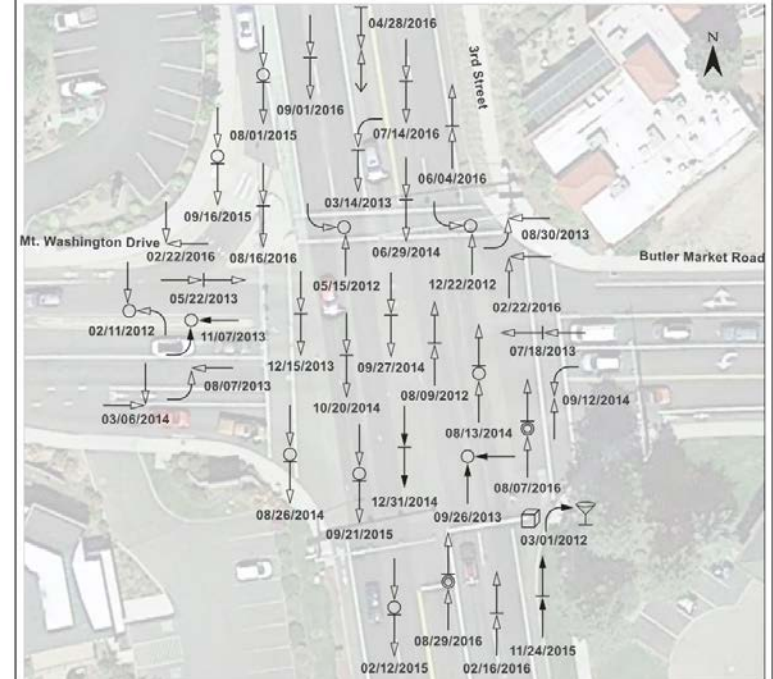
36% of reported crashes were **turning movement crashes**.

### 3<sup>rd</sup> Street & Butler Market Road / Mt Washington

From: 01/01/2012

To: 12/31/2016

Date Prepared: 04/12/2019



#### Number of Collisions

23	Property Damage Only
11	Non-incapacitating Injury Collisions
2	Fatal and Incapacitating Injury Collisions
36	Total Collisions

←	Moving Vehicle	↶	Right Turn	🚶	Pedestrian
⏹	Stopped Vehicle	↷	Left Turn	🚗	Fixed Object
↔	Backing Vehicle	↔	Sideswipe	🚲	Bicycle
↘	Ran Off Road	↔	Night	🏍️	Motorcycle
⋯	Movement Unknown	↔	Day	🚰	DUI
		○		○	Non-Incapacitating
		⊙		⊙	Fatal/Incapacitating

City of Bend, Deschutes County, Oregon

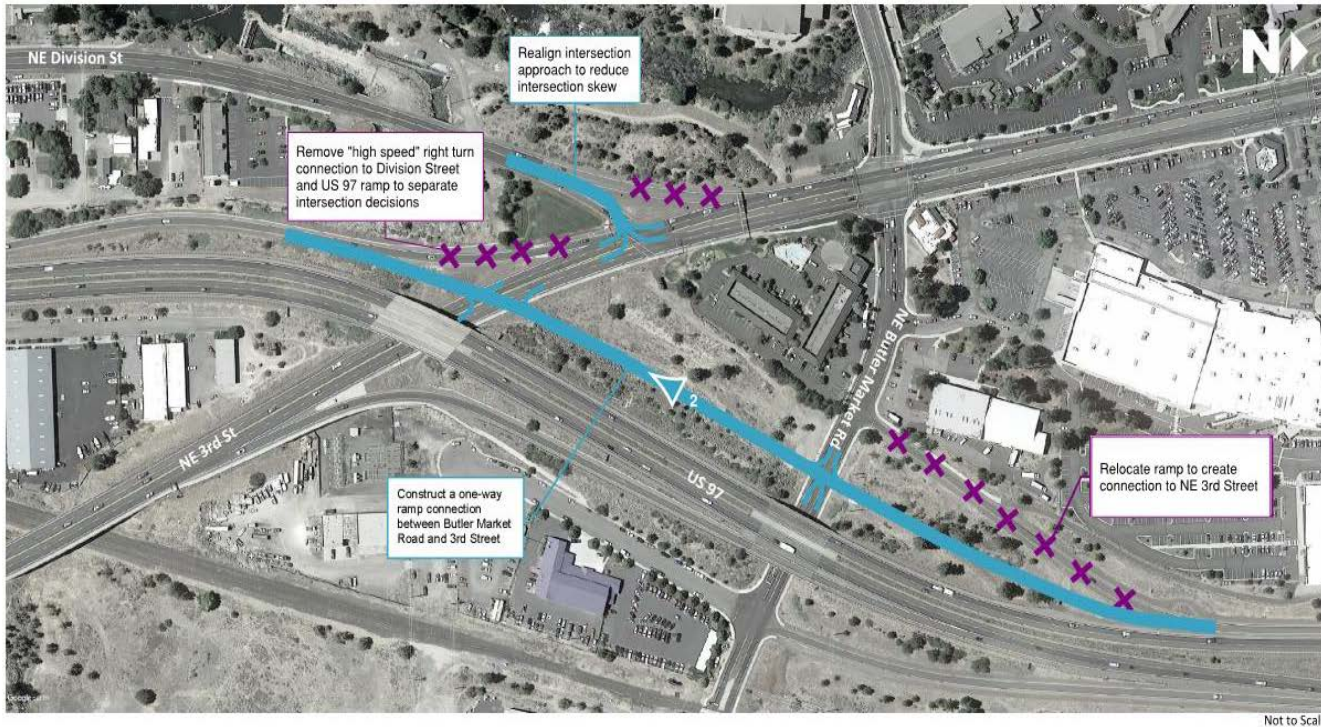
DUI represents a collision where alcohol and/or drugs were reported  
\*Not to scale

