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**Public Review Draft  
Air Quality Conformity  
Determination**

**January 18, 2008**

**2035  
REGIONAL TRANSPORTATION PLAN  
and  
2008-11  
METROPOLITAN TRANSPORTATION  
IMPROVEMENT PROGRAM**

## **Metro**

People places • open spaces

Clean air and clean water do not stop at city limits or county lines. Neither does the need for jobs, a thriving economy and good transportation choices for people and businesses in our region. Voters have asked Metro to help with the challenges that cross those lines and affect the 25 cities and three counties in the Portland metropolitan area.

A regional approach simply makes sense when it comes to protecting open space, caring for parks, planning for the best use of land, managing garbage disposal and increasing recycling. Metro oversees world-class facilities such as the Oregon Zoo, which contributes to conservation and education, and the Oregon Convention Center, which benefits the region's economy.

### **Your Metro representatives**

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**Metro Councilors** – Rod Park, District 1; Carlotta Collette, District 2; Carl Hosticka, District 3; Kathryn Harrington, District 4; Rex Burkholder, District 5; Robert Liberty, District 6.

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**Metro's web site:** [www.metro-region.org](http://www.metro-region.org)

**Project web site:** [www.metro-region.org/rtp](http://www.metro-region.org/rtp)

**Metro is the federally mandated metropolitan planning organization** designated by the governor to develop an overall transportation plan and to allocate federal funds for the region.

The Joint Policy Advisory Committee on Transportation (JPACT) is a 17-member committee that provides a forum for elected officials and representatives of agencies involved in transportation to evaluate transportation needs in the region and to make recommendations to the Metro Council.

The established decision-making process assures a well-balanced regional transportation system and involves local elected officials directly in decisions that help the Metro Council develop regional transportation policies, including allocating transportation funds.

*The preparation of this report was financed in part by the U.S. Department of Transportation, Federal Highway Administration and Federal Transit Administration. The opinions, findings and conclusions expressed in this report are not necessarily those of the U.S. Department of Transportation, Federal Highway Administration and Federal Transit Administration.*

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## 1.0 Overview

### 1.1 What is Transportation Conformity/Report Purpose

Transportation Conformity is described by the US Department of Transportation (USDOT) as “...a way to ensure that Federal funding and approval are given to those transportation activities that are consistent with air quality goals. It ensures that these transportation activities do not worsen air quality or interfere with the ‘purpose’ of the State Implementation Plan (SIP), which is to meet the National Ambient Air Quality Standards (NAAQS).”

This report analyses the 2035 Regional Transportation Plan (RTP) Financially Constrained System and reanalyzes the 2008-2011 Metropolitan Transportation Improvement Program (MTIP), estimating the future air quality conditions and comparing those with the motor vehicle emission budgets, or maximum amounts of regulated pollutants generated by on road vehicles. This analysis, using best available information and Environmental Protection Agency (EPA), USDOT and Oregon Department of Environmental Quality (DEQ) approved methods, determines whether proposed transportation improvements conform with federal and state air quality laws.

### 1.2 Results/Conclusions

The 2035 RTP and 2008-2011 MTIP, using the MOBILE6.2 air quality model, have been analyzed for compliance with air quality standards for Carbon Monoxide as established by the EPA, USDOT and Oregon DEQ as follows:

**Table 1. Comparison of Motor Vehicle Emission Budgets and Forecast Carbon Monoxide Emissions from Surface Transportation Sources**

<b>Year</b>	<b>Carbon Monoxide Motor Vehicle Emission Budgets (Budgets are Maximum Allowed Emissions) (pounds/ winter day)</b>	<b>Forecast Carbon Monoxide Motor Vehicle Emissions (pounds/ winter day)</b>
<b>2007</b>	N/A	935,394
<b>2010</b>	1,033,578	856,054
<b>2017</b>	1,181,341	670,926
<b>2025</b>	1,181,341	801,203
<b>2035</b>	1,181,341	822,596

The above data show that for the years 2010, 2017, 2025 and 2035, Carbon Monoxide emissions from on-road transportation sources are less than the maximum allowed levels (motor vehicle emission budgets).

From these data, and the fact that the region is in compliance with all other air pollutant regulations, we conclude that the 2035 RTP and 2008-2011 MTIP, and the proposed transportation improvements contained within them, meet federal and state air quality standards.

