

# CLACKAMAS COUNTY BOARD OF COUNTY COMMISSIONERS

## Policy Session Worksheet

**Presentation Date:** Nov. 12, 2019   **Approx. Start Time:** 11:00 am   **Approx. Length:** 30 minutes

**Presentation Title:** Projects Recommended to be Funded through the Community Road Fund

**Department:** Transportation & Development

**Presenters:** Dan Johnson, Director; Mike Bezner, Assistant-Director; Dave Queener, Project Manager

**Other Invitees:** Karen Buehrig, Long-Range Planning, DTD; Joe Marek, Traffic Safety, DTD; Randy Harmon, Transportation Maintenance, DTD; Ellen Rogalin, Community Relations, PGA/DTD

### **WHAT ACTION ARE YOU REQUESTING FROM THE BOARD?**

Direct staff to move forward with the proposed transportation road projects to be funded by the Community Road Fund, as recommended by the Community Road Fund Advisory Committee and Transportation & Development staff.

### **EXECUTIVE SUMMARY**

#### **INTRODUCTION**

In February 2019, the Board of County Commissioners took the step – after many decades of public outreach on transportation needs – of approving the first-ever county-wide vehicle registration fee. The \$30/vehicle/year fee becomes effective January 2020, and Clackamas County residents with vehicles to be registered in January are receiving notices this month.

The \$11.3 million/year of expected revenue will be tracked through the Community Road Fund. As promised to the public, the revenue will be divided between the county and cities, as follows:

- 50% for the county to use on its roads for local road paving, safety and congestion relief projects (~\$5.6 million)
- 40% for cities to use on their roads, distributed based on population (~\$4.6 million)
- 10% for a Strategic Investment Fund to be used jointly by the county and cities on road transfers and transportation projects of mutual interest (~\$1.1 million)

Each city will determine how best to use its portion of the revenue. The county and cities, working through the Clackamas County Coordinating Committee (C4), will identify projects for the Strategic Investment Fund. Our focus today is on the approximately \$5.6 million per year available to use on county-maintained roads.

#### **COMMUNITY ROAD FUND**

The county's revenue from the vehicle registration fee is going into a newly created Community Road Fund (CRF) program. The revenue and expenditures will be tracked through this fund, and the information will be shared with the public on the county's CRF website online at [www.clackamas.us/transportation/crf](http://www.clackamas.us/transportation/crf).

As promised during the public outreach about the vehicle registration fee, the revenue will be used to meet three types of county road needs: congestion relief, local road paving and safety improvements. The amount of money, process used to identify top priority projects and projects are reviewed below.

## **Congestion Relief (~ \$3.5 - \$4 million/year)**

The county's Transportation System Plan, adopted in 2013, involved two years of extensive technical study and public outreach, including regional work groups and a community advisory committee, to identify hundreds of transportation projects needed throughout unincorporated Clackamas County in the next 20 years. That in-depth process provided a list of high-priority congestion relief projects that the county's newest advisory committee – the Community Road Fund Advisory Committee (CRFAC) -- could prioritize to consider for funding.

The 15-member CRFAC met six times from July to October to, as charged:

- Develop criteria to analyze potential capital congestion relief projects to be funded with countywide VRF revenue.
- Apply that criteria to the high priority congestion relief projects in the Transportation System Plan and to any additional top priority congestion relief projects that might result from community input.
- Recommend the order in which capital congestion relief projects should be constructed.

This process worked because of the dedication and hard work of CFRAC members\*:

- Bill Merchant, Chair
- Glenn Koehrsen, Vice Chair
- Christina Day
- Thomas Eskridge
- Richard Fiala
- Warren Holzem
- Roseann Johnson
- Stephen Joncus
- Nathan McCarty
- James Prichard
- April Quinn-McGinnis
- Marge Stewart
- Patricia Tawney
- Dave Queener, Project Manager

*\*There are 13 active members at this point; one had to resign and one was absent.*

After reviewing the top TSP congestion relief projects, the CRFAC developed its own evaluation criteria (Attachment A) to apply to the projects, along with criteria that had been used during the TSP process. Staff applied the criteria to the congestion relief projects for the committee members to discuss and analyze. The CRFAC asked for additional information from staff and further discussed the projects.

The final recommendation from the committee, taking into consideration all the evaluation criteria and how the congestion relief projects relate to the safety and local road paving projects (Attachment B), is that the county proceed on the following projects, with the understanding that the CRFAC will meet regularly in upcoming years to review progress and recommend if adjustments are needed. The congestion relief projects the CRFAC recommends, in order based on ranking by the committee, are:

1. *Johnson Creek Blvd, 55<sup>th</sup> Ave to Bell Ave* – widen to 3 lanes, add bike lanes and sidewalk
2. *Canby-Marquam Highway/Lone Elder Road intersection* – reconstruct; add turn lanes
3. *Redland Road intersections at Ferguson Road and Bradley Road* -- add turn lanes
4. *Stafford Road/Childs Road intersection* –remove skew, add turn lanes and signals; and *Stafford Road, Childs Road to Tualatin River* – add paved shoulders
5. *Welches Road, US 26 to Birdie Lane* – add sidewalks and paved shoulders
6. *Barlow Road/OR 99E intersection* – initial project scoping
7. *Amisigger Road/OR 224 intersection* – install traffic signal; add turn lanes

## **Local Road Paving (~\$1 million/year)**

Approximately one-half of the county's 1,400 miles of roadways are local roads. Because local roads, by definition, have much less traffic than collector and arterial roads, over the years Transportation Maintenance has focused its limited paving funds on the busier roads. Now, with a source of local revenue, we can include local roads in our paving packages.

The local roads recommended to be paved (Attachment C) were selected by staff based upon data from the pavement management system, which uses roadway condition inputs to recommend paving priorities. Paving costs include bringing roads up to current Americans with Disabilities Act (ADA) standards, which can add significantly to the cost of a project, as well as design, preparation work, etc. To make the best use of funds, the recommendations reflect opportunities to combine local road paving projects with other paving projects as well as with congestion relief and safety projects.

