

MEMO

TO: Clackamas County Board of Commissioners

FROM: Karen Buehrig, Transportation Planning Supervisor

RE: August 7th Transportation System Plan (TSP) "Projects" Planning Session

DATE: July 31, 2013

Per the request of the BCC at the June 25th TSP Study Session, this Planning Session is scheduled to give the BCC an opportunity to become familiar with the 20-year Capital Improvement Plan project list that will be discussed by the TSP Public Advisory Committee (PAC) at the end of August.

AUGUST 7TH PLANNING SESSION AGENDA

9 AM – TSP 20 year CIP project list overview

- Explanation of project "Tiers"
- Input from final transportation model run on "Preferred Alternative"
- Project Management Team recommendations that are different from the PAC recommendation

9:30 AM – Discussion regarding proposed projects

10:45 AM – Next Steps

MATERIALS

Materials provided in preparation for the August 7th Planning Session include:

- Tech Memo 12.4 Tier 1 Scenario Analysis
- Tech Memo 12.5 Draft Project List Recommendations to the Planning Commission
- Table 2: Projects with Changes in Recommended Priority since PAC Meeting #5C
- July 2013 Master List County Projects: Draft Project List Recommendations to the Planning Commission
- July 2013 Master Project List – Maps
- Master List ODOT Projects – Recommended Priorities and Simplified ODOT Comments

Tech Memo 12.4: Tier 1 Scenario Analysis

Date: July 17, 2013 Project #: 11732

To: Transportation System Plan (TSP) Technical Advisory Committee (TAC) Members

From: TSP Project Management Team

Project: Clackamas County Transportation System Plan Update

Subject: Analysis of draft 20-Year Capital Projects (Tier 1) Network

This memorandum summarizes the operational analysis performed on the draft 20-Year Capital Projects (Tier 1) network, hereafter referred to as the *Tier 1 Scenario*. The intent of this analysis is to identify any necessary changes to the 20-Year Capital Projects list or adjustments in project priorities to best meet the TSP goals and objectives.

I. BACKGROUND

At this stage of the TSP update, the project lists for the Clackamas County Transportation System Plan (TSP) are being finalized according to the goals, priorities and available funding. This process will result in three project lists, shown in Table 1, which will define the County's transportation priorities for the next 20 years.

Table 1 TSP Project List Organization

Project List Name	Tier	Previous Name	Funding Available	Type of Projects Included
20-Year Capital Projects	1	Fiscally Constrained List	Approximately \$444 million (based on funding forecast)	Top recommended projects that can reasonably be undertaken given the current estimates of available funding.
Preferred Capital Projects	2	Preferred Project List	Approximately \$444 million (potential additional funding)	Additional recommended projects that the County hopes to undertake if additional funding becomes available during the next 20 years.
Long-Term Capital Project Needs	3	Vision Project List	None known	All other needed projects identified in the TSP update process. These are not expected to be funded or constructed by the County during the next 20 years, but they are still needed to meet the County's projected transportation needs.

The current draft project lists were developed based on a variety of information and input, including:

- An analysis of the transportation system and study intersections under existing conditions, the 2035 Low Build Scenario (includes funded projects as of summer 2012), and the 2035 Full Build Scenario (includes all planned projects in the previous TSP).
- A goal assessment of potential projects based on the vision, goals, and objectives of the TSP.

Tech Memo 12.5: Draft Project List Recommendations to the Planning Commission

Date: August 1, 2013

Project #: 11732

To: Transportation System Plan (TSP) Public Advisory Committee (PAC) Members

From: TSP Project Management Team

Project: Clackamas County Transportation System Plan Update

Subject: Project Prioritization Process Overview – Current Status and Next Steps

This memorandum outlines:

- the process used to prioritize lists for the Clackamas County Transportation System Plan (TSP) update since PAC Meeting #5C in April 2013 when the PAC recommended project priorities, and
- the remaining steps for finalizing the project lists before the Planning Commission work session and public hearing in September and October.

I. RECENT ACTIVITIES

Since PAC meeting #5C in April 2013 when the PAC recommended project priorities, the following activities have taken place:

- **Community Outreach:**
 - The Virtual Open House from May 15 through June 15 provided an interactive map for gathering public feedback on the PAC recommended priorities.
 - County staff attended and presented at 33 business and community meetings throughout the County. A full list of the presentations is available online at www.clackamascountytsp.com.
 - A summary of the public feedback was discussed with the PAC in June 2013.
- **Additional Capacity Analysis:** Operational analysis was performed on the draft 20-Year Capital Projects (Tier 1) network to identify any potential changes to that list or adjustments in project priorities to best meet the TSP goals and objectives. The analysis assessed how the study intersections and County roadways will operate with the projects in Tier 1 and projected growth for 2035. The results are documented in *Tech Memo 12.4: Tier 1 Scenario Analysis*.
- **Countywide Review:** The Project Management Team (PMT) and Technical Advisory Committee (TAC) reviewed the PAC prioritization recommendations and made recommendations based on the feedback received through the community outreach

process, the results of additional capacity analysis performed, and their expertise from a Countywide perspective.

II. PROJECT LISTS AND TIERS

At this stage of the TSP update, the project lists are being finalized for presentation to the Planning Commission in September and October. The current draft lists reflect a variety of input, including:

- An analysis of the transportation system and study intersections under existing conditions, the 2035 Low Build Scenario (includes funded projects as of summer 2012), the 2035 Full Build Scenario (includes all planned projects in the previous TSP), and the Tier 1 Scenario (includes all projects in the PAC recommended Tier 1 list).
- A goal assessment of potential projects based on the TSP vision, goals, and objectives. Public input gathered through the Public Advisory Committee (PAC), three virtual workshops, and other community outreach activities.
- Feedback from the community-based Geographic Area Projects (GAPS) groups, a Technical Advisory Committee (TAC), and County staff.

Tables and maps reflecting the current project priorities are provided in *Appendix A*. Table 1 provides further information on the project lists.

Table 1 TSP Project Lists

Project List Name	Tier	Funding Available	Funding Allocated (Number of Projects)	Type of Projects Included
20-Year Capital Projects	1	Approximately \$444 million (based on funding forecast)	\$420,505,000 (118 projects)	Top recommended projects that can reasonably be undertaken given the current estimates of available funding.
Preferred Capital Projects	2	Approximately \$444 million (potential additional funding)	\$384,370,000 (41 projects)	Additional recommended projects that the County hopes to undertake if additional funding becomes available during the next 20 years.
Long-Term Capital Project Needs	3	None known	\$2,170,579,000 (173 projects)	All other needed projects identified in the TSP update process. These are not expected to be funded or constructed by the County during the next 20 years, but they are still needed to meet the County's projected transportation demands.

III. COUNTY PROJECTS FOR DISCUSSION

Table 2 lists the County projects for PAC discussion at the August 20th PAC meeting, including projects that have been **added**, **removed**, or **changed in priority** since the PAC's last review of the project list. The last column on the table notes the change in priority and provides an explanation for the change. The projects have been grouped by geographic sub area. PAC members will have the opportunity to comment on these projects and any others they would like to highlight for discussion during the August 20th meeting.

Table 2:

IV. ODOT PROJECTS

The majority of the TSP process has focused on refining and prioritizing projects located on County facilities outside cities. However, work has also been done to identify the County's priority projects on ODOT facilities. The County has developed a separate list of ODOT projects, with projects categorized as high, medium, or low priority. These projects have primarily been refined and prioritized based on the analysis of the transportation system under existing conditions and the future conditions scenarios, input from the TAC, and discussions with County staff. The County's recommended prioritization will be shared with ODOT to help inform their future planning and priorities. The prioritized list of ODOT projects is provided in *Appendix B*.

V. NEXT STEPS

The draft project list recommendations to the Planning Commission will be reviewed by the PAC during Meeting #6 on August 20th, 2013. At that meeting, the PAC will discuss any changes that should be made to the Tier 1 20-Year Capital Projects or adjustments in project priorities. Public review of the final plan will take place in October through December when it will be presented first to the Planning Commission and then to the Board of County Commissioners.

LIST OF APPENDICES:

A: Draft Project List Recommendations to the Planning Commission – Maps and Tables

B: ODOT Project List

- Public input gathered via the Public Advisory Committee (PAC), three virtual workshops, and community outreach activities.
- Feedback from Geographic Area Priority (GAPS) groups, a Technical Advisory Committee (TAC), and County staff.

The current draft 20-Year Capital Projects (Tier 1) List reflects the recommended priorities coming out of PAC meeting #5C, held April 30, 2013. Maps and tables of the projects are available in *Appendix A*.

II. TIER 1 SCENARIO

In order to further inform the prioritization process, an operational analysis was performed to assess how the transportation system operates with the projects currently on the draft 20-Year Capital Projects List (Tier 1 Scenario). The projects included in this analysis are listed and mapped in *Appendix A*. The intent of this analysis was to identify the following:

- Tier 1 Projects that need to be adjusted (project extents, description, and/or cost) in order to best address an identified deficiency,
- Tier 2 or 3 Projects that need to be elevated in priority to address an identified deficiency,
- Tier 1 Capacity Projects that do not address a projected deficiency and therefore may not be needed in the 20-year horizon, and
- Any remaining deficiencies in the transportation system not addressed by a project on the TSP list.

A. Volume Development

The operational analysis relied on the development of link volumes and turning movement count volumes at key study intersections. As with the 2035 Low Build Scenario and 2035 Full Build Scenario assessed in earlier TSP efforts, this analysis assumed 2035 projected population and employment growth. Metro's recently released Joan model was utilized to develop volumes, whereas earlier modeling efforts used the Ivan model. The key differences between these models are summarized in the materials provided in *Appendix B*. Based on discussions with Metro Travel Modeling staff, the differences between the two models are likely the result of the following differences:

1. Changes in the 2035 Land Use Assumptions – Households and Employment

The Joan model uses the 2035 Gamma forecast, whereas the Ivan model used the 2035 Beta forecast. The Gamma Forecast has approximately 8,000 fewer households overall, fewer households in the County, and a general decrease in household incomes (which is strongly associated with reduced access to automobiles and increased demand for transit service). As a result of these changes in the 2035 land use and economic assumptions, the total number of vehicle trips in 2035 decreased by 10% between the Beta Forecast and the Gamma Forecast.

2. Changes to the Travel Model

A key component of a travel model is the origin-destination (O-D) matrix, which allocates all of the trips generated in a traffic analysis zone (TAZ) to the other TAZs in the regional travel model. The travel survey used in the previous Metro model was conducted in 1994 and showed that 93.2% of all trips in the County were made by automobile. The updated Metro model utilized a new travel survey from 2011 which showed that 87.6% of trips in the County were made by automobile. Therefore, the change to the new travel survey data resulted in an additional 5% reduction in the overall number of trips made by automobile in 2035.

The combined effect of these two changes to the travel model is a 15% reduction in number trips made by automobiles and a resulting decrease in the travel volumes shown by the Joan model in 2035. These changes are reflected in the link volumes and turning movement counts utilized in the Tier 1 Scenario analysis, as discussed further later in this memo.

B. Study Intersections

Fifty intersections were selected for analysis under the Tier 1 Scenario (of the 125 intersections studied in the *Existing and Future Conditions Report*). Intersections were selected based on several factors, including:

- Intersections that were not projected to meet standards under the 2035 Low Build
- Intersections that were impacted by a Low Build project not included in the Tier 1 Scenario (i.e. in the vicinity of the Sunnybrook Extension)

The lane configurations and traffic control devices at the study intersections assumed for the Tier 1 Scenario are shown in *Appendix C*.

III. KEY FINDINGS

The operational analysis assessed operations at both the study intersections and roadway segments in the County. The key findings from both analyses are detailed below.

A. Intersection Operations

The intersection operations under the Tier 1 Scenario are shown in the figures in *Appendix D* and summarized in Table 2.

Table 2 Tier 1 Scenario Study Intersection Operations

ID	Intersection	Jurisdiction	Performance Standard	Low Build Project?	Meets Standard in 2035 Low Build?	Tier 1 Project?	Meets Standard in Tier 1 Scenario?
104	SE Johnson Creek Blvd/89th Ave	County	v/c = 1.1	No	No	2114	Yes
105	SE Johnson Creek Blvd/82nd Ave (OR 213)	ODOT	v/c = 0.99	No	No	U659	Yes (v/c=0.99)
107	SE Johnson Creek Blvd/I-205 SB Ramps	ODOT	v/c = 0.85	No	Yes	U087	Yes
116	SE King Rd/SE Fuller Rd	County	v/c = 0.99	No	No	U092	Yes
123	SE Lake Rd/SE International Way	County	v/c = 0.99	No	No	2115	Yes (v/c=0.99)
124	SE Harmony Rd/SE Linwood Ave	County	v/c = 0.99	No	No	U103	No (v/c=1.41)
125	SE Harmony Rd/SE Fuller Rd	County	v/c = 1.1	No	Yes		Yes (v/c=0.93)
126	SE Sunnyside Rd/SE Harmony Rd/SE 82nd Ave (OR 213)	ODOT	v/c = 1.1	No	Yes		Yes (v/c=0.99)
130	SE Sunnyside Rd/I-205 SB Ramps	ODOT	v/c = 0.85	No	No		Yes (v/c=0.81)
131	SE Sunnyside Rd/I-205 NB Ramps	ODOT	v/c = 0.85	No	No		Yes
136	SE Sunnybrook Blvd/SE 82nd Ave (OR 213)	ODOT	v/c = 0.99	Yes	No		Yes
138	SE Sunnybrook Blvd/I-205 NB Ramps	ODOT	v/c = 0.85	No	No		Yes
140	OR 224/SE Rusk Rd	ODOT	v/c = 0.99	No	No		Yes (v/c=0.97)
141	OR 224/SE Lake Rd/SE Webster Rd	ODOT	v/c = 0.99	No	No	2118	No (v/c=1.30)
143	OR 224/SE Johnson Rd	ODOT	v/c = 0.99	No	No	U928	Yes
144	SE Sunnyside Rd/SE 122nd Ave	County	v/c = 0.99	No	No	U123?	Yes
146	SE Sunnyside Rd/SE 142nd Ave	County	v/c = 0.99	No	No		Yes
149	SE Sunnyside Rd/SE 172nd Ave	County	v/c = 0.99	No	Yes		Yes
153	OR 212/I-205 SB Ramps	ODOT	v/c = 0.85	No	No		Yes
155	OR 212/SE 82nd Dr	ODOT	v/c = 0.99	Yes	Yes		Yes (v/c=0.93)
157	OR 224/SE Hubbard Rd/135th Ave	ODOT	v/c = 0.99	No	No	2121	Yes (v/c=0.91)
158	OR 224/SSE 142nd Ave	ODOT	v/c = 0.99	No	No		Yes
159	OR 212/OR 224	ODOT	v/c = 0.99	No	No	U019 U915	Yes (v/c=0.95)
161	OR 212/SE 172nd Ave	ODOT	v/c = 0.99	Yes	No	U019	No (v/c=1.03)
165	OR 224/Springwater Rd	ODOT	v/c = 0.99	No	No	U915	Yes
201	SE Park Ave/SE River Rd	County	v/c = 0.99	No	Yes		Yes
219	SE Thiessen Rd/SE Hill Rd	County	v/c = 0.99	No	No		Yes
220	SE Thiessen Rd/SE Aldercrest Rd	County	v/c = 0.99	No	No	2113	Yes
223	SE Roots Rd/SE Webster Rd	County	v/c = 0.99	No	No		Yes
224	SE Jennings Ave/SE Webster Rd	County	v/c = 0.99	No	No		Yes
301	SW Childs Rd/SW Stafford Rd	County	LOS = D	No	No	U168 U169	Yes
302	SW Borland Rd/SW Stafford Rd	County	LOS = D	No	No	U167 U168	Yes
303	SW Mountain Rd/SW Stafford Rd	County	LOS = D	No	No		Yes

ID	Intersection	Jurisdiction	Performance Standard	Low Build Project?	Meets Standard in 2035 Low Build?	Tier 1 Project?	Meets Standard in Tier 1 Scenario?
401	Clackamas River Drive/Springwater Rd	County	LOS =D	No	No	U184 2107	Yes
402	S. Redland Rd/S. Holly Lane	County	V/C = 0.99	No	No	U197	Yes
403	S. Redland Rd/S. Ferguson Rd	County	LOS = D	No	No	U199	Yes
406	S. Henrici Rd/OR 213	ODOT	V/C = 0.75	No	No	2109	No (v/c=0.84)
408	South End Rd./OR 99E	ODOT	V/C = 0.75	No	No		Yes (LOS=F) (v/c=0.84)
409	S. Leland Rd/OR 213	ODOT	V/C = 0.80	No	No	2110 U441	Yes
412	Arndt Rd/NE Airport Rd	County	LOS = D	No	Yes		Yes (LOS=D) (v/c=0.97)
414	Arndt Rd/Knights Bridge Rd	County	LOS = D	No	Yes		Yes
415	Arndt Rd/S. Barlow Rd	County	LOS = D	No	Yes		Yes
416	OR 99E/S. Barlow Rd	ODOT	V/C = 0.75	No	No	2111	Yes
418	S. Spangler Rd/OR 213	ODOT	V/C = 0.75	No	No	1007	Yes
419	Mulino Rd/OR 213	ODOT	V/C = 0.80	No	Yes	1090	Yes
420	S. Union Mills Rd/OR 213	ODOT	V/C = 0.75	No	Yes	U302a	Yes
422	S. Union Mills Rd/S. Beaver creek Rd	ODOT	V/C = 0.75	No	No	U302a	Yes
501	OR 212/SE 282nd Ave	ODOT	v/c = 0.70	No	No		No (v/c=1.07)
502	OR 224/SE 232nd Ave	ODOT	v/c = 0.75	Yes	No	2106	Yes
503	OR 224/OR 211	ODOT	v/c = 0.80	No	No	U427	Yes

As shown in the figures and table above, forty-five of the study intersections meet standards under the Tier 1 Scenario. The majority of these intersections are directly impacted by a Tier 1 project, i.e. the addition of turn lanes or a change in traffic control. Others experience a change in projected volumes (either due to nearby improvements or model changes, as discussed above) that cause them to operate within standards. Five of the intersections do not meet standards under the Tier 1 Scenario. None of these intersections meet standards under the 2035 Low Build. Four of these are impacted by a Tier 1 project, but still fall short of standards.

B. Roadway Segment Analysis

How does this section relate to the project out side of cities and what are our recommendation for the problem sections of the road system

The roadway segment volumes provide a sense of the demand for travel on roadways. Figures are provided in *Appendix E* illustrating the roadway link volumes from the weekday evening peak hour for the Tier 1 Scenario. Overall, the figures reflect a reduction in link volumes during the weekday PM peak hour, compared to the 2035 Low Build and 2035 Full Build scenarios. This reflects the changes in the

model described above, including a reduction in projected household growth and automobile travel. The model used to develop the volumes makes its forecast for the PM peak hour, which has a higher percentage of total trips occurring by transit (compared to total daily trips). This could also contribute to the overall reduction in link volumes.

The level of congestion experienced on roadway segments was estimated using the roadway segment volumes from the Metro base model and the roadway segment capacity. The volume was compared to the capacity to calculate a volume-to-capacity ratio that is used to estimate the level of congestion. Figures are provided in *Appendix E* illustrating the relative congestion during the Tier 1 Scenario weekday evening peak hour on roadways based on the estimated roadway segment volumes and capacity. The figures reflect an overall reduction in congestion compared to the Low Build Scenario (particularly on I-205, OR 213, OR 212, OR 43, Carver Bridge and SE Sunnyside Rd). The Tier 1 Scenario segment congestion analysis shows only a few isolated points of congestion, including several roadways within Oregon City, on Arndt Rd, portions of I-205, and a couple of roadway segments within Damascus.

IV. RECOMMENDATIONS

The intersections that do not meet standards under the Tier 1 Scenario were further assessed to determine what changes to the TSP project lists are needed to address these deficiencies. The draft Tier 2 (Preferred Capital Projects) and Tier 3 (Long-Term Capital Project Needs) lists were reviewed to assess whether there are any capacity projects on these lists that would address the intersection deficiencies. The results of this assessment are shown in Table 3.

Table 3 Intersections that do not meet Standards under the Tier 1 Scenario

ID	Intersection	Performance Standard	Tier 1 Project?	Meets Standard in Tier 1 Scenario?	Tier 2 or Tier 3 Project?	Meets Standard with Tier 2 or Tier 3 Project?
124	SE Harmony Rd/SE Linwood Ave	v/c = 0.99	U103 (Grade-sep RR crossing)	No (v/c=1.41)	No	No (needs additional improvements)
141	OR 224/SE Lake Rd/SE Webster Rd – ODOT Intersection	v/c = 0.99	2118 (second WBL turn lane)	No (v/c=1.30)	No	No (needs additional NBL and SBL turn lanes, NBR turn lane)
161	OR 212/SE 172nd Ave – ODOT Intersection	v/c = 0.99	U019 (Sunrise imp)	No (v/c=1.03)	2122 (Second EBL turn lane) - Medium	Yes
406	S. Henrici Rd/OR 213 – ODOT Intersection	V/C = 0.75	2109 (traffic sig or rdabout)	No (v/c=0.84)	No	No (needs additional through lane on OR 213)
501	OR 212/SE 282nd Ave – ODOT Intersection	v/c = 0.70		No (v/c=1.07)	2105 (Second SBR turn lane) – Tier 3	No (needs second EBL, additional through lane on OR 212)

Each of the intersections is discussed in more detail below:

1. SE Harmony Rd/SE Linwood Ave (124)

Project U103 creates a grade-separated railroad crossing at the intersection of SE Harmon Rd/SE Linwood Ave. With this improvement, the intersection is projected to operate at a v/c ratio of 1.41, which is well over standards. The projected volumes show a large number of vehicles traveling between the south leg (SE Harmony Rd) and east leg of the intersection (SE Harmony Rd). **The project team recommends modifying the description of project U103 to include appropriate intersection improvements at SE Harmony Rd/SE Linwood Ave.** Further study is needed to determine the appropriate intersection improvements. Potential treatments include additional turn-lanes or a reconfiguration of the intersection to two T-intersections (so that SE Railroad Ave and SE Linwood Ave converge before intersecting with SE Harmony Rd).

2. OR 224/SE Lake Rd/SE Webster Rd (141) – ODOT Intersection

Project 2118 adds a second left-turn lane on westbound OR 224 at SE Lake Rd/SE Webster Rd. With this improvement, the intersection is projected to operate at a v/c ratio of 1.30, well over the standard of 0.99. **The project team recommends modifying the description of project 2118 to include additional intersection improvements,** including a second left-turn lane and right-turn lane on northbound SE Webster Rd and a second left-turn lane on southbound SE Lake Rd.