### 1.3 Regulatory and Process Background

The federal Clean Air Act is the primary regulatory framework for national, state and local efforts to protect air quality. Under the Clean Air Act, the EPA is responsible for setting standards, known as national ambient air quality standards (NAAQS), for pollutants considered harmful to people and the environment. These standards are set at levels that are meant to protect the health of the most sensitive population groups, including the elderly, children and people with respiratory diseases. Air quality planning is focused on meeting the NAAQS and deadlines set by the federal EPA and DEQ for meeting the standards. Further, the United States Department of Transportation has established regulations. Failing to conform restricts an area's ability to receive federal transportation funds during any period for which the air quality approval has lapsed.

More specifically, federal air quality conformity requirements come from the integration of requirements in the Clean Air Act Amendments of 1990 and the *Intermodal Surface Transportation Efficiency Act* (ISTEA) of 1991 and are codified at 40 CFR Part 93. These requirements were also included in the *Transportation Equity Act for the 21st Century* (TEA21) and most recently in the *Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users* (SAFETEA-LU). SAFETEA-LU has made changes and additions to the previous air quality requirements for transportation planning and these are reflected in this document.

Oregon's air quality regulations, adopted by the Oregon Environmental Quality Commission under OAR 340-200-0040 and approved by EPA, establishes rules and standards for determining air quality conformity of transportation plans, programs and projects within Oregon (specifically, OAR 340 Division 252). These regulations contain all federal requirements plus a few additional state standards. The Department of Environmental Quality is responsible for writing the air quality plan for the Metro region. By meeting the Oregon standards for purposes of demonstrating air quality conformity, the federal standards are also met.

Metro is the Portland area's designated Metropolitan Planning Organization (MPO). As the MPO, Metro is the lead agency for development of regional transportation plans and the scheduling of federal transportation funds in the Portland urban area. The Metro Council, after receiving recommendations from the Joint Policy Advisory Committee on Transportation (JPACT), approves regional transportation plans and implementation programs and air quality conformity determinations. In addition, the Transportation Policy Alternatives Committee (TPAC) is specifically named in the state rule as the standing committee designated for "interagency consultation", a technical review process.

The 2004 Regional Transportation Plan (RTP) and 2004-2007 Metropolitan Transportation Improvement Plan (MTIP) were conformed and, after consultation with the USEPA, received approval of USDOT on March 5, 2004. As Metro and the region have proposed a new 2035 RTP and 2008-2011 MTIP, an air quality conformity determination has been prepared for the transportation improvements proposed in this latest region-wide transportation plan and the implementing transportation improvement program.

In order to demonstrate that the proposed 2035 RTP and 2008-2011 MTIP meet federal and state air quality planning requirements, Metro must complete a technical analysis, consult with relevant agencies and provide for public comment. The draft conformity determination report is then brought to the Joint Policy Advisory Committee on Transportation (JPACT – see <http://www.metro-region.org/index.cfm/go/by.web/id=305> for more information about this committee) for consideration and then the Metro Council.

A Metro Council (<http://www.metro-region.org/index.cfm/go/by.web/id=28>) approved air quality conformity determination is submitted to the United States Department of Transportation (USDOT). In practice, this means review by the Federal Highway Administration and Federal Transit Administration. These USDOT agencies make a conformity determination after consultation with the Environmental Protection Agency. Upon USDOT approval, federal funding of transportation projects may commence.

#### **1.4 Status of Pollutants in the Region**

The National Ambient Air Quality Standards adopted by both the EPA and DEQ identify seven air pollutants for which standards are established and regulations in place to address areas which exceed or exceeded the standards in the past. (Other air pollutants, such as benzene, have been identified, but standards and procedures for addressing them have not been approved.) These seven air pollutants are:

- Carbon Monoxide;
- Lead;
- Nitrogen Dioxide;
- Ozone;
- Particulate Matter (2.5 micrometers and smaller diameter);
- Particulate Matter (10 micrometers and smaller diameter); and,
- Sulfur Dioxide.

The Portland/Vancouver area has one interconnected airshed. However, given the State boundary along the Columbia River and the differing jurisdictions and state laws, the Federal government approved each side of the airshed taking responsibility for its area. For the Oregon side, a Metro area airshed was established.

The Metro region has not exceeded the standards for five of these air pollutants – Lead, Nitrogen Dioxide, PM10, PM2.5 and Sulfur Dioxide. However, in the past, the Metro region has exceeded Carbon Monoxide and Ozone standards. Charts showing the historic record for the Metro area for Carbon Monoxide are included below. The region no longer needs to address air quality conformity for ozone, though past and present ozone levels for the region are shown in the appendix.

