



Transportation Operations 2019–2021 Low Cost Enhancement Program

FINAL REPORT



DECEMBER, 2021

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DEFINITIONS

| Category | Definition |
|--------------------|---|
| Intersection | Project addresses crash trends, contributing factors, or mobility issues at an intersection. |
| Lane Departure | Project addresses engineering countermeasures associated with a vehicle leaving the lane. These may include high friction surface treatment (HFST), rumble strips, guardrails, and other treatments particular to a location. |
| Pedestrian/Bicycle | Project addresses identified crash risks or mobility issues for bicyclists or pedestrians. |
| Mobility | Project addresses mobility on the system; can include Intelligent Transportation System (ITS) projects. |
| Signs | Projects to implement Guide, Warning, Regulatory, or Low Clearance signs. |
| Pavement Markings | Project involves striping. |
| ITS spending | ITS-related projects. |
| Traffic Studies | Any research or traffic studies. |
| Project Design | Labor to design and scope projects. |
| Miscellaneous | Activities that don't fit in another category. Examples include: WSP aerial markings, Test sites, Tort claim investigations, illumination. |
| Low Cost Actions | Bundle of many small cost safety and mobility projects — usually \$5,000 or less — under one job number. |

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PROGRAM OVERVIEW

Low Cost Enhancement (LCE) projects are small, low cost — usually less than \$100,000 — projects that can be quickly implemented to reduce crashes, reduce the potential for crashes, or improve mobility. LCEs quickly address emerging crash trends and mobility issues. These projects bring near-term relief to operational deficiencies, and are often the first step in implementing incremental, longterm corridor strategies.

Because of their low cost and quick implementation, LCE projects are often very practical solutions to emerging needs. LCE projects may often postpone or lessen the need for larger capital projects.

LCE projects generally come in three sizes:

- 1. Small. Under \$5,000. When projects are under \$5,000, they are often bundled together under "Low Cost Actions," but they can also stand alone.
- **2. Medium.** \$5,000 \$50,000.
- 3. Large. Over \$50,000.

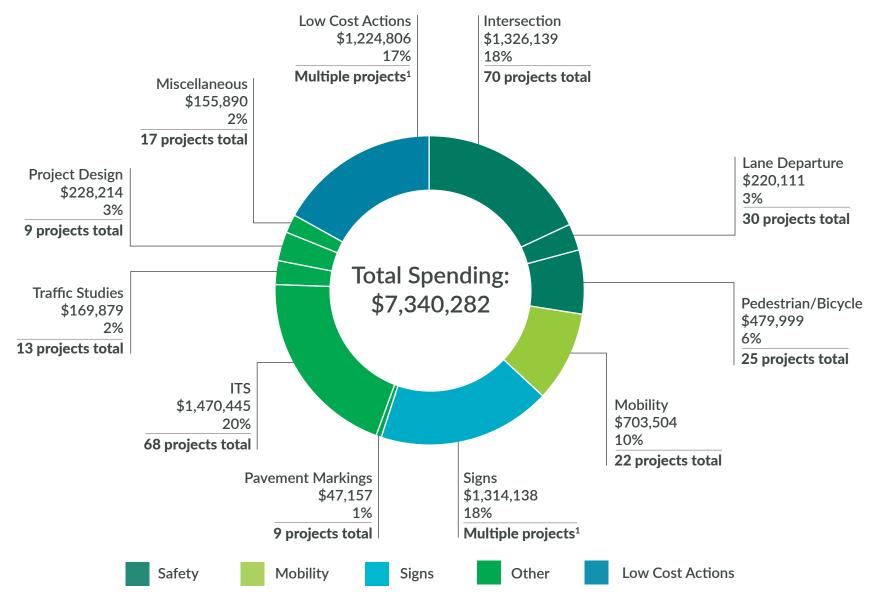
LCE projects often originate when concerned citizens, elected officials, local agencies, or region staff identify a safety or mobility concern along a state highway. Region Transportation Office staff analyze the concern and decide to create an LCE project to address the concern. Additionally, the Transportation Operations' Field Assessment Program identifies larger-scale opportunities for LCE through a systematic screening process.

The 2019-2021 Low Cost Enhancement Program

In 2019-21, The Transportation Operations Division delivered \$7.3 million in low-cost enhancement projects. This included over 258 projects, plus numerous low-cost actions and bundled signing projects. Of the \$7.3 million, \$6.9 million went directly to implement on-the-ground projects. An additional \$170,000 went to traffic studies, and \$228,000 went to staff time to design projects. This report fulfills the requirements in SSB 5165, Section 216 (1):

\$6,000,000 of the motor vehicle account state appropriation is provided solely for low-cost enhancements. The department shall give priority to low-cost enhancement projects that improve safety or provide congestion relief. By December 15th of each odd-numbered year, the department shall provide a report to the legislature listing all low-cost enhancement projects completed in the prior fiscal biennium.

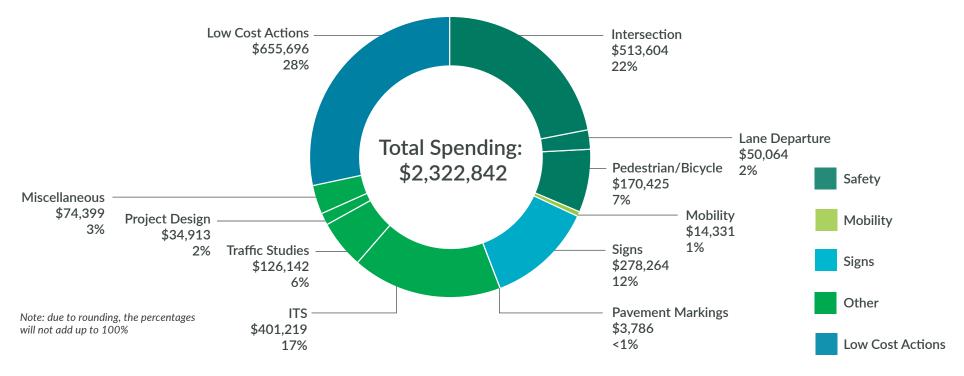
Statewide Low Cost Enhancement Spending by Type of Project 2019-2021



Note: 26 projects have more than one category assigned to them and are counted more than once in the graph.

¹ Sign and Low Cost Action projects have many low-cost projects that do not get counted individually.

NWR: Low Cost Enhancement Spending by Type of Project – 2019-2021



All 2019-2021 Low Cost Enhancement Projects

| Project | Cost | First Category | Second Category | Third Category |
|--|-----------|--------------------|-----------------|----------------|
| King Area Low Cost Actions | \$255,560 | Low Cost Actions | | |
| Mount Baker Low Cost Actions | \$205,596 | Low Cost Actions | | |
| Snohomish Area Low Cost Actions | \$194,539 | Low Cost Actions | | |
| NWR Curve Warning Signs | \$122,767 | Lane Departure | Signs | |
| Maxtime Cards, License, and Renewal | \$111,916 | Intersection | | |
| I-90 On-Ramp at Rainier – Ramp Meter Restripe & Pedestrian Enhancements | \$86,547 | Pedestrian/Bicycle | Mobility | ITS spending |
| SR 203 in Sammamish - Signal Cameras and Central Signal System Connections | \$79,177 | Intersection | ITS spending | |