## **Safety Improvements (~\$500,000/year)**

Safety improvement projects have been identified in several adopted plans in the past few years, including the TSP, Transportation Safety Action Plan (TSAP), the five-year capital improvements list and from annual safety ranking calculations. The 12 projects recommended for implementation with CRF funds (Attachment D) were analyzed by staff based on the state safety index number, benefit to cost ratio (crashes prevented) and health index, and then reviewed and approved by the Traffic Safety Commission.

## **The Big Picture**

The projects recommended to be funded through the Community Road Fund are at many different stages of readiness. Some, such as local road paving and less complex safety improvement projects, will be able to be completed during 2020. Many others require various levels of scoping, design and other preparatory work before they can begin. Some of the larger projects will require expenditures for several years in a row, while a few will be able to be completed in just one or two years.

Staff has taken into consideration the total costs and time required for all the projects so that funds will be available each year to keep the recommended projects on track. In addition, these projects will be combined with other projects that will be funded from other sources, such as state funding through House Bill 2017, local development fees, urban renewal and other sources.

The map of all transportation projects being developed, planned and programmed over the next 5-6 years (Attachment E) shows that residents and businesses throughout unincorporated Clackamas County will benefit from road maintenance and improvement projects.

## **What's Next**

With direction from the Board of Commissioners, staff will immediately proceed to prepare the recommended projects to be implemented. The Community Road Fund Advisory Committee will meet next this winter to discuss their ongoing meeting schedule to review and evaluate the progress on the congestion relief projects and, as needed, recommend adjustments in the future.

## **FINANCIAL IMPLICATIONS (current year and ongoing):**

Is this item in your current budget? Yes

What is the cost? \$11.3 million/year

What is the funding source? Community Road

Fund (revenue from the new countywide vehicle registration fee)

**STRATEGIC PLAN ALIGNMENT:**

- How does this item align with your Department’s Strategic Business Plan goals?  
This aligns with DTD’s mission to provide services so that future generations can experience and invest in a healthy, safe and livable community.
- How does this item align with the County’s Performance Clackamas goals?  
This aligns with the Board goal to build a strong infrastructure.

**LEGAL/POLICY REQUIREMENTS:**

Staff have worked, as appropriate, with County Counsel and state officials to ensure smooth implementation of the vehicle registration fee.

**PUBLIC/GOVERNMENTAL PARTICIPATION**

Staff and elected officials have shared information and gathered input about transportation funding needs from and with the public and jurisdictional partners for many years. Two community committees – the Community Road Fund Advisory Committee and the Traffic Safety Commission – have been closely involved with the selection of recommended projects to fund through the Community Road Fund.

**OPTIONS**

1. Direct staff to move forward with the congestion relief, local road paving and safety improvement projects listed in this report and attachments.
2. Ask staff for additional information before moving forward with a final decision with the projects listed in this report and attachments.
3. Approve the list of projects with revisions.

**RECOMMENDATION**

Staff respectfully recommends the Board approve option 1) direct staff to move forward with the congestion relief, local road paving and safety improvement projects listed in this report and attachments.

**ATTACHMENTS**

- A: Evaluation Criteria for Congestion Relief Projects
- B: Map of All Recommended Community Road Fund Projects
- C: Recommended Paving Projects
- D: Recommended Safety Improvement Projects
- E: Map of All Projects from All Funding Sources

**SUBMITTED BY:**

Division Director/Head Approval \_\_\_\_\_

Department Director/Head Approval \_\_\_\_\_

County Administrator Approval \_\_\_\_\_

For information on this issue or copies of attachments, please contact Mike Bezner @ 503-742-4651.