The current status, as determined by the US EPA as of January 16, 2008, is that the Metro area has a maintenance status for Carbon Monoxide. (For the region's Carbon Monoxide status, see the EPA's Green Book located at: <http://www.epa.gov/oar/oaqps/greenbk/cmcs.html#OREGON>)

Further, the region is in attainment for both 1 hour and 8 hour Ozone, with the region having a Maintenance status. However, the region no longer has a requirement to complete air quality conformity for ozone . For the region's Ozone status see: <http://www.epa.gov/oar/oaqps/greenbk/gnc13.html>).

### **Carbon Monoxide**

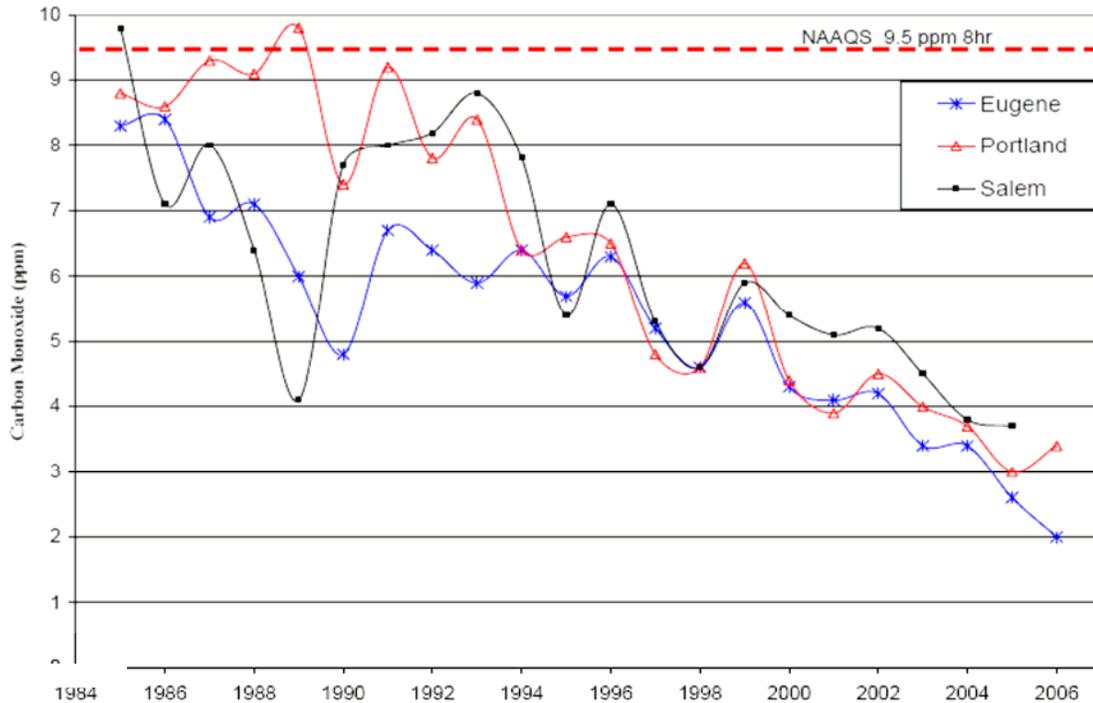
The Oregon DEQ describes carbon monoxide as follows:

*“Carbon monoxide is a colorless, odorless gas. In the body, CO binds tightly to hemoglobin (the red pigment in blood which transports oxygen from the lungs to the rest of the body). Once hemoglobin is bound to CO, it can no longer carry oxygen. In this way, CO reduces the oxygen-carrying capacity of the blood and can result in adverse health effects. High concentrations of CO strongly impair the functions of oxygen-dependent tissues, including brain, heart, and muscle. Prolonged exposure to low levels of CO aggravates existing conditions in people with heart disease or circulatory disorders. There is a correlation between CO exposure and increased hospitalization and death among such patients. Even in otherwise healthy adults, carbon monoxide has been linked to increased heart disease, decreased athletic performance, and diminished mental capacity. Carbon monoxide also affects newborn and unborn children. High CO levels have been associated with low birth weights and increased infant mortality.*

*A major natural source of CO is spontaneous oxidation of naturally occurring methane (swamp gas). The major human-caused source is incomplete combustion of carbon-based fuels, primarily from gasoline-powered motor vehicles. Other important sources are wood stoves and slash burns. How a motor vehicle is operated has an effect on the amount of CO emitted. In stop-and-go driving conditions, CO emissions are high. Emissions are also increased when the outside temperature is low. Oregon's most serious CO problems occur during the winter in urban areas when CO emitted by slow-moving traffic is trapped near the ground where people can inhale them.”*

As shown by the figure below, the Portland Metro area has not exceeded the 8 hour Carbon Monoxide standards since 1989 and total emissions have been trending downward.