**Figure 13**  
**Crash Diagram**



# 3<sup>rd</sup> Street & Butler Market Road/Mount Washington Dr Area

## System Concept 1: One-Way Connector



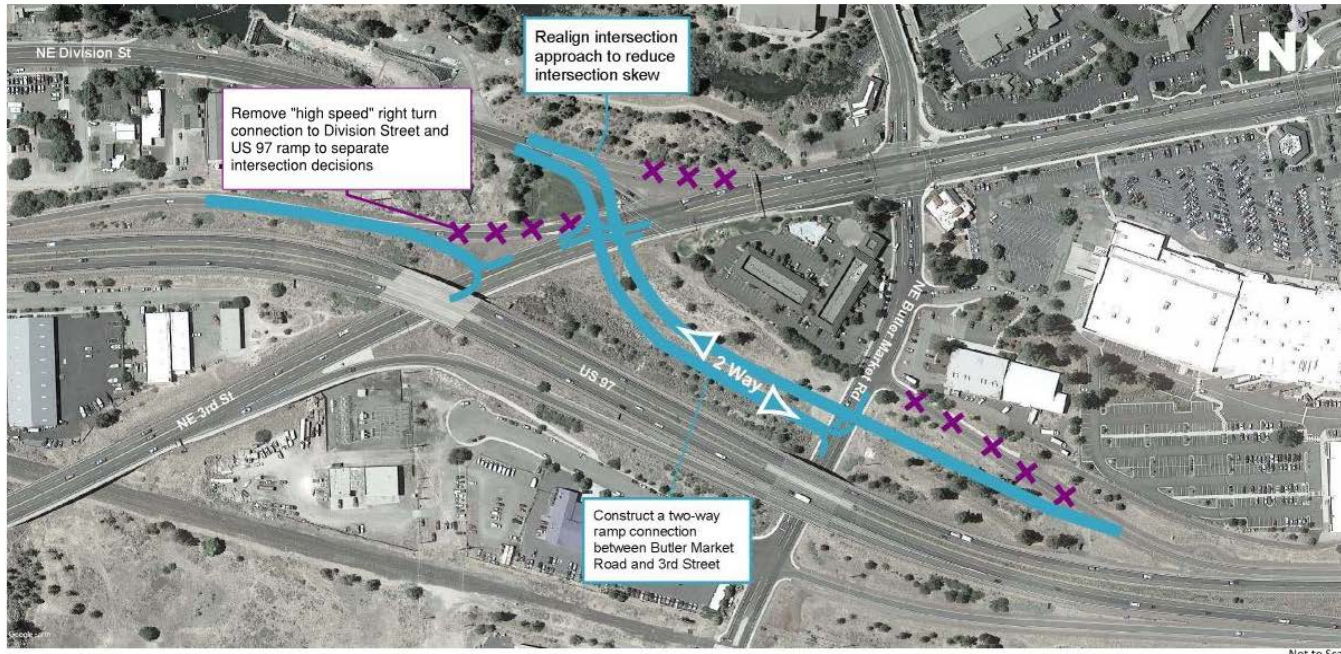
Increases overall network connectivity to provide more and direct route choices.

Provide a one-way direct connection from Butler Market Road to 3<sup>rd</sup> Street.

Realign the US 97 southbound exit ramp from 3<sup>rd</sup> Street onto Division Street and Highway 97.

# 3<sup>rd</sup> Street & Butler Market Road/Mount Washington Dr Area

## System Concept 2: Division Street Connection



Increases overall network connectivity to provide more and direct route choices.

Provide a two-way direct connection from Division Street to Butler Market Road.

Realign the US 97 southbound exit ramp from 3rd Street onto Division Street and Highway 97.