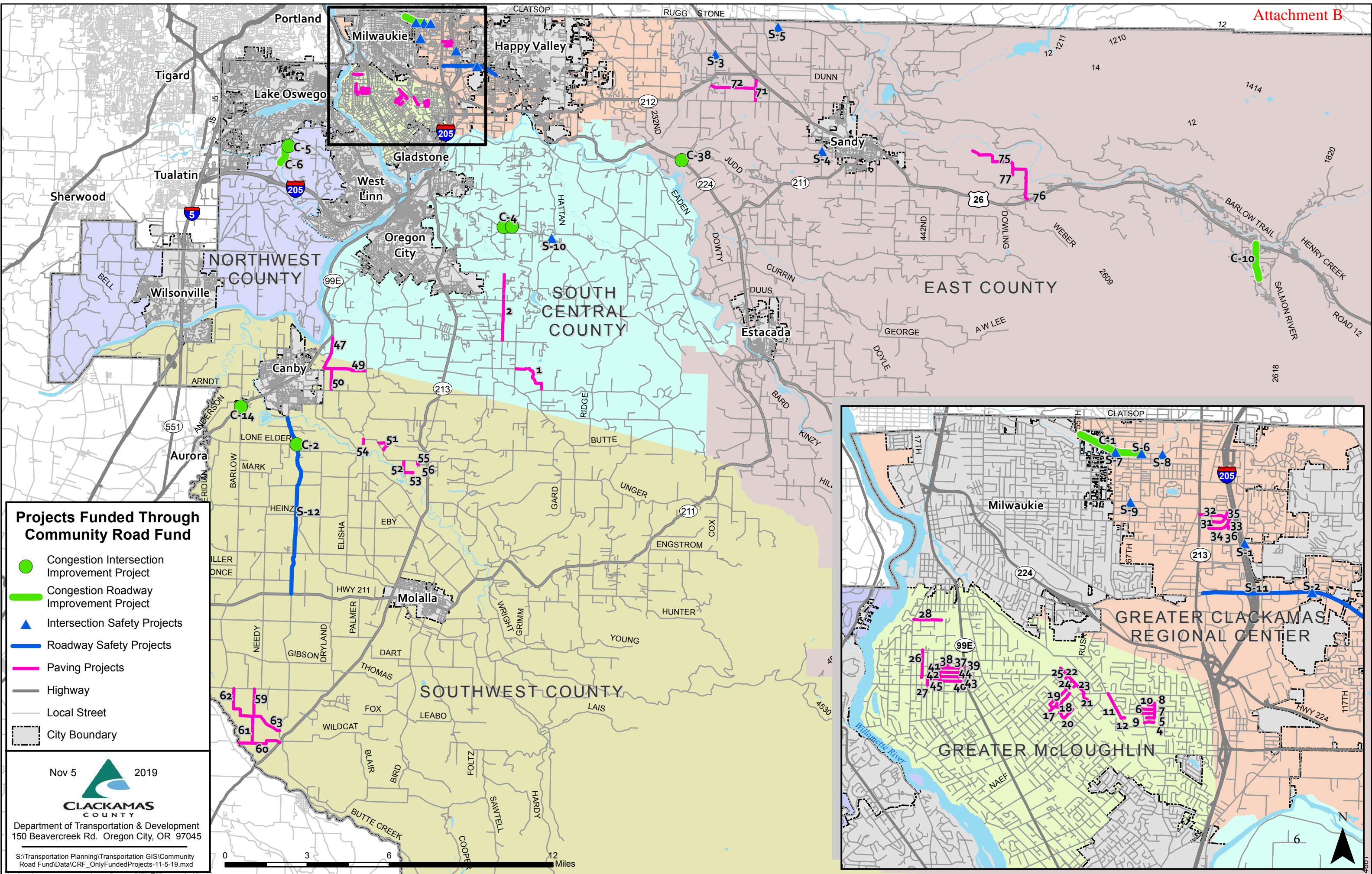
Community Road Fund Advisory Committee

**Congestion Projects Evaluation Measures**

UPDATED based on input at CRFAC meeting, Sept. 26, 2019

Topic	Comments	Evaluation Measure: Scored 0-2
<b>1. Development</b>	Future development (known projects, master plans) or current development that could be supported	<b>2-</b> Project impacted by known development <b>1</b> – Project is located near area with development impacts <b>0</b> - Project is in area with no current development impacts
<b>2. Safety</b>	Safety; frequency of crashes; lack of alternative routes; could include schools, personal safety, shoulders.	<b>2</b> – Project includes improvement identified as a need through CRF safety project evaluation <b>1</b> – Improves a Transportation System Plan (TSP) safety focus intersection, in a road safety audit corridor or identified as an ODOT Safety Priority Index System (SPIS) site <b>0</b> – Not indicated as a safety priority
<b>3. Traffic Impact</b>	Number of people or trips impacted. Improves traffic flow? Reduces congestion? Future traffic.	<b>2</b> – Current ADT is near or exceeds planned / future ADT (90% and greater) <b>1</b> – Current ADT more than 50% of expected future ADT (50%-90%) <b>0</b> – Current ADT is less than of 50% future ADT (0%-50%)
<b>4. Commercial / Freight Impacts</b>	Commercial impacts, improvements to freight movement. Does it support the economy?	Road classification and Emergency Transportation Route (ETR) <b>2</b> – ETR / Major Arterial roadway / on freight route / provides access to commercial / industrial area <b>1-</b> Minor Arterial roadway <b>0</b> – Collector roadway
<b>5. No Other Funding Sources</b>	The Community Road Fund provides the opportunity to fund projects with no other direct funding source.	<b>2-</b> No other funding source clearly available <b>1-</b> No other funding source except project is eligible for SDCs (system development charges) or TIF (tax increment financing) funds <b>0</b> – A project that is grant-eligible or has grant funds readily available
<b>A. Cost-Effectiveness</b>	Cost-effectiveness; bang for the buck	<b>Second Round Scoring:</b> Using current cost estimates, and potential SDC reduction, created a cost-effectiveness score of $((\text{Total Cost} - \text{SDC Contribution}) / \text{Average Daily Trips ADT}) / 100$ . Scoring: <b>5-</b> If cost-effectiveness is 0 – 2.99 <b>4-</b> If cost-effectiveness is 3 – 5.99 <b>3-</b> If cost-effectiveness is 6 – 9.99 <b>2-</b> If cost-effectiveness is 10 – 19.99 <b>1-</b> If cost-effectiveness is 20+
<b>B. Readiness / Show Progress</b>	Low-hanging fruit. Cheaper alternative? Show progress. Which projects have the least amount of potential risk and may be quicker to deliver?	<b>Second Round Scoring:</b> After the engineers created the cost assessment, they were asked to score the projects with respect to potential risk. Scoring <b>5</b> - Low risk <b>3-</b> Medium risk <b>1-</b> High risk
<b>C. Leverage Funds / Project Synergy</b>	Ability to leverage other funds. Partner with other agencies – cities, ODOT.	<b>Second Round Scoring:</b> Identify which projects are also planned for paving, are SDC eligible, within urban renewal areas, potential Strategic Investment Fund, or jurisdictional contribution <b>5-</b> On paving list and other funding source <b>3-</b> On paving list OR other funding source <b>1-</b> No other funding source
<b>D. Geographic Equity</b>	Spread projects across the county, not just in one area.	<b>Second Round Scoring:</b> Identified the projects ranking from the three second round scores in each area to identify top projects within each area. <b>5-</b> Top scoring project for area <b>4-</b> Second scoring project for area <b>3-</b> Third scoring project for area <b>2-</b> Fourth scoring project for area





**Projects Funded Through Community Road Fund**

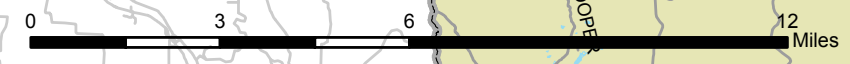
- Congestion Intersection Improvement Project
- Congestion Roadway Improvement Project
- ▲ Intersection Safety Projects
- Roadway Safety Projects
- Paving Projects
- Highway
- Local Street
- City Boundary