All 2019-2021 Low Cost Enhancement Projects

| Project | Cost | First Category | Second Category | Third Category |
|---|----------|--------------------|-----------------|----------------|
| Fast Act Weight Limit Signs | \$67,101 | Signs | | |
| I-90, I-405 and SR 522 Ramp Meter Enhancement and ITS | \$65,780 | ITS spending | | |
| SR 526 at MP 1.06 - Relocate Impact Attenuator | \$56,593 | Miscellaneous | | |
| SR 96 at Penny Creek School - Flashing Beacons Grant Match | \$54,685 | Pedestrian/Bicycle | | |
| SR 527 Bothell to Mill Creek - Overhead Fibers | \$50,954 | ITS spending | | |
| HOV/Managed Urban Lane (MUL) Pooled Fund Study | \$50,000 | Traffic Studies | | |
| SR 527-10 Fiber Splices | \$35,154 | ITS spending | | |
| US 2 at Eagle Falls - No Parking Signs and Pavement Marking on Shoulder | \$31,948 | Pedestrian/Bicycle | | |
| SR 520 at 52st EB & WB - Signal Cabinet Upgrade | \$28,732 | Intersection | | |
| Replace Controllers - Eight Locations Regionwide | \$28,314 | ITS spending | | |
| TMC Pooled Fund Study | \$25,000 | Traffic Studies | | |
| SR 527 & SR 96 - Loop Work For Adaptive Signal Controller | \$24,734 | Intersection | | |
| SR 522 at NE 195th - Offramp Fiber & Camera | \$24,686 | ITS spending | | |
| I-5 at Bakerview NB & SB - Uninterruptable Power Supply | \$24,074 | Intersection | | |
| SR 900 Corridor Study | \$22,216 | Traffic Studies | | |
| I-5 at Interurban - Improve Pedestrian Crossing | \$20,856 | Pedestrian/Bicycle | | |
| SR 20 at Coronet Bay - Flashing Yellow Arrow & Back Plates | \$18,291 | Intersection | | |
| SR 202 Sammamish to Fall City - Corridor Study | \$18,178 | Traffic Studies | | |
| SR 92 at Machias - Active Warning Signs | \$17,527 | Intersection | | |
| I-5 at Main In Ferndale - Cabinet Replacement | \$17,247 | Intersection | | |
| I-405 at SR 527 NB - Signal Head Relocation | \$16,788 | Intersection | | |
| Replace 3 Cameras | \$16,251 | ITS spending | | |
| SR 20 Spur at 22nd St - Signal Cabinet Upgrade | \$16,105 | Intersection | | |
| Environmental Investigation | \$15,404 | Project Design | | |

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| Project | Cost | First Category | Second Category | Third Category |
|---|----------|--------------------|-----------------|----------------|
| Bridge Clearance Signing | \$15,059 | Signs | | |
| Snohomish County Adaptive Signals - Phase 2 | \$14,408 | ITS spending | | |
| I-5 at 220th in Mountlake Terrace - Signals | \$14,343 | Intersection | | |
| I-5 at Lynnwood - Guide Sign | \$14,225 | Signs | | |
| I-5 from Ebey Slough Bridge to SR 531- Ramp meter. | \$13,879 | ITS spending | | |
| I-5 Express Lanes - Slippery When Wet Signs | \$13,739 | Signs | | |
| SR 531 at 67th Ave NB & SB - Flashing Yellow Arrow | \$13,114 | Intersection | | |
| SR 9 at 60th - Left Lane Restriction | \$12,640 | Intersection | | |
| SR 203 at Tolt Rd - Sign & Striping | \$12,600 | Intersection | | |
| SR 531 at I-5 - Pedestrian Signs, Crosswalk Markings, and Detectable Warning Surfaces | \$12,437 | Pedestrian/Bicycle | | |
| SR 20 at March Pt/Christianson - Signal Cabinet Upgrade | \$12,118 | Intersection | | |
| I-5 at Main in Ferndale - Flashing Yellow Arrow | \$11,833 | Intersection | | |
| SR 20 at Sharpes Corner - Striping And Signing | \$11,534 | Intersection | | |
| SR 530 at Arlington Heights Rd - Flashing Yellow Arrow | \$11,446 | Intersection | | |
| Radar Speed Signs | \$11,017 | ITS spending | | |
| SR 9 at MP 51.40-51.90 - Curve Signing | \$10,678 | Lane Departure | | |
| SR 527 at Dumas - Flashing Yellow Arrow | \$10,615 | Intersection | | |
| Material Lab Investigation | \$10,386 | Project Design | | |
| I-5 SB to Union - Signing/Delineation | \$9,714 | Lane Departure | | |
| US 2 from I-5 to Bickford - Tow Zone Signs | \$9,671 | Signs | | |
| Regionwide HOV Violation Signs | \$9,389 | Signs | | |
| SR 900 at S 129th St - Traffic Signal and Pavement Marking Enhancements | \$9,386 | Pedestrian/Bicycle | | |
| SR 164 at 244th - Flashing Yellow Arrows | \$9,329 | Intersection | | |
| SR 99 at S154th - Flashing Yellow Arrow Right Turn Overlap | \$9,224 | Intersection | | |

All 2019-2021 Low Cost Enhancement Projects

| Project | Cost | First Category | Second Category | Third Category |
|---|---------|--------------------|-----------------|----------------|
| SR 9 at SR 531 - Roundabout Striping Modification | \$9,188 | Intersection | | |
| SR 20 at E Whidbey Ave EB - Flashing Yellow Arrows | \$8,989 | Intersection | | |
| NWR Staffing Costs | \$8,730 | Miscellaneous | | |
| SR 99 at 154th - Audible Pedestrian System | \$8,664 | Intersection | | |
| SR 203 at Snoqualmie Valley - Trail Crossing Pavement Markings and Speed Limit Change | \$8,601 | Pedestrian/Bicycle | | |
| Spokane S/6th Ave S to I-5 SB - Curve Warning Signs | \$8,515 | Lane Departure | | |
| SR 526 - Signing | \$8,447 | Signs | | |
| SR 525 at Harbour Pt Shopping Center - Flashing Yellow Arrows | \$8,021 | Intersection | | |
| Signal Maintenance Investigation | \$8,016 | Project Design | | |
| SR 410 at 284th - Flashing Yellow Arrows | \$7,942 | Intersection | | |
| Black Cat Speed Data Collection Units | \$7,919 | Traffic Studies | | |
| SR 202 at North Bend Way - Flashing Yellow Arrows | \$7,701 | Intersection | | |
| SR 169 at Witte - Flashing Yellow Arrows | \$7,196 | Intersection | | |
| SR 202 from SR 203 to Fish Hatchery - No Parking Signs on Shoulder | \$6,874 | Pedestrian/Bicycle | | |
| SR 516 at 172 - Flashing Yellow Arrows | \$6,528 | Intersection | | |
| 320th EB Ramp to I-5 NB - Curve Warning | \$6,490 | Lane Departure | | |
| Generator Relocation - Dayton to Marysville | \$6,459 | ITS spending | | |
| SR 525 at SR 526 (84th St SW) - Flashing Yellow Arrows | \$6,007 | Intersection | | |
| SR 20 Wrong Way Improvements - Phase 1 | \$5,814 | Signs | | |
| Advanced Traffic Controller Cabinets | \$5,609 | ITS spending | | |
| SR 202 at Sahalee - Camera Replacement | \$5,458 | ITS spending | | |
| Tort Claim Investigation | \$5,402 | Miscellaneous | | |
| SR 20 at MP 126.4 - Curve Warning Signs | \$5,395 | Lane Departure | | |