3. OR 212/SE 172nd Ave (161) – ODOT Intersection

The intersection of OR 212/SE 172nd Ave operates just over the v/c ratio standard of 0.99. Project 2122, which adds a second eastbound left-turn lane on OR 212, is currently ranked as medium priority on the ODOT project list. This project would improve operations at the intersection to bring it within standards. **Therefore, the project team recommends moving project 2122 up in priority to high priority.**

4. S. Henrici Rd/OR 213 (406) – ODOT Intersection

Project 2109 changes the traffic control at S. Henrici Rd/OR 213 to a signal or roundabout. With either improvement, the intersection operates over-capacity, largely due to the heavy volumes of northbound and southbound vehicles. As a signal, the intersection operates at a level-of-service (LOS) B, a delay of 10.1 seconds, and with a v/c ratio of 0.84. Therefore, while the intersection operates well in terms of the LOS and delay, it does not meet the v/c ratio standard of 0.75. **Therefore, the project team recommends either adjusting the performance standard at this intersection or modifying the description of project 2109 to include additional intersection improvements,** such as auxiliary northbound and southbound through lanes.

5. OR 212/SE 282nd Ave (501) – ODOT Intersection

The intersection of OR 212/SE 282nd Ave operates at a v/c ratio of 1.07, above the standard of 0.70. Project 2105, which is currently in Tier 3, adds a second right-turn lane on southbound 282nd Avenue.

With this project, the intersection still operates well above the v/c standard of 0.70, largely due to the heavy volume of vehicles on OR 212 using a single through lane. **Therefore, the project team recommends either adjusting the performance standard at this intersection or modifying the description of project 2109 to include additional intersection improvements**, such as auxiliary eastbound and westbound through lanes and an additional eastbound left-turn lane.

Additional Recommendations

Several of the intersections in the vicinity of the Clackamas Town Center (i.e. SE Harmony Rd/SE Fuller Rd, SE Sunnyside Rd/SE Harmony Rd/SE 82nd Ave (OR 213), and SE Sunnyside Rd/I-205 SB Ramps) operate just within volume to capacity (v/c) standards. While improvements were considered for the regional center in earlier stages of the TSP Update process (i.e. the Sunnybrook Extension and Harmony widening), they were removed from the project lists based on feedback from the PAC, TAC, and public. Therefore, it is unlikely these intersections can support much additional growth in the Town Center beyond what is included in the model forecasts and new development under current regulations will become increasingly challenging. Thus, it is recommended that the County consider modifying the current v/c ratio standard and developing alternative performance standards for the regional center (as previously recommended in the *Dynamic Traffic Assignment Memo*).

V. NEXT STEPS

The results of the Tier 1 Scenario operational analysis and key findings will be reviewed by the TAC on July 18th, 2013. The TAC will discuss any changes that should be made to the 20-Year Capital Projects or adjustments in project priorities that should be made as a result of the findings. In addition, the TAC will consider the feedback gathered during public outreach activities from this spring, including presentations at community and business meetings, and an online “virtual” open house. The TAC will develop a set of recommendations and draft 20-Year Capital Projects list.

The TAC recommendations and TSP package to be sent to the Planning Commission will be reviewed by the PAC during Meeting #6 on August 20th. Public review of the final plan will occur October through December when it will be presented to the Planning Commission and Board of County Commissioners, respectively.

LIST OF APPENDICES:

A: PAC Recommended Projects – Tables and Maps

B: Metro Modeling Materials

C: Tier 1 Scenario Lane Configurations and Traffic Control Devices at Study Intersections

D: Tier 1 Scenario Intersection Operations

E: Tier 1 Scenario Roadway Segment Analysis

Table 2: Projects with Changes in Recommended Priority Since PAC Meeting #5C

***Note:** Projects are organized by geographic area, then by TSP Update ID.

Red text indicates changes made post-GAPS #3 Meetings

Blue text indicates change made post PAC #5B or #5C Meeting

Highlight indicates change made post PAC #5D Meeting

Blue indicates change made post TAC #8 Meeting

1000 - 1999: Public Suggested Projects

2000 - 2999: New Identified Projects

U000 - U999: Previously Planned Projects

***Note:** Projected Future Demand based on 2035 Low Build volumes from Metro Model.

15,000 assumed for multiuse path or bike/ped bridge

TSP Update ID	Geographic Area	Project Name / Street Name	Segment / Locations	Project Description	Project Category	Projected Future Demand*	Planning Level Cost Estimate	GAPS Recommendation	TAC Recommendation	PAC Recommendation	Draft Recommendation to the Planning Commission	Change in Priority - Explanation
1081	CRC	Harmony Rd	Railroad Ave /Linwood Ave / Harmony Rd intersection	Provide a bike/pedestrian overpass over railroad in vicinity of Lake Rd and Railroad Ave	Upgrade - Active Transportation	23,000	\$1,960,000	Tier 3	Tier 3	Tier 3	Remove	Project removed - turn lanes, signal adjustments and bike/ped facilities will be included as part of project U103 (grade-separated railroad crossing).
2026	CRC	Flavel Dr	Alberta Ave to County boundary	Add bikeways	Upgrade - Active Transportation	2,500	\$2,410,000	Tier 3	Tier 3	Tier 3	Tier 1	Project moved up in priority - TAC supports Tier 1, minor gap in bikeways that would benefit the network greatly.
2092	CRC	122nd Ave	Eagle Glen Dr to Hubbard Rd	Perform road safety audit or transportation safety review to identify appropriate safety improvements for the corridor	Safety	8,000	\$60,000	Tier 2	Tier 1	Tier 2	Tier 1	Project moved up in priority - TAC supports Tier 1; inexpensive project with significant safety benefits
2116	CRC	Harmony Rd	Harmony Rd / Linwood Ave intersection	Add second left-turn lane on Harmony Rd, adjust signal timing	Upgrade - Vehicle Capacity	29,000	\$30,000,000	Tier Remove	Tier Remove	Tier 3	Remove	Project removed - turn lanes and signal adjustments will be included as part of project U103 (grade-separated railroad crossing).
2807	CRC	Harmony Rd	OR 213 to OR 224	Bikeways and pedways	Upgrade - Active Transportation	25,000	\$9,520,000				Tier 1	Project added - replaces bike/ped improvements included in U104 (Harmony Rd widening, removed)
2813	CRC	Sunnybrook Blvd	Sunnybrook Blvd/Oak Bluff intersection	Install flashing yellow arrow for left-turns on eastbound and westbound approaches.	Upgrade	34,000	\$2,000				Tier 1	Project added - provides low cost improvement at intersection.
2816	CRC	Sunnybrook Blvd	Sunnybrook Blvd / Sunnyside Rd intersection	Rebuild northbound approach to allow dual right-turn on red; install bicycle signal.	Upgrade	34,000	\$1,250,000				Tier 1	Project added - improves operations at intersection; projected to operate near or over capacity.
2817	CRC	Harmony Rd / Sunnyside Rd	Harmony Rd / Sunnyside Rd / OR 213 intersection	Extend queue storage on westbound approach and rebuild median; extend queue storage on eastbound approach and install median; convert to right-in-right-out accessess on frontage road.	Upgrade	25,000	\$1,250,000				Tier 1	Project added - improves operations at intersection and on corridor, replaces U104 (Harmony Rd widening, removed)
2818	CRC	Overland St	Overland St / OR 213 intersection	Install flashing yellow arrow for left-turns on northbound and southbound approaches.	Upgrade	23,000	\$2,000				Tier 1	Project added - provides low cost improvement at intersection.
U097	CRC	Causey Ave	Fuller Rd to I-205	Add bikeways and shared facility markings	Upgrade - Active Transportation	3,000	\$50,000	Tier 2	Tier 1	Tier 2	Tier 1	Project moved up in priority - public comment and TAC support Tier 1; important for bike connectivity.
U107	CRC	Phillips Creek Multi-Use Path	Causey Ave to North Clackamas Regional Parks Trail	Construct multi-use path	Multi-Use Path	15,000	\$3,110,000	Tier 1	Tier 1	Tier 1	Tier 3	Project moved down in priority - Parks and Recreation supports Tier 3; other trails are a higher priority.
U132	CRC	Mather Rd	122nd Ave to 132nd Ave	Construct new 2 lane roadway with pedways and bikeways	New Roadway	3,000	\$7,280,000	Tier 3	Tier 3	Tier 3	Tier 3	
U135	CRC	142nd Ave	Sunnyside Rd to OR 212	Add bikeways and pedways	Upgrade - Active Transportation	9,000	\$13,710,000	Tier 2	Tier 2	Tier 2	Tier 1	Project moved up in priority - TAC supports Tier 1; provides needed connectivity improvements.
U919	CRC	Scouters Mountain / Mt Scott Loop Trail	Loop trail through Happy Valley, Damascus, Clackamas County and Portland	Construct multi-use path consistent with the Connecting Clackamas Plan	Multi-Use Path	15,000	\$17,060,000	Tier 3	Tier 3	Tier 3	Tier 2	Project moved up in priority - Parks and Recreation supports higher tier; project is further along in planning than other trail projects.
U940	CRC	Southwest Connector Multi-Use Path	Aquatic center access road to 82nd Ave	Construct multi-use path	Multi-Use Path		\$340,000				Tier 1	Project added - replaces bike/ped improvements included in U001(Sunnybrook Extension, removed) and supplements U924 (Tickle Creek Trail, Tier 3); provides needed connectivity improvements.

***Note:** Projects are organized by geographic area, then by TSP Update ID.

Red text indicates changes made post-GAPS #3 Meetings

Blue text indicates change made post PAC #5B or #5C Meeting

Highlight indicates change made post PAC #5D Meeting

Blue indicates change made post TAC #8 Meeting

1000 - 1999: Public Suggested Projects

2000 - 2999: New Identified Projects

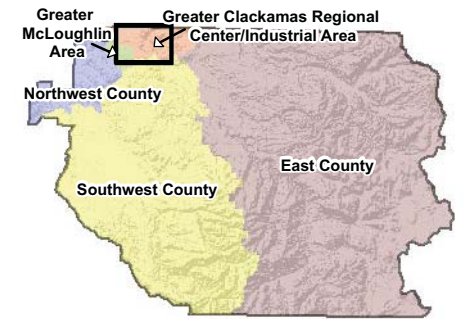
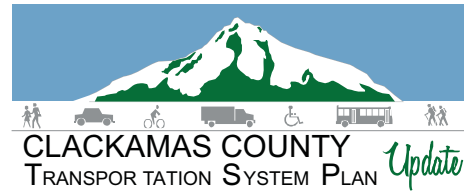
U000 - U999: Previously Planned Projects

***Note:** Projected Future Demand based on 2035 Low Build volumes from Metro Model.

15,000 assumed for multiuse path or bike/ped bridge

Suggested Tier	PAC Rec	Draft Rec to the Planning Commission
Tier 1	\$ 388,155,000	\$ 422,349,000
Tier 2	\$ 389,990,000	\$ 388,680,000
Tier 3	\$ 2,188,269,000	\$ 2,165,639,000

TSP Update ID	Geographic Area	Project Name / Street Name	Segment / Locations	Project Description	Project Category	Projected Future Demand*	Planning Level Cost Estimate	GAPS Recommendation	TAC Recommendation	PAC Recommendation	Draft Recommendation to the Planning Commission
1043	CRC	Boyer Dr / 85th Ave / Spencer Dr	OR 213 to I-205 bike path	Add bikeways	Upgrade - Active Transportation	5,000	\$40,000	Tier 2	Tier 1	Tier 1	Tier 1
1073	CRC	Monterey Ave	Stevens Rd to Bob Schumacher Rd	Construct collector roadway. Include bikeways and pedways	New Roadway	4,500	\$6,660,000	Tier 1	Tier 1	Tier 1	Tier 1
1080	CRC	Deer Creek Ln	Johnson Rd to Oak Bluff	Extend eastward for a few hundred feet and connect to Costco loop road (Oak Bluff Rd / 84th Ave)	New Roadway	1,000	\$5,460,000	Tier 3	Tier Remove	Tier 3	Tier 3
1081	CRC	Harmony Rd	Railroad Ave /Linwood Ave / Harmony Rd intersection	Provide a bike/pedestrian overpass over railroad in vicinity of Lake Rd and Railroad Ave	Upgrade - Active Transportation	23,000	\$1,960,000	Tier 3	Tier 3	Tier 3	Remove
1083	CRC	Service road (OSP CSO and Precision Castparts)	Lawnfield Rd and 97th Ave	Extend to link with realignments of Lawnfield and 97th	New Roadway	1,000	\$9,660,000	Tier 3	Tier Remove	Tier 3	Tier 3
2026	CRC	Flavel Dr	Alberta Ave to County boundary	Add bikeways	Upgrade - Active Transportation	2,500	\$2,410,000	Tier 3	Tier 3	Tier 3	Tier 1
2048	CRC	Hubbard Rd	122nd Ave to 132nd Ave	Fill gaps in pedways	Upgrade - Active Transportation	3,000	\$1,650,000	Tier 2	Tier 2	Tier 2	Tier 2
2049	CRC	92nd Ave	Johnson Creek Blvd to Emmert View Ct	Fill gaps in pedways	Upgrade - Active Transportation	11,000	\$460,000	Tier 1	Tier 1	Tier 1	Tier 1
2050	CRC	King Rd	Milwaukie to 82nd Ave	Fill gaps in pedways	Upgrade - Active Transportation	14,000	\$5,640,000	Tier 3	Tier 3	Tier 3	Tier 3
2051	CRC	Michael Dr	72nd to Fuller Ave	Fill gaps in pedways	Upgrade - Active Transportation	2,500	\$2,620,000	Tier 3	Tier 3	Tier 3	Tier 3
2052	CRC	72nd Ave Multi-Use Path Connection	Thompson Rd to Harmony Rd	Construct multi-use path	Multi-Use Path	15,000	\$1,140,000	Tier 1	Tier 1	Tier 1	Tier 1
2054	CRC	Lake Rd	Milwaukie City limits east to OR 224	Fill gaps in pedways	Upgrade - Active Transportation	9,000	\$5,530,000	Tier 2	Tier 2	Tier 2	Tier 2
2055	CRC	Johnson Rd	SE Lake Rd to North Clackamas Park Trail	Identify bike/ped connections to address gaps along 82nd Ave	Study	2,500	\$200,000	Tier 3	Tier 1	Tier 1	Tier 1
2090	CRC	Johnson Creek Blvd	55th Ave to I-205	Perform road safety audit or transportation safety review to identify appropriate safety improvements for the corridor	Safety	21,000	\$60,000	Tier 2	Tier 1	Tier 1	Tier 1
2091	CRC	Sunnyside Rd	93rd Ave to 126th Ave	Perform road safety audit or transportation safety review to identify appropriate safety improvements for the corridor	Safety	38,000	\$60,000	Tier 1	Tier 1	Tier 1	Tier 1
2092	CRC	122nd Ave	Eagle Glen Dr to Hubbard Rd	Perform road safety audit or transportation safety review to identify appropriate safety improvements for the corridor	Safety	8,000	\$60,000	Tier 2	Tier 1	Tier 2	Tier 1
2114	CRC	Johnson Creek Blvd	Johnson Creek Blvd near 79th Pl	Add signal to either Johnson Creek Blvd and 79th Pl or 80th Ave	Upgrade - Vehicle Capacity	22,000	\$400,000	Tier 1	Tier 1	Tier 1	Tier 1



Legend

County Projects

Recommended Tier

- Tier 1
- Tier 2
- Tier 3
- - - - Remove

ODOT Projects

Recommended Tier

- High
- Medium
- Low
- - - - Remove

- - - - Multi-Use Path

- Incorporated Areas

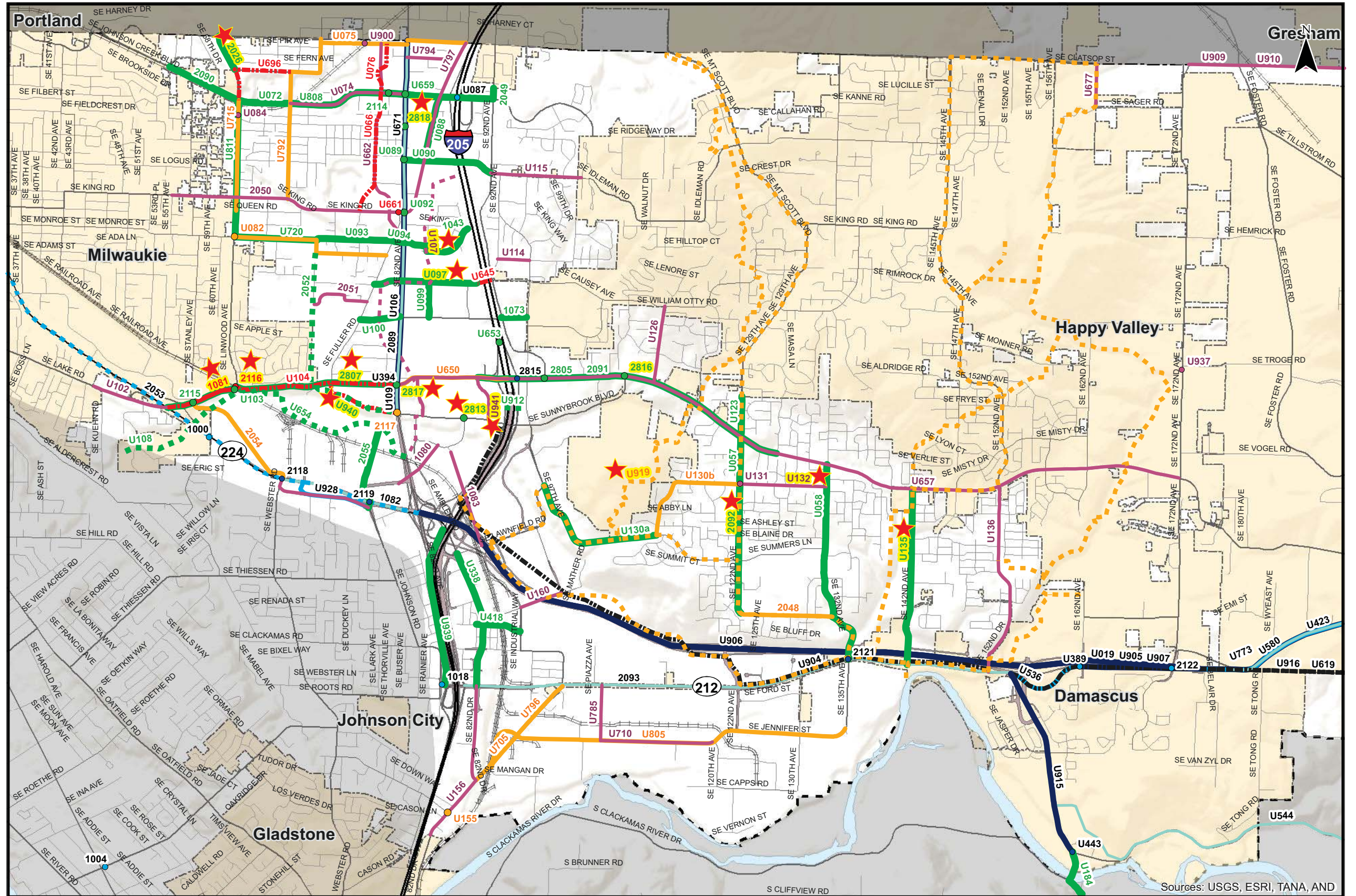
- County Boundary

- UGB

★ Indicates Project for Discussion

0 1 Miles

Coordinate System:
NAD 1983 HARN StatePlane Oregon North FIPS 3601 Feet Int
Data Source:
Clackamas County, Metro Data Resouce Center



**Master List Projects - Draft Recommendation to the Planning Commission
Greater Clackamas Regional Center / Industrial Area**

Figure
C MP

H:\profile\11732 - Clackamas County TSP\gis\Master_List_Mapping\July 2013 Master Projects Mapping.mxd

Sources: USGS, ESRI, TANA, AND

***Note:** Projects are organized by geographic area, then by TSP Update ID.

Red text indicates changes made post-GAPS #3 Meetings

Blue text indicates change made post PAC #5B or #5C Meeting

Highlight indicates change made post PAC #5D Meeting

Blue indicates change made post TAC #8 Meeting

***Note:** Projected Future Demand based on 2035 Low Build volumes from Metro Model.

Suggested Tier	Total Cost
High	\$ 781,570,000
Medium	\$ 686,710,000
Low	\$ 646,315,000

1000 - 1999: Public Suggested Projects

2000 - 2999: New Identified Projects

U000 - U999: Previously Planned Projects

15,000 assumed for multiuse path or bike/ped bridge

TSP Update ID	Geographic Area	Project Name / Street Name	Segment / Locations	Project Description	Project Category	Projected Future Demand*	Planning Level Cost Estimate	Draft Recommendation to the Planning Commission	Simplified ODOT Comments	Other Notes
1000	CRC	OR 224	Milwaukie Expressway/ Rusk Rd off-ramp	Extend right-turn lane on Milwaukie Expressway	Safety	35,000	\$290,000	Medium	Support Project but no funding identified	
1004	CRC	OR 99E	OR 99E / Jennings Ave intersection	Determine safe connection of Trolley Trail at OR 99E / Jennings Ave intersection	Multi-Use Path	33,000	\$100,000	Medium	Recent Project may have addressed issue	
1018	CRC	I-205 / OR 212/224 Interchange	In vicinity of Roots Rd and McKinley Ave	Connect bikeways	Upgrade - Active Transportation	25,000	\$70,000	Medium	Planned but unfunded	
1082	CRC	OR 224 (Milwaukie Expressway)	Webster Rd and 82nd Ave	Provide frontage connection on the north side of OR 224	Upgrade - Vehicle Capacity	54,000	\$12,710,000	Low	Support Project but no funding identified	
2053	CRC	OR 224	Milwaukie City limits to I-205	Construct multi-use path as parallel route to OR 224	Multi-Use Path	34,000	\$5,870,000	Medium	Support Project but no funding identified	Change description to just multi-use path (remove pedways).
2089	CRC	OR 213 (82nd Ave)	Luther Road to Sunnybrook Blvd	Perform road safety audit or transportation safety review to identify appropriate safety improvements for the corridor	Safety	28,000	\$90,000	Low	Recent Project may have addressed issue	
2093	CRC	OR 212	I-205 to OR 224	Perform road safety audit or transportation safety review to identify appropriate safety improvements	Safety	25,000	\$120,000	Low	Recommend Removal - Not A Priority Location	
2118	CRC	OR 224	OR 224 / Lake Rd / Webster Rd intersection	Add second left-turn lane on westbound OR 224	Upgrade - Vehicle Capacity	42,000	\$1,140,000	High	Support Project but no funding identified	
2119	CRC	OR 224	OR 224 / Johnson Rd intersection	Add second left-turn lane on westbound OR 224	Upgrade - Vehicle Capacity	52,000	\$2,250,000	High	Support Project but no funding identified	
2121	CRC	OR 224	OR 224 / Hubbard Rd / 135th Ave intersection	Add intersection improvements, including right-turn lanes	Upgrade - Vehicle Capacity	27,000	\$860,000	High	Funded Safety Project	
2122	CRC	OR 212	OR 212 / 172nd Ave intersection	Add second eastbound left-turn lane	Upgrade - Vehicle Capacity	37,000	\$1,140,000	Medium	Planned but unfunded	
U019	CRC	Sunrise Phase 2 Construction	I-205 to 172nd Ave	Construct improvements in the Sunrise corridor consistent with the supplemental EIS	Upgrade	44,000	\$250,000,000	Medium	Planned but unfunded	
U087	CRC	Johnson Creek Blvd	I-205 / Johnson Creek Blvd interchange	Add loop ramp and northbound on-ramp; realign southbound off-ramp and install dual right-turn lanes	Upgrade - Vehicle Capacity	57,000	\$9,800,000	Medium	Planned but unfunded	
U106	CRC	OR 213	Clatsop St to Sunnyside Rd	Widen to add sidewalks, lighting, central median, planting strips and landscaping; fill gaps in the bike and ped network	Upgrade - Active Transportation	29,000	\$8,500,000	Low	RTP Financially Constrained List Project	
U109	CRC	OR 213	Sunnyside Rd to Sunnybrook Rd	Widen to 7 lanes with boulevard treatments	Upgrade	33,000	\$5,320,000	Medium	Planned but unfunded	
U389	CRC	OR 212	OR 212 / SE 162nd Ave intersection	Add left-turn pockets and traffic signal	Upgrade - Vehicle Capacity	8,000	\$770,000	Medium	Planned but unfunded	
2815	CRC	Sunnyside Rd	I-205 / Sunnyside Road interchange	Add dual northbound right-turns; install bike signal.	Upgrade	25,000	\$1,500,000	High		
U394	CRC	OR 213	OR 213 / Harmony Rd / Sunnyside Rd intersection	Add bikeways, pedways, dual northbound and southbound left-turn lanes, and lighting; convert driveways north of intersection to RIRO	Upgrade	32,000	\$4,820,000	Medium	RTP Financially Constrained List Project	
U418	CRC	Tolbert St Overcrossing	82nd Dr to Industrial Way	Construct new 2 lane overcrossing with bikeways and pedways	New Roadway	7,500	\$9,210,000	NA	RTP Financially Constrained List Project	