# Highway 97 & Powers Road Area

## Crash Data Overview

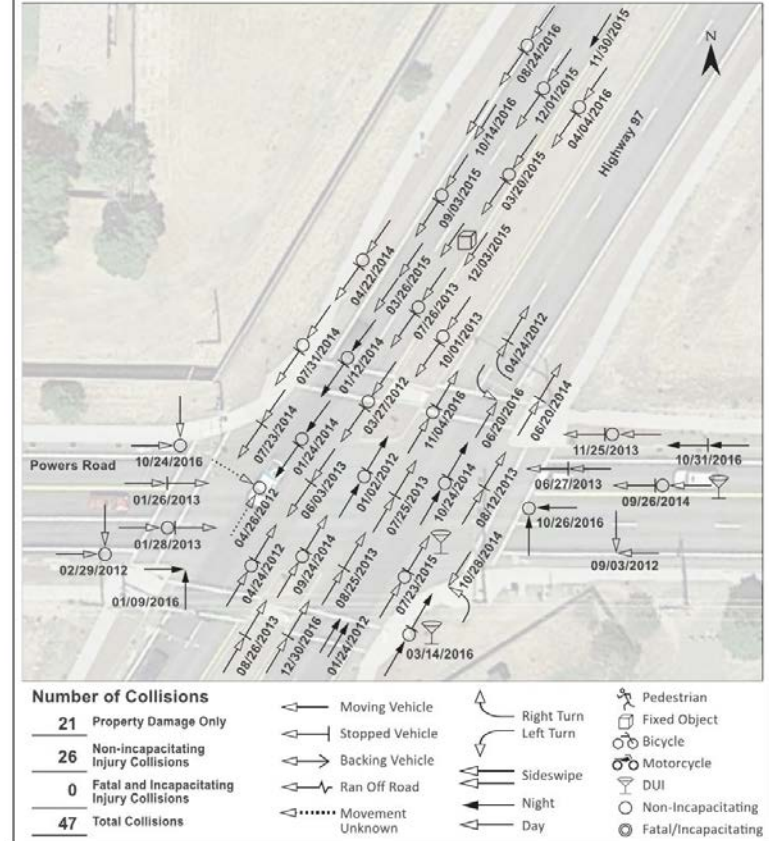
➤ The highest concentration of crashes were reported at or near the **northbound on-ramp to Highway 97**.

➤ 78 % of reported intersection crashes are **rear-end crashes**.

➤ 51% of the reported crashes in the Highway 97 & Powers Road Area resulted in some level of injury.

### Highway 97 and Powers Road

From: 01/01/2012 To: 12/31/2016  
Date Prepared: 04/12/2019

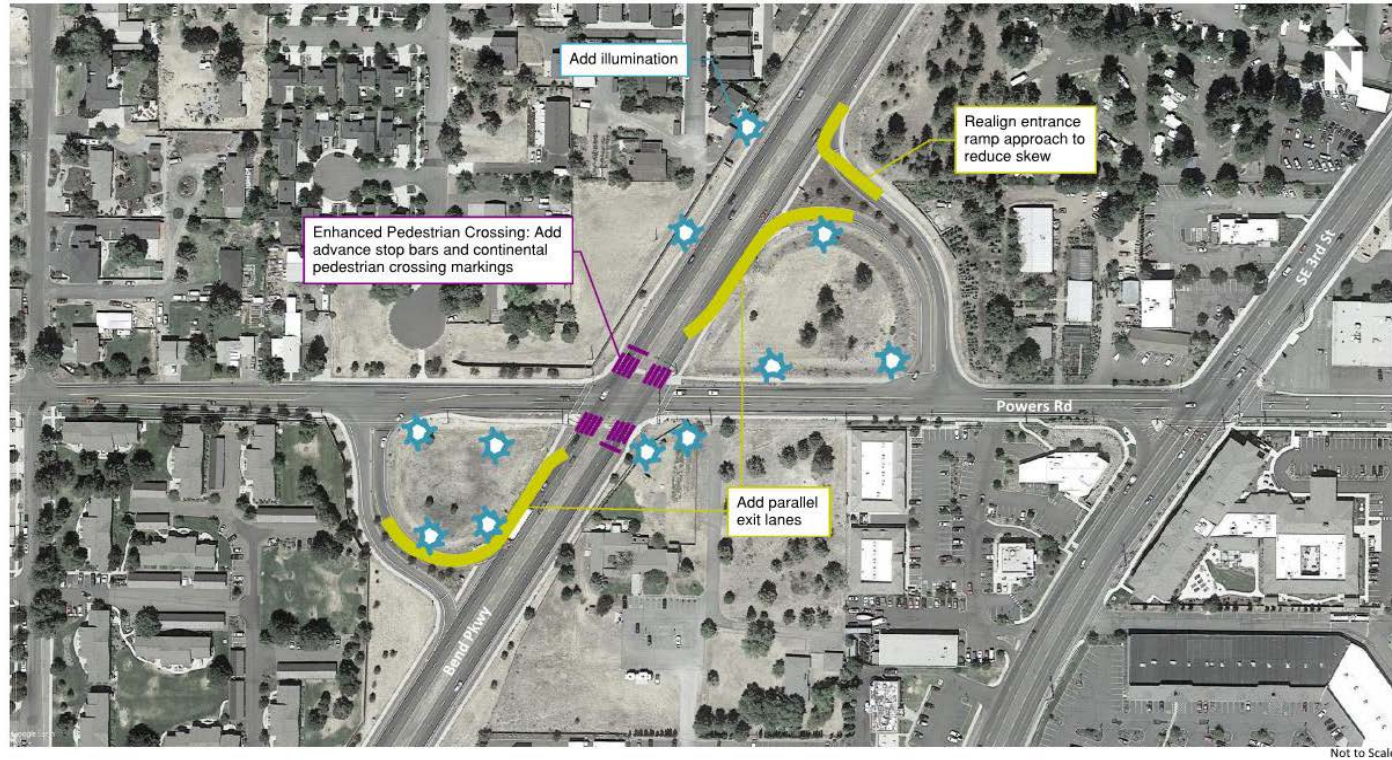


City of Bend, Deschutes County, Oregon  
DUI represents a collision where alcohol and/or drugs were reported  
\*Not to scale

**Figure 20**  
**Crash Diagram**

# Highway 97 & Powers Road Area

## Concepts



Install a deceleration lane.