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| Project | Cost | First Category | Second Category | Third Category |
|--|---------|--------------------|-----------------|----------------|
| SR 410 at Garrett - Flashing Yellow Arrows | \$5,295 | Intersection | | |
| SR 539 at Kok Rd - Flashing Yellow Arrows | \$4,995 | Intersection | | |
| SR 532 at 82nd Ave NW (Pioneer Hwy) - Flashing Yellow Arrows | \$4,659 | Intersection | | |
| I-5 Offramp to Boeing Access Rd - No Parking Signs | \$4,333 | Signs | | |
| SR 9 at MP 33.33 - Flashing Beacon | \$4,276 | Lane Departure | | |
| I-5 NB Marysville Vicinity - Connect Loops To Cabinet | \$4,147 | ITS spending | | |
| SR 520 at 92nd - Pedestrian Signing and Markings at the Roundabout | \$4,025 | Pedestrian/Bicycle | | |
| I-90 at W Mercer Way - Remove HOV Marks | \$3,786 | Pavement Markings | | |
| SR 525 at E Bush Point/S Honeymoon Bay - Restripe | \$3,723 | Intersection | | |
| SR 531 at 51st Ave NE - Flashing Yellow Arrows | \$3,367 | Intersection | | |
| SR 18 WB at I-5 - Overhead Sign Update | \$3,203 | Signs | | |
| Regionwide Bridge Clearance Signing | \$2,717 | Signs | | |
| SR 20 Memorial Highway Signs | \$2,634 | Signs | | |
| I-405 at NE 70th - Bike Box | \$2,487 | Pedestrian/Bicycle | | |
| SR 410 at 241st Ave SE - One Way Sign | \$2,106 | Signs | | |
| SR 900 Open House | \$2,100 | Traffic Studies | | |
| Regionwide Unstable Slopes Signing | \$2,056 | Signs | | |
| SR 104 near 47th Ave NE - Utility Pole Removal | \$1,939 | Miscellaneous | | |
| SR 522 at MP 6.33 - Remove Left Turn into Private Driveway | \$1,735 | Miscellaneous | | |
| SR 509 at Cloverdale St/1st Ave S - Signal Upgrade | \$1,591 | Intersection | | |
| SR 526 at Broadway - Wrong Way Improvements | \$1,199 | Intersection | | |
| SR 96 I-5 to SR 9 - Paving for NB On-Ramp meter | \$1,163 | ITS spending | | |
| Utility Investigation | \$1,108 | Project Design | | |
| SR 169 Maple Valley Open House | \$728 | Traffic Studies | | |

2019-2021 Project Highlights

I-90 ON-RAMP AT RAINIER - RAMP METER RESTRIPE & PEDESTRIAN ENHANCEMENTS

\$86,547

The ramp meter on the ramp from northbound Rainier Ave S to eastbound I-90 manages demand entering I-90, which is regularly congested during peak periods. In the previous configuration, the on-ramp had a single general-purpose lane with an adjacent HOV bypass. Due to heavy mainline congestion and limited ramp storage capacity, queues from the single generalpurpose lane would extend onto northbound Rainier Ave S.

The queues in the single general-purpose lane affected traffic on northbound Rainier Ave S, impacting transit progression northbound toward downtown Seattle. Additionally, pedestrians attempting to cross the ramp during peak periods had to navigate through a lane of queued vehicles, while also observing approaching free flow traffic in the HOV lane. To mitigate these issues, Northwest Region re-channelized the entrance to the ramp, reducing the optiondrop configuration to a single, exit-only lane configuration. The region converted the HOV bypass to a general-purpose metered lane, and the right lane to a metered shoulder for additional storage.

This configuration improves the experience for both pedestrians and transit. Pedestrians now only cross one lane of traffic, reducing crossing distance as well as eliminating the possibility of a single lane of stopped traffic blocking pedestrians' views of approaching traffic in the next lane. The metered shoulder created 800 extra feet of storage space, which allows for greater flexibility



Before: aerial of ramp with two full-time lanes, a generalpurpose lane, and an HOV bypass

during metered conditions and facilitates transit progression by shifting queues from northbound Rainier Ave S to the on-ramp.

This project also provides a future benefit: it will improve pedestrian safety crossing the ramp for users of the upcoming LINK light rail station, as well as northbound transit mobility heading to the LINK station and downtown Seattle.



After: ramp reduced to a single-lane entrance with a metered shoulder downstream of the striping

NORTHWEST REGION 2019-2021 Project Highlights

SR 9 AT 60TH - LEFT TURN RESTRICTION

The 60th St. intersection is near the Marysville east city limits and is part of unincorporated Snohomish County. The intersection primarily provides access for rural low-density residential housing. Over the past five years, there have been several crashes at this intersection; 85% involved southbound vehicles turning left at the intersection from SR 9 to 60th and experiencing a rear-end crash. There were two serious crashes in 2018: one overturn and one rear end.

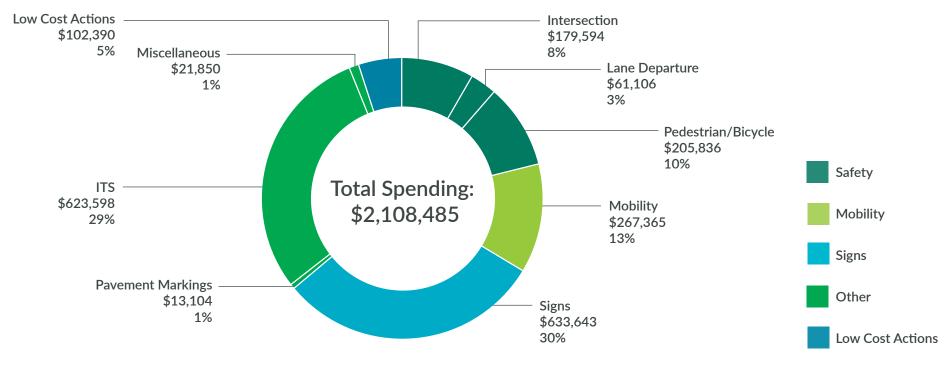
Northwest Region installed new pavement markings, pylons, and signing to prohibit all left turns and enhance traffic safety at the intersection. Motorists are able to travel to and from SR 9 through the 42nd Street Northeast intersection.

NWR monitored and revisited the project site to increase density and length of the pylon application along the centerline. This was intended to achieve compliance with the turn restriction.



Pylons, striping, and signing to prevent left-hand turns from SR 9 to 60th.





