



MULTNOMAH COUNTY

# ROADS

CAPITAL IMPROVEMENT PLAN



Nov. 12, 2019

# What is the Roads Capital Improvement Plan (RCIP)?

- A plan detailing which roads to improve over the next 20 years.
- Helps the County know how much money (capital) is needed for roads and how to get the most from it.
- Lays out which road improvements to make, and in what order.

# Why update the RCIP now?

- It's been over a decade since the County has looked at its roads in detail.
- Many more people live here now than 10 or 20 years ago, and more get around without a car.
- Landslides and floods from extreme weather affect County roads more often, especially in rural areas.
- With better tools than ever before we can make a truly in-depth plan.

# What's unique about this update?

- A new LiDAR scan of all county roads and bridges to fully understand existing conditions.
- A review of existing county goals and priorities to develop new evaluation criteria for projects, including equity.
- 592 projects in 12 plans evaluated and consolidated into 132 projects covering approximately 174 miles of roads.
- A robust public engagement process
  - **Notification mailer** sent at the start of the process to all County residents in our service
  - **9 stakeholder interviews** with internal County staff and external agency partners
  - **6 open houses**
  - **2 online open houses**
  - **15 presentations** at various community meetings.
- An evaluation of all assets (culverts, roads, bridges, signals) that are not included in a capital project, their replacement timeline, and the cost of replacing them in a 20 year timeframe.

# How did we get here?

	Mar-Apr/2018	Oct-Dec/2018	Jan-Feb/2019	Oct-Dec/2019
OUTREACH PHASES	<b>1</b> Community Values	<b>2</b> Progress Update	<b>3</b> Finalize Project List	<b>4</b> Final Proposed RCIP Report
PUBLIC ROLE	Decision-making processes explained; input accepted on road changes and new features.	Phase 1 learnings discussed; data gathering techniques explained.	Additional road projects weighed and measured against community values; final comments accepted	Find out which projects ended up on the final RCIP list, how they were weighted, and estimates of funding and project costs.  <b>Open House:</b> Nov. 12, 5:30-7pm, Wood Village Baptist Church on Arata Road. <b>Online Open House:</b> Nov. 8-24. Please visit <a href="http://multco.us/CIPP">multco.us/CIPP</a>
RESULTS	County developed what is measured and how it's scored; drafted list of road changes to be considered.	County measured and scored items on its list of what to add or change on roads.	County made final adjustments to its list of what to add or change on roads.	County will finalize the report before bringing it to the Board of County Commissioners for final approval in December 2019.

# What we heard from you

Last year we asked, “What’s most important to consider in planning and building County roads?”