TSP Update ID	Geographic Area	Project Name / Street Name	Segment / Locations	Project Description	Project Category	Projected Future Demand*	Planning Level Cost Estimate	Draft Recommendation to the Planning Commission	Simplified ODOT Comments	Other Notes
U423	CRC	OR 212	SE 162nd to Anderson Rd	Add bikeways, pedways, and landscaped buffer; widen to 6 lanes within Happy Valley; add center turn lane within Damascus	Upgrade	34,000	\$66,880,000	High	Planned but unfunded	
U443	CRC	OR 224	Springwater Rd / OR 224 intersection	Add signal and turn lanes on all approaches	Upgrade	29,000	\$1,060,000	High	Support Project but no funding identified	
U536	CRC	OR 212	Rock Creek Junction to Damascus	Construct climbing lane	Upgrade - Vehicle Capacity	9,000	\$1,390,000	Medium	Planned but unfunded	
U544	CRC	OR 224	Springwater Rd to 232nd Dr	Shoulder widening, horizontal realignment, realignment of roadway to bluff	Safety	15,000	\$24,550,000	Low	Move to Damascus TSP	
U580	CRC	OR 212	Sunrise JTA mainline to 257th Ave	Widen to 4 lanes with bike lanes, planted median and turn pockets at signalized locations.	Upgrade	31,000	\$118,510,000	Medium	RTP Planned and Funded Project	
U619	CRC	Sunrise Corridor Unit 2	172nd Ave to US 26	Construct new 4 lane roadway with interchanges	New Roadway	20,800	\$248,970,000	Remove	Recommend Removal	
U671	CRC	OR 213	Sunnybrook Blvd to Portland City Limits	Extend fiberoptic communications, CCTV at key intersections and adaptive signal timing	ITS	27,000	\$2,180,000	High	Planned but unfunded	
U773	CRC	OR 212	Armstrong Cr to US 26	Add shoulders and bikeways	Upgrade - Active Transportation	31,000	\$32,600,000	Low	Planned but unfunded	
U904	CRC	Sunrise Multi-use Path	122nd to Rock Creek Junction	Construct multi-use path to / from I-205 paralleling the Sunrise project	Multi-Use Path	15,000	\$1,210,000	Remove	RTP Financially Constrained List Project	Remove project, as it will be included as part of the Sunrise Corridor and should not be carried as a separate project.
U905	CRC	Sunrise Phase 1 Preliminary Engineering	Webster Rd/ OR 224 to 172nd Ave / OR 212	Preliminary engineering and Environmental Impact Statement (EIS) from Webster Rd to 172nd Ave	Other	44,000	\$37,500,000	High	RTP Financially Constrained List Project	
U906	CRC	Sunrise Phase 1 Right-of-Way	Webster Rd/ OR 224 to 172nd Ave / OR 212	Acquire right-of-way to accommodate six through lane expressway plus auxiliary lanes	Other	44,000	\$170,000,000	High	RTP Financially Constrained List Project	
U907	CRC	Sunrise JTA	I-205 to 122nd Ave / OR 212/224	Construct improvements consistent with the supplemental EIS, 2-lane mainline; new O'Xing of I-205 connecting 82nd Ave with 82nd Dr; add UPRR viaduct, preliminary engineering at 162nd and OR 212	New Roadway	44,000	\$130,000,000	High	RTP Financially Constrained List Project	
U912	CRC	I-205 Multi-Use Path Connection	Between Sunnyside Rd and Sunnybrook Blvd	Construct ADA compliant access to the commercial area from the I-205 Multi-Use Path	Multi-Use Path	15,000	\$140,000	Moved to County List	Planned but unfunded	Project moved to County list
U915	CRC	OR 224	Rock Creek Junction to Midway St	Widen to four lanes; add bikeways.	Upgrade	29,000	\$29,240,000	High	Comment Missing but expect -- RTP Financially Constrained List Project	
U916	CRC	Sunrise Parkway	Rock Creek Junction to US 26	Preliminary engineering and Environmental Impact Statement (EIS)	Other	44,000	\$10,000,000	Remove	Recommend Removal	
U928	CRC	OR 224	Lake Rd / Johnson Rd / Pheasant Ct	Realign Lake Rd / Johnson Rd to provide southern OR 224 access via Pheasant Ct; add turn lanes at OR 224 / Pheasant Ct intersection; close access at Lake / Webster south of OR 224	Upgrade	13,000	\$4,320,000	Medium	Support Project but no funding identified	
1011	E	US 26	US 26 / Haley Rd intersection	Install traffic signal, prohibit left-turns off US 26, install ramp over US 26 for left-turns	Upgrade	41,000	\$875,000	Low	Not Planned or Funded	
1020	E	OR 211	OR 211 / Judd Rd intersection	Realign roadway	Safety	10,000	\$3,700,000	Moved to County List	Not Planned or Funded	
1058	E	OR 224	In Mount Hood National Forest	Pave 8 additional miles east into Mount Hood National Forest	New Roadway	1,000	\$58,360,000	Remove	Recommend Removal	
1061	E	OR 211	Bornstedt Rd to City of Sandy	Add shoulders and bikeways	Upgrade	5,000	\$3,390,000	Low	Needed Project No Funding Identified	
1075	E	OR 224	OR 224 and US 26	Extend OR 224 to US 26 via Skyline Road	New Roadway	1,000	\$55,120,000	Remove	Recommend Removal	
1100	E	US 26	US 26 / Haley Rd intersection	Install traffic signal	Upgrade	41,000	\$200,000	Low	ODOT Does not support rural signals, not funded	
2064	E	OR 211	OR 224 to eastbound US 26	Perform road safety audit or transportation safety review to identify appropriate safety improvements	Safety	11,000	\$110,000	Low	Recommend Removal - Not A Priority Location	
2065	E	US 26	Kelso Rd to Duncan Rd	Perform road safety audit or transportation safety review to identify appropriate safety improvements	Safety	41,000	\$30,000	Low	Recommend Removal - Not A Priority Location	
2066	E	US 26	Duncan Rd to Langensand Rd	Perform road safety audit or transportation safety review to identify appropriate safety improvements	Safety	34,000	\$50,000	Low	Recommend Removal - Not A Priority Location	

TSP Update ID	Geographic Area	Project Name / Street Name	Segment / Locations	Project Description	Project Category	Projected Future Demand*	Planning Level Cost Estimate	Draft Recommendation to the Planning Commission	Simplified ODOT Comments	Other Notes
2067	E	US 26	Firwood Rd to Sleepy Hollow Dr	Perform road safety audit or transportation safety review to identify appropriate safety improvements	Safety	18,000	\$140,000	Low	Recommend Removal - Not A Priority Location	
2068	E	US 26	Rhododendron to OR 35	Perform road safety audit or transportation safety review to identify appropriate safety improvements	Safety	5,000	\$180,000	Low	Recommend Removal - Not A Priority Location	
2070	E	OR 211	OR 224 to Hillcockburn Rd	Perform road safety audit or transportation safety review to identify appropriate safety improvements	Safety	4,000	\$80,000	Low	Recommend Removal - Not A Priority Location	
2071	E	OR 224	232nd Ave to OR 211	Perform road safety audit or transportation safety review to identify appropriate safety improvements	Safety	21,000	\$80,000	Low	Recommend Removal - Not A Priority Location	
2072	E	OR 224	Fish Creek Rd to National Forest Rd 46	Perform road safety audit or transportation safety review to identify appropriate safety improvements	Safety	1,500	\$170,000	Low	Recommend Removal - Not A Priority Location	
2105	E	OR 212	OR 212 /282nd Ave intersection	Add second right-turn lane on 282nd	Upgrade - Vehicle Capacity	24,000	\$570,000	NA	Not Planned or Funded. ODOT would like clarification on operations.	
2106	E	OR 224	OR 224 /232nd Ave intersection	Install traffic signal or roundabout	Upgrade - Vehicle Capacity	16,000	\$5,550,000	High	Does Not Meet Warrants - ODOT Does Not Support	
U425	E	OR 211	Tickle Creek Rd/OR 211 intersection	Remove or decrease horizontal curve, relocate intersection	Safety	12,000	\$2,100,000	Low	Not Part of Top 10% SPIS - Project is Unlikely	
U427	E	OR 224	Eaglecreek / OR 224 intersection	Install signal	Upgrade	21,000	\$200,000	High	Comment Missing but expect -- Does Not Meet Warrants - ODOT Does Not Support	
U444	E	OR 224	Bakers Ferry Rd / OR 224 intersection	Add eastbound right-turn lane	Upgrade - Vehicle Capacity	20,000	\$290,000	Low	Needed Project No Funding Identified	
U445	E	OR 224	Amisigger Rd / OR 224 intersection	Install traffic signal; add southbound and eastbound left-turn lanes and westbound right-turn lane	Upgrade - Vehicle Capacity	23,000	\$1,340,000	Low	ODOT Does not support rural signals, not funded	
U446	E	OR 224	Heiple Rd / OR 224 intersection	Add southbound right-turn lane	Upgrade - Vehicle Capacity	13,000	\$290,000	Low	Needed Project No Funding Identified	
U450	E	OR 211	362nd Dr / OR 211 intersection	Remove or decrease vertical curve and remove vegetation	Safety	12,000	\$3,230,000	Low	Not Planned or Funded	
U454	E	US 26	US 26 / Firwood Rd intersection	Add eastbound right-turn lane	Upgrade - Vehicle Capacity	19,000	\$290,000	Low	Needed Project No Funding Identified	
U456	E	US 26	US 26 / Brightwood Loop W	Add westbound right-turn lane	Upgrade - Vehicle Capacity	5,000	\$290,000	Low	Needed Project No Funding Identified	
U457	E	US 26	US 26 / Brightwood Loop E	Add westbound right-turn lane	Upgrade - Vehicle Capacity	5,000	\$290,000	Low	Needed Project No Funding Identified	
U520	E	US 26	Lolo Pass Rd to Govt. Camp Loop Rd. W	Widen to 4 lanes with left-turn lanes, add passing/climbing lanes and westbound right-turn lane at Lolo Pass	Upgrade - Vehicle Capacity	5,000	\$58,520,000	Low	Needed Project No Funding Identified	
U532	E	OR 211	Hayden Rd to OR 224	Widen to rural arterial standard with shoulders, bikeways and turn lanes at major intersections.	Upgrade	4,000	\$6,740,000	Medium	Needed Project No Funding Identified	
U533	E	OR 211	Eagle Creek Rd to Tickle Creek Rd	Widen roadway to include bikeways /shoulders and add passing /climbing lanes where needed	Upgrade	9,000	\$21,110,000	Low	Not Planned or Funded	
U534	E	OR 211	0.14 miles east of Coop Rd to Jacknife Rd	Widen to add shoulder / bikeways; realign to remove horizontal and vertical curves	Upgrade	9,000	\$1,230,000	Low	Not Planned or Funded	
U535	E	OR 211	Tickle Creek Rd to 362nd Dr	Widen roadway to include bikeways /shoulders and add passing /climbing lanes where needed	Upgrade	13,000	\$13,560,000	Low	Needed Project No Funding Identified	
U547	E	OR 224	Bakers Ferry Rd to Estacada city limits	Widen roadway to include shoulders and bikeways; add passing lanes where needed	Upgrade	21,000	\$54,970,000	Low	Needed Project No Funding Identified	
U634	E	US 26	Govt. Camp Loop W to Warm Springs Hwy	Widen to four lanes with median, add left-turn lanes, widen shoulders	Upgrade	5,000	\$18,050,000	Medium	Needed Project No Funding Identified	
U635	E	US 26	OR 35 Junction to Wasco County line	Widen roadway to include bikeways /shoulders, add passing lanes where needed and turn lanes at major intersections	Upgrade	2,500	\$187,090,000	Medium	Needed Project No Funding Identified	
U775	E	OR 224	OR 212 to City of Estacada	Add shoulders and bikeways	Upgrade	21,000	\$59,760,000	Low	Needed Project No Funding Identified	

TSP Update ID	Geographic Area	Project Name / Street Name	Segment / Locations	Project Description	Project Category	Projected Future Demand*	Planning Level Cost Estimate	Draft Recommendation to the Planning Commission	Simplified ODOT Comments	Other Notes
2086	M	OR 99E	Park Ave to Gladstone City Limits	Perform road safety audit or transportation safety review to identify appropriate safety improvements	Safety	29,000	\$120,000	Low	Recommend Removal - Not A Priority Location	
U407	M	OR 99E (McLoughlin Blvd)	Milwaukie City limit to Gladstone City limit	Add bikeways, pedways, median enhancements, crosswalks and pedestrian refuges	Upgrade - Active Transportation	29,000	\$42,600,000	High	Funding expected FY 13/14 for some improvements	Move up in priority, as this project has been expressed as a high priority by several people and groups.
U917	NW	OR 43	Lake Oswego to Portland	Develop active transportation connection consistent with the Connecting Clackamas Plan	Multi-Use Path	31,000	\$7,960,000	Low	No Objection but not state funding identified	
U918	NW	OR 43 South	West Linn to Lake Oswego	Implement the OR 43 design plan for an active transportation corridor consistent with the Connecting Clackamas Plan	Multi-Use Path	21,000	\$46,100,000	Remove	No Objection but not state funding identified	Remove project, as it is in a city and on West Linn's plans.
1006	SW	OR 213	OR 213 / Carus Rd intersection	Install traffic signal to replace existing two-way stop	Upgrade	23,000	\$200,000	Low	Does Not Meet Warrants - ODOT Does Not Support	
1007	SW	OR 213	OR 213 / Spangler Rd intersection	Install traffic signal to replace existing two-way stop	Upgrade	22,000	\$200,000	High	Does Not Meet Warrants - ODOT Does Not Support	
2010	SW	OR 99E	Oregon City to Canby	Add shoulders and bikeways	Upgrade	29,000	\$17,180,000	Low	Needed Project No Funding Identified	Look at area in Active Transportation Plan.
2013	SW	OR 211	OR 170 (Canby-Marquam Hwy) to City of Molalla	Add shoulders and bikeways	Upgrade	5,000	\$15,560,000	Low	Not Planned or Funded	
2074	SW	OR 213	Molalla Ave to S Spangler Rd	Perform road safety audit or transportation safety review to identify appropriate safety improvements	Safety	29,000	\$80,000	Remove	Recommend Removal - Not A Priority Location	
2075	SW	OR 213	Mulino to Molalla	Perform road safety audit or transportation safety review to identify appropriate safety improvements	Safety	16,000	\$90,000	High	Recommend Removal - Not A Priority Location	
2079	SW	OR 211	Beavercreek Rd to Upper Highland Rd	Perform road safety audit or transportation safety review to identify appropriate safety improvements	Safety	5,000	\$150,000	Low	Recommend Removal - Not A Priority Location	
2080	SW	OR 99E	Sequoia Prkwy to Lone Elder Rd	Perform road safety audit or transportation safety review to identify appropriate safety improvements	Safety	27,000	\$80,000	Low	Recommend Removal - Not A Priority Location	
2081	SW	OR 99E	Territorial Rd to the Metro boundary	Perform road safety audit or transportation safety review to identify appropriate safety improvements	Safety	32,000	\$80,000	Low	Recommend Removal - Not A Priority Location	
2083	SW	OR 213	OR 213 / Beavercreek Rd intersection	Perform road safety audit or transportation safety review to identify appropriate safety improvements	Safety	44,000	\$30,000	Low	Recommend Removal - Not A Priority Location	
2109	SW	OR 213	OR 213 / Henrici Rd intersection	Install traffic signal or roundabout	Upgrade - Vehicle Capacity	31,000	\$5,550,000	High	State Engineer approval require once warrants met, no funding identified	
2110	SW	OR 213	OR 213 / Leland Rd intersection	Add northbound through auxiliary lane	Upgrade - Vehicle Capacity	28,000	\$570,000	High	Needed Project No Funding Identified	
2111	SW	OR 99E	OR 99E / Barlow Rd intersection	Add left-turn lane on southbound Barlow Rd	Upgrade - Vehicle Capacity	21,000	\$570,000	High	Needed Project No Funding Identified	
U339	SW	OR 213	Macksburg Rd to Liberal Way	Widen shoulders to state standards	Upgrade	16,000	\$1,160,000	Low	Needed Project No Funding Identified	
U424	SW	OR 211	Dhooghe Rd / OR 211 intersection	Remove or decrease horizontal curve, relocate intersection	Safety	5,000	\$1,540,000	Low	Not Planned or Funded	
U431	SW	OR 211	OR 170 (Canby-Marquam Hwy) / OR 211 intersection	Install eastbound and westbound left-turn lanes, and eastbound right-turn lane; remove or decrease horizontal curve	Upgrade - Vehicle Capacity	5,000	\$2,680,000	Medium	Needed Project No Funding Identified	
U441	SW	OR 213	Leland Rd / Union Hall Rd intersection	Add southbound auxiliary lane	Upgrade - Vehicle Capacity	28,000	\$570,000	High	Needed Project No Funding Identified	
U442	SW	OR 213	Carus Rd / OR 213 intersection	Install southbound left-turn and right-turn lanes	Upgrade - Vehicle Capacity	24,000	\$1,140,000	Low	Needed Project No Funding Identified	
U449	SW	OR 99E	OR 99E / Barlow Rd intersection	Add dual left-turn lanes on southbound Barlow	Upgrade - Vehicle Capacity	21,000	\$570,000	NA	Needed Project No Funding Identified	
U467	SW	OR 211	Needy Rd to 0.6 miles west of Needy Rd	Remove or decrease vertical curve to allow passing zone, add passing lane in one or both directions, possible relocation of intersection	Safety	4,000	\$3,480,000	Low	Not Planned or Funded	

TSP Update ID	Geographic Area	Project Name / Street Name	Segment / Locations	Project Description	Project Category	Projected Future Demand*	Planning Level Cost Estimate	Draft Recommendation to the Planning Commission	Simplified ODOT Comments	Other Notes
U529	SW	OR 211	Marion County line to OR 170 (Canby-Marquam Hwy)	Widen to include shoulders, bikeways, add passing lanes where needed and turn lanes at major intersections	Upgrade	3,000	\$31,490,000	Medium	Needed Project No Funding Identified	
U531	SW	OR 211	Beavercreek Rd, Union Hall Rd to Dhooghe Rd	Widen to include shoulders, bikeways, add passing lanes where needed and turn lanes at major intersections	Upgrade	8,000	\$21,420,000	High	Comment Missing but expect -- Not Planned or Funded	
U551	SW	OR 99E	Barlow Rd to Marion County line	Four lane widening with median, left-turn lanes from mile post 24.05	Upgrade - Vehicle Capacity	22,000	\$14,790,000	Medium	Needed Project No Funding Identified	
U558	SW	I-205	I-205 Corridor	Corridor-wide operational improvements	Upgrade	47,000	\$251,640,000	High	Planned but unfunded	
U559	SW	I-205	Willamette River to West Linn City boundary	Add southbound truck climbing lane	Upgrade - Vehicle Capacity	59,000	\$10,000,000	High	Needed Project No Funding Identified	
U605	SW	OR 99E	Pudding River Bridge	Replace bridge	Bridge	15,000	\$18,720,000	Low	No Replacement Needed	
U772	SW	OR 211	Molalla city limits to Estacada city limits	Widen to rural arterial standard (2 lanes) with shoulders and bikeways	Upgrade	8,000	\$277,770,000	Low	Needed Project No Funding Identified	
U774	SW	OR 213	Oregon City boundary to Marion County line	Add shoulders and bikeways	Upgrade	16,000	\$23,470,000	Medium	Needed Project No Funding Identified	Move up in priority, as public comment supports this project.