OR: Low Cost Enhancement Spending by Type of Project – 2019-2021

| Project | Cost | First Category | Second Category | Third Category |
|--|-----------|--------------------|-----------------|----------------|
| Regionwide Signal Controller Improvements | \$220,212 | Pedestrian/Bicycle | Mobility | ITS spending |
| SR 512 from I-5 to SR 7 EB - Congestion Management | \$183,703 | Mobility | ITS spending | |
| Low Cost Actions - Regulatory Signs | \$171,791 | Signs | | |
| Regionwide Signing | \$161,069 | Signs | | |
| Low Cost Actions - Warning Signs | \$139,194 | Signs | | |
| Low Cost Actions - Intersections | \$138,013 | Intersection | | |

| Project | Cost | First Category | Second Category | Third Category |
|---|-----------|--------------------|-----------------|----------------|
| I-5 & SR 16 - Cameras | \$137,438 | ITS spending | | |
| Low Cost Actions - Guide Signs | \$107,469 | Signs | | |
| Low Cost Actions - General | \$94,622 | Low Cost Actions | Multiple | |
| US 101 and SR 104 Highway Advisory Radio Upgrade | \$78,199 | ITS spending | | |
| Low Cost Actions - Pedestrian/Bicyclist | \$50,188 | Pedestrian/Bicycle | | |
| SR 512 at Golden Given Road East - CCTV | \$42,518 | ITS spending | | |
| SR 512 at SR 161 - CCTV | \$35,555 | ITS spending | | |
| TMC Video Distribution Software Upgrade | \$34,927 | ITS spending | | |
| LCE Project Design and Support | \$34,885 | ITS spending | Mobility | |
| SR 507 at East Gate Road - Wavetronix Signal Detection | \$34,704 | ITS spending | | |
| SR 7 from Roy Wye to Military Rd E - CCTV Camera Installation | \$25,895 | ITS spending | | |
| US 101 at Louella Rd - Left Turn Lane | \$24,970 | Mobility | Intersection | |
| Tacoma Narrows Bridge Cameras | \$24,234 | ITS spending | | |
| Low Cost Actions - Lane Departure | \$24,044 | Lane Departure | | |
| SR 16 - Communications Upgrade for Six Ramp Meters | \$23,002 | ITS spending | | |
| US 101 to NB I-5 On Ramp - Warning Signs | \$22,436 | Lane Departure | Signs | |
| SR 162 at Calistoga - ADA Accommodation | \$19,805 | Pedestrian/Bicycle | | |
| SR 160 South Worth - Ferry Holding Lane | \$19,679 | Miscellaneous | | |
| SR 99 54th to 59th - Signal Improvements | \$18,136 | ITS spending | | |
| US 101 in Hoodsport – Rectangular Rapid Flashing Beacons (RRFBs) and Radar Speed Feedback Signs | \$17,846 | Pedestrian/Bicycle | | |
| Traffic Management Center - Network Communication Improvements | \$17,078 | ITS spending | | |
| Signal Controller Conflict Tester Unit | \$13,188 | ITS spending | | |
| SR 115 at Damon Rd and Point Brown Ave - Warning Signs | \$12,517 | Lane Departure | Signs | |

All 2019-2021 Low Cost Enhancement Projects

| Project | Cost | First Category | Second Category | Third Category |
|--|----------|--------------------|-------------------|----------------|
| SR 507 at SR 702 - Traffic Cameras Installed | \$11,802 | ITS spending | | |
| SR 109 at Simpson Ave - Rectangular Rapid Flashing Beacon & Warning Signs at School Crosswalk | \$11,772 | Pedestrian/Bicycle | Pavement Markings | |
| I-5 at Mounts Rd - All Way Stop | \$11,418 | Intersection | | |
| US 101 in Brinnon Area - Elk Crossing Warning Signs | \$11,403 | Signs | | |
| US 101 at Black Lake - Updated ADA Push Buttons | \$9,955 | Pedestrian/Bicycle | | |
| SR 16 at Center Street Off-Ramp - Warning Signs | \$9,159 | Signs | | |
| SR 16 in Gig Harbor - Interchange Guide Signs | \$9,134 | Signs | | |
| US 12 at Rochester Middle School - Rectangular Rapid Flashing Beacons | \$8,689 | Pedestrian/Bicycle | | |
| US 12 at Chehalis St - Left Turn Lane | \$8,023 | Intersection | | |
| I-5 Off-Ramp to SR 705 - City Center Warning Signs | \$7,788 | Signs | | |
| SR 305 at Bond Rd - Signal Improvements | \$7,132 | Mobility | | |
| SR 12 at Chehalis and Tyler Streets - Signal Improvements | \$6,451 | Mobility | ITS spending | |
| SR 167 at 66th Ave E - Signal Improvements | \$5,873 | ITS spending | | |
| SR 105 East of SR 105 Spur to Edward P Smith Rd - Roadway Departure Delineation | \$5,650 | Lane Departure | | |
| US 12 at I-5 Grand Mound - Regulatory Signing & Median Crosshatching | \$5,555 | Intersection | | |
| US 101 at McDonald Cove - Warning Signs | \$5,386 | Lane Departure | | |
| SR 702 at Kinsman Rd - Intersection Warning Sign | \$5,224 | Intersection | | |
| I-5, 54th Interchange Left Turn Improvements | \$5,119 | Intersection | | |
| SR 16 at Wollochet Dr - Data Collection | \$4,272 | ITS spending | | |
| US 101 Rest-Awhile RV Park – Pedestrian Signs | \$4,204 | Pedestrian/Bicycle | | |
| I-5 at 41st Division Dr - Centerline Striping | \$3,910 | Pavement Markings | | |
| SR 117 at W Lauridsen Blvd - Install Intersection Warning Signs, and at 101 - Intersection Crosshatching | \$3,698 | Pavement Markings | | |

| Project | Cost | First Category | Second Category | Third Category |
|---|---------|------------------|-----------------|----------------|
| SR 167 at Stewart Rd - Guide Signs | \$3,450 | Low Cost Actions | | |
| SR 160 at Harrison Ave - Rectangular Rapid Flashing Beacon & Reflective Sign Post Cover | \$3,247 | Signs | | |
| SR 107 at Blue Slough Rd - Intersection Warning Signs | \$2,756 | Low Cost Actions | | |
| SR 116 at Hadlock Bay & Smith Road - Intersection Warning Signs | \$2,608 | Lane Departure | | |
| US 101 SB Merge at SR 8 | \$2,495 | Low Cost Actions | | |
| SR 161 at Graham Hill - Evaluation of Shoulder Depth | \$2,140 | Miscellaneous | | |
| I-5, SR 16, SR 304 - HOV Lane Penalties Signs | \$1,740 | Signs | | |
| Camera Upgrade (Analog to Digital) | \$1,116 | ITS spending | | |

OLYMPIC REGION 2019-2021 Project Highlights

US 101 AT LOUELLA RD - LEFT TURN LANE

This intersection had a history of rearend crashes on northbound US 101 (towards Sequim) due to a lack of left-turn storage. The location was also a source of community concern.

WSDOT restriped US 101 to provide a left-turn lane within the existing roadway, allowing left-turning motorists to wait safely in their own lane without impeding throughtraffic on US 101. Due to the limited roadway width and adjacent guardrail, the Olympic Region worked closely with local agencies and bicyclist groups to provide signed bicycle detour routes to help users avoid the narrowed shoulders of US 101.

Based on feedback from the bicyclist groups, another benefit is increased wayfinding signage for the parallel Olympic Discovery Trail.

Olympic Region collaborated with other WSDOT Offices and Port Angeles Maintenance to build the left turn lane. Low Cost Enhancement funds were \$24,970, and the total cost of the project was approximately \$54,000.



New left-turn lane on northbound US 101 at Louella Rd.