**1.**

Prevent  
Collisions



**2.**

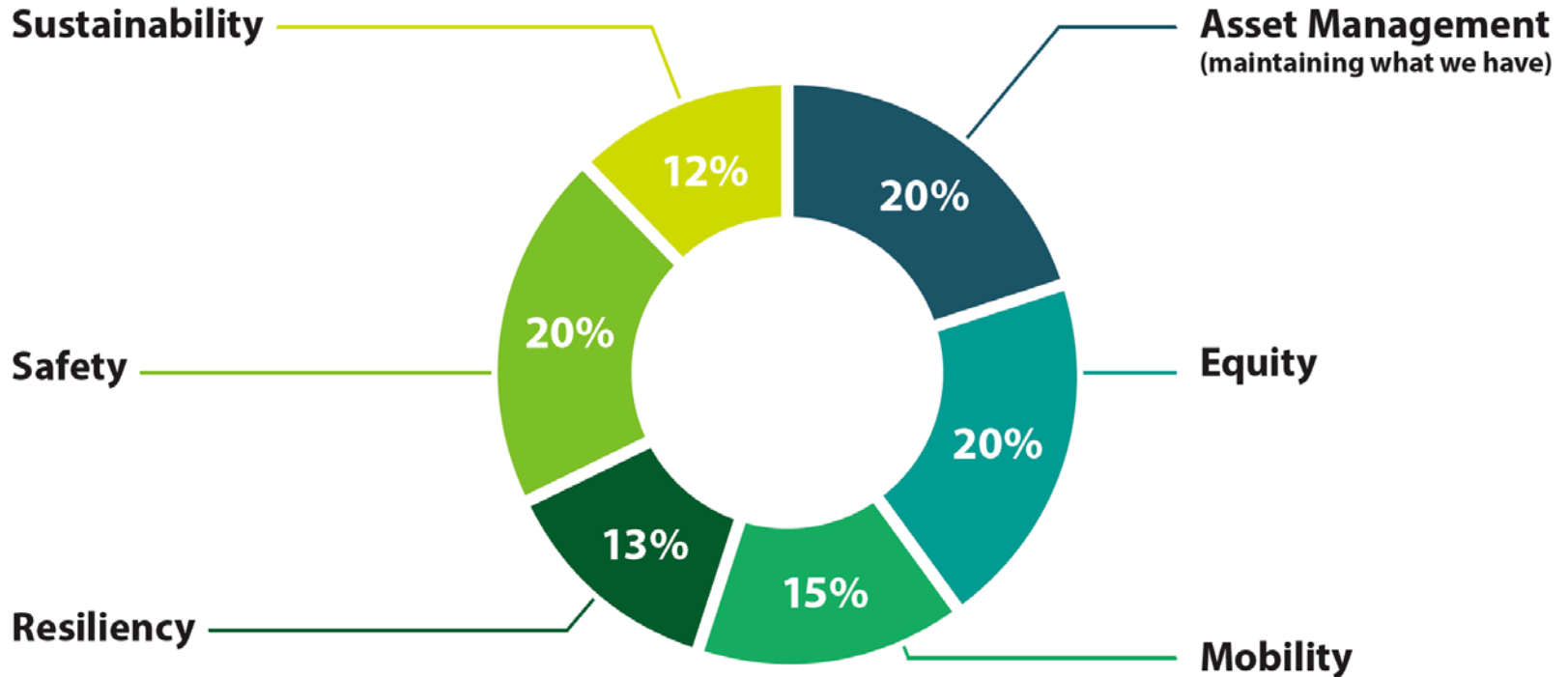
Safer to  
walk and  
bike



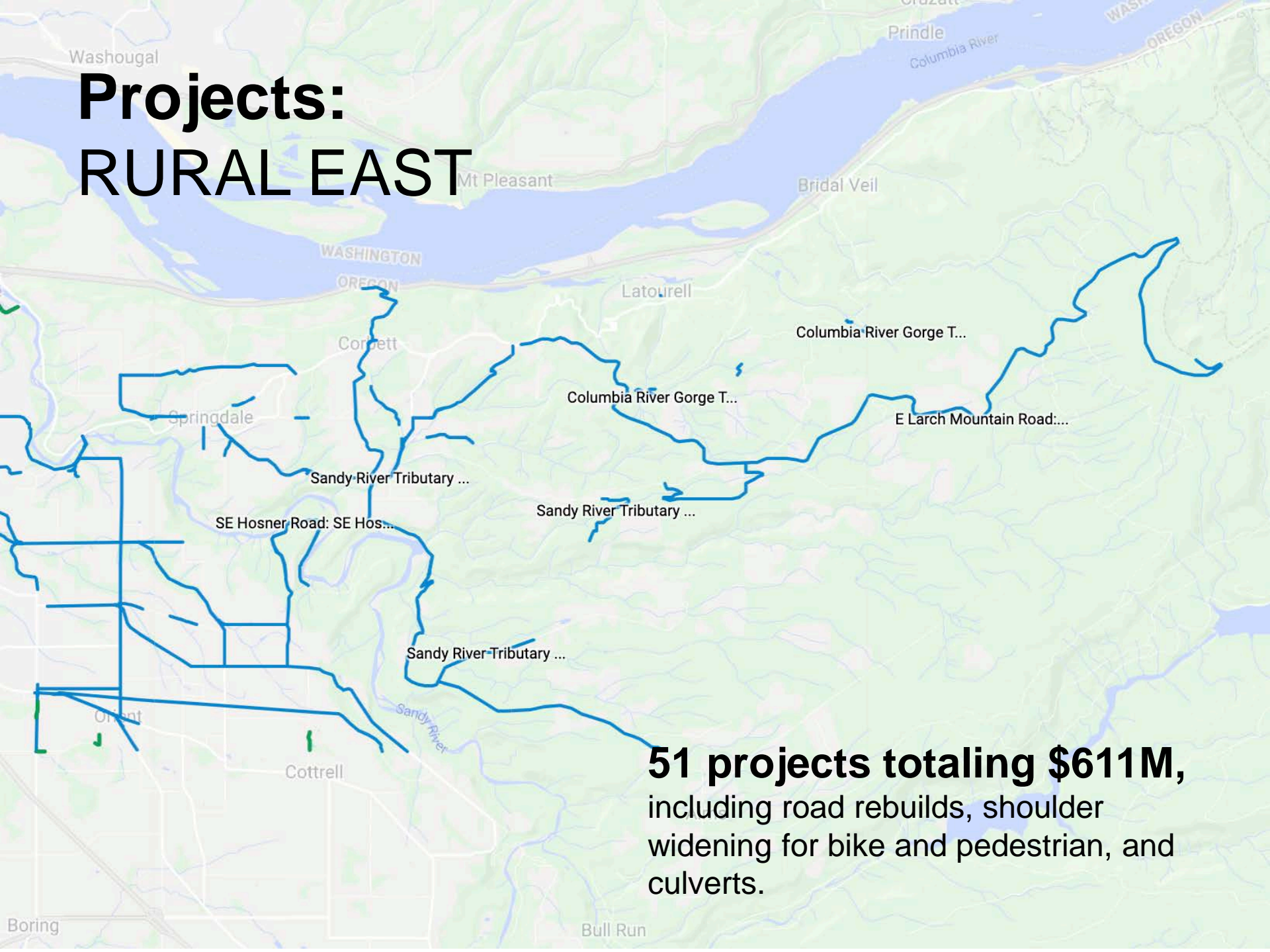
**3.**

Fix problems  
before they  
get worse

# Our scoring methodology



# Projects: RURAL EAST



**51 projects totaling \$611M,**  
including road rebuilds, shoulder  
widening for bike and pedestrian, and  
culverts.

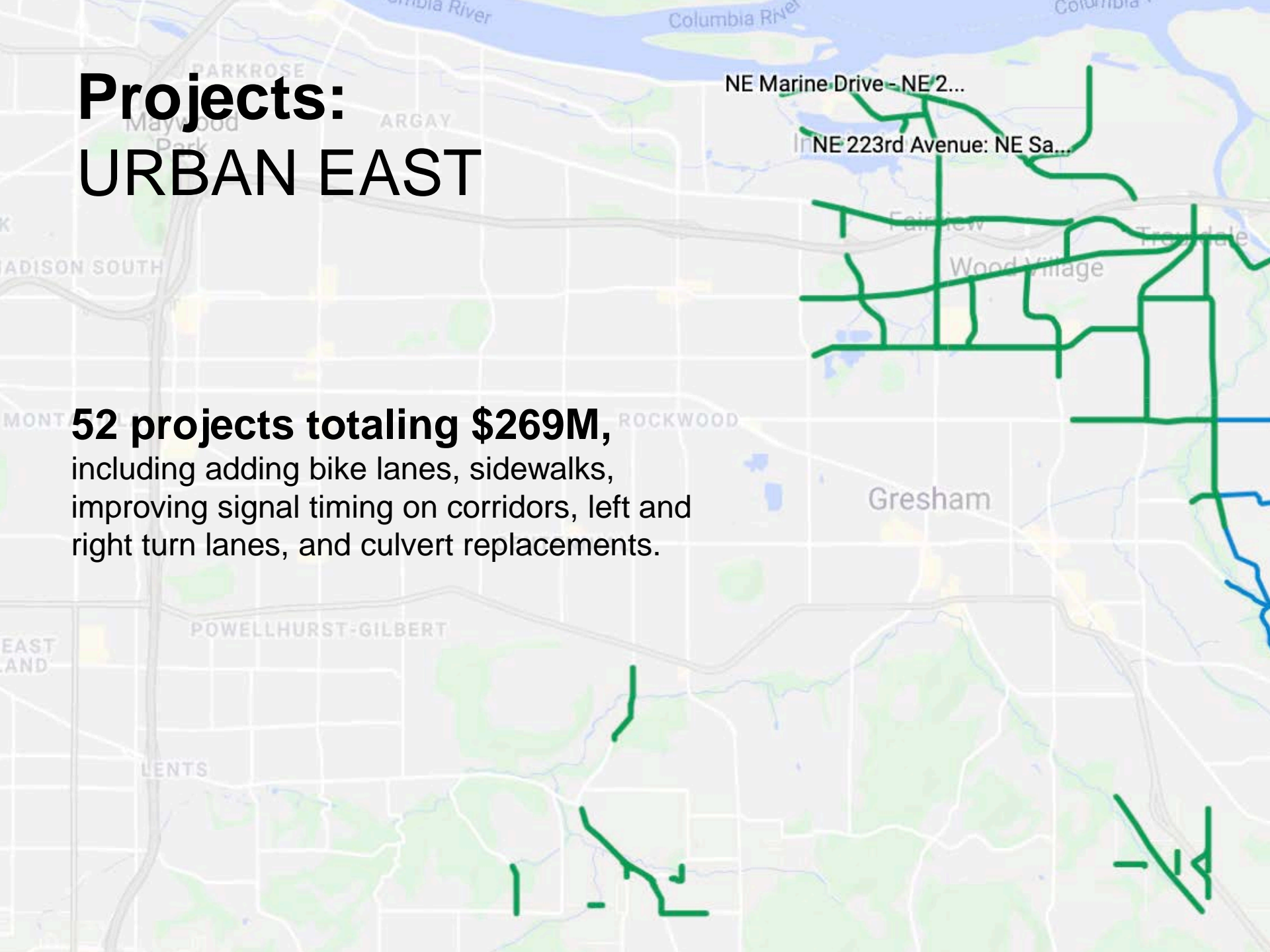


# Top projects: RURAL EAST

- **SE Stark Street: S Troutdale Rd to SE Evans Ave**  
(SCORE: 54.2)
- **NE Corbett Hill Rd Safety Improvements**  
(SCORE: 49.2)
- **Sandy River Tributary Culverts of Local Concern**  
(SCORE: 46.3)
- **SE Stark Street: SE 35th St to Stark St Bridge/E Historic Columbia River Highway**  
(SCORE: 46.3)
- **SE 282nd Avenue: SE Orient Dr to County Line**  
(SCORE:45.9)

# Projects: URBAN EAST

**52 projects totaling \$269M,**  
including adding bike lanes, sidewalks,  
improving signal timing on corridors, left and  
right turn lanes, and culvert replacements.



# Top projects: URBAN EAST

- **S Troutdale Road: SW Cherry Park Rd to SE Stark St**  
(SCORE: 54.5)
- **NE 238th Drive: NE Halsey St to NE Glisan St**  
(SCORE: 54.3)
- **NE Sandy Blvd: Gresham City Limits to NE 223rd Ave**  
(SCORE: 53.3)
- **SW 257th Avenue Pedestrian Safety Improvements:  
Gresham City Limits to I-84**  
(SCORE: 53.1)
- **NE 207th Avenue (Fairview Parkway): NE Glisan St to NE  
Sandy Blvd**  
(SCORE: 52.8)