Realign the entrance ramp to reduce intersection skew and improve sight distance

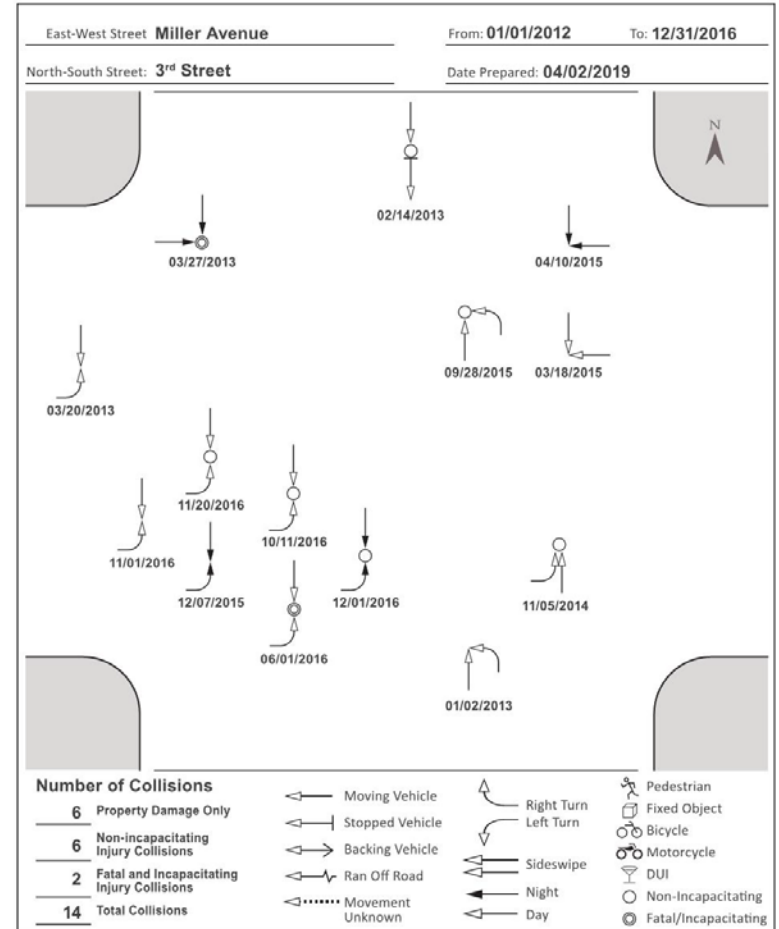
Evaluate additional illumination levels.

# 3<sup>rd</sup> Street Corridor Crash Data Overview

71% of reported crashes at 3<sup>rd</sup> Street and Miller Avenue and 56% of crashes at Woodland Boulevard and 3<sup>rd</sup> Street were **turning movement crashes**.

57% of all reported crashes at 3<sup>rd</sup> Street and Miller Avenue resulted in some level of injury, two of which resulted in a fatal/incapacitating injury.

33% of reported crashes at Woodland Boulevard and 3<sup>rd</sup> Street were **angle crashes**.