\$24,970

OLYMPIC REGION 2019-2021 Project Highlights

US 101 IN HOODSPORT -RECTANGULAR RAPID FLASHING BEACONS (RRFBS) AND RADAR SPEED FEEDBACK SIGNS

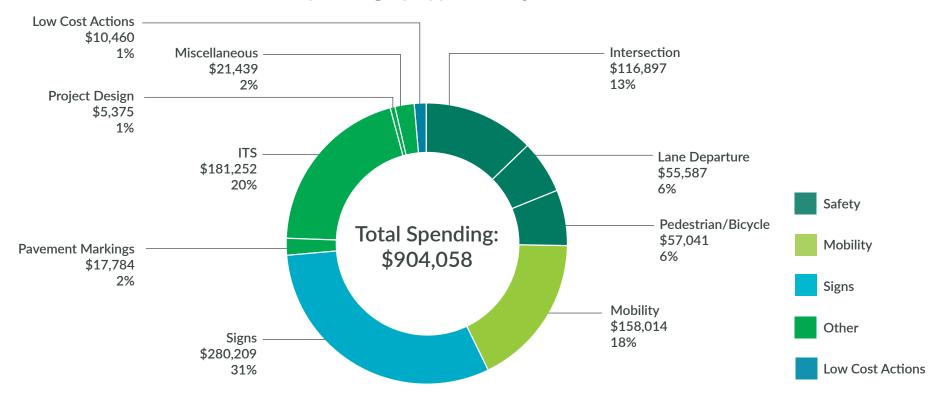
WSDOT partnered with Mason County to address a community request for enhanced pedestrian crossings and speed management throughout the community. The Olympic Region added RRFBs to three crosswalks, and installed radar speed feedback signs on each end of US 101 approaching Hoodsport.

The project improved driver awareness of the low-speed context of US 101 through Hoodsport, and added several enhanced pedestrian crossings throughout the community.



\$17,846

New Rectangular Rapid Flashing Beacons on US 101 in Hoodsport.



NCR: Low Cost Enhancement Spending by Type of Project – 2019-2021

All 2019-2021 Low Cost Enhancement Projects

| Project | Cost | First Category | Second Category | Third Category |
|---|-----------|--------------------|-----------------|------------------|
| US 2 in Leavenworth - Pedestrian and Signal Modifications | \$127,875 | Pedestrian/Bicycle | Mobility | |
| Regionwide Camera Replacement | \$67,039 | ITS spending | | |
| US 97 at Ingalls Creek Rd - Two Way Left Turn Lane | \$49,442 | Intersection | | |
| Area 1 Signs | \$42,266 | Signs | | |
| Regionwide Signal Display And Detection Operations | \$41,839 | Intersection | Mobility | Low Cost Actions |

2019–2021 Low Cost Enhancement Performance Report

| Project | Cost | First Category | Second Category | Third Category |
|--|----------|--------------------|-----------------|----------------|
| SR 28 at Eastmont Ave - Automated Traffic Signal Performance Measures & Travel Time Detection | \$41,305 | ITS spending | | |
| SR28/SR281 in Quincy - Signal Detection | \$34,545 | Intersection | Mobility | |
| SR 17 in Moses Lake - Radio Network For Signals | \$29,892 | ITS spending | | |
| US 2 Near Cashmere - Travel Time Detection | \$26,971 | Mobility | | |
| Area 3 Signs | \$26,707 | Signs | | |
| Dodson Road Camera And Radio Upgrade | \$26,469 | ITS spending | | |
| I-90 Vantage Bridge to Median Crossing - Signing | \$24,449 | Signs | | |
| US 2 from Orondo to near Road A NW - Signing | \$23,346 | Signs | | |
| SR 243/RD 26 intersection channelization | \$22,527 | Intersection | | |
| US 2 from NCR boundary to Railroad Bridge - Signing and Linear Delineator System Markers | \$22,096 | Lane Departure | Signs | |
| SR 155 Whole Route - Signing | \$18,581 | Signs | | |
| I90/SR171 in Moses Lake - Advanced Loop Detection | \$17,884 | Intersection | Mobility | |
| I-90 from Vantage Bridge to the Adams County Line - Signing | \$17,156 | Signs | | |
| SR 28 Hydro Park to near Rock Island City - Signing | \$15,502 | Signs | | |
| US 17 from SR 260 to Kittelson Road - Signing | \$12,633 | Signs | | |
| US 2 in Leavenworth - Rectangular Rapid Flashing Beacons (RRFBs), Camera, And Radio | \$11,781 | Pedestrian/Bicycle | ITS spending | |
| Area 4 Signs | \$11,508 | Signs | | |
| SR 28 in East Wenatchee - Shoulder Rumble Strip Fill In | \$11,305 | Miscellaneous | | |
| US 2, SR 17, SR 28, US 97 - Signing Projects | \$10,470 | Signs | | |
| SR 17 from SR 174 to SR 97 - Signing | \$9,956 | Signs | | |
| Regionwide Curve Warning Sign Replacement | \$8,911 | Lane Departure | | |
| SR 20 from Easy Pass Trailhead to Early Winters Cr - Signing | \$8,638 | Signs | | |



All 2019-2021 Low Cost Enhancement Projects

| Project | Cost | First Category | Second Category | Third Categor |
|--|---------|-------------------|-----------------|---------------|
| SR 28 in Ephrata - Cameras | \$8,426 | Mobility | ITS spending | |
| Cart for Applying Durable Pavement Markings | \$7,915 | Pavement Markings | | |
| SR 971 near Lake Chelan State Park - Linear Delineator System | \$7,444 | Lane Departure | | |
| SR 172 Whole Route - Signing | \$7,347 | Signs | | |
| SR 28 in East Wenatchee - Installed Inlaid Plastics on Ramp for Striping Durability | \$6,999 | Pavement Markings | | |
| SR 262 Whole Route - Signing and Linear Delineator System Markers | \$6,716 | Lane Departure | Signs | |
| SR 174 Whole Route - Signing | \$6,406 | Signs | | |
| SR 171 Whole Route - Signing | \$6,274 | Signs | | |
| US 2 near Jameson Lake Rd - Guardrail Length Changes at WSDOT Pit | \$6,222 | Lane Departure | | |
| SR 28 at 7th Avenue - Restripe | \$5,787 | Intersection | | |
| SR 26 at WSU - Safety Campaign | \$5,544 | Miscellaneous | | |
| SR 170 Whole Route - Signing | \$5,498 | Signs | | |
| SR 17 - Design Work For Restriping at M Rd, 2 SE, Coyan, Paradise, and Booker | \$5,375 | Project Design | | |
| Area 2 Signs | \$5,317 | Signs | | |
| SR 28 Flat Obstacle Hazard Markers for Gore Point at S7 Ramp & MP 4.8B | \$5,194 | Lane Departure | | |
| SR 243 near Mattawa - Signing | \$5,136 | Signs | | |
| US 2 at Dryden Ave Signal Install Camera | \$4,269 | ITS spending | | |
| SR 20 at Hanging Rock - Linear Delineator System | \$3,818 | Lane Departure | | |
| US 97A in Chelan, Apple Blossom Dr Flashing Yellow Left Turn Arrow | \$3,474 | Intersection | Mobility | |
| US 20 at Hanging Rock - Signing Project | \$3,321 | Lane Departure | | |
| Regionwide Minor Striping Projects | \$2,870 | Pavement Markings | | |
| SR 971 Whole Route - Signing | \$2,506 | Signs | | |