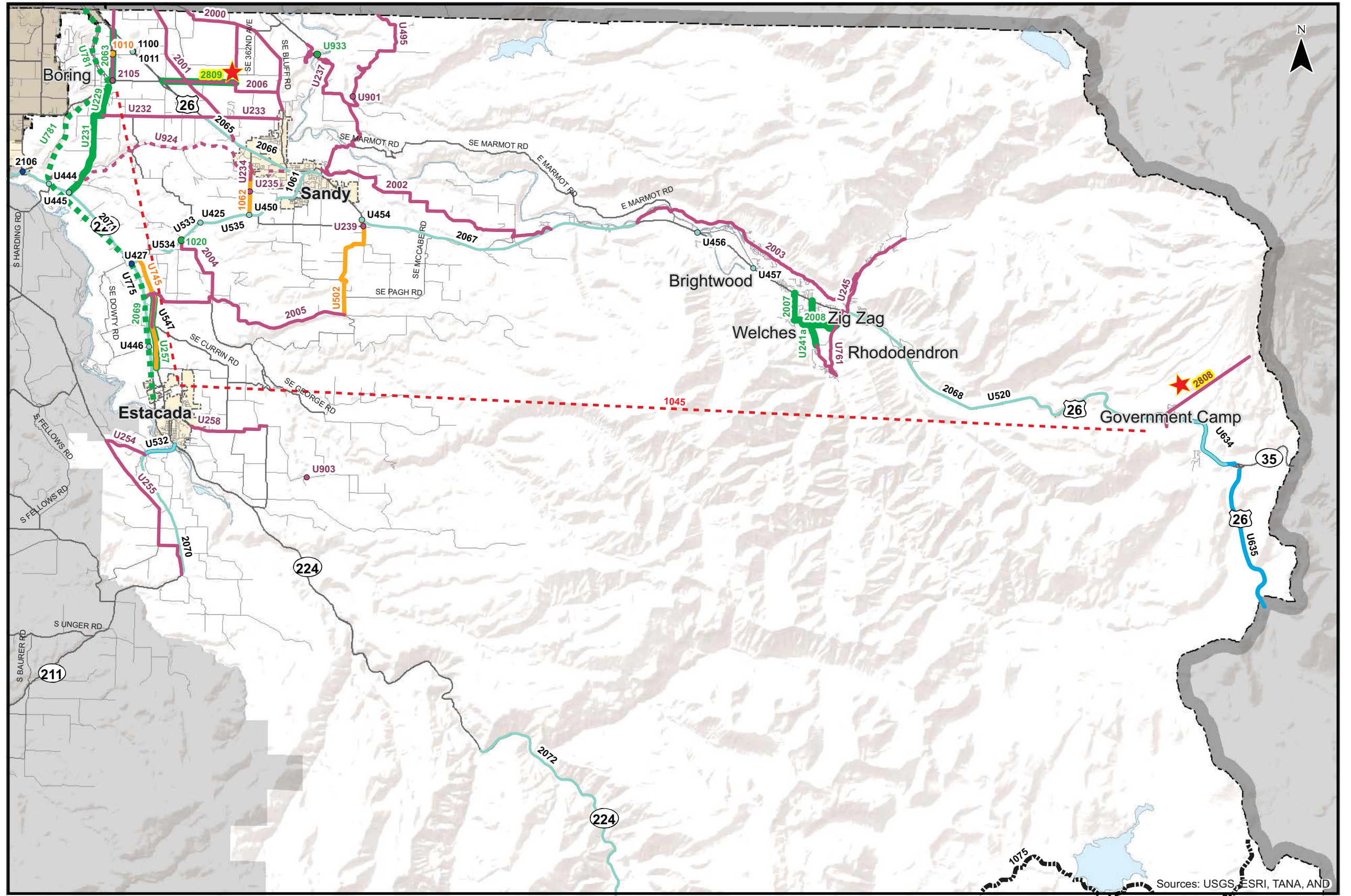
- Legend**
- County Projects**
- Recommended Tier**
- Tier 1 (Green)
 - Tier 2 (Yellow)
 - Tier 3 (Pink)
 - - - - Remove (Red dashed)

- ODOT Projects**
- Recommended Tier**
- High (Dark Blue)
 - Medium (Light Blue)
 - Low (Teal)
 - - - - Remove (Black dashed)

- - - - Multi-Use Path
- - - - Incorporated Areas
- - - - County Boundary
- - - - UGB
- ★ Indicates Project for Discussion



Coordinate System:
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 Data Source:
 Clackamas County, Metro Data Resouce Center

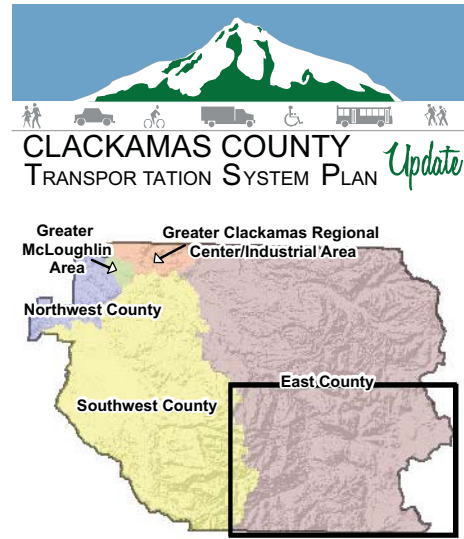


Sources: USGS, ESRI, TANA, AND

**Master List Projects - Draft Recommendation to the Planning Commission
 East County - Northern Portion**

Figure
EN MP

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Legend

County Projects

Recommended Tier

- Tier 1
- Tier 2
- Tier 3
- - - - Remove

ODOT Projects

Recommended Tier

- High
- Medium
- Low
- - - - Remove

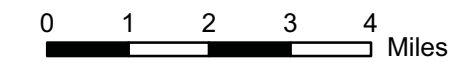
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- Incorporated Areas

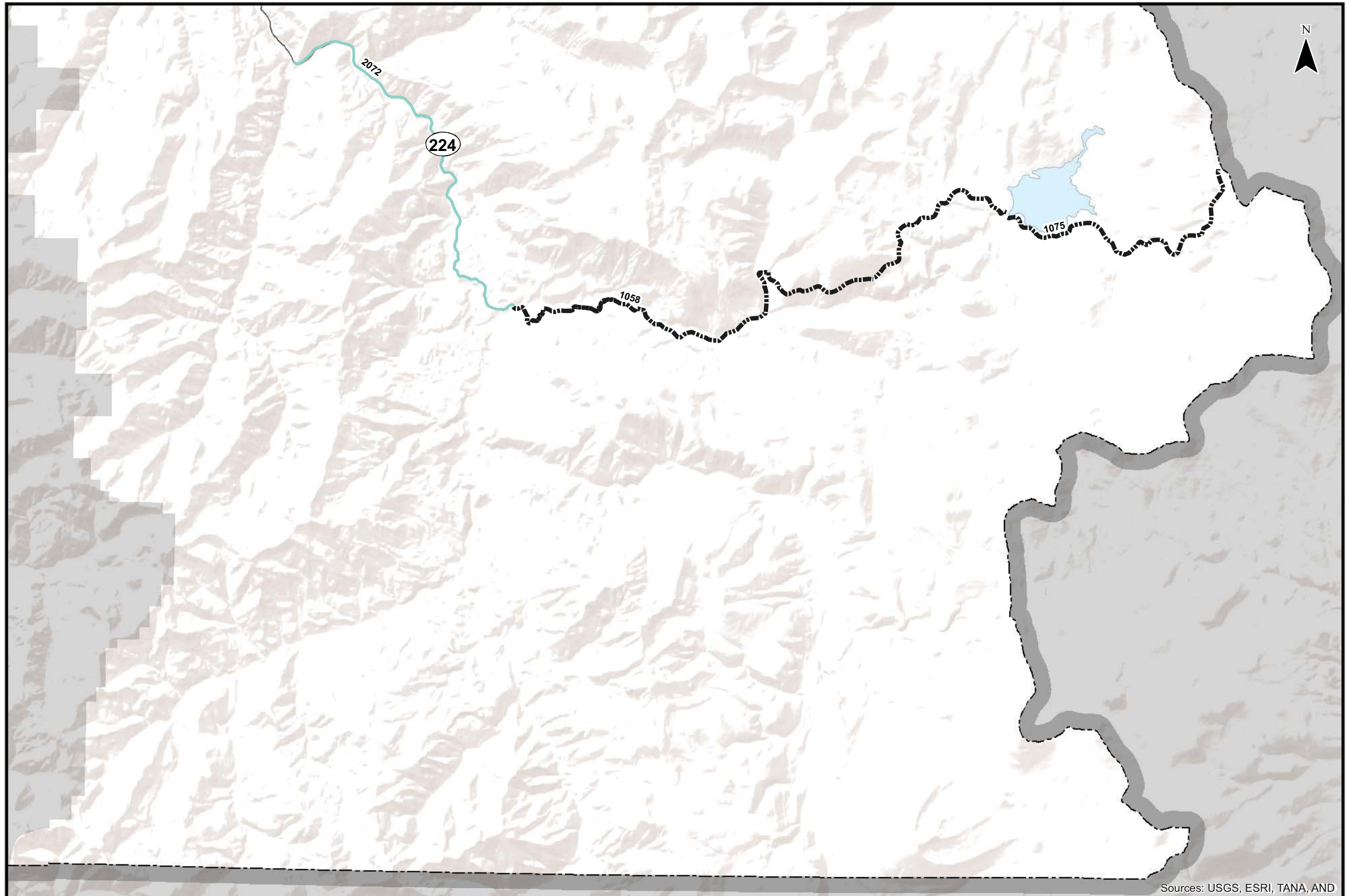
- County Boundary

- UGB

- ★ Indicates Project for Discussion



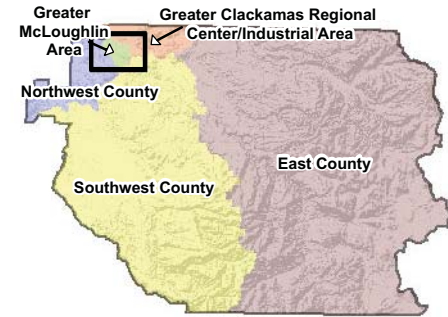
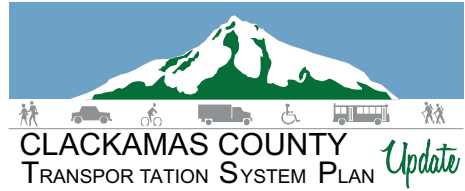
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Data Source:
Clackamas County, Metro Data Resouce Center



Sources: USGS, ESRI, TANA, AND

**Master List Projects - Draft Recommendation to the Planning Commission
East County - Southern Portion**

Figure
ES MP



Legend

County Projects

Recommended Tier

- Tier 1
- Tier 2
- Tier 3
- - - - Remove

ODOT Projects

Recommended Tier

- High
- Medium
- Low
- - - - Remove

- - - - Multi-Use Path

- Incorporated Areas

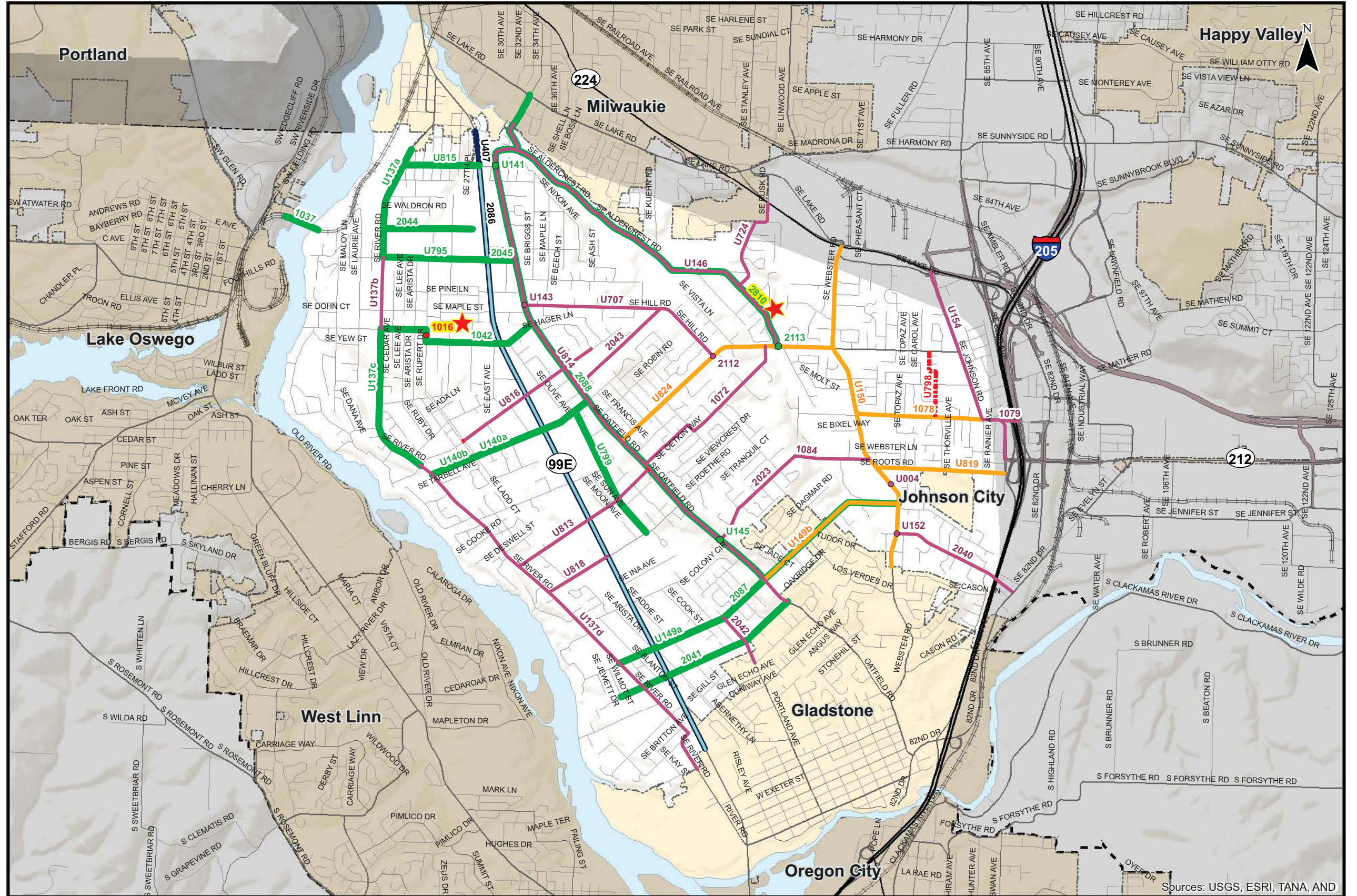
- County Boundary

- UGB

★ Indicates Project for Discussion

0 1 Miles

Coordinate System:
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Data Source:
Clackamas County, Metro Data Resouce Center

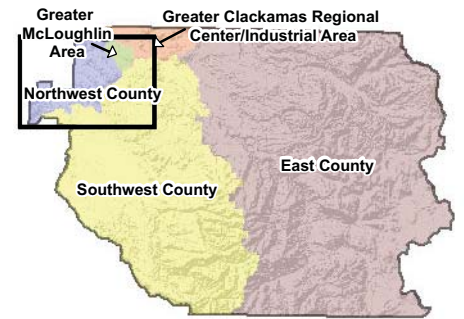
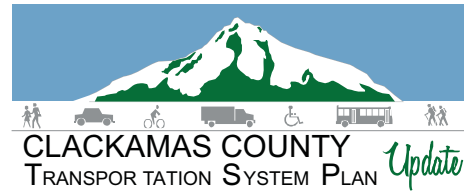


Sources: USGS, ESRI, TANA, AND

**Master List Projects - Draft Recommendation to the Planning Commission
Greater McLoughlin Area**

Figure
M MP

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Legend

County Projects

Recommended Tier

- Tier 1
- Tier 2
- Tier 3
- - - - Remove

ODOT Projects

Recommended Tier

- High
- Medium
- Low
- - - - Remove

- - - - Multi-Use Path

- Incorporated Areas

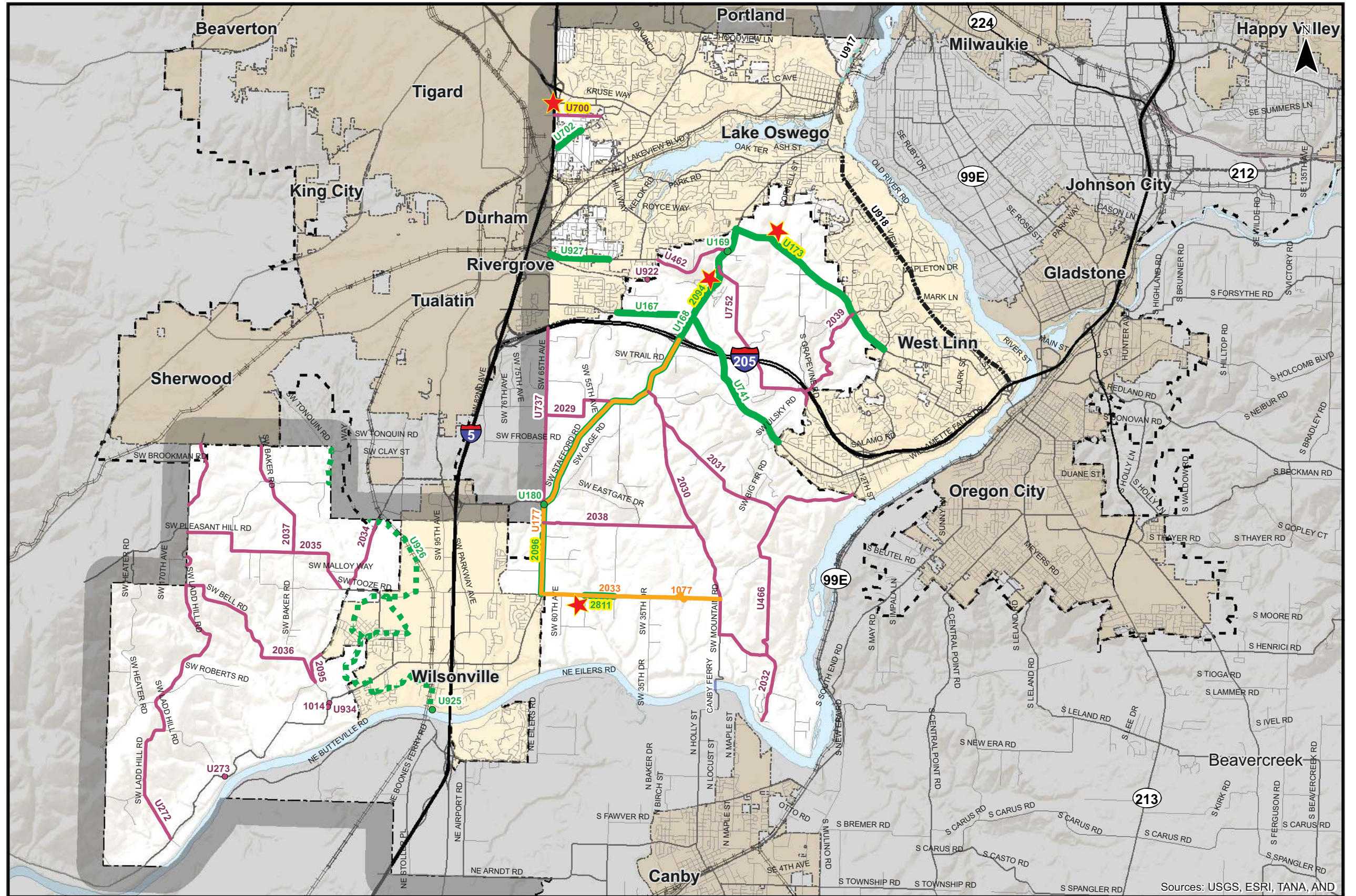
- County Boundary

- UGB

★ Indicates Project for Discussion

0 1 2 Miles

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Data Source:
Clackamas County, Metro Data Resouce Center

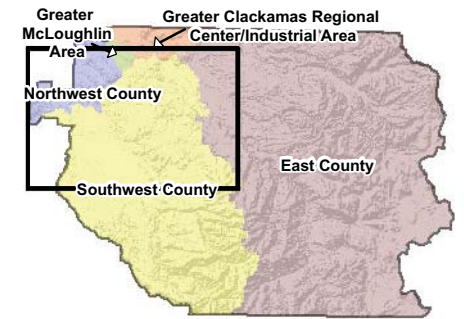
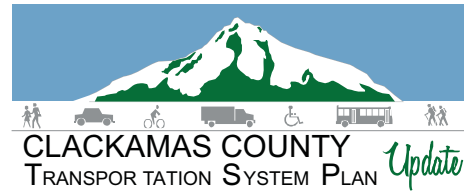


**Master List Projects - Draft Recommendation to the Planning Commission
Northwest County**

Figure
NW MP

Sources: USGS, ESRI, TANA, AND

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Legend

County Projects

Recommended Tier

- Tier 1
- Tier 2
- Tier 3
- - - - Remove

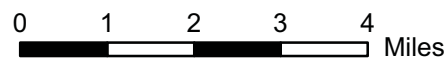
ODOT Projects

Recommended Tier

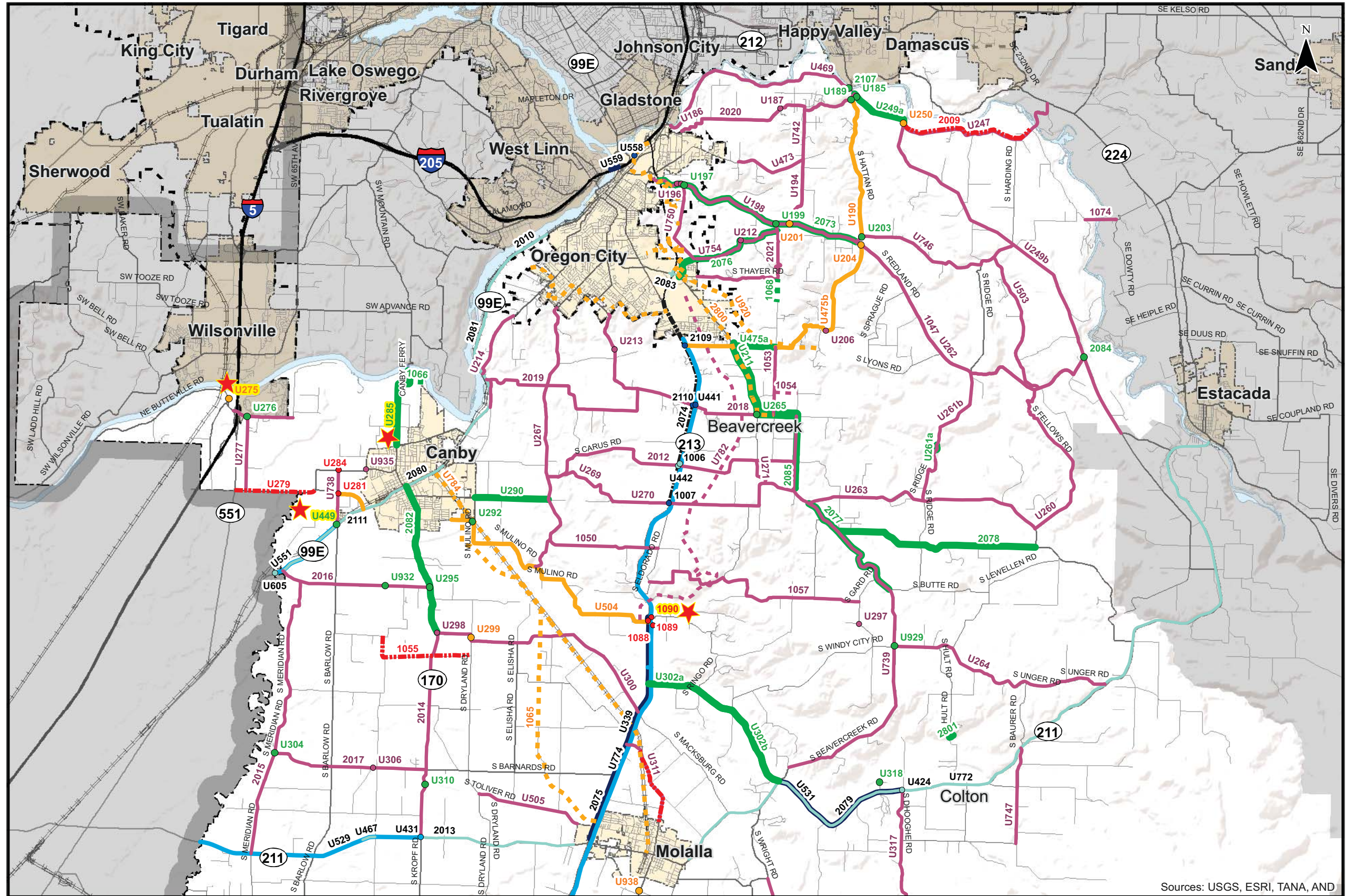
- High
- Medium
- Low
- - - - Remove

- - - - Multi-Use Path
- Incorporated Areas
- County Boundary
- UGB

★ Indicates Project for Discussion



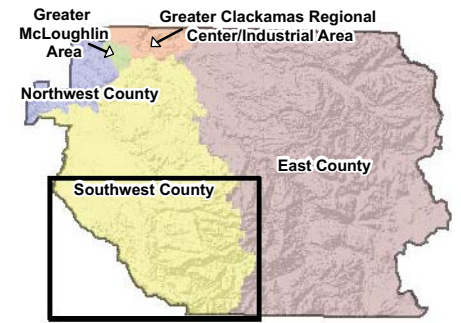
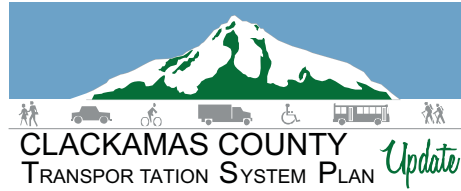
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Data Source:
Clackamas County, Metro Data Resouce Center