**Figure 1. Carbon Monoxide Trends – Total Emissions, All Sources**

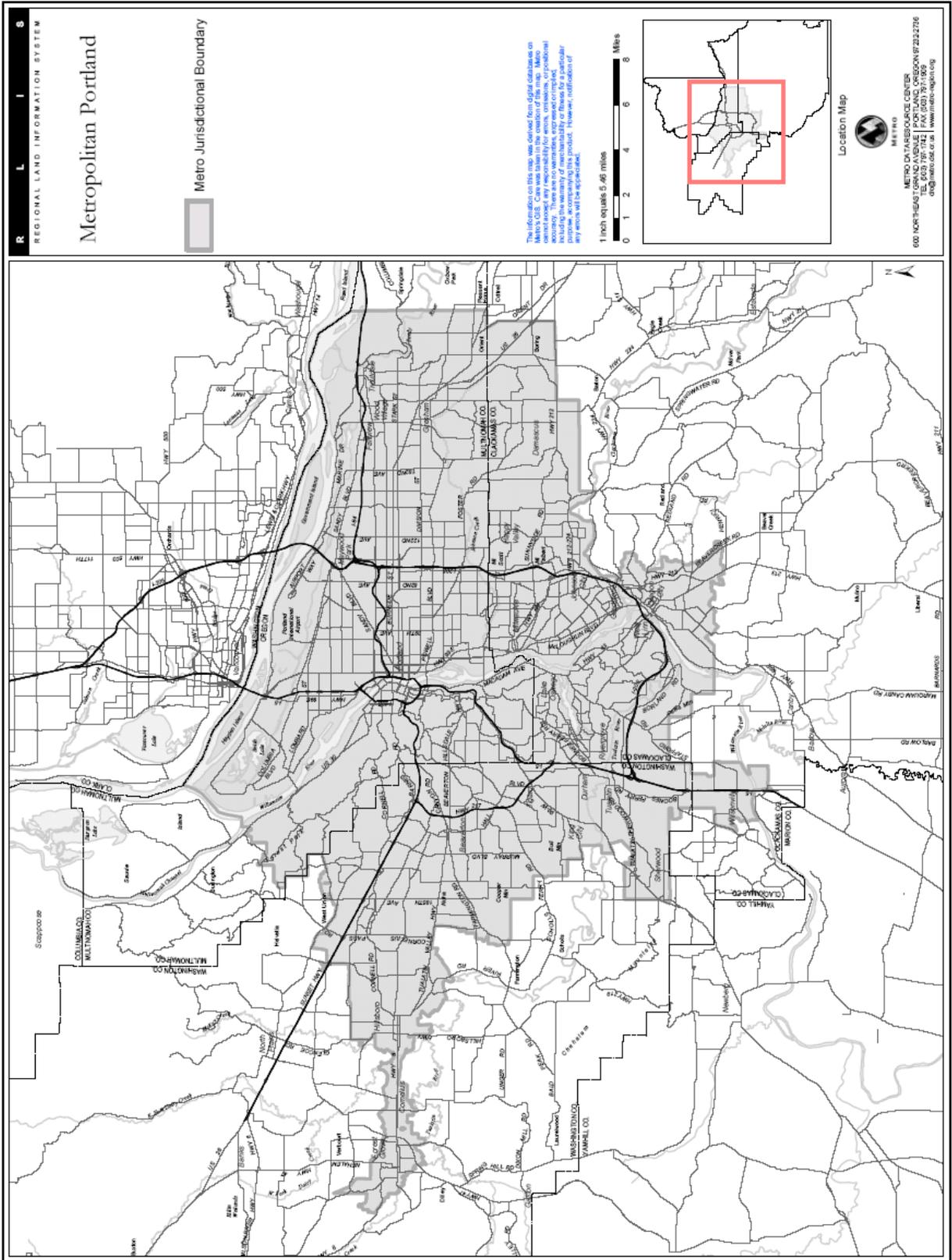


Source: 2006 Oregon Air Quality Data Summaries, Oregon Department of Environmental Quality see <http://www.deq.state.or.us/aq/forms/2006ar/2006ar.pdf>