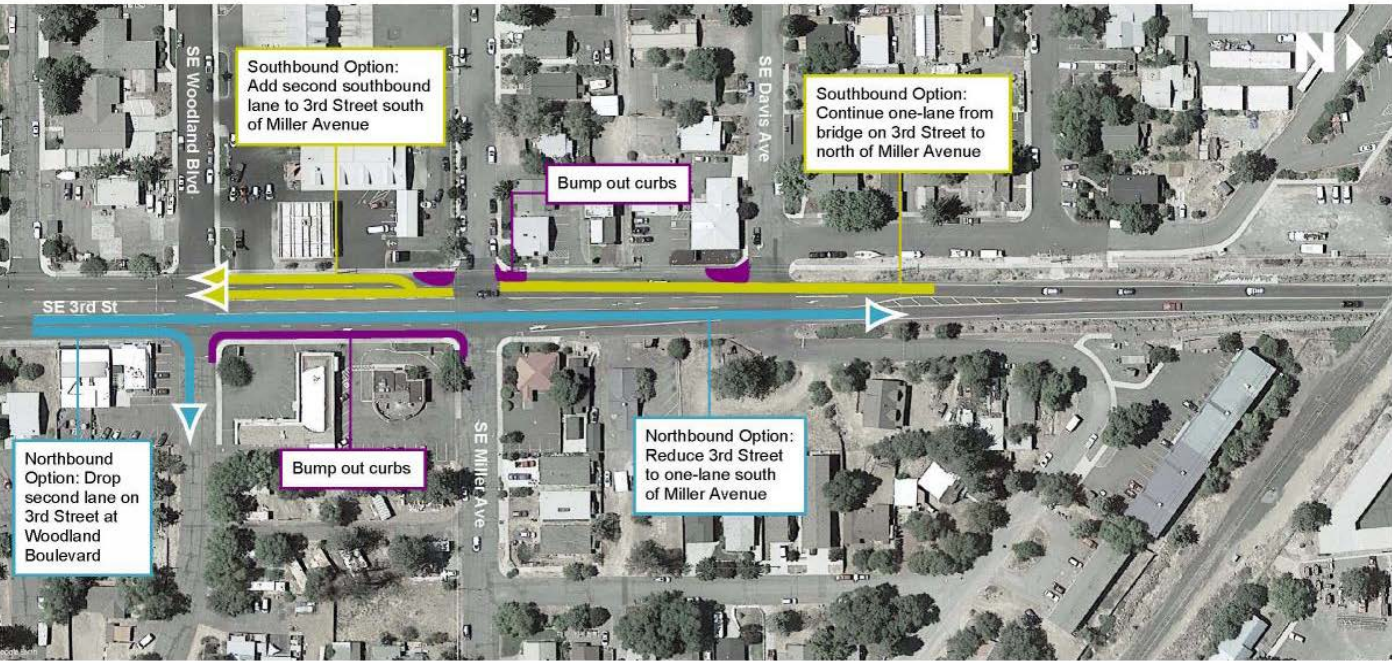


**Figure 24**  
**Crash Diagram**



# 3<sup>rd</sup> Street Corridor

## Localized Hybrid Concept



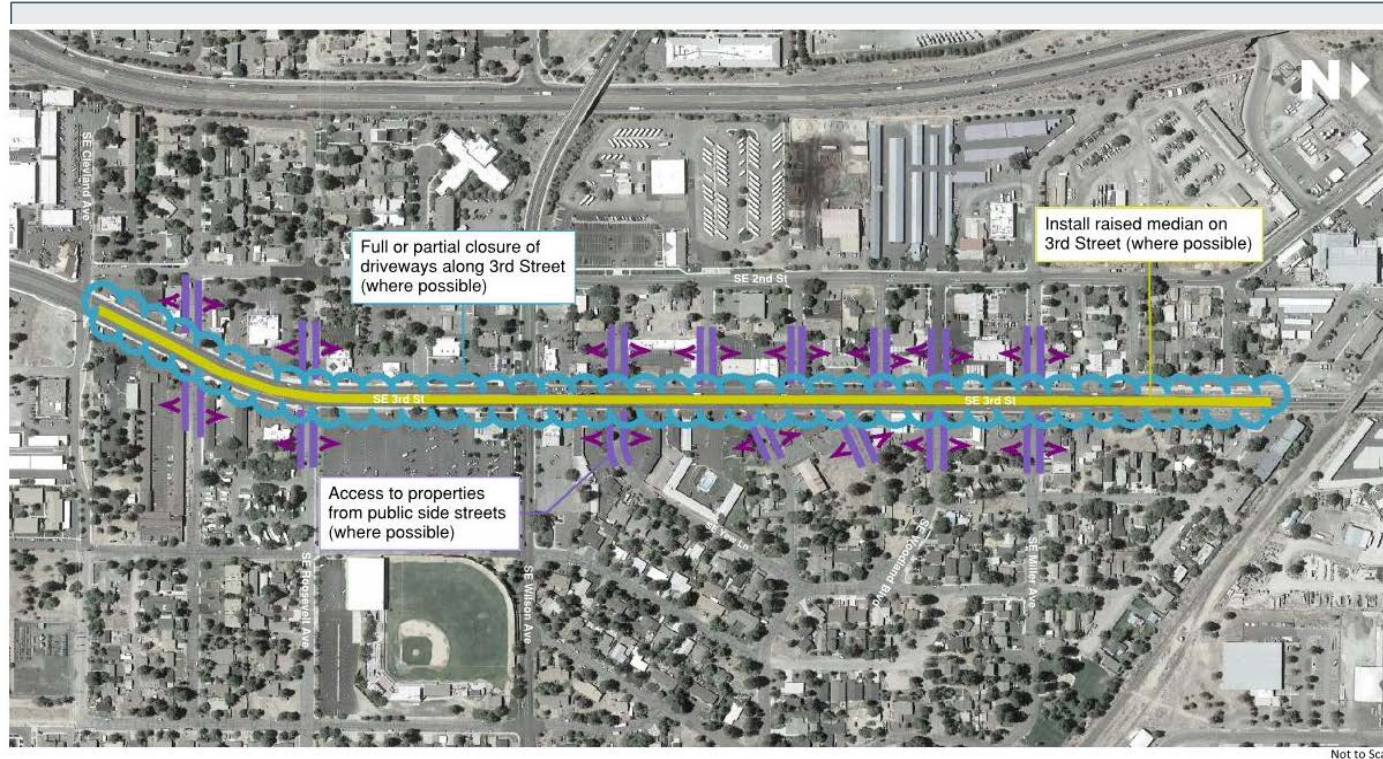
Maximizes potential safety benefits by reducing the number of potential conflict points and reducing the crossing distance of 3<sup>rd</sup> Street for pedestrians.

Continue a single southbound lane from Davis Avenue to south of Miller Avenue.

Drop second northbound lane and converted to a right-turn only at Woodland Boulevard.

# 3<sup>rd</sup> Street Corridor

## Larger Network Corridor Access Management Concept



Implementation of access management could reduce crash frequency and improve the safety of traffic flow.