Sources: USGS, ESRI, TANA, AND

**Master List Projects - Draft Recommendation to the Planning Commission
Southwest County - Northern Portion**

Figure
SN MP



Legend

County Projects

Recommended Tier

- Tier 1
- Tier 2
- Tier 3
- - - - Remove

ODOT Projects

Recommended Tier

- High
- Medium
- Low
- - - - Remove

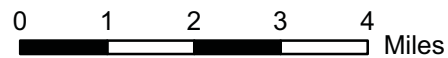
- - - - Multi-Use Path

- Incorporated Areas

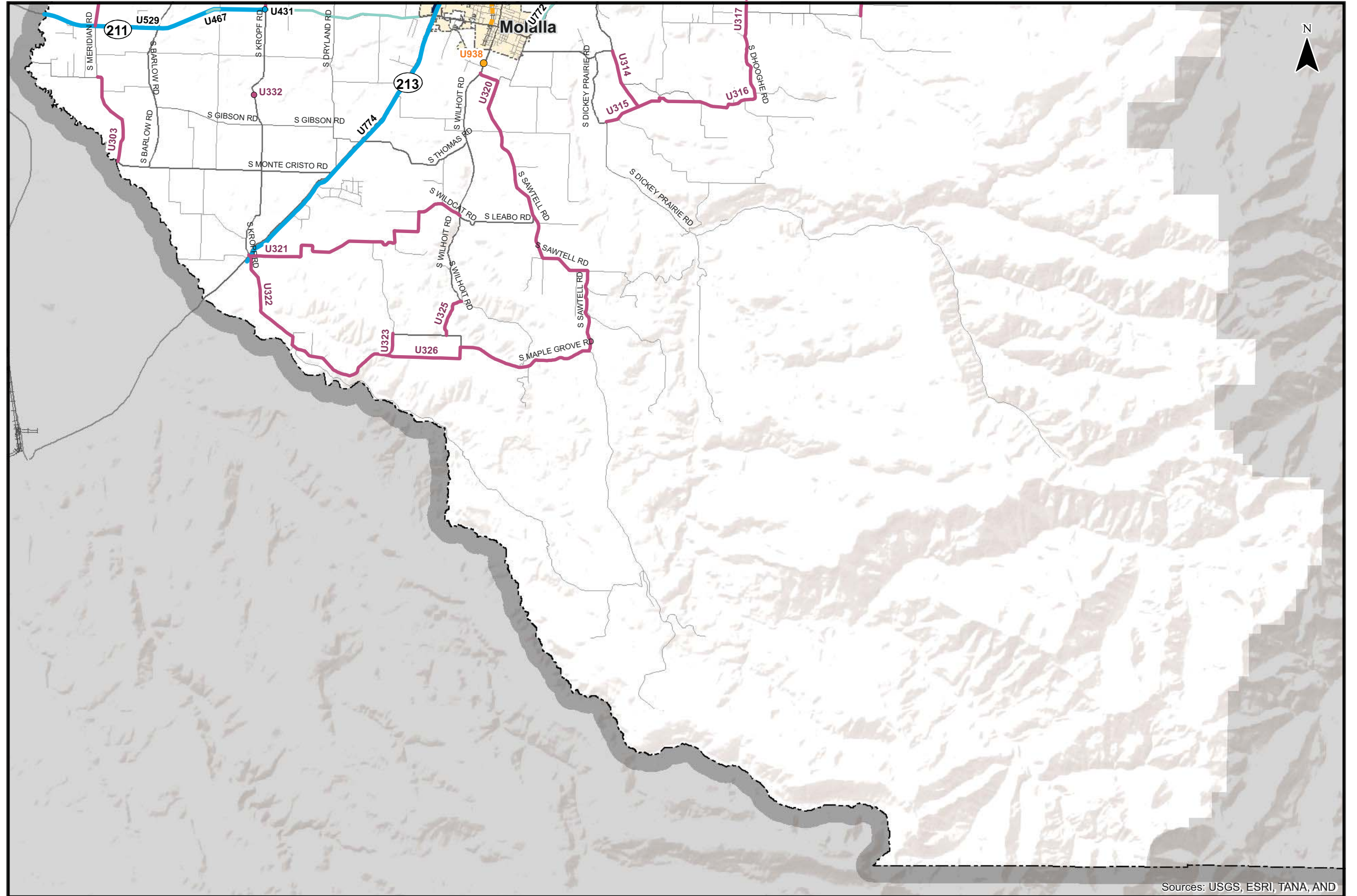
- County Boundary

- UGB

★ Indicates Project for Discussion



Coordinate System:
NAD 1983 HARN StatePlane Oregon North FIPS 3601 Feet Intl
Data Source:
Clackamas County, Metro Data Resouce Center



Sources: USGS, ESRI, TANA, AND

**Master List Projects - Draft Recommendation to the Planning Commission
Southwest County - Southern Portion**

Figure
SS MP

TSP Update ID	Geographic Area	Project Name / Street Name	Segment / Locations	Project Description	Project Category	Projected Future Demand*	Planning Level Cost Estimate	GAPS Recommendation	TAC Recommendation	PAC Recommendation	Draft Recommendation to the Planning Commission
2115	CRC	Lake Rd	Lake Rd / International Way intersection	Add northbound right-turn lane	Upgrade - Vehicle Capacity	29,000	\$290,000	Tier 1	Tier 1	Tier 1	Tier 1
2116	CRC	Harmony Rd	Harmony Rd / Linwood Ave intersection	Add second left-turn lane on Harmony Rd, adjust signal timing	Upgrade - Vehicle Capacity	29,000	\$30,000,000	Tier Remove	Tier Remove	Tier 3	Remove
2117	CRC	Sunnybrook Blvd	Sunnybrook Blvd / 82nd Ave intersection	Add dual southbound left-turn lanes, extend queue storage for southbound lefts and westbound lefts intersection improvements, such as additional turn lanes, turn lane extensions, and/or signal timing modifications	Upgrade - Vehicle Capacity	34,000	\$290,000	Tier 3	Tier 3	Tier 2	Tier 2
2805	CRC	Sunnyside Rd	Sunnyside Rd / Stevens Rd intersection	lanes, turn lane extensions, and/or signal timing modifications	Upgrade - Vehicle Capacity	30,000	\$2,000,000	Tier 1	Tier 1	Tier 1	Tier 1
2807	CRC	Harmony Rd	OR 213 to OR 224	Bikeways and pedways	Upgrade - Active Transportation	25,000	\$9,520,000				Tier 1
2813	CRC	Sunnybrook Blvd	Sunnybrook Blvd/Oak Bluff intersection	Install flashing yellow arrow for left-turns on eastbound and westbound approaches.	Upgrade	34,000	\$2,000				Tier 1
2816	CRC	Sunnybrook Blvd	Sunnybrook Blvd / Sunnyside Rd intersection	Rebuild northbound approach to allow dual right-turn on red; install bicycle signal.	Upgrade	34,000	\$1,250,000				Tier 1
2817	CRC	Harmony Rd / Sunnyside Rd	Harmony Rd / Sunnyside Rd / OR 213 intersection	Extend queue storage on westbound approach and rebuild median; extend queue storage on eastbound approach and install median; convert to right-in-right-out access on frontage road.	Upgrade	25,000	\$1,250,000				Tier 1
2818	CRC	Overland St	Overland St / OR 213 intersection	Install flashing yellow arrow for left-turns on northbound and southbound approaches.	Upgrade	23,000	\$2,000				Tier 1
U001	CRC	Sunnybrook Blvd Extension	OR 213 to Harmony Rd	Construct new 2 lane roadway with pedways and bikeways	New Roadway	12,500	\$10,600,000	Tier 3	Tier 3	Remove	Remove
U057	CRC	122nd Ave	Sunnyside Rd to Hubbard Rd	Fill gaps in pedways, turn lanes at Mather Rd	Upgrade	6,000	\$1,840,000	Tier 1	Tier 1	Tier 1	Tier 1
U058	CRC	132nd Ave	Sunnyside Rd to OR 212	Add bikeways, pedways, traffic calming and turn lanes at major intersections	Upgrade	5,000	\$1,680,000	Tier 1	Tier 1	Tier 1	Tier 1
U066	CRC	West Collector	Johnson Creek Blvd to King Rd	Construct new 2 lane collector west of OR 213 with pedways and bikeways	New Roadway	10,500	\$18,918,000	Tier 3	Tier Remove	Remove	Remove
U072	CRC	Johnson Creek Blvd	55th Ave to Bell Ave	Widen to 3 lanes with bikeways and pedways	Upgrade	16,000	\$13,770,000	Tier 1	Tier 1	Tier 1	Tier 1
U074	CRC	Johnson Creek Blvd	Bell Ave to OR 213	widen to 3 lanes from Bell Ave to 76th Ave and 3 lanes from 76th Ave to 82nd Ave ; add bikeways and pedways	Upgrade	21,000	\$11,130,000	Tier 3	Tier 3	Tier 3	Tier 3
U075	CRC	Clatsop St / Luther Rd	72nd Ave to Fuller Rd	Add turn lanes and signals at OR 213 intersection; add bikeways, pedways and traffic calming	Upgrade	2,500	\$7,920,000	Tier 2	Tier 2	Tier 2	Tier 2
U076	CRC	79th Ave Extension	Luther St to Johnson Creek Blvd	Construct new 2 lane collector with pedways and bikeways	New Roadway	12,500	\$4,630,000	Tier 3	Tier Remove	Remove	Remove
U082	CRC	Linwood Ave	Linwood Ave / Monroe St intersection	Add curbs/sidewalks, improve horizontal alignments	Upgrade	15,000	\$7,420,000	Tier 2	Tier 2	Tier 2	Tier 2
U084	CRC	Linwood Ave Bridge over Johnson Creek	Bridge	Construct bridge with bike lanes and sidewalks	Bridge	16,000	\$4,860,000	Tier 3	Tier 3	Tier 3	Tier 3
U088	CRC	Fuller Rd	Otty St to Johnson Creek Blvd	Add pedways, turn lanes, on-street parking, central median and landscaping.	Upgrade	9,000	\$4,000,000	Tier 1	Tier 1	Tier 1	Tier 1
U089	CRC	Otty St	Otty St / OR 213 / Otty Rd	Realign Otty St with Otty Rd at OR 213 and install dual westbound left-turn lanes. Install flashing yellow arrow for left-turns on northbound and southbound approaches.	Upgrade	23,000	\$1,600,000	Tier 1	Tier 1	Tier 1	Tier 1

TSP Update ID	Geographic Area	Project Name / Street Name	Segment / Locations	Project Description	Project Category	Projected Future Demand*	Planning Level Cost Estimate	GAPS Recommendation	TAC Recommendation	PAC Recommendation	Draft Recommendation to the Planning Commission
U090	CRC	Otty Rd	OR 213 to 92nd Ave	Improve to minor arterial standard consistent with Fuller Road Station Plan; improve curb radius, add turn lanes, on-street parking, central median, landscaping, add bikeways and pedways	Upgrade	13,000	\$5,000,000	Tier 1	Tier 1	Tier 1	Tier 1
U091	CRC	Fuller Rd	Otty St to King Rd / OR 213	Construct new 2 lane extension with pedways and bikeways	New Roadway	6,000	\$22,490,000	Tier 3	Tier 3	Tier 3	Tier 3
U092	CRC	Fuller Rd / King Rd Improvements	Fuller Rd / King Rd intersection	Restricts access to right-in/right-out only	Upgrade	23,000	\$255,000	Tier 1	Tier 1	Tier 1	Tier 1
U093	CRC	Monroe St	72nd Ave to Fuller Rd	Add bikeways, pedways and traffic calming	Upgrade - Active Transportation	6,000	\$7,470,000	Tier 1	Tier 1	Tier 1	Tier 1
U094	CRC	Boyer Dr	OR 213 to Fuller Rd	Construct new 2 lane roadway with turn lanes at OR 213 and Fuller Rd, bikeways and pedways. Install flashing yellow arrow for left-turns on northbound and southbound approaches at OR 213 intersection.	New Roadway	4,000	\$3,700,000	Tier 1	Tier 1	Tier 1	Tier 1
U097	CRC	Causey Ave	Fuller Rd to I-205	Add bikeways and shared facility markings	Upgrade - Active Transportation	3,000	\$50,000	Tier 2	Tier 1	Tier 2	Tier 1
U099	CRC	85th Ave	Causey Ave to Monterey Ave	Add sidewalks and bikeways	Upgrade - Active Transportation	5,000	\$30,000	Tier 1	Tier 1	Tier 1	Tier 1
U100	CRC	Monterey Ave	OR 213 to Fuller Rd	Construct new 2 lane extension with pedways and bikeways. Install flashing yellow arrow for left-turns on northbound and southbound approaches at OR 213 intersection.	New Roadway	4,500	\$7,200,000	Tier 1	Tier 1	Tier 1	Tier 1
U102	CRC	Lake Rd	OR 224 west to Milwaukie city limits	Add pedways and turn lanes at major intersections	Upgrade	14,000	\$4,820,000	Tier 3	Tier 3	Tier 3	Tier 3
U103	CRC	Harmony Rd	Railroad Ave / Linwood Ave / Harmony Rd	Grade separated railroad crossing, include bikeways and pedways	Upgrade	31,000	\$20,000,000	Tier 1	Tier 1	Tier 1	Tier 1
U104	CRC	Harmony Rd	OR 213 to OR 224	Widen to 5 lanes with bikeways and pedways	Upgrade	25,000	\$33,980,000	Tier 3	Tier 3	Remove	Remove
U107	CRC	Phillips Creek Multi-Use Path	Causey Ave to North Clackamas Regional Parks Trail	Construct multi-use path	Multi-Use Path	15,000	\$3,110,000	Tier 1	Tier 1	Tier 1	Tier 3
U108	CRC	North Clackamas Regional Park Trail	Linwood Ave to North Clackamas Park Complex	Construct multi-use path	Multi-Use Path	15,000	\$1,100,000	Tier 1	Tier 1	Tier 1	Tier 1
U114	CRC	Hillcrest St	92nd Ave to Stevens Rd	Add pedways	Upgrade - Active Transportation	2,500	\$1,540,000	Tier 3	Tier 3	Tier 3	Tier 3
U115	CRC	Idleman Rd	92nd Ave to Westview Ct	Fill gaps in bikeways and pedways	Upgrade	13,000	\$6,450,000	Tier 3	Tier 3	Tier 3	Tier 3
U123	CRC	122nd Ave	Sunnyside Rd to Timber Valley Dr	Add bikeways and turn lanes at major intersections	Upgrade	12,000	\$2,930,000	Tier 1	Tier 1	Tier 1	Tier 1
U126	CRC	Valley View Terrace	Sunnyside Rd to Otty Rd	Add bikeways and pedways	Upgrade - Active Transportation	7,000	\$5,020,000	Tier 3	Tier 3	Tier 3	Tier 3
U130a	CRC	97th Ave / Mather Rd	Lawnfield Rd to Summers Ln	Add bikeways, pedways and eastbound left-turn lanes at Mather Rd / Summers Ln	Upgrade	10,000	\$4,560,000	Tier 3	Tier 1	Tier 1	Tier 1
U130b	CRC	Mather Rd	Summers Ln Rd to 122nd Ave	Add bikeways, pedways and eastbound left-turn lanes at Mather Rd / 122nd Ave	Upgrade	10,000	\$6,420,000	Tier 3	Tier 2	Tier 2	Tier 2
U131	CRC	Mather Rd	Mather Rd / 122nd Ave intersection	Install traffic signal or compact roundabout	Upgrade - Vehicle Capacity	8,000	\$200,000	Tier 3	Tier 3	Tier 3	Tier 3
U132	CRC	Mather Rd	122nd Ave to 132nd Ave	Construct new 2 lane roadway with pedways and bikeways	New Roadway	3,000	\$7,280,000	Tier 3	Tier 3	Tier 3	Tier 3
U135	CRC	142nd Ave	Sunnyside Rd to OR 212	Add bikeways and pedways	Upgrade - Active Transportation	9,000	\$13,710,000	Tier 2	Tier 2	Tier 2	Tier 1
U136	CRC	152nd Ave Phase 2	Sunnyside Rd to OR 212	Add bikeways, pedways and turn lanes at major intersections	Upgrade	11,000	\$5,830,000	Tier 1	Tier 2	Tier 3	Tier 3

TSP Update ID	Geographic Area	Project Name / Street Name	Segment / Locations	Project Description	Project Category	Projected Future Demand*	Planning Level Cost Estimate	GAPS Recommendation	TAC Recommendation	PAC Recommendation	Draft Recommendation to the Planning Commission
U155	CRC	Strawberry Ln	Strawberry Ln / 82nd Dr intersection	Install traffic signal and eastbound turn lane	Upgrade - Vehicle Capacity	26,000	\$490,000	Tier 3	Tier 2	Tier 2	Tier 2
U156	CRC	82nd Dr	OR 212 to Gladstone	Widen to 5 lane with bikeways and pedways	Upgrade	22,000	\$52,861,000	Tier 3	Tier 3	Tier 3	Tier 3
U160	CRC	Mather Rd	Industrial Way to 98th Ave	Maintain as pedway and bikeway. Construct undercrossing at Sunrise mainline.	Upgrade - Active Transportation	2,000	\$2,040,000	Tier 3	Tier 3	Tier 3	Tier 3
U184	CRC	Springwater Rd	OR 224 to Hattan Rd	Widen to 3 lanes with shoulders and pedways; bridge remains two lanes.	Upgrade	29,000	\$5,500,000	Tier 2	Tier 1	Tier 1	Tier 1
U338	CRC	82nd Dr	OR 212 to Lawnfield Rd	Fill in bikeways and pedways gaps	Upgrade - Active Transportation	11,000	\$660,000	Tier 1	Tier 1	Tier 1	Tier 1
U418	CRC	Tolbert St Overcrossing	82nd Dr to Industrial Way	Construct new 2 lane overcrossing with bikeways and pedways	New Roadway	7,500	\$9,210,000			Tier 1	Tier 1
U645	CRC	Causey Ave	I-205 to Bob Schumacher Rd	Extend Causey Ave over I-205 to Bob Schumacher Road with 3 lane overpass, including bikeways and pedways	New Roadway	2,000	\$21,670,000	Tier 3	Tier Remove	Remove	Remove
U650	CRC	Sunnyside Rd	OR 213 to 97th Ave	Modified boulevard treatment including lane redesign, medians, beautification, curb extensions, reconstructed sidewalks, landscaping, south side bikeways. Consider flashing yellow arrow for left-turns at signalized intersections.	Upgrade - Active Transportation	34,000	\$3,000,000	Tier 2	Tier 2	Tier 2	Tier 2
U653	CRC	I-205 ped / bike Overpass	Between Causey Ave and Sunnyside Rd	Construct a bike / ped crossing over I-205 to connect transit services, businesses and residents	Upgrade - Active Transportation	38,000	\$4,780,000	Tier 1	Tier 1	Tier 1	Tier 1
U654	CRC	North Clackamas Regional Park Trail	OR 213 to Linwood Ave	Construct multi-use path	Multi-Use Path	15,000	\$1,840,000	Tier 1	Tier 1	Tier 1	Tier 1
U657	CRC	Sunnyside Rd Adaptive Signal Timing	OR 213 to 172nd Ave	Add adaptive timing to traffic signals	ITS	35,000	\$1,500,000	Tier 3	Tier 3	Tier 3	Tier 3
U659	CRC	Johnson Creek Blvd	Johnson Creek Blvd / OR 213 intersection	Extend westbound left-turn lane and rebuild median. Install dual northbound and southbound left-turn lanes	Upgrade - Vehicle Capacity	26,000	\$860,000	Tier 1	Tier 1	Tier 1	Tier 1
U661	CRC	Fuller Rd / King Rd Realignment	Fuller Rd / King Rd intersection	Realign Fuller Rd west at King Rd	Upgrade	11,000	\$5,770,000	Tier 2	Tier 2	Remove	Remove
U662	CRC	West 82nd Ave Parallel road	King Rd to Luther Rd	Construct new Collector road parallel to OR 213 with bikeways and pedways	New Roadway	10,500	\$50,000,000	Tier 3	Tier 3	Tier 3	Tier 3
U677	CRC	162nd Ave	Sager Rd north to County line	Add bikeways, pedways, turn lanes at major intersections	Upgrade	12,000	\$3,920,000	Tier 3	Tier 3	Tier 3	Tier 3
U694	CRC	93rd Ave	Sunnyside Rd to Sunnybrook Blvd	Add bikeways	Upgrade - Active Transportation	5,000	\$650,000	Tier 3	Tier 3	Tier 3	Tier 3
U696	CRC	Flavel Dr	Johnson Creek Blvd to Alberta Ave	Add bikeways	Upgrade - Active Transportation	6,000	\$1,230,000	Tier 1	Tier Remove	Remove	Remove
U705	CRC	Evelyn St / Mangan Dr	Jennifer St to Water Ave	Add bikeways	Upgrade - Active Transportation	14,000	\$50,000	Tier 2	Tier 2	Tier 2	Tier 2
U710	CRC	Jennifer St	106th Ave to 130th Ave	Add bikeways	Upgrade - Active Transportation	6,000	\$7,300,000	Tier 3	Tier 3	Tier 3	Tier 3
U715	CRC	Linwood Ave	Queen Rd to Johnson Creek Blvd	Add bikeways	Upgrade - Active Transportation	16,000	\$3,600,000	Tier 2	Tier 2	Tier 2	Tier 2
U720	CRC	Monroe St	Linwood Ave to 72nd Ave	Add bikeways and traffic calming	Upgrade - Active Transportation	5,000	\$5,330,000	Tier 1	Tier 1	Tier 1	Tier 1
U785	CRC	106th Ave	OR 212 to Jennifer St	Add bikeways and pedways	Upgrade - Active Transportation	2,000	\$2,060,000	Tier 3	Tier 3	Tier 3	Tier 3
U792	CRC	Bell Ave / Alberta St / 72nd Ave	King Rd to County line	Add bikeways and pedways	Upgrade - Active Transportation	6,000	\$21,450,000	Tier 2	Tier 2	Tier 2	Tier 2
U794	CRC	Cornwell Ave	OR 213 to Fuller Rd	Add pedways; connect to I-205 Multi-Use Path	Upgrade - Active Transportation	2,500	\$2,560,000	Tier 3	Tier 3	Tier 3	Tier 3