| Project | Cost | First Category | Second Category | Third Category |
|---|---------|----------------|-----------------|----------------|
| US 97 at Blewett Pass - No Parking Signing | \$2,291 | Signs | | |
| I-90 near Vantage Bridge - Linear Delineator System Markers | \$2,271 | Lane Departure | | |
| SR 243 near Crab Creek - Linear Delineator System | \$2,207 | Lane Departure | | |
| US 2, SR 171, SR 172, and SR 173 - Durable Marker Changes | \$2,200 | Miscellaneous | | |
| US 2 at East Leavenworth Rd Camera | \$2,175 | ITS spending | | |
| SR 20 near Rainy Pass - Signing and Barrier | \$2,144 | Lane Departure | | |
| SR 97 North of Blewett Pass Summit - Signing Changes | \$2,143 | Signs | | |
| SR 28 at 9th Street - Signal Add Right Turn Overlap | \$1,964 | Mobility | | |
| SR 17 Moses Lake to Othello - Portable Signing for Safety Emphasis | \$1,199 | Miscellaneous | | |
| SR 24 at SR 243 - Crushed Surfacing Base Course (CSBC) For Pullouts | \$786 | Miscellaneous | | |
| SR 173 at Crane Orchard Rd - Signing | \$468 | Signs | | |
| Regionwide Minor WSP Requested Enhancements | \$405 | Miscellaneous | | |
| US 2 at Douglas - Linear Delineator System Markers | \$341 | Lane Departure | | |
| SR 28 from US 2 to Jct SR 285 - Signing Changes | \$336 | Signs | | |
| 215 Whole Route - Signing | \$179 | Signs | | |

2019-2021 Project Highlights

US 2 IN LEAVENWORTH - PEDESTRIAN AND SIGNAL MODIFICATIONS

\$127,875

In 2020, the City of Leavenworth installed two Hawk systems to help pedestrians cross US 2. Soon after installation, it became apparent that these systems were not working as expected due to their inability to coordinate with the nearby signal systems. In addition, drivers lacked familiarity with the Hawk system. This combination exacerbated the existing congestion problem in this location, instead of improving mobility and safety as intended.

To address this issue, North Central Region (NCR) replaced the Hawk system with a regular pedestrian crossing signal system that uses red, yellow, and green heads. The region also upgraded the signal detection systems in the corridor to adaptive systems so the crossing signals could coordinate with them. Additionally, NCR installed monitoring cameras and radio communications to the Rectangular Rapid Flashing Beacon (RRFB) system, to allow for remote control during high volume times like tree lighting. Finally, the region added battery backup for the signals. The benefit of this work is a smoother operation of this multimodal facility, while at the same time enhancing safety of pedestrians crossing US 2. The ability to monitor and make operational changes remotely and in real time with these systems provides important safety and mobility benefits during peak hours, seasonal traffic, and special events.



The new pedestrian crossing signal system on US 2 in Leavenworth

NORTH CENTRAL REGION 2019-2021 Project Highlights

US 97 AT INGALLS CREEK RD - TWO WAY LEFT TURN LANE

During their route review of this section of US 97, NCR's Field Assessment office identified operational issues in the vicinity of Ingalls Creek Rd. In the immediate area are several businesses, the Ingalls Creek Rd intersection, and WSDOT's shed access driveways. The region performed route reviews with WSP and WSDOT Maintenance personnel, and analyzed crash data at the location. This work revealed that this location would benefit from some form of channelization that would reduce through movement conflict points and address driver safety.

The region completed a low-cost safety enhancement project using Maintenance staff as well as private contractors. They removed stripes, widened US 97, installed guardrail, and restriped this section to provide a two-way left turn lane (TWLTL).

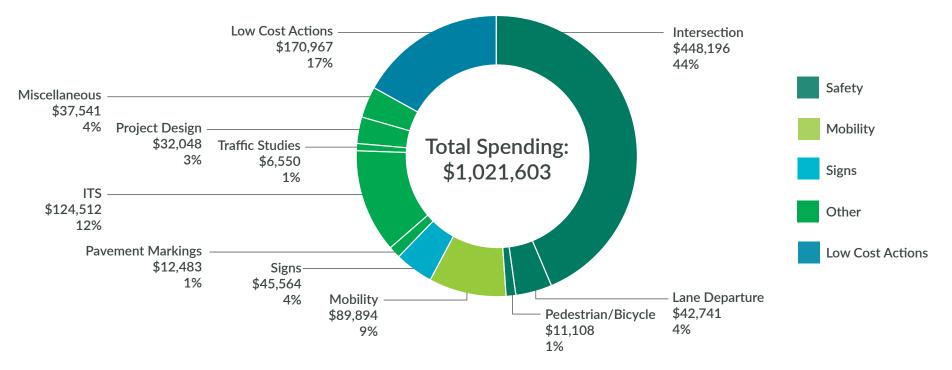
This project reduces the turning movement conflict points by removing traffic from the through movement. It also reduces enter-atangle conflict points by providing a refuge area for turning vehicles entering the highway.



US 97 during installation of two-way left turn lane and restriping



SWR: Low Cost Enhancement Spending by Type of Project – 2019-2021



All 2019-2021 Low Cost Enhancement Projects

| Project | Cost | First Category | Second Category |
|--|-----------|------------------|-----------------|
| Low Cost Actions | \$170,967 | Low Cost Actions | |
| Wavetronix Radar Signal Detection Units | \$130,157 | Intersection | |
| SR 503 Mcbride/299th Intersection - Left Turn Lane Restripe | \$62,892 | Intersection | |
| SR 500 SB Andresen/4th Plain - Right-Turn Lane Extension | \$60,000 | Intersection | |
| I-5 Vicinity of Salmon Creek - 134th Corridor Adaptive Traffic Signals | \$58,400 | Intersection | |
| Regionwide Flashing Yellow Arrow Signal Upgrades | \$40,843 | Intersection | |

2019–2021 Low Cost Enhancement Performance Report

| Project | Cost | First Category | Second Category |
|---|----------|-------------------|-----------------|
| ITS Systems - Maintenance | \$37,735 | ITS spending | |
| I-5 NB at Exit 3 - Off-Ramp Barrier | \$35,003 | Lane Departure | |
| I-5 Active Traffic Management - System Enhancement | \$34,912 | Mobility | |
| Project Definitions for 3 Projects in Clark County | \$32,048 | Project Design | |
| SR 500/503 at 65th Street - Signal Optimization | \$30,642 | Mobility | |
| WSP Radios For Incident Response Vehicles | \$26,790 | Miscellaneous | |
| Regionwide 4G Modems | \$24,016 | ITS spending | |
| SR 6 at Chilvers Road - Sight Distance Enhancements | \$22,614 | Intersection | |
| TMC/EOC Expenditures | \$18,905 | ITS spending | |
| I-5 NB Exit 11/SR 502 - Ramp Improvement | \$17,689 | Intersection | Lane Departure |
| SR 503 in Woodland - Median Curb | \$16,382 | Intersection | |
| I-5 in City of Vancouver - C Street Wrong Way Detection System | \$15,624 | Intersection | |
| SR 14 EB Tunnels at White Salmon River - Radar Speed Signing Revision | \$14,921 | Signs | |
| Portable "Your Speed Is" Signs | \$12,958 | ITS spending | |
| I-5 in Woodland - Frontage Roads Channelization | \$12,483 | Pavement Markings | |
| SR 503 Centralized Signal System Enhancement | \$12,178 | Intersection | |
| SR 507 at Mt St Helens - Signing | \$12,141 | Signs | |
| Stakeholder Engagement Agreement for Smart Community Assessment | \$11,000 | ITS spending | |
| State Work Force | \$10,752 | Miscellaneous | |
| I-5 at Exit 72 - Signing and Striping at frontage road | \$10,521 | Mobility | |
| SR 500 SB at Andresen/4th - Turn Lane Extension | \$10,294 | Intersection | |
| I-5 at SR 14 - Mill Plain & 4th Ramp Meter Revisions | \$9,722 | Signs | |
| I-5 MP 0-7 - Weather Module Connection Integration | \$9,575 | ITS spending | |
| ITS Firewall Replacement | \$8,540 | ITS spending | |