# Top projects: WEST

- **NW Cornelius Pass Rd: Highway 30 - Skyline Blvd**  
(SCORE: 48.7)
- **Forest Park/SW Hills Urban Pockets Sidewalk Infills**  
(SCORE: 47.3)
- **Dunthorpe Urban Pockets Active Transportation Projects**  
(SCORE: 44.8)
- **Forest Park/SW Hills Urban Pockets Bicycle Projects**  
(SCORE: 44.8)
- **SW Scholls Ferry Rd: SW Humphrey Blvd to SW Patton Rd**  
(SCORE: 44.4)

# Top projects: WEST CONTINUED

- **NW Cornelius Pass Rd: Skyline Blvd - County line**  
(SCORE: 42.1)
- **Tualatin River Culverts of Local Concern**  
(SCORE: 41.4)
- **NW Laidlaw Rd: NW Thompson Rd - County line**  
(SCORE: 40.1)
- **NW Skyline Blvd: NW Beck Rd - NW Rocky Point Rd**  
(SCORE: 38.6)
- **Sauvie Island Loop Roads Shoulder Improvements**  
(SCORE: 38.5)

# 157R: Sandy River Tributary Culverts of Local Concern

Culvert Reconstruction

Rural Multnomah County



Example of project cut sheet from CIP

## PROJECT LOCATION



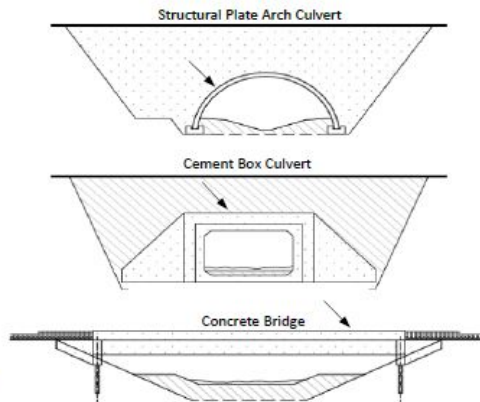
## SITE PHOTO/AERIAL



## PROJECT OVERVIEW

Replace culverts identified as of local concern within the watershed of the Sandy River tributaries to improve fish passage for endangered fish and other aquatic species. This project includes replacing the following culverts: SE Northway Road Culvert (#5555\*), SE Pounder Road Culverts (#5607\*, 5615, 5611, and #5614), SE Christensen Road Culvert (#5338), SE Howard Road Culverts (#5441 and #5443), E Bell Road Culvert (#5003), SE Smith Road Culvert (#5626), SE Hurlburt Road Culverts (#5471, #5455\*, and #5454), E Knieriem Road Culvert (#5040), SE Kimbley Road Culvert (#5463), SE Wilson Road Culvert (#5658), SE Kerslake Road Culverts (#5480 and #5479), SE Nielson Road Culvert (#5167), SE Gordon Creek Road Culvert (#5386), and SE Littlepage Road Culverts (#5491 and #5493\*). \* indicates that culvert is a 5-year regional priority for reconstruction.

### POTENTIAL CULVERT CROSS-SECTIONS



### PROJECT AREA EMERGENCY MANAGEMENT CONSIDERATIONS

- Landslide
- Earthquake
- Wildfire Risk
- Floodplain

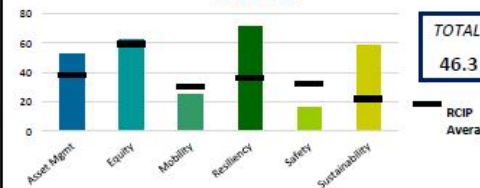
## COST



Engineering	\$	2,072,000
Construction	\$	4,143,000
Right-of-Way	\$	414,000
Miscellaneous*	\$	2,393,000
<b>Total</b>	<b>\$</b>	<b>9,030,000</b>

\*Miscellaneous includes any necessary environmental permitting, aerial mitigation, hazard, and a 50% contingency. Note: Cost estimates are based on current information and to 2024 dollars.