Nov 5 2019

**CLACKAMAS COUNTY**

Department of Transportation & Development  
150 Beaver Creek Rd. Oregon City, OR 97045

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**PROJECTS FUNDED THROUGH COMMUNITY ROAD FUND (CRF)**

<b>Safety Projects</b>	
S-1	Bob Schumacher Rd & Causey Rd
S-2	Sunnyside Rd & Sunnybrook Blvd
S-3	282nd Ave & Haley Rd
S-4	362nd Ave & Colorado Rd
S-5	Bluff Rd & 327th Ave
S-6	Johnson Creek Blvd & Bell Ave
S-7	Johnson Creek Blvd & Linwood Ave
S-8	Johnson Creek Blvd & 74th Ave
S-9	King Rd & 66th Ave
S-10	Redland Rd & Fischers Mill Rd
S-11	Sunnyside Rd (between Clackamas Town Center & 122nd)
S-12	Canby-Marquam Hwy (between Molalla River & Hwy 211)

<b>Congestion Relief Projects</b>	
C-1	Johnson Creek Blvd
C-2	Canby-Marquam Hwy
C-4	Redland Rd (intersections with Ferguson & Bradley)
C-5	Stafford Rd (Childs Rd to Tualatin River)
C-6	Stafford Rd (Childs intersecion)
C-10	Welches Rd
C-14	Barlow Rd
C-38	Amisigger Rd (OR 224 intersection)

<b>Paving Projects</b>	
1	Carus Rd
2	Ferguson Rd
4	San Marcos Ave
5	Antigua Ave
6	Cypress Ave
7	Renada St
8	Eldorado Ct
9	Del Rey Ave (Cypress to Antigua)
10	Del Rey Ave (Cypress to dead end)
11	Aldercrest Ct
12	Kern Ct
17	El Centro Way
18	El Centro Ct
19	La Mesa Way
20	Sierra Vista Dr
21	Harmon Ct
22	Vista Ln
23	Ancona Ct
24	Bantam Ct
25	Cornish Ct
26	Lee Ave
27	Arista Dr

<b>Paving Projects (cont.)</b>	
28	Silver Springs Rd
31	Owen Dr (85th to King)
32	King Rd (82nd to Owen)
33	King Rd (Owen to Spencer)
34	Spencer Rd
35	Owen Dr (King to Marcus)
36	Spencer Ct
37	Woodland Way
38	Park Rd
39	Chestnut St
40	Laurel St
41	Pine Ln
42	Bunnell St
43	Maple St
44	Walnut St
45	Park Entrance Rd
47	Haines Rd
49	Bremer Rd
50	Blount Rd
51	Adkins Cir
52	Fish Rd
53	Buff Rd

<b>Paving Projects (cont.)</b>	
54	Lilli Ln
55	Airport Rd
56	Landing Ln
59	Farm Rd (Monte Cristo to Oster)
60	Drake Rd
61	Farm Rd (Drake to Oster)
62	Oster Rd (Farm to Monte Cristo)
63	Oster Rd (Kropf to Farm)
71	312th Dr
72	Church Rd
75	Baty Rd (Cherryville to dead end)
76	Baty Rd (Hwy 26 to Cherryville)
77	502nd Ave

### Recommended Paving Projects: November 5, 2019

Road Name	Urban / Rural	Funding Source	Local Road?	From	To
<b>Carus Package</b>					
1 Carus Rd	Rural	Community Road Fund	Yes	Lower Highland Rd	Beavercreek Rd
<b>Ferguson Package</b>					
2 Ferguson Rd	Rural	Community Road Fund	Yes	Beavercreek Rd	end of county maintenance
<b>Lower Highland Package</b>					
3 Lower Highland Rd	Rural	HB2017 + Road Fund	No	Beavercreek Rd	Upper Highland
<b>Webster Area Package</b>					
4 San Marcos Ave	Urban	Community Road Fund	Yes	Delrey Ave	Webster Rd
5 Antigua Ave	Urban	Community Road Fund	Yes	Delrey Ave	cul-de-sac
6 Cypress Ave	Urban	Community Road Fund	Yes	Delrey Ave	Webster Rd
7 Renada St	Urban	Community Road Fund	Yes	Webster Rd	Delrey Ave
8 Eldorado Ct	Urban	Community Road Fund	Yes	Delrey Ave	cul-de-sac
9 Delrey Ave	Urban	Community Road Fund	Yes	Cypress Ave	Antigua Ave
10 Delrey Ave	Urban	Community Road Fund	Yes	Cypress Ave	dead end
11 Aldercrest Ct	Urban	Community Road Fund	Yes	Thiessen Rd	Kern Ct
12 Kern Ct	Urban	Community Road Fund	Yes	Aldercrest Ct	cul-de-sac
<b>Kelso / Richey Package</b>					
13 Kelso Rd	Rural	HB2017 + Road Fund	No	Richey Rd	Hwy 26
14 Richey Rd	Rural	HB2017 + Road Fund	No	Kelso Rd	Hwy 212
<b>Sunnyside (132 - 162) Package</b>					
15 Sunnyside	Urban	HB2017 + Road Fund	No	132nd	162nd
<b>Sunnyside (122 - 132) Package</b>					
16 Sunnyside	Urban	HB2017 + Road Fund	No	122nd Ave	132nd
<b>Thiessen Area Package</b>					
17 El Centrol Wy	Urban	Community Road Fund	Yes	Hill Rd	El Camino Wy
18 El Centro Ct	Urban	Community Road Fund	Yes	El Centro Wy	cul-de-sac
19 La Mesa Wy	Urban	Community Road Fund	Yes	Hill Rd	El Centro Wy
20 Sierra Vista Dr	Urban	Community Road Fund	Yes	Thiessen Rd	cul-de-sac
21 Harmon Ct	Urban	Community Road Fund	Yes	Thiessen Rd	cul-de-sac
22 Vista Ln	Urban	Community Road Fund	Yes	Thiessen Rd	end of county maintenance
23 Ancona Ct	Urban	Community Road Fund	Yes	Vista Ln	cul-de-sac
24 Bantam Ct	Urban	Community Road Fund	Yes	Vista Ln	cul-de-sac
25 Cornish Ct	Urban	Community Road Fund	Yes	Vista Ln	cul-de-sac
<b>Arista Package</b>					
26 Lee Ave	Urban	Community Road Fund	Yes	Courtney Ave	dead end at fence
27 Arista Dr	Urban	Community Road Fund	Yes	Oak Grove Blvd	Maple St
28 Silversprings Rd	Urban	Community Road Fund	Yes	River Rd	dead end
<b>JCB Package</b>					
29 Johnson Creek Blvd	Urban	HB2017 + Road Fund	No	82nd Ave	Mult. Co. Line
30 Bell Rd	Urban	HB2017 + Road Fund	No	King Rd	Alberta Ave