All 2019-2021 Low Cost Enhancement Projects

| Project | Cost | First Category | Second Category |
|---|---------|--------------------|-----------------|
| I-5/SR 503 in Woodland - Emergency Vehicle Preemption | \$7,576 | Mobility | |
| US 101 Curve & Smith Rd - Signing Improvements | \$6,998 | Signs | |
| Traffic Studies | \$6,550 | Traffic Studies | |
| SR 100 Cape Disappointment State Park - Trail Crosswalk and Signing | \$6,542 | Pedestrian/Bicycle | |
| I-5 at 134th St NB - Off Ramp Improvements | \$4,671 | Intersection | |
| I-5 to Chamber Way - Crosswalk & Pedestrian Signing Improvements | \$4,566 | Pedestrian/Bicycle | |
| SR 500 from St Johns to Andresen - Striping Revisions | \$4,246 | Mobility | |
| I-5 at SR 432 - Guardrail/Pavement Improvement | \$4,192 | Lane Departure | |
| SR 409 at Little Island Road - Curve Signing | \$3,565 | ITS spending | Signs |
| SR 14 Bridge of the Gods Intersection - Reimbursement for Tolls | \$1,997 | Mobility | |

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SOUTHWEST REGION 2019-2021 Project Highlights

SR 6 AT CHILVERS ROAD - SIGHT DISTANCE ENHANCEMENTS

This project was identified through the Field Assessment program. The SR 6 and Chilvers Rd. intersection is located southwest of Chehalis, WA. There is a history of high severity angle crashes between westbound through movements on SR 6 and left-turning movements from Chilvers Rd. This included one fatal, three evident injury, and eight possible injury crashes, all of which occurred under the same movement. The region determined that improved sight distance would address these issues.

Southwest Region used three approaches to improve the sight distance at the SR 6 & Chilvers Rd intersection. First, the region implemented a four-foot offset for westbound right turn movements by adding a sliver fill to maintain existing shoulder width but allow for a new channelized buffer area. They also moved the stop bar on Chilvers Rd closer to SR 6 by approximately 20 feet. Finally, they extended the left turn pocket for eastbound SR 6 drivers in order to add more storage capacity. The rumble strips in the vicinity of the intersection were ground out and filled in, in order to make room for the required offset.



Before sight distance enhancement



After sight distance enhancement

\$22,614

2019-2021 Project Highlights

I-5 TO CHAMBER WAY - CROSSWALK & PEDESTRIAN SIGNING IMPROVEMENTS

This intersection did not clearly identify the merge point and right of way for motorists entering the on-ramp. There was also an opportunity to enhance the crosswalk.

To address these needs, Southwest Region channelized the right turn to I-5 SB ramp to shorten pedestrian crossing. They also added and relocated signing to better signal the crosswalk. Finally, the region restriped the road to better help identify the yield lane and the crossing.

These changes increased road users' awareness of pedestrian activity and merging traffic.



Before: Original configuration



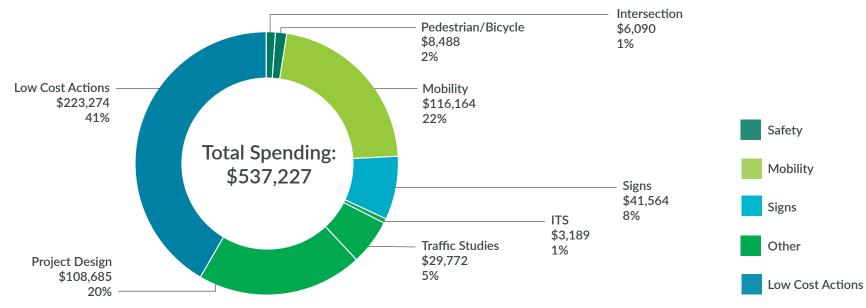
After: New multimodal buffer area

2019–2021 Low Cost Enhancement Performance Report



EASTERN REGION

ER: Low Cost Enhancement Spending by Type of Project – 2019-2021



| Project | Cost | First Category |
|---|-----------|--------------------|
| Regionwide Lost Cost Actions | \$179,661 | Low Cost Actions |
| US 2 from Hazelwood Rd To Deer Heights Rd - Channelization | \$109,844 | Mobility |
| I-90 at US 2 Garden Springs - Ramp Meter Design | \$108,685 | Project Design |
| Field Assessment 2019-2021 Projects | \$43,613 | Low Cost Actions |
| Area 2/Area 3 Curve Warning Signing Update | \$28,593 | Signs |
| I-90 EB Freya and Custer On Ramps - Access Revision Report Analysis | \$20,092 | Traffic Studies |
| SR 20 Curve Warning Signing | \$12,971 | Signs |
| Eastern Region I-90 Operations Study-Project Rose Impact | \$9,680 | Traffic Studies |
| Regionwide Crosswalk Updates | \$8,488 | Pedestrian/Bicycle |
| SR 904 at Cheney-Spokane Rd - Signal Modifications | \$6,090 | Intersection |
| SR 290 at I-90 - On-Ramp Signing & Barrier Revisions | \$4,104 | Mobility |
| National Operations Center of Excellence (NOCOE) Signal Phase and Timing (SPaT) Challenge | \$3,189 | ITS spending |
| US 2 Hayford Rd to Deer Heights Rd Channelization | \$2,215 | Mobility |



EASTERN REGION 2019-2021 Project Highlights

US 2 FROM HAZELWOOD RD TO DEER HEIGHTS RD - CHANNELIZATION

Eastern Region initially evaluated this location to address the entering-at-angle crash history at the CrossPointe Plaza driveways, as described in the 2017-19 LCE report. The region also wanted to manage left turns and access as development increases, to improve safety performance along the larger corridor. The region had previously constructed raised channelization from Hayford Road to just east of Hazelwood Road with available funds. taking into consideration that the Deer Heights intersection would be converted to a roundabout in a developer project. The roundabout was constructed as mitigation for a North 40 development that was constructed on the NE corner of US 2/Deer Heights.



This project channelized the median between the eastern end of the 17-19 project and the Deer Heights developer project. WSDOT provided \$110,000 in funding to the developer for this project, as part of the Deer Heights roundabout, after they completed the roundabout. The contractor used the project area for the traffic shifts.

Project

Limiting left turns out of accesses reduces entering-at-angle crashes, as well as facilitates through movement. This is a strategy that will continue to be implemented on the corridor as funding becomes available.