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U796	CRC	Evelyn St	OR 224 to Jennifer St	Add bikeways and pedways	Upgrade - Active Transportation	11,000	\$1,640,000	Tier 2	Tier 2	Tier 2	Tier 2
U797	CRC	Fuller Rd	Johnson Creek Blvd to County Line	Add pedways	Upgrade - Active Transportation	8,000	\$6,020,000	Tier 3	Tier 3	Tier 3	Tier 3
U805	CRC	Jennifer St	82nd Dr to 135th Ave	Add pedways	Upgrade - Active Transportation	8,000	\$15,690,000	Tier 2	Tier 2	Tier 2	Tier 2
U808	CRC	Johnson Creek Blvd	OR 213 to 92nd Ave	Add pedways, restripe for bikeways	Upgrade - Active Transportation	23,000	\$1,400,000	Tier 1	Tier 1	Tier 1	Tier 1
U809	CRC	Lake Rd	Johnson Rd to Webster Rd	Fill gaps in pedways and bikeways	Upgrade - Active Transportation	2,500	\$8,550,000	Tier 3	Tier 3	Tier 3	Tier 3
U811	CRC	Linwood Ave	Monroe St to Johnson Creek Blvd	Add pedways	Upgrade - Active Transportation	16,000	\$5,880,000	Tier 1	Tier 1	Tier 1	Tier 1
U825	CRC	Monroe St / 72nd Ave / Thompson Rd	Linwood Ave to Fuller Rd	Add pedways	Upgrade - Active Transportation	5,000	\$3,970,000	Tier 2	Tier 2	Tier 2	Tier 2
U900	CRC	Luther Rd Bridge over Johnson Creek	Bridge # 06591D	Replace bridge	Bridge	2,500	\$2,030,000	Tier 3	Tier 3	Tier 3	Tier 3
U909	CRC	Cheldelin Rd (Clatsop St extension)	172nd Ave to Foster Rd	Construct new two lane roadway with bikeways and pedways	New Roadway	8,000	\$4,200,000	Tier 3	Tier 3	Tier 3	Tier 3
U910	CRC	Cheldelin Rd	Foster Rd to 190th Dr	Add bikeways and pedways	Upgrade - Active Transportation	8,000	\$12,590,000	Tier 3	Tier 3	Tier 3	Tier 3
U912	CRC	I-205 Multi-Use Path Connection	Between Sunnyside Rd and Sunnybrook Blvd	Construct ADA compliant access to the commercial area from the I-205 Multi-Use Path	Multi-Use Path	15,000	\$140,000				Tier 1
U919	CRC	Scouters Mountain / Mt Scott Loop Trail	Loop trail through Happy Valley, Damascus, Clackamas County and Portland	Construct multi-use path consistent with the Connecting Clackamas Plan	Multi-Use Path	15,000	\$17,060,000	Tier 3	Tier 3	Tier 3	Tier 2
U937	CRC	172nd Ave Bridge	~140 feet south of Troge Rd	Replace bridge (nearing the end of its useful life)	Bridge	21,500	\$860,000		Tier 1	Tier 3	Tier 3
U939	CRC	I-205 Multi-use Path Gap	OR 224/OR 213 to OR 212	Study the I-205 multi-use path gap to create a plan for connection and path completion	Study	15,000	\$200,000		Tier 1	Tier 1	Tier 1
U940	CRC	Southwest Connector Multi-Use Path	Aquatic center access road to 82nd Ave	Construct multi-use path	Multi-Use Path		\$340,000				Tier 1
U941	CRC	84th Ave	Sunnyside Rd to Sunnybrook Blvd	Fill in bikeways and pedways gaps	Upgrade - Active Transportation		\$1,050,000				Tier 3
1010	E	282nd Ave	282nd / Haley Rd intersection	Install traffic signal and lower speed limit on 282nd	Upgrade	15,000	\$1,000,000	Tier 2	Tier 2	Tier 2	Tier 2
1020	E	OR 211	OR 211 / Judd Rd intersection	Realign roadway	Safety	10,000	\$3,700,000	Tier NA	Tier NA	Tier 1	Tier 1
1045	E	Springwater Trail	Gresham to Estacada and Government Camp	Extend Springwater Trail to Estacada and Government Camp	Multi-Use Path	15,000	\$52,500,000	Tier 3	Tier Remove	Remove	Remove
1062	E	362nd Ave	Skogan Rd to OR 211	Add paved shoulders	Upgrade	2,500	\$5,980,000	Tier 2	Tier 2	Tier 2	Tier 2
2000	E	Bluff Rd	Kelso Rd to County boundary	Add paved shoulders	Upgrade	3,000	\$21,230,000	Tier 3	Tier 3	Tier 3	Tier 3
2001	E	Orient Dr	US 26 north to County line	Add paved shoulders	Upgrade	3,000	\$20,370,000	Tier 3	Tier 3	Tier 3	Tier 3
2002	E	Coalman Rd	City of Sandy to US 26	Add paved shoulders	Upgrade	2,500	\$37,320,000	Tier 3	Tier 3	Tier 3	Tier 3
2003	E	Barlow Trail Rd/ Lolo Pass Rd	Between communities of Timberline, Welches and Zig Zag	Add paved shoulders	Upgrade	2,500	\$49,180,000	Tier 3	Tier 3	Tier 3	Tier 3
2004	E	Howlett Rd	OR 211 to Wildcat Mountain Dr	Add paved shoulders	Upgrade	4,000	\$10,540,000	Tier 3	Tier 3	Tier 3	Tier 3
2005	E	Wildcat Mountain DR	OR 224 to Firwood Rd	Add paved shoulders	Upgrade	2,000	\$30,010,000	Tier 1	Tier 3	Tier 3	Tier 3
2006	E	352nd Ave / Dunn Rd	Bluff Rd to Bluff Rd	Add paved shoulders	Upgrade	3,000	\$14,120,000	Tier 3	Tier 3	Tier 3	Tier 3
2007	E	Arrah Wanna Blvd	US 26 to Fairway Ave	Add paved shoulders	Upgrade	2,500	\$3,530,000	Tier 2	Tier 1	Tier 1	Tier 1

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2008	E	Fairway Ave	Arrah Wanna Blvd to Salmon River Rd	Add paved shoulders	Upgrade	2,500	\$6,170,000	Tier 2	Tier 1	Tier 1	Tier 1
2063	E	282nd Ave	US 26 to OR 212	Perform road safety audit or transportation safety review to identify appropriate safety improvements	Safety	15,000	\$30,000	Tier 1	Tier 1	Tier 1	Tier 1
2069	E	Eagle Creek Rd	Firwood Rd to Duus Rd	Perform road safety audit or transportation safety review to identify appropriate safety improvements	Safety	3,000	\$50,000	Tier 2	Tier 1	Tier 1	Tier 1
2105	E	282nd	282nd Ave / OR 212 intersection	Add second right-turn lane on 282nd	Vehicle Capacity	24,000	\$570,000	Tier NA	Tier NA	Tier 3	Tier 3
2808	E	Mt Hood Aerial Transportation Link	Ski Bowl, Government Camp and Timberline	Aerial transportation link to connect Ski Bowl, Government Camp and Timberline Lodge	Multimodal		\$33,000,000				Tier 3
2809	E	Compton Rd	US 26 to 352nd Ave	Perform road safety audit or transportation safety review to identify appropriate safety improvements	Safety	7,000	\$50,000				Tier 1
U226	E	282nd Ave	OR 212 to Multnomah County line	Add paved shoulders	Upgrade	15,000	\$9,140,000	Tier 1	Tier 2	Tier 3	Tier 3
U227	E	Compton Rd	US 26 to 352nd Ave	Remove vertical curve near Orient Dr and relocate intersection; add paved shoulders	Safety	7,000	\$10,900,000	Tier 1	Tier 2	Tier 3	Tier 3
U229	E	Richey Rd	Kelso Rd to OR 212	Add paved shoulders and left turn lane at Richey Rd and OR 212.	Upgrade	15,000	\$4,090,000	Tier 1	Tier 1	Tier 1	Tier 1
U231	E	Amisigger Rd / Kelso Rd	OR 224 to Kelso / Richey Rd	Add paved shoulders; turn lanes at Amisigger/OR 212 and Kelso/Richey; smooth curves.	Upgrade	12,000	\$12,690,000	Tier 1	Tier 1	Tier 1	Tier 1
U232	E	Kelso Rd	Richey Rd to Orient Dr	Add paved shoulders	Upgrade	5,000	\$15,480,000	Tier 2	Tier 3	Tier 3	Tier 3
U233	E	Kelso Rd	Orient Dr to Sandy UGB	Remove vertical curve, relocate intersection, add paved shoulders and turn lanes at major intersections; investigate speed zone	Upgrade	6,000	\$12,750,000	Tier 1	Tier 3	Tier 3	Tier 3
U234	E	362nd Dr	Colorado Rd to Dubarko Rd	Remove or decrease horizontal and vertical curves	Safety	7,000	\$5,310,000	Tier 3	Tier 3	Tier 3	Tier 3
U235	E	362nd Dr	362nd Ave / Deming Rd intersection	Remove or decrease vertical curve, relocate intersection	Safety	7,000	\$460,000	Tier 3	Tier 3	Tier 3	Tier 3
U237	E	Ten Eyck Rd	Lusted Rd to US 26	Remove vertical curve, relocate intersection, add paved shoulders, turn lanes at major intersections; investigate speed zone	Upgrade	1,000	\$34,620,000	Tier 3	Tier 3	Tier 3	Tier 3
U239	E	Firwood Rd	Firwood Rd / Trubel Rd intersection	Realign Trubel Rd to remove or decrease downgrade	Safety	1,000	\$3,230,000	Tier 3	Tier 3	Tier 3	Tier 3
U241a	E	Welches Rd	US 26 to Birdie Ln	Add paved shoulders; add pedways in Welches rural center	Upgrade	2,500	\$6,360,000	Tier 1	Tier 1	Tier 1	Tier 1
U241b	E	Welches Rd	Birdie Ln to Salmon River Rd	Add paved shoulders	Upgrade	2,500	\$5,300,000	Tier 3	Tier 3	Tier 3	Tier 3
U245	E	Lolo Pass Rd	US 26 to Barlow Trail Rd	Safety analysis; add paved shoulders	Upgrade - Active Transportation	2,500	\$5,340,000	Tier 3	Tier 3	Tier 3	Tier 3
U254	E	Hayden Rd	Springwater Rd to OR 211	Add paved shoulders	Upgrade	7,000	\$5,490,000	Tier 2	Tier 3	Tier 3	Tier 3
U255	E	Springwater Rd	Hayden Rd to OR 211	Add paved shoulders	Upgrade	5,000	\$22,240,000	Tier 3	Tier 3	Tier 3	Tier 3
U256	E	Eagle Creek Rd	Keegan Rd to Currin Rd	Realign Eagle Creek Rd to remove or decrease downgrade	Safety	4,000	\$17,400,000	Tier 3	Tier 3	Tier 3	Tier 3
U257	E	Eagle Creek Rd	Currin Rd to Duus Rd	Remove horizontal curve, relocate intersection, add paved shoulders and turn lanes at major intersection; investigate speed zone south of Currin Road	Upgrade	2,000	\$10,240,000	Tier 3	Tier 1	Tier 1	Tier 1
U258	E	Coupland Rd	Estacada City Limits to Divers Rd	Add paved shoulders and turn lanes at major intersections	Upgrade	3,000	\$11,980,000	Tier 3	Tier 3	Tier 3	Tier 3
U495	E	Bull Run Rd	Ten Eyck Rd to Multnomah County line	Add paved shoulders and turn lanes at major intersections.	Upgrade	2,000	\$20,760,000	Tier 3	Tier 3	Tier 3	Tier 3

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U502	E	Firwood Rd	Wildcat Mountain Dr to US 26	Add paved shoulders and turn lanes at major intersections.	Upgrade	1,000	\$16,840,000	Tier 2	Tier 2	Tier 2	Tier 2
U745	E	Eagle Creek Rd	OR 211 to Duus Rd	Add paved shoulders	Upgrade	3,000	\$14,420,000	Tier 2	Tier 2	Tier 2	Tier 2
U761	E	Salmon River Rd	US 26 to Welches Rd	Add paved shoulders	Upgrade	2,500	\$8,980,000	Tier 3	Tier 3	Tier 3	Tier 3
U781	E	Cazadero Multi-Use Trail	Community of Boring to City of Estacada	Construct multi-use path	Multi-Use Path	15,000	\$1,690,000	Tier 3	Tier 2	Tier 1	Tier 1
U901	E	Bull Run Truss	Bull Run Truss between Waterworks Rd and Bowman Rd	Replace bridge (nearing the end of its useful life)	Bridge	2,000	\$6,750,000	Tier 3	Tier 1	Tier 3	Tier 3
U903	E	Porter Rd Bridge over Delph Creek	~100 ft east of Wilcox Rd	Replace bridge	Bridge	2,500	\$320,000	Tier 3	Tier 3	Tier 3	Tier 3
U924	E	Tickle Creek Trail	Springwater Corridor to Sandy city limits	Construct multi-use path consistent with the Connecting Clackamas Plan	Multi-Use Path	15,000	\$9,430,000	Tier 3	Tier 2	Tier 3	Tier 3
U933	E	Dodge Park Rd Bridge	~192 feet south of Pipeline Rd	Replace bridge (nearing the end of its useful life) and include paved shoulders	Bridge	1,000	\$4,500,000		Tier 1	Tier 1	Tier 1
1016	M	Rupert Rd	Rupert Rd / Oak Grove Blvd intersection	Provide pedestrian crosswalk	Upgrade - Active Transportation	2,000	\$250,000	Tier 1	Tier 1	Tier 1	Remove
1037	M	Lake Oswego to Milwaukie Bridge	Between Sellwood and Oregon City	Construct bike/ped crossing over the Willamette River	Bridge	15,000	\$10,130,000	Tier 2	Tier 1	Tier 1	Tier 1
1038	M	Naef Rd	Naef Rd / Oatfield Rd connection	Open intersection of Naef Rd and Oatfield Rd to through traffic	Upgrade - Vehicle Capacity	2,500	\$180,000	Tier Remove	Tier Remove	Remove	Remove
1039	M	Risley Ave	Risley Ave / Trolley Trail	Pave Risley Ave across the Trolley trail	Upgrade - Vehicle Capacity	2,500	\$210,000	Tier Remove	Tier Remove	Remove	Remove
1042	M	Oak Grove Blvd	Oatfield Rd to River Rd	Fill gaps in pedways and bikeways	Upgrade - Active Transportation	2,000	\$2,520,000	Tier 1	Tier 1	Tier 1	Tier 1
1072	M	Oetkin Way and Naef Rd	Oatfield Rd and Wallace Rd	Add bikeways	Upgrade - Active Transportation	2,500	\$90,000	Tier 3	Tier 3	Tier 3	Tier 3
1078	M	Clackamas Rd	Johnson and Webster Rd	Fill gaps in bikeways and pedways	Upgrade - Active Transportation	3,000	\$3,420,000	Tier 3	Tier 3	Tier 2	Tier 2
1079	M	Clackamas Rd	Clackamas Rd / I-205 interchange	Construct bike/ped bridge over I-205	Bridge	15,000	\$5,060,000	Tier 3	Tier Remove	Tier 3	Tier 3
1084	M	Oatfield Ridge Connection	Between Jennings Ave and Thiessen Ave over Oatfield Ridge	Construct multi-use path	New Roadway	1,000	\$180,000	Tier Remove	Tier 3	Tier 3	Tier 3
2023	M	McNary Rd / Mabel Ave	Oatfield Rd to Webster Rd	Add bikeways and pedways	Upgrade - Active Transportation	2,500	\$15,610,000	Tier Remove	Tier 3	Tier 3	Tier 3
2040	M	Strawberry Ln	Webster Rd to 82nd Dr	Add pedways and fill bikeway gaps	Upgrade - Active Transportation	7,000	\$6,640,000	Tier 3	Tier 3	Tier 3	Tier 3
2041	M	Hull Ave	Wilmot St to Tims View Ave	Fill gaps in pedways	Upgrade - Active Transportation	2,500	\$4,130,000	Tier 1	Tier 1	Tier 1	Tier 1
2042	M	Portland Ave	Jennings Ave to Hull Ave	Fill gaps in pedways	Upgrade - Active Transportation	2,500	\$1,490,000	Tier 3	Tier 3	Tier 3	Tier 3
2043	M	View Acres Rd	Oatfield Rd to Hill Rd	Add pedways and traffic calming	Upgrade - Active Transportation	2,500	\$5,280,000	Tier 3	Tier 3	Tier 3	Tier 3
2044	M	Torbank Rd	River Rd to Trolley Trail	Fill gaps in pedways	Upgrade - Active Transportation	2,500	\$540,000	Tier 3	Tier 1	Tier 1	Tier 1
2045	M	Courtney Ave	OR 99E to Oatfield Rd	Fill gaps in pedways and bikeways	Upgrade - Active Transportation	2,000	\$1,860,000	Tier 1	Tier 1	Tier 1	Tier 1
2087	M	Jennings Ave	Webster Rd to OR 99E	Perform road safety audit or transportation safety review to identify appropriate safety improvements	Safety	8,000	\$60,000	Tier 1	Tier 1	Tier 1	Tier 1

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2088	M	Oatfield Rd	Jennings Ave to Lake Rd	Perform road safety audit or transportation safety review to identify appropriate safety improvements	Safety	8,000	\$120,000	Tier 3	Tier 1	Tier 1	Tier 1
2112	M	Thiessen Rd	Thiessen Rd / Hill Rd intersection	Add right-turn lane on Thiessen Rd; consider converting to two-way stop controlled or installing roundabout	Upgrade - Vehicle Capacity	11,000	\$490,000	Tier 3	Tier 3	Tier 3	Tier 3
2113	M	Thiessen Rd	Thiessen Rd / Aldercrest Rd intersection	Add turn lanes on Thiessen Rd; consider converting to two-way stop controlled	Upgrade - Vehicle Capacity	13,000	\$570,000	Tier 1	Tier 1	Tier 1	Tier 1
2810	M	Aldercrest Dr	Thiessen Rd to Oatfield Rd	Perform road safety audit or transportation safety review to identify appropriate safety improvements	Safety	5,000	\$90,000				Tier 1
U004	M	Webster Rd	Webster Rd / Jennings Ave and Webster Rd / Roots Rd intersections	Construct traffic signals, turn lanes	Upgrade - Vehicle Capacity	13,000	\$2,110,000	Tier 3	Tier 3	Tier 3	Tier 3
U137a	M	River Rd	Lark St to Courtney Ave	Add pedways	Upgrade - Active Transportation	8,000	\$4,760,000	Tier 1	Tier 1	Tier 1	Tier 1
U137b	M	River Rd	Courtney Ave to Oak Grove Blvd	Add pedways	Upgrade - Active Transportation	8,000	\$3,130,000	Tier 3	Tier 3	Tier 3	Tier 3
U137c	M	River Rd	Oak Grove Blvd to Risley Ave	Fill gaps in bikeways and pedways	Upgrade - Active Transportation	8,000	\$5,570,000	Tier 1	Tier 1	Tier 1	Tier 1
U137d	M	River Rd	Risley Ave to Rinearson Rd	Add pedways	Upgrade - Active Transportation	8,000	\$19,580,000	Tier 3	Tier 3	Tier 3	Tier 3
U140a	M	Concord Rd	River Rd to Oatfield Rd	Fill gaps in pedway	Upgrade - Active Transportation	3,000	\$7,230,000	Tier 1	Tier 1	Tier 1	Tier 1
U140b	M	Concord Rd	River Rd to Oatfield Rd	Add turn lanes at major intersections	Upgrade - Vehicle Capacity	3,000	\$570,000	Tier 1	Tier 1	Tier 1	Tier 1
U141	M	Oatfield Rd	Oatfield Rd / Park Rd intersection	Install traffic signal and add turn lanes	Upgrade - Vehicle Capacity	10,000	\$1,060,000	Tier 1	Tier 1	Tier 1	Tier 1
U143	M	Oatfield Rd	Oatfield Rd / Hill Rd intersection	Add left-turn lanes, install signal if warranted	Upgrade - Vehicle Capacity	8,000	\$2,448,000	Tier 3	Tier 3	Tier 3	Tier 3
U145	M	Oatfield Rd	Oatfield Rd / McNary Rd intersection	Add southbound and eastbound left-turn lanes	Upgrade	8,000	\$570,000	Tier 1	Tier 1	Tier 1	Tier 1
U146	M	Aldercrest Dr	Thiessen Rd to Oatfield Rd	Add pedways to one side of the road and bikeways	Upgrade	5,000	\$29,660,000	Tier Remove	Tier 3	Tier 3	Tier 3
U149a	M	Jennings Ave	River Rd to Oatfield Rd	Widen to 2-lane urban minor arterial standard with bikeway and pedway infill	Upgrade - Active Transportation	8,000	\$13,870,000	Tier 2	Tier 1	Tier 1	Tier 1
U149b	M	Jennings Ave	Oatfield Rd to Webster Rd	Widen to 2-lane urban minor arterial standard with bikeway and pedway infill	Upgrade - Active Transportation	8,000	\$13,340,000	Tier 2	Tier 2	Tier 2	Tier 2
U150	M	Webster Rd	OR 224 to Gladstone	Fill gaps in bikeways and pedways	Upgrade - Active Transportation	12,000	\$19,010,000	Tier 3	Tier 3	Tier 2	Tier 2
U152	M	Webster Rd	Webster Rd / Strawberry Ln intersection	Add signal; construct southbound and westbound left-turn lane	Upgrade - Vehicle Capacity	9,000	\$770,000	Tier 3	Tier 3	Tier 3	Tier 3
U154	M	Johnson Rd / McKinley Rd	OR 224 to I-205 multi-use path	Bikeway and pedway infill	Upgrade - Active Transportation	8,000	\$1,770,000	Tier 3	Tier 3	Tier 3	Tier 3
U707	M	Hill Rd	Oatfield Rd to Thiessen Rd	Add bikeways and pedways	Upgrade - Active Transportation	4,000	\$16,210,000	Tier 3	Tier 3	Tier 3	Tier 3
U724	M	Rusk Rd	OR 224 South to Aldercrest Rd	Add pedways on one side of the roadway and bikeways	Upgrade - Active Transportation	11,000	\$8,780,000	Tier Remove	Tier 3	Tier 3	Tier 3
U795	M	Courtney Ave	River Rd to OR 99E (McLoughlin Blvd)	Construct pedway / complete gaps on the south side; add bikeways	Upgrade - Active Transportation	1,000	\$5,010,000	Tier 1	Tier 1	Tier 1	Tier 1