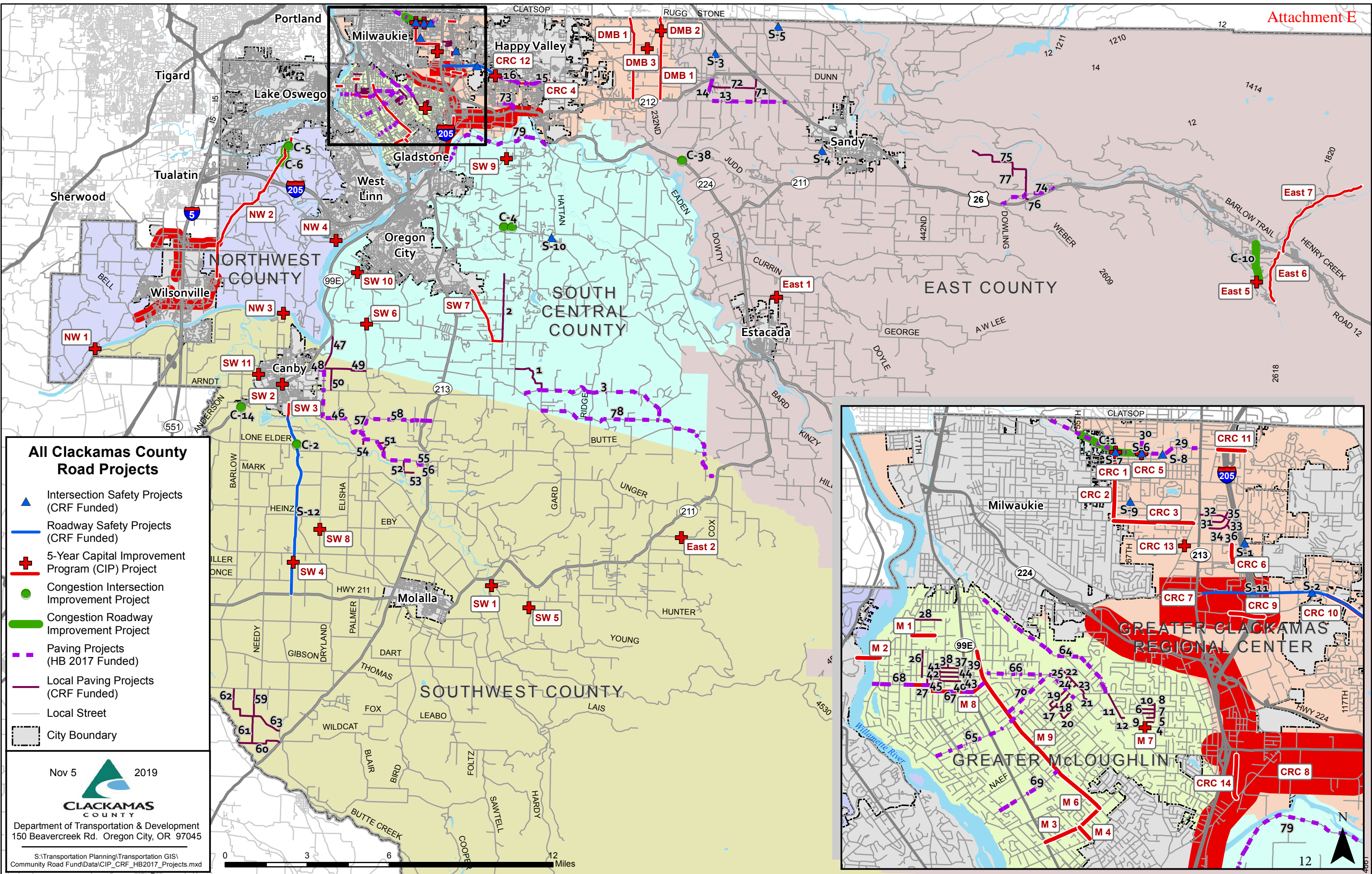
Road Name	Urban / Rural	Funding Source	Local Road?	From	To
<b>Boyer / King Road Area Package</b>					
31 Owen Dr	Urban	Community Road Fund	Yes	85th Ave	King Rd
32 King Rd	Urban	Community Road Fund	Yes	82nd Ave	Owen Dr
33 King Rd	Urban	Community Road Fund	Yes	Owen Dr	Spencer Rd
34 Spencer Dr	Urban	Community Road Fund	Yes	dead end	dead end
35 Owen Dr	Urban	Community Road Fund	Yes	King Rd	Owen Dr, cont.
36 Spencer Ct	Urban	Community Road Fund	Yes	Spencer Rd	CCCC
<b>McLoughlin Neighborhood Package</b>					
37 Woodland Wy	Urban	Community Road Fund	Yes	Chestnut St	Chestnut St
38 Park Rd	Urban	Community Road Fund	Yes	Chestnut St	Pine Ln
39 Chestnut St	Urban	Community Road Fund	Yes	OR 99E	Woodland Wy
40 Laurel St	Urban	Community Road Fund	Yes	Park Entrance Rd	dead end
41 Pine Ln	Urban	Community Road Fund	Yes	Woodland Way	Bunnell St
42 Bunnell St	Urban	Community Road Fund	Yes	Park Entrance Rd	Chestnut St
43 Maple St	Urban	Community Road Fund	Yes	OR 99E	Bunnell St
44 Walnut St	Urban	Community Road Fund	Yes	Bunnell Rd	Woodland Wy
45 Park Entrance Rd	Urban	Community Road Fund	Yes	Rupert Dr	Bunnell St
<b>Mulino Package</b>					
46 Mulino Rd	Rural	HB2017 + Road Fund	No	Haines Rd	HWY 213
47 Haines Rd	Rural	Community Road Fund	Yes	OR 99E	1st St
48 1st St	Rural	HB2017 + Road Fund	No	Mulino Rd	Walnut St
49 Bremer Rd	Rural	Community Road Fund	Yes	Haines Rd	Central Point Rd
50 Blount Rd	Rural	Community Road Fund	Yes	Bremer Rd	Township Rd
51 Adkins Cir	Rural	Community Road Fund	Yes	Mulino Rd	Mulino Rd
52 Fish Rd	Rural	Community Road Fund	Yes	Buff Rd	Mulino Rd
53 Buff Rd	Rural	Community Road Fund	Yes	Culdesac	Fish Rd
54 Lilli Ln	Rural	Community Road Fund	Yes	Mulino Rd	Dead End
55 Airport Rd	Rural	Community Road Fund	Yes	Mulino Rd	Landing Ln
56 Landing Ln	Rural	Community Road Fund	Yes	Mulino Rd	Airport Rd
57 Central Point Rd	Rural	HB2017 + Road Fund	No	Mulino Rd	Union Hall Rd
58 Union Hall Rd	Rural	HB2017 + Road Fund	No	Central Point Rd	Eldorado Rd
<b>Marquam Area Package</b>					
59 Farm Rd S	Rural	Community Road Fund	Yes	Monte Cristo	Oster Rd
60 Drake Rd S	Rural	Community Road Fund	Yes	OR 213	Marion County line
61 Farm Rd S	Rural	Community Road Fund	Yes	Drake Rd	Oster Rd
62 Oster Rd	Rural	Community Road Fund	Yes	Farm Rd	Monte Cristo Rd
63 Oster Rd	Rural	Community Road Fund	Yes	Kropf Rd	Farm Rd
<b>Oatfield Package</b>					
64 Aldercrest Rd	Urban	HB2017 + Road Fund	No	Oatfield Rd	Thiessen Rd
65 Concord Rd	Urban	HB2017 + Road Fund	Partial	River Rd	La Bonita Rd
66 Hill Rd	Urban	HB2017 + Road Fund	No	Oatfield Rd	Thiessen Rd
67 Oak Grove Blvd	Urban	HB2017 + Road Fund	No	Oatfield Rd	Rupert Rd
68 Oak Grove Blvd	Urban	HB2017 + Road Fund	No	Rupert Rd	end of county maintenance
69 Roethe Rd	Urban	HB2017 + Road Fund	Partial	River Rd	Oatfield Rd
70 View Acres Rd	Urban	HB2017 + Road Fund	Yes	Hill Rd	Oatfield Rd