2019–2021 Low Cost Enhancement Performance Report

\$109,844

EASTERN REGION 2019-2021 Project Highlights

REGIONWIDE CROSSWALK UPDATES

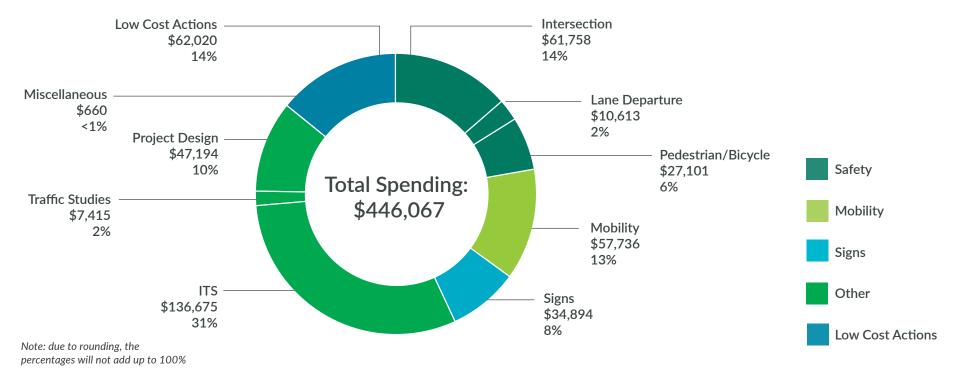
Eastern Region undertook a comprehensive study to identify priority locations for crosswalk enhancements. The region reviewed existing conditions and categorized each location per WSDOT guidance. This allowed the region to consistently apply guidance criteria when responding to requests regarding crosswalks. The region used the list to address high priority locations by updating signs and, in some instances, pavement markings as well.



At SR 902, the region added another crossing sign so that signs were present in both directions.

2019–2021 Low Cost Enhancement Performance Report





All 2019-2021 Low Cost Enhancement Projects

| Project | Cost | First Category | Second Category | Third Category |
|--|----------|--------------------|-----------------|----------------|
| Design | \$45,194 | Project Design | | |
| US 395 at SR 240 - Drop Lane | \$42,562 | Mobility | | |
| Hyak Wifi/Wan | \$38,875 | ITS spending | | |
| US 12 in Alpowa - Curve Alignment | \$28,753 | Low Cost Actions | | |
| SR 240 in Steptoe at Match City St - Road Diet | \$21,674 | Pedestrian/Bicycle | Mobility | |
| US 12 at Naches - Signal ADA Improvements | \$20,601 | Pedestrian/Bicycle | | |

2019-2021 Low Cost Enhancement Performance Report

| Project | Cost | First Category | Second Category | Third Category |
|--|----------|------------------|-----------------|----------------|
| I-90 in Vantage Vicinity - Elk Warning Signs | \$19,337 | Signs | ITS spending | |
| SR 14 at Plymouth Rd - Left Turn Pocket Lanes | \$18,563 | Intersection | | |
| Field Assessment Projects | \$17,329 | Low Cost Actions | | |
| Low Cost Actions | \$15,938 | Low Cost Actions | | |
| SR 240 in Hagen - Signal Modification | \$14,077 | Intersection | | |
| SR 129 at Rattlesnake Creek to near Park Rd and vicinity Asotin - Speed Limit Changes | \$11,381 | Signs | | |
| Regionwide Miovision Camera | \$11,111 | ITS spending | | |
| I-90 at Mt Si and Alpental - Cameras | \$10,087 | ITS spending | | |
| I-90 Travel Time Data | \$10,000 | ITS spending | | |
| Minor Signing Modifications - Regionwide | \$9,660 | Signs | | |
| I-90 along Snoqualmie Pass - Portable Workzone Systems Enhancements | \$9,013 | ITS spending | | |
| I-182 at Queensgate Drive - Camera | \$8,940 | ITS spending | | |
| Lookout Tower in Yakima - Microwave Radio | \$8,552 | ITS spending | | |
| US 12 WB at A Street - Removal of Left Out | \$8,476 | Intersection | | |
| US 12 and SR 261 - Intersection Improvements | \$8,092 | Intersection | | |
| US 12 in Dixie - "Your Speed Is" Sign | \$7,109 | ITS spending | | |
| I-182 at 4th Ave - Improvements | \$6,830 | Intersection | | |
| SR 22 and I-82 to Yakima River Bridge - Delineation | \$6,717 | Lane Departure | | |
| SR 823 in Yakima - Speed Limit Change | \$6,265 | Signs | | |
| SR 182 at Queensgate Drive - Bicycle and Pedestrian Improvements | \$5,719 | Intersection | | |
| Low Cost Enhancements - Regional Administrator Requests | \$5,240 | ITS spending | Traffic Studies | Project Design |
| SR 221 at Sellards Rd - Camera | \$5,043 | ITS spending | | |



All 2019-2021 Low Cost Enhancement Projects

| Project | Cost | First Category | Second Category | Third Category |
|--|---------|-----------------|-----------------|----------------|
| US 12 in Pomeroy - "Your Speed Is" Sign | \$4,905 | ITS spending | | |
| SR 240 and Columbia Park Drive - Steptoe Roundabout Monitoring | \$4,134 | Traffic Studies | | |
| SR 221 vicinity of Bert James Rd - Transverse Rumble Strips | \$3,896 | Lane Departure | | |
| Tri-Cities Cameras - US 395 in Yelm and SR 240/I-82 at Aaron | \$3,749 | ITS spending | | |
| I-90 in Cle Elum - "Your Speed Is" Sign | \$3,347 | ITS spending | | |
| Prosser Radio Network Update | \$2,367 | ITS spending | | |
| I-90 WB vicinity of Easton to Cle Elum - Threshold Evaluation | \$1,281 | Traffic Studies | | |
| Minor Low Cost Enhancement Adjustments | \$660 | Miscellaneous | | |
| US 12 at MP 392 - Rest Area Signing | \$587 | Signs | | |

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SOUTH CENTRAL REGION 2019-2021 Project Highlights

US 12 IN ALPOWA - CURVE ALIGNMENT

South Central Region's Field Assessment team reviewed this location as part of a roadway survey of US 12. US 12 intersects Ledgerwood Road within this curve in Alpowa. The project improved the curve by providing smoother and easier maneuvering at the posted speed limit, with the intention of reducing lane departures. The region made the centerline a continuous 700-foot radius and narrowed the uphill (eastbound) lane widths from 12 feet to 11 feet to best fit the existing pavement. The region also reduced the westbound suggested speed limit for this curve to 35 mph, as well as added a truck tipping sign.



The compound curve has been smoothed out, reducing the likelihood of lane departures.



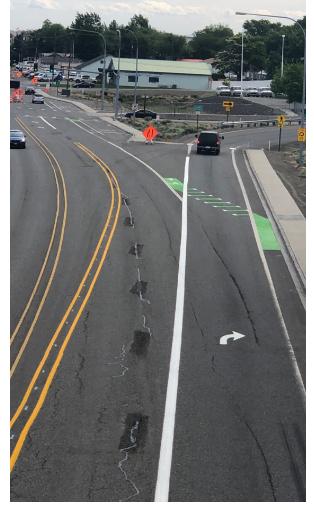
2019-2021 Project Highlights

SR 240 IN STEPTOE AT MATCH CITY ST - ROAD DIET

The City of Richland planned a road diet from the westbound ramp terminal of SR 240/Columbia Park Dr east into town. The city's project reduced the four-lane section to a three-lane section: one lane in each direction, with a two-way turn lane in the center. This allowed WSDOT the opportunity to better channelize the lanes between the ramp terminals. A high portion of the traffic volume between the ramp terminals is bound for SR 240. South Central Region converted the right lane to a drop lane for westbound SR 240, and also provided a left-turn pocket at the signal into the transit station. Additionally, the region reduced the number of lanes leading up to the signal, which better aligned with the city project, and added a bike lane across the drop lane.



Before: SR 240 four-lane road at Match City Street



After: SR 240 with new left-turn pocket and drop lanes.

2019–2021 Low Cost Enhancement Performance Report



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