**Project Description**
Repairs the Knights Bridge Road over the Molalla River in Canby.

**Purpose And Need**
This bridge is in fair condition, but needs upgrades to help protect from erosion around the bridge columns in the water.

**Proposed Solutions**
- Rehabilitate the existing bridge including seismic retrofit to superstructure, rust removal, painting, joint repair and deck work.
- Address the erosion concerns around the bridge columns in the water (scour) and repair the columns.

**Anticipated Benefits**
- Extended lifespan of the bridge, reduced erosion concerns around the columns and improved safety.

**Cost**
- Local Bridge Program: $1,231,086
- Clackamas County: $369,832
- Estimated Total Cost: $1,601,086
S Redland Rd: OR213 - Springwater Rd (Clackamas County)

Clackamas County

Project Description
Installs High Friction Surface Treatment, or HFST, signs and edge/fog line striping on curves on S Redland Road between Oregon 213 (Cascade Highway South) and Springwater Road.

Purpose And Need
A Road Safety Audit competed in 2017 identified 178 crashes on this corridor, including 2 fatal crashes and 5 severe injury crashes.

Proposed Solutions
• Apply HFST on curves. HFST is a thin layer of small engineered gravel placed on the road using a very strong type of glue. HFST improves skid resistance, including on curved roads in wet and slick conditions.
• Improve signage and markings to better inform drivers of curves in the roadway.

Anticipated Benefits
• Increased safety for travelers on S Redland Road with the installation of HFST, which will increase skid resistance and decrease crashes.
• Increased safety by reducing crashes with upgraded signage and edge/fog striping.

Cost
All Roads Transportation Safety $308,541
Clackamas County $26,013
Estimated Total Cost $334,558

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

www.Oregon.gov/ODOT/STIP Draft 2021-2024 Oregon Statewide Transportation Improvement Program
Project Description
Installs a traffic signal at the intersection of Johnson Creek Boulevard and SE 79th Place in Clackamas County.

Purpose And Need
This intersection is a high-crash location with 43 crashes from 2011 through 2015. This intersection is one of the highest ranked safety sites in Clackamas County. The primary cause for crashes at this location is related to turns.

Proposed Solutions
- Install a new signal at the intersection of SE Johnson Creek Blvd and SE 79th Place.
- Install a raised median from SE 79th Place to SE 82nd Avenue and allow only right-in, right-out turns at SE 80th Avenue at the Fred Meyer shopping complex driveway.

Anticipated Benefits
- Improved safety by restricting some turns to reduce crashes from drivers turning in and out of driveways.
- Increased safety for all modes of traffic, including pedestrians, with a new signal and crossing at SE 79th Place.

Cost
- ORR Transportation Safety $1,400,438
- Clackamas County $123,208
- Estimated Total Cost $1,583,644

This intersection is a high-crash location with 43 crashes from 2011 through 2015. This intersection is one of the highest ranked safety sites in Clackamas County. The primary cause for crashes at this location is related to turns.

Installs a traffic signal at the intersection of Johnson Creek Boulevard and SE 79th Place in Clackamas County.
Additional projects in Clackamas County:

- OR213 (82nd Ave): SE Foster Rd - SE Thompson Rd (21177)
- Portland Metro and Surrounding Areas Traffic Monitoring and Control (21600)
- Portland Metro and Surrounding Areas Variable Message Signs (21601)
- Portland Metro and Surrounding Areas Traffic Signal Upgrades (21603)
- Portland Metro and Surrounding Areas Traffic Pavement Marking (21604)
- Portland Metro and Surrounding Areas Signal Detection (21605)
- Portland Metro and Surrounding Areas Traffic Monitoring (21609)
- Portland Metro and Surrounding Areas Rockfall Mitigation (21610)
- Portland Metro and Surrounding Areas Operations (21611)
- Portland Metro and Surrounding Areas Audible Crosswalk Signals (21618)
- Portland Metro and Surrounding Areas Safety Reserve (21715)

View more information on each project in the Various/Multiple Counties section.

A section of OR35 in Clackamas County is included in the OR281, OR282 and OR35 signs, signals and lighting project in Hood River County.