## SCORE



# Ongoing costs outside of capital projects

<b>Asset Type</b>	<b>2019 cost of replacement</b>
<b>Culverts: In stream / fish passage</b>	\$ 76,556,225
<b>Culverts: Stormwater / drainage</b>	\$ 30,621,500
<b>Guardrail</b>	\$ 4,124,765
<b>Pavement</b>	\$ 235,887,575
<b>Traffic signals</b>	\$ 8,304,520
<b>Bridge structures</b>	\$ 23,797,295
<b>Storm drainage</b>	\$ 203,626,450
<b>Total</b>	\$ 582,918,330



# Funding decisions

- Total cost for capital improvement projects: \$1.3B
- Annual County road fund for capital improvement projects: \$2 - \$2.5M
- What influences our Capital program?
  - Natural disasters
  - Development
  - Grant partner opportunities
  - Safety concerns

# Our 5-year program

## Multnomah County // Capital Improvement Projects for 2020-24

Roads Project Name	Urban/ Rural	District	Total Project Cost	External Grant Funds	County Funds	Anticipated Construction Timing					
						2019	2020	2021	2022	2023	2024
NW Germantown Rd slide repair	U	1	\$251K	\$226K	\$25K						
Newberry Rd slide repair	U	1	\$990K	\$884K	\$106K						
Arata Rd	U	4	\$7.35M	\$2.08M	\$5.27M						
NE 238th Dr	U	4	\$8.39M	\$7.52M	\$868K						
NE Cochran Rd Culvert	R	4	\$3.14M	\$579K	\$2.56M						
NW Cornelius Pass Rd	R	1	\$4.24M	\$4.20M	\$45K						
Sandy Blvd sidewalk infills (201st-207th)	U	2	\$275K	--	\$275K						
SE 267th Ave Culvert	R	4	\$995K	\$650K	\$345K						
Offsite mitigation (from Sandy Blvd project)	U	2	\$475K	--	\$475K						
SE Stark St Improvements	U	4	\$4.71M	\$3.52M	\$1.19M						
NE Latourell Rd Bridge	R	4	\$1.49M	\$1.14M	\$355K						
Overlays	U/R	--	\$1.80M	--	\$1.80M						
E Larch Mountain Rd Overlay	R	4	\$3.52M	\$3.15M	\$370K						
ADA Tier 1 First 20% (Design Only)	--	--	\$500K	--	--						
<b>TOTAL ROADS</b>			<b>\$38.1M</b>	<b>\$23.9M</b>	<b>\$14.2M</b>						
<b>Bridges Project Name</b>											
Broadway Rall Wheel Replacement	U	1	\$628K	\$64K	\$564K						
Burnside Rehabilitation	U	1	\$9.93M	\$1.02M	\$8.91M						
Morrison Paint	U	1	\$26.4M	\$2.71M	\$23.7M						
Morrison PLC Replacement	U	1	\$366K	--	\$366K						
Burnside PLC Replacement	U	1	\$366K	--	\$366K						
Broadway PLC Replacement	U	1	\$366K	--	\$366K						
Hawthorne PLC Replacement	U	1	\$366K	--	\$366K						
Hawthorne Approaches Overlay	U	1	\$8.54M	\$878K	\$7.67M						
Morrison East Approaches Strengthening	U	1	\$7.70M	\$791K	\$6.91M						
Broadway Lift Span Deck Replacement	U	1	\$3M	\$308K	\$2.70M						
<b>TOTAL BRIDGES</b>			<b>\$57.7M</b>	<b>\$5.77M</b>	<b>\$51.9M</b>						

# Next steps

- Online open house: [multco.us/cipp](https://multco.us/cipp) (Nov. 8-24)
- Board approves RCIP (Dec. 19, 2019 - tentative)
- RCIP reviewed (by the County every five years)
- Budget reviewed (by the County every year)

**Thank you**