Road Name	Urban / Rural	Funding Source	Local Road?	From	To	
<b>Boring Package</b>						
71	312th Dr	Rural	Community Road Fund	Yes	Hwy 26	Kelso Rd
72	Church Rd	Rural	Community Road Fund	Yes	Richey Rd	312th Dr
73	Hubbard Rd	Rural	HB2017 + Road Fund	No	122nd Ave	Hwy 212
<b>Cherryville Package</b>						
74	Cherryville Dr	Rural	HB2017 + Road Fund	No	Hwy 26 West	Hwy 26 East
75	Baty Rd	Rural	Community Road Fund	Yes	Cherryville Dr	end of county maintenance @ 48100
76	Baty Rd	Rural	Community Road Fund	Yes	Cherryville Dr	Hwy 26
77	502nd Ave	Rural	Community Road Fund	Yes	Baty Rd	end of county maintenance @ 19952
78	Upper Highland Rd	Rural	HB2017	No	OR 211	Beavercreek Dr
79	Clackamas River Dr	Rural	HB2017	No	Oregon City limits	Springwater

## Top Priority Community Road Fund Safety Improvement Projects: Oct. 10, 2010

#	Project Name	Description	Cost	Year(s)	CPO
1	<b>Bob Schumacher Rd &amp; Causey Rd</b>	Add protected-permitted left turn (PPLT) signal, flashing yellow arrow southbound, 3-inch reflective strip on six other signal heads, dilemma zone protection, signal ahead signs with street names; complete ADA improvements as needed	\$ 184,508	2019-23	Sunnyside
2	<b>Sunnyside Rd &amp; Sunnybrook Blvd</b>	Add 3-inch reflective strip on 11 signal heads, dilemma zone protection, advance signal ahead signs with street names	\$ 93,144	2019-21	Sunnyside
3	<b>282 Ave &amp; Haley Rd</b>	Interim safety improvements: Improve intersection warning: stop ahead signs & pavement markings, larger signs, more stop signs and/or other intersection warning or regulatory signs.	\$ 26,860	2019-21	Boring
4	<b>362 Ave &amp; Colorado Rd</b>	Improve intersection warning: stop ahead signs & pavement markings, larger signs, additional stop signs and/or other intersection warning or regulatory signs	\$ 12,860	2019-21	Sandy
5	<b>Bluff Rd &amp; 327th Ave</b>	Reconfigure intersection using existing footprint	\$ 166,988	2021-23	Cottrell
6	<b>Johnson Creek Blvd &amp; Bell Ave</b>	Replace old 12-inch & 8-inch signal heads with new heads and LED's, replace east/west dog-house heads with 4-section flashing yellow arrows, add advance signal ahead signs	\$ 109,404	2019-21	Southgate
7	<b>Johnson Creek Blvd &amp; Linwood Rd</b>	Add 3-inch reflective strips on back plates, dilemma zone protection, bike signal and detection, bike/ped crosswalk & markings, and advance signal ahead signs	\$ 374,830	2020-24	Southgate
8	<b>Johnson Creek Blvd &amp; 74th Ave</b>	Improve intersection warning: stop ahead signs & pavement markings, larger signs, more stop signs and/or other intersection warning or regulatory signs	\$ 12,860	2020-21	Southgate
9	<b>King Rd &amp; 66th Ave</b>	Improve intersection warning: stop ahead signs & pavement markings, larger signs, more stop signs and/or other intersection warning or regulatory signs	\$ 13,860	2020-21	Southgate
10	<b>Redland Rd &amp; Fischers Mill Rd</b>	Install roundabout	\$ 2,723,801	2024-28	Redland
11	<b>Sunnyside Road</b>	Conduct Road Safety Audit	\$ 80,000	2020-21	Sunnyside
12	<b>Canby-Marquam Highway</b>	Implement Road Safety Audit recommendations	\$ 500,000	2020-24	South Canby