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U798	M	Greenview Ave	Thiessen Rd to Clackamas Rd	Add pedways	Upgrade - Active Transportation	2,500	\$1,680,000	Tier Remove	Tier Remove	Remove	Remove
U799	M	Harold Ave	Concord Rd to Roethe Rd	Add pedways and traffic calming	Upgrade - Active Transportation	2,500	\$3,310,000	Tier 1	Tier 1	Tier 1	Tier 1
U813	M	Naef Rd	Oatfield Rd to River Rd	Add pedways	Upgrade - Active Transportation	2,500	\$3,770,000	Tier Remove	Tier 3	Tier 3	Tier 3
U814	M	Oatfield Rd	Milwaukie city limits to Gladstone city limits	Fill gaps in pedways and bikeways	Upgrade - Active Transportation	8,000	\$52,220,000	Tier 3	Tier 3	Tier 3	Tier 3
U815	M	Park Ave	River Rd to OR 99E (McLoughlin Blvd)	Add pedways	Upgrade - Active Transportation	5,000	\$1,750,000	Tier 1	Tier 1	Tier 1	Tier 1
U816	M	Risley Ave	Arista Dr to Hager Rd	Fill gaps in pedways	Upgrade - Active Transportation	2,500	\$7,250,000	Tier Remove	Tier 3	Tier 3	Tier 3
U818	M	Roethe Rd	River Rd to OR 99E (McLoughlin Blvd)	Add bikeways, pedways and traffic calming	Upgrade - Active Transportation	1,000	\$2,870,000	Tier 3	Tier 3	Tier 3	Tier 3
U819	M	Roots Rd	Webster Rd to McKinley Rd	Add pedways	Upgrade - Active Transportation	8,000	\$4,720,000	Tier 1	Tier 1	Tier 2	Tier 2
U824	M	Thiessen Rd	Oatfield Rd to Webster Rd	Add bikeways and pedways	Upgrade - Active Transportation	11,000	\$23,830,000	Tier 2	Tier 2	Tier 2	Tier 2
1014	NW	Wilsonville Rd	Wilsonville Rd / Bell Rd intersection	Realign roadway and grade improvements	Upgrade	8,000	\$3,300,000	Tier 3	Tier 3	Tier 3	Tier 3
1077	NW	Advance Rd	~2,900 ft west of Mountain Rd	Realign roadway and grade improvements	Upgrade	7,000	\$2,180,000	Tier 2	Tier 1	Tier 2	Tier 2
2029	NW	Schatz Rd / 55th Ave / Meridian Way	65th Ave to Stafford Rd	Add paved shoulders	Upgrade	6,000	\$5,060,000	Tier 3	Tier 3	Tier 3	Tier 3
2030	NW	Mountain Rd	Stafford Rd to Hoffman Rd	Add paved shoulders	Upgrade	8,000	\$14,610,000	Tier 3	Tier 3	Tier 3	Tier 3
2031	NW	Schaeffer Rd	Mountain Rd to Petes Mountain Rd	Add paved shoulders	Upgrade	3,000	\$11,930,000	Tier 3	Tier 3	Tier 3	Tier 3
2032	NW	Hoffman Rd / Peach Cove Rd / Riverwood Rd	Mountain Rd to Tualatin River	Add paved shoulders	Upgrade	8,000	\$8,250,000	Tier 3	Tier 3	Tier 3	Tier 3
2033	NW	Advance Rd	65th Ave to Mountain Rd	Add paved shoulders	Upgrade	13,000	\$11,670,000	Tier 2	Tier 2	Tier 2	Tier 2
2034	NW	Graham's Ferry Rd	County boundary to Westfall Rd	Add paved shoulders	Upgrade	8,000	\$4,540,000	Tier 3	Tier 3	Tier 3	Tier 3
2035	NW	Pleasant Hill Rd / McConnell Rd / Tooze Rd	Ladd Hill Rd to Westfall Rd	Add paved shoulders	Upgrade	7,000	\$12,670,000	Tier 3	Tier 3	Tier 3	Tier 3
2036	NW	Bell Rd	Ladd Hill Rd to Wilsonville Rd	Add paved shoulders	Upgrade	7,000	\$12,410,000	Tier 3	Tier 3	Tier 3	Tier 3
2037	NW	Baker Rd	Tooze Rd to County boundary	Add paved shoulders	Upgrade	12,000	\$7,830,000	Tier 3	Tier 3	Tier 3	Tier 3
2038	NW	Homesteader Rd	Stafford Rd to Mountain Rd	Add paved shoulders	Upgrade	4,000	\$9,810,000	Tier 3	Tier 3	Tier 3	Tier 3
2039	NW	Wisteria Rd / Woodbine Rd	Rosemont Rd to Johnson Rd	Add paved shoulders	Upgrade	2,000	\$7,780,000	Tier 3	Tier 3	Tier 3	Tier 3
2094	NW	Stafford Rd	Rosemont Rd to I-205	Perform road safety audit or transportation safety review to identify appropriate safety improvements	Safety	26,000	\$30,000	Tier 3	Tier 1	Tier 3	Tier 1
2095	NW	Graham's Ferry Rd	Wilsonville Rd to City of Wilsonville	Add paved shoulders	Upgrade	8,000	\$2,120,000	Tier 3	Tier 3	Tier 3	Tier 3
2096	NW	Stafford Rd	I-205 to Boeckman Rd / Advance Rd	Perform road safety audit or transportation safety review to identify appropriate safety improvements	Safety		\$80,000				Tier 1
2811	NW	Advance Rd	53rd Ave to 43rd Dr	Grade and sight distance improvements	Safety		\$1,250,000				Tier 1
U167	NW	Borland Rd	Tualatin City Limits to Stafford Rd	Add paved shoulders and turn lanes at major intersections	Upgrade	21,000	\$5,680,000	Tier 1	Tier 1	Tier 1	Tier 1
U168	NW	Stafford Rd	Rosemont Rd to I-205	Add paved shoulders and turn lanes at major intersections	Upgrade	23,000	\$8,390,000	Tier 1	Tier 1	Tier 1	Tier 1

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U169	NW	Stafford Rd	Stafford Rd / Childs Rd intersection	Install traffic signal and southbound and northbound turn lanes or roundabout	Upgrade - Vehicle Capacity	26,000	\$770,000	Tier 3	Tier 1	Tier 1	Tier 1
U173	NW	Rosemont Rd	Stafford Rd to West Linn	Add paved shoulders and turn lanes at major intersections	Upgrade	16,000	\$8,570,000	Tier 3	Tier 2	Tier 2	Tier 1
U177	NW	Stafford Rd / 65th Ave	I-205 to Boeckman Rd / Advance Rd	Add paved shoulders and turn lanes at major intersections	Upgrade	19,000	\$21,540,000	Tier 2	Tier 2	Tier 2	Tier 2
U180	NW	65th Ave	65th Ave / Elligsen Rd / Stafford Rd intersection	Construct roundabout	Upgrade	16,000	\$5,550,000	Tier 1	Tier 1	Tier 1	Tier 1
U272	NW	Ladd Hill Rd	Wilsonville Rd to Washington County line	Add paved shoulders and turn lanes at major intersections	Upgrade	1,500	\$29,150,000	Tier 3	Tier 3	Tier 3	Tier 3
U273	NW	Wilsonville Rd	Wilsonville Rd / Edminston Rd intersection	Remove bank, remove horizontal curve, relocate intersection	Safety	1,500	\$3,130,000	Tier 3	Tier 3	Tier 3	Tier 3
U462	NW	Childs Rd	Stafford Rd to Lake Oswego city limits	Add pedways, bikeways and turn lanes at major intersections	Upgrade	13,000	\$19,110,000	Tier 3	Tier 3	Tier 3	Tier 3
U466	NW	Petes Mountain Rd	West Linn city limit to Hoffman Rd	Add paved shoulders and turn lanes at major intersections	Upgrade	7,000	\$19,000,000	Tier 3	Tier 3	Tier 3	Tier 3
U700	NW	Bonita	Carman Drive to I-5	Add bikeways and pedways	Upgrade - Active Transportation	10,000	\$11,100,000	Tier 3	Tier 3	Tier 3	Tier 3
U702	NW	Carman	Lake Oswego City Limits to Roosevelt Ave	Add bikeways and pedways; analyze for turn lanes	Upgrade	16,000	\$7,070,000	Tier 1	Tier 1	Tier 1	Tier 1
U737	NW	65th Ave	Stafford Rd to City of Tualatin	Add paved shoulders	Upgrade	14,000	\$11,380,000	Tier 3	Tier 3	Tier 3	Tier 3
U741	NW	Borland Rd	Stafford Rd to City of West Linn	Add paved shoulders	Upgrade	18,000	\$10,030,000	Tier 2	Tier 1	Tier 1	Tier 1
U752	NW	Johnson Rd	Stafford Rd to City of West Linn	Add paved shoulders and turn lanes at major intersections	Upgrade	3,000	\$13,140,000	Tier 3	Tier 3	Tier 3	Tier 3
U922	NW	Tualatin / Lake Oswego Pedestrian and Bicycle Bridge	Tualatin River Bridge	Construct bike / ped bridge consistent with the Connecting Clackamas Plan	Multi-Use Path	15,000	\$4,890,000	Tier 3	Tier 3	Tier 3	Tier 3
U925	NW	French Prairie Bridge	Willamette River near I-5	Construct a bridge consistent with the Connecting Clackamas Plan	Bridge	15,000	\$9,790,000	Tier 1	Tier 1	Tier 1	Tier 1
U926	NW	Tonquin Trail	Willamette River through Wilsonville	Construct bike / ped bridge consistent with the Connecting Clackamas Plan	Multi-Use Path	15,000	\$10,030,000	Tier 3	Tier 3	Tier 1	Tier 1
U927	NW	Childs Rd	Sycamore Ave to 65th Ave	Transfer roadway to local jurisdiction	Other	9,000	\$80,000	Tier 1	Tier 1	Tier 1	Tier 1
U934	NW	Wilsonville Rd Bridge	~300 feet south of Bell Rd	Replace bridge (nearing the end of its useful life)	Bridge	1,500	\$760,000		Tier 1	Tier 3	Tier 3
1047	SW	Redland Rd	Fischers Mill Rd to Springwater Rd	Add paved shoulders	Upgrade	6,000	\$32,210,000	Tier 3	Tier 3	Tier 3	Tier 3
1050	SW	Union Hall Rd	Central Point Rd to El Dorado Rd	Add paved shoulders	Upgrade	1,500	\$11,210,000	Tier 3	Tier 3	Tier 3	Tier 3
1053	SW	Ferguson Rd	Beavercreek Rd and Henrici Rd	Reduce the speed limit and install traffic calming features	Other (Traffic Calming)	2,500	\$10,000	Tier Remove	Tier Remove	Tier 3	Tier 3
1054	SW	S Killdeer Rd	Ferguson Road and Yeoman Road	Extend S Killdeer Rd to connect with S. Ivel Rd. and provide bike/ped access	Multi-Use Path	1,000	\$740,000	Tier 1	Tier 3	Tier 3	Tier 3
1055	SW	Gribble Rd	Mark Rd to Dryland Rd	Reconstruct and widen	Upgrade	2,500	\$11,450,000	Tier 3	Tier Remove	Remove	Remove
1057	SW	Buckner Creek Rd	Gard Rd to Cochell Rd	Add paved shoulders	Upgrade	2,500	\$25,580,000	Tier 3	Tier 3	Tier 3	Tier 3
1065	SW	Molalla Forest Rd	City of Canby to City of Molalla	Pave to provide bicycle access	Multi-Use Path	15,000	\$16,360,000	Tier 2	Tier 1	Tier 2	Tier 2
1066	SW	Emerald Necklace Trail	To Canby Ferry	Extend Molalla Forest Rd to Locust St	Multi-Use Path	15,000	\$430,000	Tier 1	Tier 1	Tier 1	Tier 1
1068	SW	Ferguson Multi-Use Path	Thayer Rd to Ferguson Rd	Multi-use path to connect Ferguson Rd to Thayer Rd	Multi-Use Path	1,000	\$240,000	Tier 1	Tier 3	Tier 1	Tier 1
1074	SW	Clackamas River bridge	From Blay Rd to Palmer Rd at the Clackamas River	Construct bridge over Clackamas River	Bridge	3,000	\$60,030,000	Tier 3	Tier 3	Tier 3	Tier 3
1088	SW	Passmore Rd	East of OR 213	Disconnect east of OR 213 (at school) and create cul-de-sac on western portion of roadway segment	Other (Road Closure)	2,500	\$10,000	Tier 1	Tier 2	Remove (replaced with 1090)	Remove (replaced with 1090)

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1089	SW	Graves Rd	Ranch Hills Rd to OR 213	Realign to create four-way intersection with Mulino Road and OR 213. Install traffic signal.	Safety	21,000	\$5,550,000	Tier 1	Tier 2	Remove (replaced with 1090)	Remove (replaced with 1090)
1090	SW	Graves Rd/Passmore Rd/Mulino Rd	OR 213	Realign to create four-way intersection of Mulino Road/Graves Road/ OR 213. Install traffic signal. Disconnect Passmore Road east of OR 213 (at school) and create cul-de-sac on western portion of roadway segment.	Safety	21,000	\$5,560,000	Tier 1	Tier 2	Tier 1	Remove
2009	SW	Bakers Ferry Rd	Springwater Rd to Eaden Rd	Add paved shoulders	Upgrade	6,000	\$14,040,000	Tier 3	Tier Remove	Remove	Remove
2012	SW	Carus Rd	Central Point Rd to Beaver Creek Rd	Add paved shoulders	Upgrade	4,000	\$28,370,000	Tier 3	Tier 3	Tier 3	Tier 3
2014	SW	Canby-Marquam Highway	City of Canby to OR 211	Add paved shoulders	Upgrade	6,000	\$20,900,000	Tier 3	Tier 3	Tier 3	Tier 3
2015	SW	Meridian Rd	Lone Elder Rd to OR 211	Add paved shoulders	Upgrade	4,000	\$29,000,000	Tier 3	Tier 3	Tier 3	Tier 3
2016	SW	Lone Elder Rd	County line to Canby-Marquam Hwy	Add paved shoulders	Upgrade	3,000	\$15,140,000	Tier 3	Tier 3	Tier 3	Tier 3
2017	SW	Barnards Rd	Meridian Rd to Canby-Marquam Hwy	Add paved shoulders	Upgrade	2,500	\$15,630,000	Tier 3	Tier 3	Tier 3	Tier 3
2018	SW	Leland Rd	Oregon City to Beaver Creek Rd	Add paved shoulders	Upgrade	3,000	\$22,400,000	Tier 3	Tier 3	Tier 3	Tier 3
2019	SW	New Era Rd / Haines Rd	OR 99E to Leland Rd	Add paved shoulders	Upgrade	3,000	\$22,350,000	Tier 3	Tier 3	Tier 3	Tier 3
2020	SW	Forsythe Rd	Oregon City to Bradley Rd	Add paved shoulders	Upgrade	6,000	\$13,900,000	Tier 3	Tier 3	Tier 3	Tier 3
2021	SW	Thayer Rd/Ferguson Rd	Oregon City to Redland Rd	Add paved shoulders	Upgrade	8,000	\$14,690,000	Tier 3	Tier 3	Tier 3	Tier 3
2073	SW	Redland Rd	OR 213 to Hattan Rd	Perform road safety audit or transportation safety review to identify appropriate safety improvements	Safety	12,000	\$80,000	Tier 1	Tier 1	Tier 1	Tier 1
2076	SW	Maplelane Rd	Beaver Creek Rd to Ferguson Rd	Perform road safety audit or transportation safety review to identify appropriate safety improvements	Safety	8,000	\$50,000	Tier 1	Tier 1	Tier 1	Tier 1
2077	SW	Beaver Creek Rd	Lower Highland Rd to Butte Rd	Perform road safety audit or transportation safety review to identify appropriate safety improvements	Safety	4,000	\$50,000	Tier 1	Tier 1	Tier 1	Tier 1
2078	SW	Upper Highland Rd	Beaver Creek Rd to Lower Highland Rd	Perform road safety audit or transportation safety review to identify appropriate safety improvements	Safety	16,000	\$80,000	Tier 1	Tier 1	Tier 1	Tier 1
2082	SW	OR 170	OR 99E to Macksburg Rd	Perform road safety audit or transportation safety review to identify appropriate safety improvements	Safety	11,000	\$60,000	Tier 1	Tier 1	Tier 1	Tier 1
2084	SW	Redland Rd	Redland Rd / Springwater Rd intersection	Perform road safety audit or transportation safety review to identify appropriate safety improvements	Safety	7,000	\$20,000	Tier 1	Tier 1	Tier 1	Tier 1
2085	SW	Beaver Creek Rd	Ferguson Rd to Spangler Rd	Perform road safety audit or transportation safety review to identify appropriate safety improvements	Safety	8,000	\$80,000	Tier 1	Tier 1	Tier 1	Tier 1
2107	SW	Springwater Rd	Springwater Rd / Clackamas River Dr intersection	Install signal at Clackamas River Dr	Upgrade - Vehicle Capacity	36,000	\$200,000	Tier 1	Tier 1	Tier 1	Tier 1
2800	SW	Beaver Creek multi-use path	Loder Rd to Ferguson Rd	Construct multi-use path consistent with the Beaver Creek Road Concept Plan	Multi-Use Path	15,000	\$4,700,000	Tier 2	Tier 2	Tier 2	Tier 2
2801	SW	Hult Rd	OR 211 to Unger Rd	Re-open and improve Hult Rd	Upgrade	1,000	\$1,070,000	Tier 1	Tier 1	Tier 1	Tier 1
2806	SW	Arndt Rd Extension	Barlow to OR 99E	Construct new 2 to 3 lane roadway	New Roadway	32,000	\$17,040,000	Tier 1	Tier 2	Tier 2	Tier 2
U185	SW	Springwater Rd	400 ft east of Hattan Rd	Construct bridge to accommodate paved shoulders	Bridge	15,000	\$3,630,000	Tier 1	Tier 1	Tier 1	Tier 1
U186	SW	Forsythe Rd	Oregon City limits to Bradley Rd	Add center turn lane and paved shoulders	Upgrade	6,000	\$41,930,000	Tier 3	Tier 3	Tier 3	Tier 3