As of January 2008, the Metro area is a maintenance area for carbon monoxide (CO), meaning that while the region meets federal CO standards, it must continue to monitor CO levels through a air quality conformity determination comparing forecast levels of air quality assuming proposed transportation investments with motor vehicle emission budgets, or maximum allowed levels of the pollutant from the on-road and transit elements of the region's transportation system. In 2006, the EPA approved a new CO State Implementation Plan (SIP) finding new CO motor vehicle emission budgets adequate for transportation conformity purposes in the Second Portland Area Carbon Monoxide Maintenance Plan. This second CO maintenance plan is effective through 2017, after which time conformity demonstration will no longer be necessary, if the area continues to not violate the CO NAAQS.

For Carbon Monoxide, the Metro jurisdictional boundary was established as the geographic extent of concern for which emission budgets (maximum pollutant levels) were created. Below is a map of the metro jurisdictional boundary used for the air quality analysis.

Figure 2. Carbon Monoxide - Area Analyzed



## **2.0 Demonstration of Conformity for CO**

This air quality analysis is organized around and addresses those sections of the federal statutes and state administrative rule that are applicable to this MTIP and RTP amendment conformity determination. Accordingly, each subsection will cite a subject (e.g. “Consultation”) and then describe how the requirement was addressed. Federal statutes concerning transportation air quality conformity begin at 40 CFR 93.100 and end at 40 CFR 93.128. Oregon administrative rules for transportation conformity follow federal statute and begin at OAR 340-252-0010 and end at OAR 340-252-0290. Each section is address in numerical order, except as noted in Appendix E.

### **2.1 GENERAL REQUIREMENTS**

#### **2.2.1 Applicability (OAR 340-252-0020 and 40 CFR 93.102)**

This conformity rule applies to the proposed 2035 RTP and 2008-2011 MTIP as the Metro area has a Carbon Monoxide maintenance status and the actions being proposed are regionally significant as confirmed in consultation with other agencies including the DEQ, EPA, Federal Highway Administration, Federal Transit Administration, ODOT and TriMet at a meeting held on November 19, 2007.

#### **2.1.2 Frequency of Conformity Determinations (OAR 340-252-0050 and 40 CFR 93.104)**

Federal regulations call for a new conformity determination of regional transportation plans no less frequently than every four years. On March 5, 2004, the USDOT approved the air quality conformity determination for the 2004 RTP. Accordingly, the 2035 RTP must be conformed. In addition, MTIP’s must be conformed within 18 months of conforming a new RTP. So, additionally, the proposed 2008-2011 MTIP must be conformed consistent with the new RTP.

Accordingly, this conformity determination has been prepared for the 2035 RTP and 2008-2011 MTIP.

#### **2.1.3 Consultation (OAR 340-252-0060 and 40 CFR 93.105)**

This section addresses the consultation requirements for air quality planning. The regulations in this section state that the metropolitan planning organization is responsible for development the transportation plan (RTP) and transportation improvement program (MTIP), making the conformity determination, performing regional emissions analysis and documenting timely implementation of transportation control measures.

Consultation is comprised of two components – technical and public. Agency representatives must be provided the opportunity to review and comment on the technical aspects of a conformity determination and the public must be given the opportunity to see the conformity determination report and provide comment.

On November 19, 2007, representatives of the Federal Highway Administration, Federal Transit Administration, EPA, DEQ, ODOT, TriMet and Metro met and discussed the upcoming 2008-2011 MTIP and discussed and commented on a Pre-Conformity Plan (see

Appendix F for final version reviewed by federal representatives and TPAC). Further, TPAC is specifically listed in state air quality regulations for consultation and they were also provided the Pre-Conformity Plan and project summary for discussion at their November 30, 2007 meeting.

These technical groups will be provided an opportunity to comment on this document during a 30 day period starting January 18, 2008 and ending February 20, 2008.

In addition to technical review, an opportunity for public comment period also must be provided prior to taking formal action. Reasonable access to technical and policy information must be provided at the beginning of the public comment period. Any charges for public inspection and copying must be consistent with a specified fee schedule.