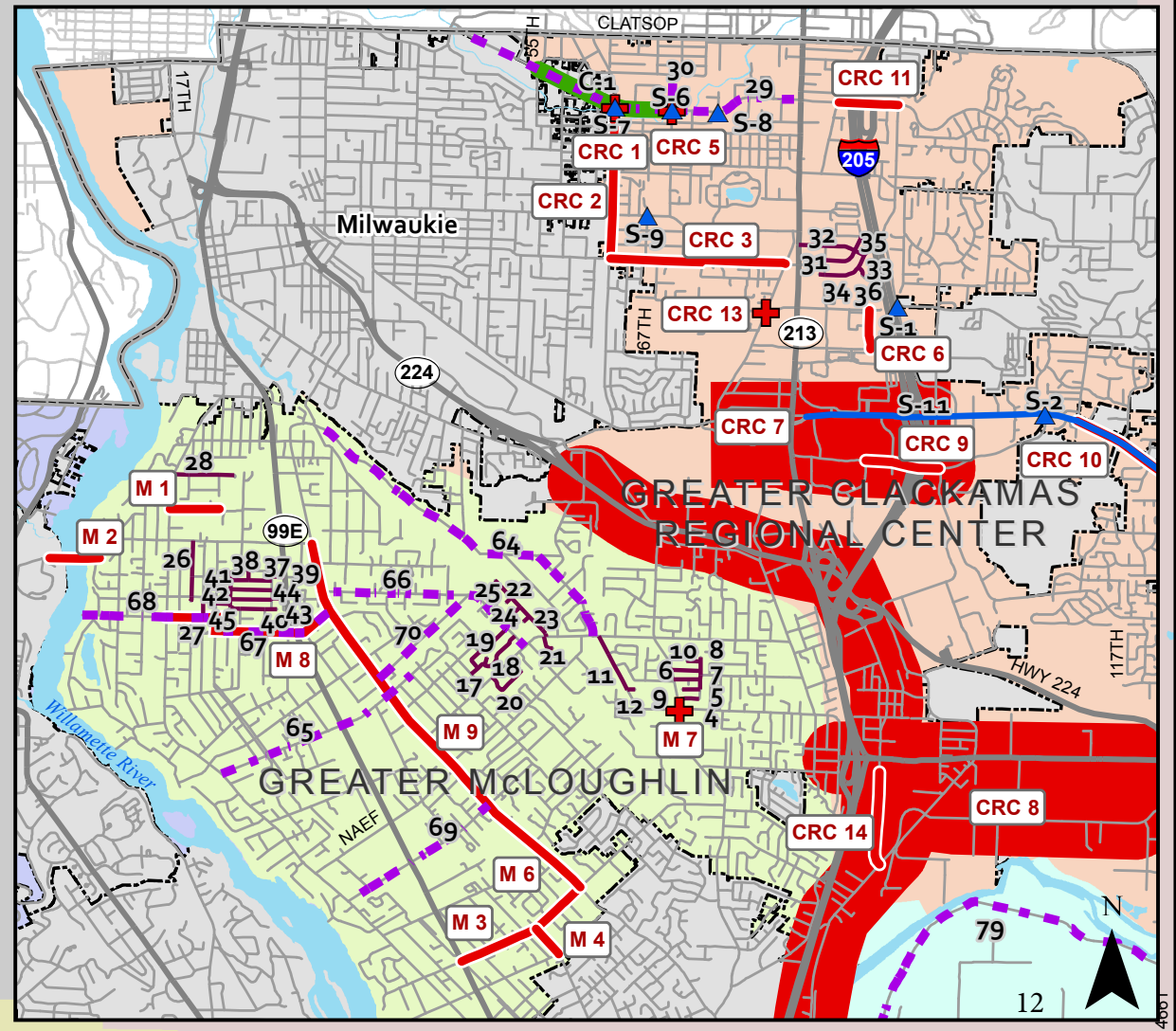
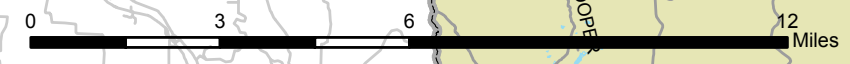


- ### All Clackamas County Road Projects
- ▲ Intersection Safety Projects (CRF Funded)
  - Roadway Safety Projects (CRF Funded)
  - + 5-Year Capital Improvement Program (CIP) Project
  - Congestion Intersection Improvement Project
  - Congestion Roadway Improvement Project
  - - - Paving Projects (HB 2017 Funded)
  - Local Paving Projects (CRF Funded)
  - Local Street
  - City Boundary