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U187	SW	Forsythe Rd	Forsythe Rd / Victory Rd intersection	Realign, widen Victory Rd and remove or decrease curves along Forsythe Rd; relocate intersection	Safety	6,000	\$3,070,000	Tier 1	Tier 3	Tier 3	Tier 3
U188	SW	Gronlund Rd / Hattan Rd	Bradley Rd to Springwater Rd	Add paved shoulders and turn lanes at major intersections	Upgrade	14,000	\$7,610,000	Tier 3	Tier 3	Tier 3	Tier 3
U189	SW	Hattan Rd	Hattan Rd / Gronlund Rd intersection	Install southbound right-turn lane	Upgrade	23,000	\$290,000	Tier 1	Tier 1	Tier 1	Tier 1
U190	SW	Hattan Rd	Fischers Mill Rd to Gronlund Rd	Add paved shoulders and turn lanes at major intersections	Upgrade	10,000	\$15,050,000	Tier 1	Tier 2	Tier 2	Tier 2
U194	SW	Bradley Rd	Redland Rd to Holcomb Blvd	Add turn lanes at major intersections	Upgrade	6,000	\$1,140,000	Tier 3	Tier 3	Tier 3	Tier 3
U195	SW	Redland Rd	~900 ft west of Holly Ln	Widen to include shoulders and bikeways	Upgrade - Active Transportation	19,000	\$4,210,000	Tier 3	Tier 3	Tier 3	Tier 3
U196	SW	Redland Rd	~400 ft west of Holly Ln	Widen to include shoulders and bikeways	Upgrade - Active Transportation	19,000	\$2,930,000	Tier 3	Tier 3	Tier 3	Tier 3
U197	SW	Redland Rd	Redland Rd / Holly Rd intersection	Install traffic signal and westbound and northbound left-turn lanes or roundabout	Upgrade - Vehicle Capacity	16,000	\$770,000	Tier 1	Tier 1	Tier 1	Tier 1
U198	SW	Redland Rd	Henrici Rd to Oregon City	Add paved shoulders	Upgrade	16,000	\$23,310,000	Tier 3	Tier 3	Tier 3	Tier 3
U199	SW	Redland Rd	Redland Rd / Ferguson Rd intersection	Construct roundabout	Upgrade - Vehicle Capacity	16,000	\$5,550,000	Tier 1	Tier 1	Tier 1	Tier 1
U201	SW	Redland Rd	Redland Rd / Bradley Rd intersection	Install eastbound left-turn lane	Upgrade - Vehicle Capacity	11,000	\$290,000	Tier 2	Tier 2	Tier 2	Tier 2
U203	SW	Fischers Mill Rd	Fischers Mill / Hattan Rd intersection	Install eastbound left-turn lane	Upgrade	12,000	\$290,000	Tier 1	Tier 1	Tier 1	Tier 1
U204	SW	Redland Rd	Redland Rd / Fischers Mill Rd / Henrici Rd intersection	Install eastbound left-turn, eastbound right-turn and westbound right-turn lanes at Henrici Rd	Upgrade	11,000	\$860,000	Tier 2	Tier 2	Tier 2	Tier 2
U206	SW	Henrici Rd	Between Driftwood Dr and Shore Vista Dr	Widen bridge to accommodate paved shoulders	Bridge	7,000	\$1,620,000	Tier 1	Tier 3	Tier 3	Tier 3
U210	SW	Henrici Rd	OR 213 to Beavercreek Rd	Add paved shoulders and turn lanes at major intersections	Upgrade	8,000	\$5,070,000	Tier 1	Tier 1	Tier 2	Tier 2
U211	SW	Beavercreek Rd	Henrici Rd to Yeoman Rd/Steiner Rd	Add paved shoulders and turn lanes at major intersections	Upgrade	11,000	\$11,340,000	Tier 1	Tier 1	Tier 1	Tier 1
U212	SW	Maplelane Rd	~1,800 ft west of Walker Rd	Add paved shoulders	Upgrade	6,000	\$4,000,000	Tier 3	Tier 3	Tier 3	Tier 3
U213	SW	Leland Rd	~1,000 ft north of Warnock Rd	Construct bridge to accommodate paved shoulders	Bridge	2,000	\$2,590,000	Tier 1	Tier 3	Tier 3	Tier 3
U214	SW	South End Rd	Oregon City limits to OR 99E	Smooth curves; add paved shoulders	Upgrade	7,000	\$7,070,000	Tier 3	Tier 3	Tier 3	Tier 3
U247	SW	Bakers Ferry Rd	Springwater Rd to OR 224	Add paved shoulders and turn lanes at major intersections; remove horizontal curve and relocate intersection from Eaden Rd to OR 224	Upgrade	11,000	\$20,250,000	Tier 3	Tier 3	Tier 3	Tier 3
U249a	SW	Springwater Rd	Hattan Rd to Bakers Ferry Rd	Add paved shoulders and turn lanes at major intersections	Upgrade	8,000	\$6,170,000	Tier 1	Tier 1	Tier 1	Tier 1
U249b	SW	Springwater Rd	Bakers Ferry Rd to Hayden Rd	Add paved shoulders and turn lanes at major intersections	Upgrade	8,000	\$40,720,000	Tier 1	Tier 3	Tier 3	Tier 3
U250	SW	Springwater Rd	Springwater Rd / Bakers Ferry Rd intersection	Install southbound left-turn lane; realign intersection to fix skew.	Upgrade	15,000	\$5,350,000	Tier 2	Tier 2	Tier 2	Tier 2
U260	SW	Fellows Rd	Redland Rd to Lower Highland Rd	Add paved shoulders and turn lanes at major intersections	Upgrade	2,000	\$18,750,000	Tier 3	Tier 3	Tier 3	Tier 3
U261a	SW	Ridge Rd	~1 miles north of Lower Highland Rd	Fix sinkhole	Upgrade	3,000	\$2,230,000	Tier 1	Tier 1	Tier 1	Tier 1
U261b	SW	Ridge Rd	Lower Highland Rd to Redland Rd	Add paved shoulders	Upgrade	3,000	\$15,500,000	Tier 3	Tier 3	Tier 3	Tier 3
U262	SW	Redland Rd	Henrici Rd to Springwater Rd	Add paved shoulders and turn lanes at major intersections	Upgrade	6,000	\$37,640,000	Tier 3	Tier 3	Tier 3	Tier 3

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U263	SW	Lower Highland Rd	Beavercreek Rd to Fellows Rd	Add paved shoulders and turn lanes at major intersections	Upgrade	2,000	\$26,890,000	Tier 3	Tier 3	Tier 3	Tier 3
U264	SW	Unger Rd	Beavercreek Rd to OR 211	Add paved shoulders and turn lanes at major intersections	Upgrade	1,000	\$27,820,000	Tier 3	Tier 3	Tier 3	Tier 3
U265	SW	Beavercreek Rd	Beavercreek Rd / Leland Rd / Kamrath Rd intersection	Construct roundabout with additional analysis	Upgrade - Vehicle Capacity	7,000	\$4,510,000	Tier 2	Tier 1	Tier 1	Tier 1
U267	SW	Central Point Rd	Parrish Rd to Mulino Rd	Add paved shoulders; smooth curves	Upgrade	3,000	\$28,550,000	Tier 3	Tier 3	Tier 3	Tier 3
U269	SW	Casto Rd	Spangler Rd to Central Point Rd	Add paved shoulders and turn lanes at major intersections	Upgrade	5,000	\$9,330,000	Tier 3	Tier 3	Tier 3	Tier 3
U270	SW	Spangler Rd	Casto Rd to Beavercreek Rd	Add paved shoulders and turn lanes at major intersections	Upgrade	3,000	\$20,950,000	Tier 3	Tier 3	Tier 3	Tier 3
U271	SW	Kamrath Rd	Carus Rd to Spangler Rd	Safety analysis at Carus Rd, add paved shoulders, remove or decrease horizontal curves north of Spangler Rd	Upgrade	7,000	\$4,140,000	Tier 3	Tier 3	Tier 3	Tier 3
U275	SW	Boones Ferry Rd	Boones Ferry Rd / Butteville Rd intersection	Remove bank, remove/decrease horizontal curve	Safety	1,000	\$4,020,000	Tier 1	Tier 1	Tier 1	Tier 2
U276	SW	Airport Rd	Airport Rd / Miley Rd intersection	Install traffic signal	Upgrade - Vehicle Capacity	22,000	\$200,000	Tier 1	Tier 1	Tier 1	Tier 1
U277	SW	Airport Rd	Arndt Rd to Miley Rd	Add turn lanes at major intersections	Upgrade - Vehicle Capacity	15,000	\$1,710,000	Tier 3	Tier 3	Tier 3	Tier 3
U279	SW	Arndt Rd	OR 551 to Knights Bridge Rd	Widen to 4 lanes with median, left-turn lanes and paved shoulders	Upgrade	32,000	\$23,840,000	Tier Remove	Tier Remove	Remove	Remove
U281	SW	Barlow Rd	Arndt Rd / Barlow Rd intersection	Realign intersection	Safety	16,000	\$3,230,000	Tier 1	Tier Remove	Remove	Remove
U284	SW	Knights Bridge Rd	Knights Bridge Rd / Barlow Rd intersection	Remove vertical curve; improve drainage	Safety	20,000	\$2,150,000	Tier 1	Tier Remove	Remove	Remove
U285	SW	Holly St	Territorial Rd to Canby Ferry	Add paved shoulders	Upgrade	1,500	\$7,760,000	Tier 3	Tier 3	Tier 3	Tier 1
U290	SW	Township Rd	Central Point Rd to Canby City limit	Add paved shoulders and turn lanes at major intersections	Upgrade	5,000	\$7,940,000	Tier 1	Tier 1	Tier 1	Tier 1
U292	SW	Mulino Rd	Mulino Rd / 13th Ave	Relocate intersection to south away from railroad trestle	Safety	3,000	\$3,070,000	Tier 2	Tier 1	Tier 1	Tier 1
U295	SW	Canby-Marquam Highway	Canby-Marquam Hwy / Lone Elder Rd intersection	Reconstruct intersection; install northbound left-turn lane and southbound right-turn lane	Upgrade - Vehicle Capacity	11,000	\$3,750,000	Tier 1	Tier 1	Tier 1	Tier 1
U297	SW	Gard Rd	~100 ft south of Old Clarke Rd	Construct bridge to accommodate paved shoulders	Bridge	1,500	\$3,570,000	Tier 1	Tier 3	Tier 3	Tier 3
U298	SW	Canby-Marquam Highway	OR 170 / Macksburg Rd intersection	Reconstruct intersection; install southbound left-turn lane and northbound right-turn lane	Upgrade	9,000	\$3,750,000	Tier 3	Tier 3	Tier 3	Tier 3
U299	SW	Dryland Rd	Macksburg Rd S to Macksburg Rd N	Realign to form one intersection at Dryland Rd	Upgrade	7,000	\$3,400,000	Tier 2	Tier 2	Tier 2	Tier 2
U300	SW	Macksburg Rd	Canby Marquam Hwy to OR 213	Add paved shoulders and turn lanes at major intersections	Upgrade	4,000	\$29,040,000	Tier 3	Tier 3	Tier 3	Tier 3
U302a	SW	Union Mills Rd	OR 213 to OR 211	Add turn lanes at major intersections	Upgrade - Vehicle Capacity	9,000	\$860,000	Tier 1	Tier 1	Tier 1	Tier 1
U302b	SW	Union Mills Rd	OR 213 to OR 211	Construct a should on the south side of the roadway	Upgrade	9,000	\$8,970,000	Tier 1	Tier 3	Tier 1	Tier 1
U303	SW	Meridian Rd	Elliott Prairie Rd to Barlow Rd	Add paved shoulders; remove or decrease horizontal and vertical curves	Upgrade	1,500	\$9,760,000	Tier 3	Tier 3	Tier 3	Tier 3
U304	SW	Meridian Rd	Meridian Rd / Whiskey Hill Rd intersection	Limit access/egress points to and from school on NE corner of intersection	Safety	4,000	\$200,000	Tier 1	Tier 1	Tier 1	Tier 1
U306	SW	Barnards Rd	Between Needy Rd and Stuwe Rd	Reconstruct bridge and widen to 36 feet	Bridge	2,500	\$3,560,000	Tier 1	Tier 3	Tier 3	Tier 3

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U310	SW	Canby-Marquam Highway	~1,900 ft south of Barnards Rd	Replace bridge (nearing the end of its useful life) with 2-lane structure including paved shoulders	Bridge	6,000	\$5,580,000	Tier 1	Tier 1	Tier 1	Tier 1
U311	SW	Molalla Ave	OR 213 to Molalla City limits	Add paved shoulders	Upgrade	10,000	\$9,170,000	Tier 3	Tier 3	Tier 3	Tier 3
U314	SW	Wright Rd	OR 211 to Callahan Rd	Add paved shoulders	Upgrade	1,500	\$14,160,000	Tier 3	Tier 3	Tier 3	Tier 3
U315	SW	Callahan Rd S (beginning on Ramsby Rd)	Dickie Prairie Rd to Fernwood Rd	Add paved shoulders and turn lanes at major intersections	Upgrade	1,500	\$12,140,000	Tier 3	Tier 3	Tier 3	Tier 3
U316	SW	Fernwood Rd	Dhooghe Rd to Callahan Rd	Add paved shoulders and turn lanes at major intersections	Upgrade	1,500	\$6,660,000	Tier 3	Tier 3	Tier 3	Tier 3
U317	SW	Dhooghe Rd	OR 211 to Fernwood Rd	Add paved shoulders and turn lanes at major intersections	Upgrade	1,500	\$16,190,000	Tier 3	Tier 3	Tier 3	Tier 3
U318	SW	Klang's Mill bridge	~1,000 ft north of OR 211	Replace bridge (nearing the end of its useful life)	Bridge	2,500	\$1,620,000	Tier 1	Tier 1	Tier 1	Tier 1
U320	SW	Sawtell Rd	Maple Grove Rd to Wilhoit Rd	Add paved shoulders and turn lanes at major intersections	Upgrade	1,500	\$38,450,000	Tier 3	Tier 3	Tier 3	Tier 3
U321	SW	Wildcat Rd	Wilhoit Rd to OR 213	Add paved shoulders and turn lanes at major intersections	Upgrade	2,500	\$29,140,000	Tier 3	Tier 3	Tier 3	Tier 3
U322	SW	Nowlens Bridge Rd	OR 213 to Maple Grove Rd	Add paved shoulders and turn lanes at major intersections	Upgrade	1,000	\$13,020,000	Tier 3	Tier 3	Tier 3	Tier 3
U323	SW	Blair Rd	Groshong Rd to Maple Grove Rd	Add paved shoulders and turn lanes at major intersections	Upgrade	2,500	\$3,360,000	Tier 3	Tier 3	Tier 3	Tier 3
U325	SW	Bird Rd	Groshong Rd to Wilhoit Rd	Add paved shoulders and turn lanes at major intersections	Upgrade	3,000	\$5,120,000	Tier 3	Tier 3	Tier 3	Tier 3
U326	SW	Maple Grove Rd	Nowlens Bridge Rd to Sawtell Rd	Add paved shoulders and turn lanes at major intersections	Upgrade	3,000	\$34,760,000	Tier 3	Tier 3	Tier 3	Tier 3
U332	SW	Rock Creek (Kropf Rd) Bridge	~3,500 ft north of Gibson Rd	Replace bridge	Bridge	3,000	\$2,160,000	Tier 1	Tier 3	Tier 3	Tier 3
U449	SW	Barlow Rd	Barlow Rd / OR 99E intersection	Add dual left-turn lanes on southbound Barlow	Vehicle Capacity	21,000	\$570,000	Tier NA	Tier NA	Tier 3	Tier 1
U469	SW	Clackamas River Dr	Oregon City city limits to Springwater Rd	Add paved shoulders and turn lanes at Springwater Rd and Forsythe Rd	Upgrade	9,000	\$23,240,000	Tier 3	Tier 3	Tier 3	Tier 3
U473	SW	Holcomb Blvd	Edenwild Ln to Bradley Rd	Add paved shoulders and turn lanes at Holcomb Blvd / Bradley Rd	Upgrade	3,000	\$7,450,000	Tier 3	Tier 3	Tier 3	Tier 3
U475a	SW	Henrici Rd	Beavercreek Rd to Ferguson Rd	Add paved shoulders and turn lanes at major intersections. Remove horizontal and vertical curves	Upgrade	9,000	\$4,900,000	Tier 2	Tier 2	Tier 1	Tier 1
U475b	SW	Henrici Rd	Ferguson Rd to Redland Rd	Add paved shoulders and turn lanes at major intersections. Remove horizontal and vertical curves	Upgrade	9,000	\$17,870,000	Tier 2	Tier 3	Tier 2	Tier 2
U503	SW	Mattoon Rd	Fischers Mill Rd to Redland Rd	Add paved shoulders and turn lanes at major intersections. Remove vertical curves, remove horizontal curves north of Redland Rd	Upgrade	3,000	\$15,360,000	Tier 3	Tier 3	Tier 3	Tier 3
U504	SW	Mulino Rd (13th St segment)	Canby City limits to OR 213	Add paved shoulders and turn lanes at major intersections	Upgrade	4,000	\$24,890,000	Tier 2	Tier 2	Tier 2	Tier 2
U505	SW	Toliver Rd	Dryland Rd to Molalla City Limits	Add paved shoulders	Upgrade	2,500	\$10,650,000	Tier 3	Tier 3	Tier 3	Tier 3
U738	SW	Barlow Rd	Knights Bridge Rd to OR 99E	Add paved shoulders	Upgrade	16,000	\$5,400,000	Tier 3	Tier 3	Tier 3	Tier 3
U739	SW	Beavercreek Rd	Yeoman Rd/Steiner Rd to OR 211	Add paved shoulders	Upgrade	4,000	\$47,550,000	Tier 2	Tier 3	Tier 3	Tier 3
U742	SW	Bradley Rd	Gronlund Rd to Redland Rd	Add paved shoulders	Upgrade	7,000	\$12,300,000	Tier 3	Tier 3	Tier 3	Tier 3
U746	SW	Fischers Mill Rd	Redland Rd to Springwater Rd	Add paved shoulders	Upgrade	5,000	\$18,090,000	Tier 3	Tier 3	Tier 3	Tier 3
U747	SW	Gray's Hill Rd	Green Mountain Rd to OR 211	Add paved shoulders	Upgrade	2,500	\$9,720,000	Tier 3	Tier 3	Tier 3	Tier 3
U750	SW	Holly Ln	Maplelane Rd to Redland Rd	Add paved shoulders	Upgrade	7,000	\$8,350,000	Tier 3	Tier 3	Tier 3	Tier 3

TSP Update ID	Geographic Area	Project Name / Street Name	Segment / Locations	Project Description	Project Category	Projected Future Demand*	Planning Level Cost Estimate	GAPS Recommendation	TAC Recommendation	PAC Recommendation	Draft Recommendation to the Planning Commission
U754	SW	Maplelane Rd	Oregon City UGB to Ferguson Rd	Add paved shoulders	Upgrade	8,000	\$8,730,000	Tier 3	Tier 3	Tier 3	Tier 3
U755	SW	Miley Rd	Airport Rd to Eilers Rd	Add paved shoulders	Upgrade	16,000	\$6,130,000	Tier 3	Tier 3	Tier 3	Tier 3
U756	SW	Molalla Ave	OR 213 to Molalla City limits	Add paved shoulders	Upgrade	10,000	\$7,980,000	Tier 3	Tier Remove	Remove	Remove
U782	SW	Oregon City boundary to Mulino Trail		Construct multi-use path	Multi-Use Path	15,000	\$14,570,000	Tier 1	Tier 3	Tier 3	Tier 3
U784	SW	Canby - Molalla Railroad Trail		Construct multi-use path	Multi-Use Path	15,000	\$14,430,000	Tier 2	Tier 2	Tier 2	Tier 2
U920	SW	Newell Creek Trail / Oregon City Loop Trail	Loop around the perimeter of Oregon City	Construct multi-use path consistent with the Connecting Clackamas Plan	Multi-Use Path	15,000	\$24,500,000	Tier 2	Tier 2	Tier 2	Tier 2
U929	SW	Clarks Four Corners Intersection	Beavercreek Rd / Unger Rd	Reconstruct intersection	Safety	4,000	\$4,380,000	Tier 1	Tier 1	Tier 1	Tier 1
U932	SW	Lone Elder Rd Bridge	~5,800 feet east of Barlow Rd	Replace bridge (nearing the end of its useful life) and include paved shoulders	Bridge	3,000	\$430,000		Tier 1	Tier 1	Tier 1
U935	SW	Knights Bridge Rd Bridge	~3,200 feet east of Barlow Rd	Replace bridge (nearing the end of its useful life)	Bridge	15,000	\$6,300,000		Tier 1	Tier 3	Tier 3
U938	SW	Molalla Ave Flooding	Just south of city of Molalla	Construct bridge to resolve flooding issues	Bridge	2,000	\$720,000		Tier 1	Tier 2	Tier 2

Table 2: Projects with Changes in Recommended Priority Since PAC Meeting #5C

TSP Update ID	Geographic Area	Project Name / Street Name	Segment / Locations	Project Description	Project Category	Projected Future Demand*	Planning Level Cost Estimate	GAPS Recommendation	TAC Recommendation	PAC Recommendation	Draft Recommendation to the Planning Commission	Change in Priority - Explanation
U941	CRC	84th Ave	Sunnyside Rd to Sunnybrook Blvd	Fill in bikeways and pedways gaps	Upgrade - Active Transportation		\$1,050,000				Tier 3	Project added - replaces bike/ped improvements included in U001 (Sunnybrook Extension, removed) and supplements U924 (Tickle Creek Trail, Tier 3); provides needed connectivity improvements.
2808	E	Mt Hood Aerial Transportation Link	Ski Bowl, Government Camp and Timberline	Aerial transportation link to connect Ski Bowl, Government Camp and Timberline Lodge	Multimodal		\$33,000,000				Tier 3	Project added -
2809	E	Compton Rd	US 26 to 352nd Ave	Perform road safety audit or transportation safety review to identify appropriate safety improvements	Safety	7,000	\$50,000				Tier 1	Project added - addresses safety issues on Compton Rd and supplements project U227 (add shoulders and remove vertical curve on Compton Rd, Tier 3).
1016	M	Rupert Rd	Rupert Rd / Oak Grove Blvd intersection	Provide pedestrian crosswalk	Upgrade - Active Transportation	2,000	\$250,000	Tier 1	Tier 1	Tier 1	Remove	Project removed - ped improvements will be included in project 1042 (pedways on Oak Grove Blvd).
2810	M	Aldercrest Dr	Thiessen Rd to Oatfield Rd	Perform road safety audit or transportation safety review to identify appropriate safety improvements	Safety	5,000	\$90,000				Tier 1	Project added - supplements project U146 (pedways and bikeways on Aldercrest, Tier 3, TAC noted would be challenging to construct).
2094	NW	Stafford Rd	Rosemont Rd to I-205	Perform road safety audit or transportation safety review to identify appropriate safety improvements	Safety	26,000	\$30,000	Tier 3	Tier 1	Tier 3	Tier 1	Project moved up in priority - TAC support Tier 1; inexpensive project with significant safety benefits.
2096	NW	Stafford Rd	I-205 to Boeckman Rd / Advance Rd	Perform road safety audit or transportation safety review to identify appropriate safety improvements	Safety		\$80,000				Tier 1	Project added - supplements road safety audit on northern portion of Stafford Rd.
2811	NW	Advance Rd	53rd Ave to 43rd Dr	Grade and sight distance improvements	Safety		\$1,250,000				Tier 1	Project added - addresses safety issues at curve on Advance Rd; several fatalities at this location noted by TAC.
U173	NW	Rosemont Rd	Stafford Rd to West Linn	Add paved shoulders and turn lanes at major intersections	Upgrade	16,000	\$8,570,000	Tier 3	Tier 2	Tier 2	Tier 1	Project moved up in priority - public comment and bike/ped community support Tier 1; unsafe for cars and bicycles.
U700	NW	Bonita	Carman Drive to I-5	Add bikeways and pedways	Upgrade - Active Transportation	10,000	\$11,100,000	Tier 3	Tier 3	Tier 3	Tier 3	Project raised for discussion - multiple public comments have expressed support for altering this project's description (to narrow the traffic lanes and install traffic calming) and/or support for Tier 1.
1090	SW	Graves Rd/Passmore Rd/Mulino Rd		Realign to create four-way intersection of Mulino Road/Graves Road/ OR 213. Install traffic signal. Disconnect Passmore Road east of OR 213 (at school) and create cul-de-sac on western portion of roadway segment.	Safety	21,000	\$5,560,000	Tier 1	Tier 2	Tier 1	Remove	Project Removed - public comment from citizens and the Hamlet of Mulino supports removal of the project, Hamlet Board of Directors voted 4 to 1 to stop promoting this project, school district and Hamlet working on long range plans for the area and have not highlighted a need for this project.
U275	SW	Boones Ferry Rd	Boones Ferry Rd / Butteville Rd intersection	Remove bank, remove/decrease horizontal curve	Safety	1,000	\$4,020,000	Tier 1	Tier 1	Tier 1	Tier 2	Project moved down in priority - TAC comments: crash history / data does not support Tier 1 priority. Other safety projects with fatalities are higher priority.
U285	SW	Holly St	Territorial Rd to Canby Ferry	Add paved shoulders	Upgrade	1,500	\$7,760,000	Tier 3	Tier 3	Tier 3	Tier 1	Project moved up in priority - multiple public comments support Tier 1; need for bicycle access, safety concerns.
U449	SW	Barlow Rd	Barlow Rd / OR 99E intersection	Add dual left-turn lanes on southbound Barlow	Vehicle Capacity	21,000	\$570,000	Tier NA	Tier NA	Tier 3	Tier 1	Project moved up in priority - TAC concerned with congestion in this area.