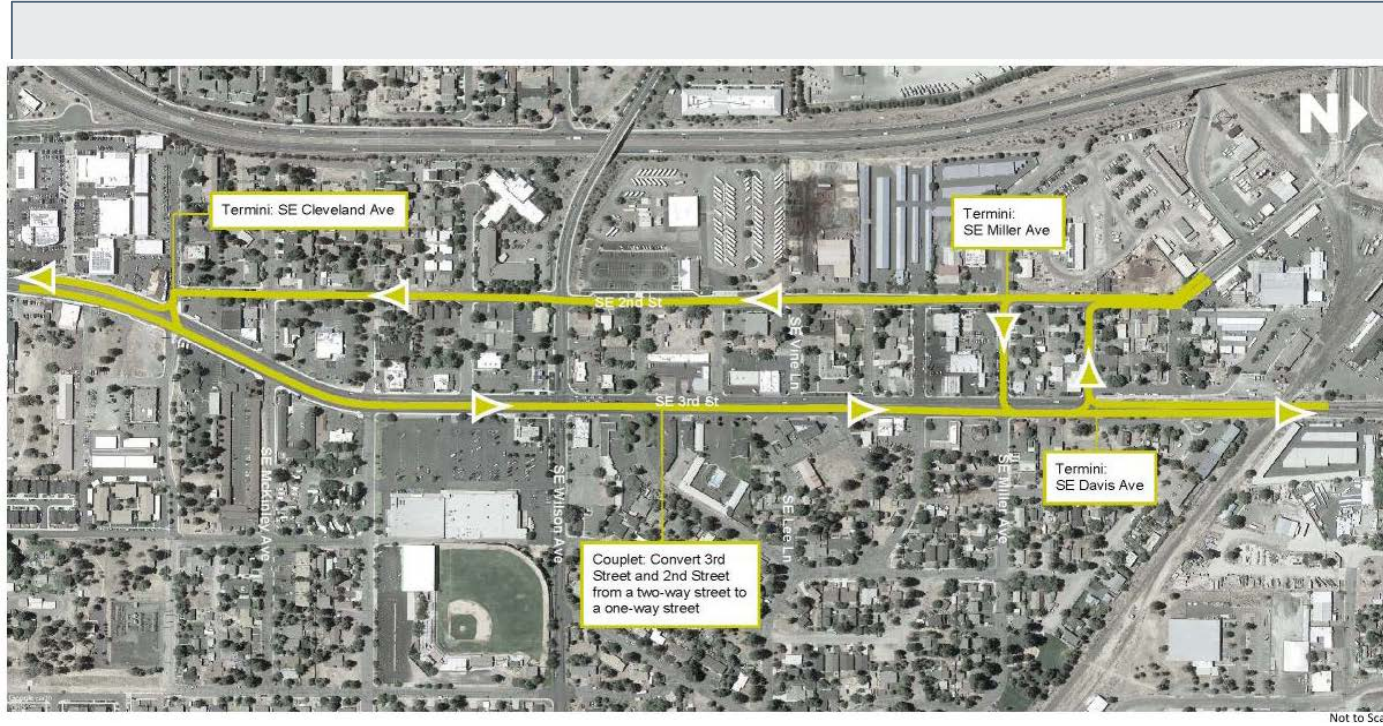
Full or partial closure of driveways along 3<sup>rd</sup> Street.

Install raised medians.



# 3<sup>rd</sup> Street Corridor

## Larger Network Couplet Concept



Potential conflicts at side streets are reduced and traffic can flow more uniformly without as many turning conflicts.

Convert 3<sup>rd</sup> Street and 2<sup>nd</sup> Street to one-way.

Opportunity to install on-street parking and increase bike lane width.

# COORDINATION WITH THE TSP

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- Site-Specific Concepts:
  - Incorporated as Projects in the TSP



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# LOCATION SPECIFIC RECOMMENDATIONS

## Section 5.3 of the Draft TSAP

Implemented two network screening approaches to identify priority locations for recommendations.

### Excess Proportion Screening → Systemic Treatments

- The performance measures identified locations with a high concentration of particular crash types

*Excess proportion performance measure quantifies, for a given location, the difference between the observed proportion of a specific collision type and the proportion among the relevant reference population (i.e., all intersections). The excess proportion is the difference between a site's proportion and the chosen threshold. For example, if 40% of reported intersection collisions are angle collisions, a site with 70 percent angle collisions would represent a 30 percent excess proportion.*



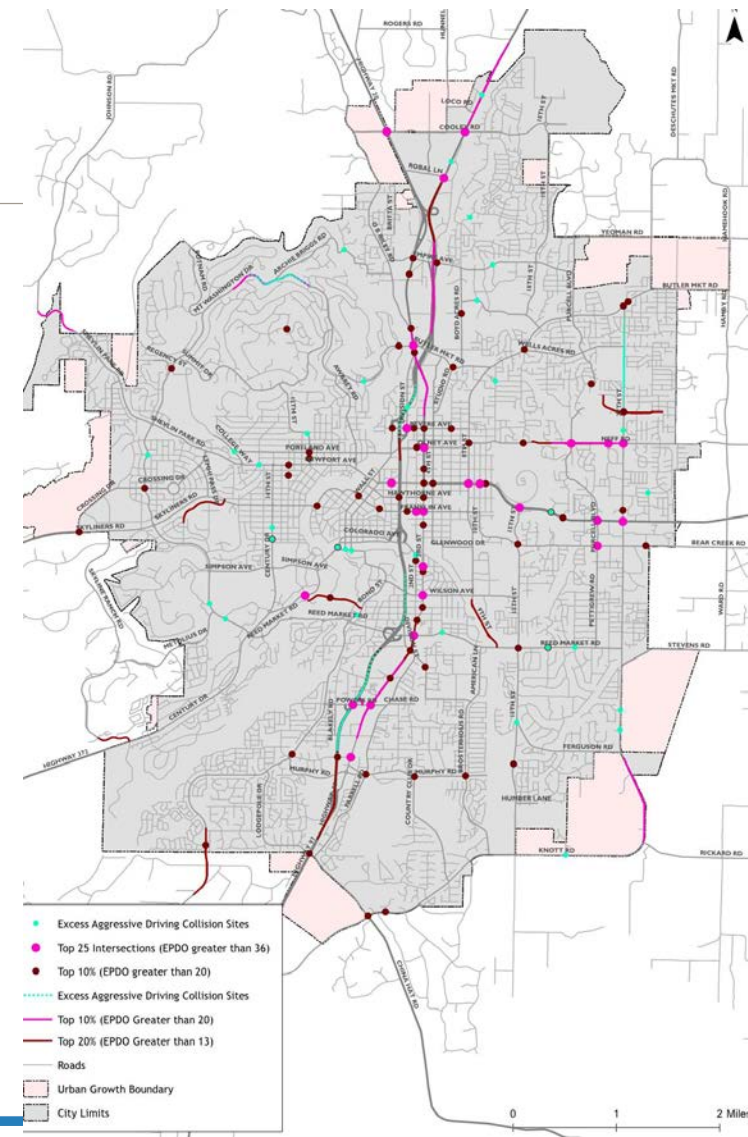
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# SYSTEMIC RECOMMENDATIONS