Nov 5 2019

**CLACKAMAS COUNTY**  
 Department of Transportation & Development  
 150 Beaver Creek Rd. Oregon City, OR 97045

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Safety Projects		Paving Projects (cont.)		Paving Projects (cont.)		5-Year CIP Projects	
S-1	Bob Schumacher Rd & Causey Rd	11	Aldercrest Ct	45	Park Entrance Rd	CRC 1	Johnson Creek Blvd & Linwood Ave
S-2	Sunnyside Rd & Sunnybrook Blvd	12	Kern Ct	46	Mulino Rd	CRC 2	Linwood Ave
S-3	282nd Ave & Haley Rd	13	Kelso Rd	47	Haines Rd	CRC 3	Monroe St
S-4	362nd Ave & Colorado Rd	14	Richey Rd	48	1st St	CRC 4	Sunnyside Rd
S-5	Bluff Rd & 327th Ave	15	Sunnyside Rd (132nd to 162nd)	49	Bremer Rd	CRC 5	Johnson Creek Blvd & Bell Ave
S-6	Johnson Creek Blvd & Bell Ave	16	Sunnyside Rd (122nd to 132nd)	50	Blount Rd	CRC 6	90th Ave
S-7	Johnson Creek Blvd & Linwood Ave	17	El Centro Way	51	Adkins Cir	CRC 7	Clackamas Regional Center area
S-8	Johnson Creek Blvd & 74th Ave	18	El Centro Ct	52	Fish Rd	CRC 8	Clackamas Industrial Area to Wilsonville
S-9	King Rd & 66th Ave	19	La Mesa Way	53	Buff Rd	CRC 9	Sunnybrook Blvd
S-10	Redland Rd & Fischers Mill Rd	20	Sierra Vista Dr	54	Lilli Ln	CRC 10	Sunnyside Rd (Valley View to 132nd)
S-11	Sunnyside Rd (between Clackamas Town Center & 122nd)	21	Harmon Ct	55	Airport Rd	CRC 11	Johnson Creek Blvd (Fuller Rd to 92nd)
S-12	Canby-Marquam Hwy (between Molalla River & Hwy 211)	22	Vista Ln	56	Landing Ln	CRC 12	Sunnyside Rd & 122nd Ave
		23	Ancona Ct	57	Central Point Rd	CRC 13	Ruller Rd & Causey Ave
		24	Bantam Ct	58	Union Hall Rd	CRC 14	82nd Dr
		25	Cornish Ct	59	Farm Rd (Monte Cristo to Oster)	DMB 1	242nd Ave / 222nd Ave
		26	Lee Ave	60	Drake Rd	DMB 2	242nd Ave & Borges Rd
		27	Arista Dr	61	Farm Rd (Drake to Oster)	DMB 3	232nd Dr
		28	Silver Springs Rd	62	Oster Rd (Farm to Monte Cristo)	East 1	Duus Rd
		29	Johnson Creek Blvd	63	Oster Rd (Kropf to Farm)	East 2	Milk Creek Bridge (Bonney Rd)
		30	Bell Rd	64	Aldercrest Rd	East 5	Salmon River Bridge (Elk Park Rd)
		31	Owen Dr (85th to King)	65	Concord Rd	East 6	E Salmon River Rd
		32	King Rd (82nd to Owen)	66	Hill Rd	East 7	Lolo Pass Rd
		33	King Rd (Owen to Spencer)	67	Oak Grove Blvd (Oatfield to Rupert)	M 1	Torbank Rd
		34	Spencer Rd	68	Oak Grove Blvd (Rupert to west dead end)	M 2	Oak Grove & Lake Oswego
		35	Owen Dr (King to Marcus)	69	Roethe Rd	M 3	Jennings Ave
		36	Spencer Ct	70	View Acres Rd	M 4	Portland Ave
		37	Woodland Way	71	312th Dr	M 6	Oatfield Rd (Oak Grove Blvd to Jennings)
		38	Park Rd	72	Church Rd	M 7	Webster Rd & Clackamas Rd
		39	Chestnut St	73	Hubbard Rd	M 8	Oak Grove Blvd
		40	Laurel St	74	Cherryville Dr	M 9	Oatfield Rd
		41	Pine Ln	75	Baty Rd (Cherryville to dead end)	NW 1	Edminston Rd & Wilsonville Rd
		42	Bunnell St	76	Baty Rd (Hwy 26 to Cherryville)	NW 2	Stafford Rd
		43	Maple St	77	502nd Ave	NW 3	Canby Ferry
		44	Walnut St	78	Upper Highland Rd	NW 4	Tualatin River Bridge (Petes Mtn Rd)
				79	Clackamas River Dr	SW 1	Woodcock Creek Bridge (Wright Rd)
						SW 2	Ivy St
						SW 3	Canby-Marquam Hwy
						SW 4	Bear Creek Bridge (Canby-Marquam Hwy)
						SW 5	Woodcock Creek Bridge (Grimm Rd)
						SW 6	Central Point Rd & New Era Rd
						SW 7	Beavercreek Rd
						SW 8	Dryland Rd
						SW 9	Victory Blvd & Forsythe Rd
						SW 10	South End Rd
						SW 11	Molalla River Bridge (Knights Bridge Rd)
<b>Congestion Relief Projects</b>							
C-1	Johnson Creek Blvd						
C-2	Canby-Marquam Hwy						
C-4	Redland Rd (intersections with Ferguston & Bradley)						
C-5	Stafford Rd (Childs Rd to Tualatin River)						
C-6	Stafford Rd (Childs interseccion)						
C-10	Welches Rd						
C-14	Barlow Rd						
C-38	Amisigger Rd (OR 224 intersection)						
<b>Paving Projects</b>							
1	Carus Rd						
2	Ferguson Rd						
3	Lower Highland Rd						
4	San Marcos Ave						
5	Antigua Ave						
6	Cypress Ave						
7	Renada St						
8	Eldorado Ct						
9	Del Rey Ave (Cypress to Antigua)						
10	Del Rey Ave (Cypress to dead end)						