- Excess proportions of specific crash type screening conducted for:
  - Aggressive driving
  - Dark conditions without street lights
  - Angle and turning movement collisions
  - Rear-end collisions
  - Head-on collisions
  - Roadway departure collisions
  - Alcohol/drug involved collisions



Equivalent Property Damage Only Scoring and Excess Proportion  
Top EPDO Scores and Excess Aggressive Driving Collision Sites  
Bend Area, 2012-2016

# SYSTEMIC RECOMMENDATIONS

- Section 3 of the TSAP: Systemic Solutions Toolbox
  - Often applied on a wide-scale (same treatment at many different locations) for relatively low-cost
  - Often incorporated into capital projects as well as ongoing maintenance activities to maximize cost-effectiveness
  - Crash Reduction Factors (CRFs) documented, when possible



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# SYSTEMIC RECOMMENDATIONS

- Section 3 presents Systemic Solutions in 5 groups:
  - Spot treatment vehicle countermeasures
  - Systemic intersection countermeasures
  - Roadway departure countermeasures
  - Bicycle or pedestrian countermeasures
  - Enhanced pedestrian crossing treatments



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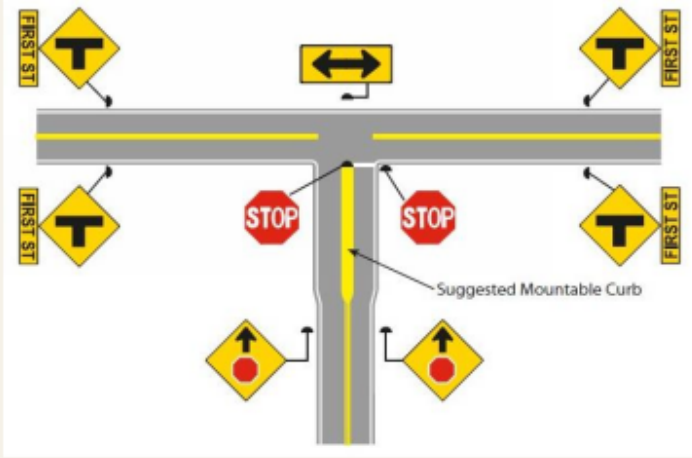
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# SYSTEMIC RECOMMENDATIONS

- Example treatment from Systemic Toolbox:

## Install Raised Divider on Stop Approach (Splitter Island)

Installing a raised divider (with mountable curb) on a stop-controlled approach to an intersection can increase intersection visibility by adding a left-side stop sign and better delineate vehicle paths at the intersection. Where possible, a minimum width of 6-feet should be used for the splitter island.

<b>Intersection or Segment</b>	<i>Intersection (Unsignalized)</i>	
<b>Applicable Collision Types</b>	<i>All collisions</i>	
<b>Potential Collision Reduction</b>	<i>15%</i>	
<b>Planning-Level Cost</b>	<i>\$7.55 per sq ft</i>	

Source: FHWA

\* FHWA, "Low-Cost Safety Enhancements for Stop-Controlled and Signalized Intersections," (2014)

# SPEED MANAGEMENT TOOLBOX

- Section 4 of the TSAP: Speed Management Toolbox
- Treatments organized into three categories:
  - Pavement markings
  - Physical roadway improvements
  - Signage



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# SPEED MANAGEMENT TOOLBOX

- Example from Speed Management Toolbox:

## Transverse Lane Marking

**Description:** Transverse lane markings are horizontal markings placed on the roadway. There are many types of transverse lane markings including optical bars and chevron marking. They may extend partially into a lane or be placed fully across the lane.

**Application Guidance:** Transverse markings are especially useful for transition zones and can be used in locations where there is an approaching change in roadway character such as an intersection or curve. Markings may be spaced increasingly closer on the approach to an intersection to give the appearance so a driver is more aware of their speed. Transverse lane markings support decreased speeds on intersection approaches or other roadway transition. Optical speed bars are an additional type of transverse marking. MUTCD Section 3B.22 provides guidance on placement of optical speed bars.



Source: FHWA



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# COORDINATION WITH THE TSP

- Systemic Solutions:
  - Expected to be incorporated in the TSP as an action: review standards and specifications to address safety issues identified



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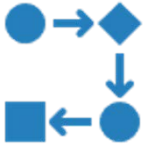
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# NON-INFRASTRUCTURE RECOMMENDATIONS

- Comprehensive approach to transportation safety acknowledges that policy, planning, programming, and projects are multidisciplinary and involve “7Es” of safety:
  - Engineering
  - Emergency Medical Services (EMS)
  - Enforcement
  - Education
  - Encouragement
  - Equity
  - Evaluation

*Section 6 of the Draft TSAP*



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# NON-INFRASTRUCTURE RECOMMENDATIONS

- Table 10 in Section 6.2 of the TSAP provides the identified **action items**
- Lead and supporting agencies identified

Action Item	Description	Emphasis Area(s)	Lead Agency	Supporting Agencies	Funding Need
A1	Create and implement a Regional Transportation Safety Committee to coordinate on transportation safety and implement the Action Items identified in the TSAP. Other representatives from various outreach or advocacy groups will also be helpful to help with outreach. City staff participation from various departments such as police, streets, capital projects, engineering, and community development will help promote coordination across departments and the share of resources and data to coordinate transportation safety efforts. Regular meetings should occur at which the committee share data/resources, implements the Deschutes County and Bend Area TSAP Action Items, and identifies new actions needed based on more recent crash history.	Safety Culture	ODOT or City of Bend	Deschutes County, City of Bend, Bend MPO, Redmond, Sisters, La Pine, Police, Sheriff, District Attorney's office, Emergency Services, OLCC, Department of Public Health	\$\$\$



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# NON-INFRASTRUCTURE ACTION ITEMS

## 52 action items identified for the following emphasis areas:

- Safety culture
- Education
- Enforcement
- Emergency response
- Aggressive driving
- Distracted driving
- Impaired driving
- Motorcyclists
- Pedestrians & bicyclists
- Senior drivers
- Young drivers
- Technology
- Monitoring



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# EXAMPLE ACTION ITEMS: SAFETY CULTURE

- A1: Create a Regional Transportation Safety Committee
- A2: Create a staff position to lead the Committee
- A3: Create a Bend Area Safety Communications Plan
- A4: Develop a Safety Communications Calendar
- A5: Coordinate with the Bend Neighborhood Associations Leadership Alliance for outreach
- A6: Provide educational materials to visitors
- A7: Provide educational materials to residents



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# EXAMPLE ACTION ITEMS: ENFORCEMENT

- A9: Increase enforcement during highest risk times
- A10: Evaluate options for a pilot study of automated enforcement



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# EXAMPLE ACTION ITEMS: EMERGENCY RESPONSE

- A11: Provide bystander training courses to the public
- A12: Optimize response time to crashes



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# EXAMPLE ACTION ITEMS: IMPAIRED DRIVING

- A17: Encourage compliance checks
- A18: Develop an educational campaign to promote sober driving
- A22: Formalize rideshare locations in downtown area and near locations with multiple restaurants, bars, and pubs
- A23: Coordinate with local businesses and rideshare companies to offer a program that provides users with a discount for taking a cab or rideshare to/from drinking establishments



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# EXAMPLE ACTION ITEMS: PEDESTRIAN & BICYCLISTS

- A28: Continue to provide local educational programs at schools and other venues
- A29: Collaborate with the Department of Public Health to work on active transportation
- A31: Continue and expand the “Friendly Driver” program



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# COORDINATION WITH THE TSP

- Non-infrastructure actions:
  - Several are expected to be incorporated as programmatic recommendations in the TSP



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# TSAP QUESTIONS & NEXT STEPS

- Revise the TSAP based on comments from the TAC
  - TAC Provide comments by Friday, 7/19
- Develop efficiency performance measures
- Final TSAP: mid-August
  - Plan will be updated on a regular basis
- Tentative brown bag in August
  - *Topic: TSAP Overview & Next Steps for Implementation*
- *Website: [bendoregon.gov/transportationsafety](http://bendoregon.gov/transportationsafety)*



**BEND MPO**  
Metropolitan Planning Organization



CITY OF BEND

# PROJECT WEBSITE

- [bendoregon.gov/transportationsafety](http://bendoregon.gov/transportationsafety)

Organization

- MPO Policy Board
- Technical Advisory Committee
- Plans and Programs
  - Metropolitan Transportation Plan
  - Safety Action Plan**
  - ITS Plan
  - Parkway Plan
  - Transit Plan
  - Public Participation & Your Rights
  - MTIP and Annual Project Report
  - Work Plan & Budget
- + Transportation Data
- BMPO Contact Information

**CONTACT**

City Hall, City of Bend  
(541) 388-5505

**EVENTS**

Bend MPO Technical Advisory Committee - Safety Workshop

## Bend Transportation Safety Action Plan

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### BEND AREA TRANSPORTATION SAFETY ACTION PLAN (TSAP)

KITTELSON & ASSOCIATES

### Bend Area Transportation Safety Action Plan

**Transportation Safety Action Plan Work Session**  
**Objective: Review and comment on the Draft Safety Action Plan for Bend**  
Date: July 10, 2019 Time: 10:00 - 12:00 PM  
Location: ODOT Region 4 - Bldg M - Diamond/Crater Conference Room 63055 HWY 97, Bend, Oregon  
**All are welcome to attend.**  
**Agenda - Draft Plan**

**Purpose**