Metro is making this document available on its website at the beginning of the public comment period, June 15, 2007, so that it may be accessed for free at any public library via the internet or from a resident's home, if they have a computer and internet access. In addition, a telephone number has been advertised so that the public may call should they have questions. Metro has also arranged to mail hard copies of this report to those who may wish to use this method of inspecting the document. Metro has also provided a telephone number for the hearing impaired so that questions may be answered using TTY technology, so that text messages may be conveyed back and forth. Public comments received by noon, February 20, 2008, will be compiled and written responses addressing comments will be completed and made available to the Joint Policy Advisory Committee on Transportation and the Metro Council and will be included in Appendix B.

#### **2.1.4 Content of Transportation Plans (OAR 340-252-0070 and 40 CFR 93.106)**

This regulation concerns the years in which a "snapshot" of transportation conditions are estimated. The years may not be more than 10 years apart and the first horizon year must not be more than 10 years from the base year. The last year must be the last year of the transportation plan's forecast period and the forecast demographic conditions (location and amount of jobs, housing and population) for each of these analysis years must be included in the plan.

The 2035 RTP is based on forecasts out to the year 2035. The air quality analysis years for the 2035 RTP and 2008-2011 MTIP include 2010, 2017, 2025 and 2035 to address the Carbon Monoxide budgets established by the SIP.

#### **2.1.5 Relationship of Transportation Plan and TIP Conformity with the NEPA Process (OAR 340-252-0080 and 40 CFR 93.107)**

This provision provides some flexibility between the projects described in the RTP and MTIP and specific projects for which National Environmental Policy Act (NEPA) analysis is being completed.

There are several major transportation projects in the region which are in various stages of project development, including, for some, NEPA processes. Following are the

descriptions of how these projects are assumed – for purposes of air quality conformity determination only – and as reviewed by federal agencies and TPAC.

Project	Project Description and Extent	2035 Financially Constrained System Assumption
<b>Columbia River Crossing</b>	Preliminary Engineering and Right-of-Way from Victory Blvd. to Washington State	Replacement Bridge with 10,000 vehicles per hour each direction with \$2 tolls and light rail transit with termini at the Lincoln Park and Ride lot near Main Street and I-5. To be completed by 2017.
<b>Sunrise (I-205 to 172<sup>nd</sup> Avenue)</b>	Preliminary Engineering, Right-of-Way purchase and some construction funds from I-205 to 172 <sup>nd</sup> Ave.	Assumes full build, 6 lanes, without Tolls. To be completed by 2017.
<b>I-5/I-84 Interchange</b>	Preliminary Engineering and Right-of-Way for the interchange at I-5 and I-84 as well as the area around I-5 and Greeley Street.	Assumes full build of the interchange. The air quality assumptions for 2025 and beyond reflect capacity increases for I-5 resulting from braiding of ramps at both ends of the Broadway interchange. Northbound I-5 will increase from 3500 capacity across the three lanes to 6000 capacity as a result of the interchange improvements. Southbound I-5 capacity will increase from 3500 to 6000 across 3 lanes as it approaches the I-405 loop, an increase from 4500 to 6000 over three lanes just beyond the loop, and an increase from 6000 to 7000 across 3.5 lanes as I-5 approaches I-84. To be completed by 2025.
<b>I-5/Highway 99W Connector</b>	Preliminary Engineering and Right-of-Way purchase for the entire facility from 99W to I-5.	Assumes 4 lanes, without Tolls, to be completed by 2025.

When a project hasn't been adequately defined through the NEPA process, conformity allows coding the network based upon a placeholder project as best as can be defined at the time. For purposes of this air quality conformity determination, a specific configuration to these projects has been made. If the final project configuration is substantially different that what has been assumed, there will need to be a determination whether additional conformity analysis will be needed at that time.

**2.1.6 Fiscal Constraints for Transportation Plans and TIP (OAR 340-252-0090 and 40 CFR 93.108)**

This section requires that transportation plans and transportation improvement programs be fiscally constrained. That is, that the total cost of the transportation plan and the MTIP be equal or less than the total of identified transportation resources. The 2035 RTP includes a fiscally constrained system. Likewise, the 2008-2011 MTIP has been created based on the availability of funds, the project list starting from one that vastly exceeded available

dollars, to the proposed project list consistent with foreseeable revenues during the program period.

Each project included in the Financially Constrained System of the Regional Transportation Plan and those programmed in the Metropolitan Transportation Improvement Program has an identified funding source(s) that can be reasonably expected to be available over the planning period. This is documented in section 1.4 of the 2008-2011 MTIP.

A list of the financially constrained projects from the 2035 RTP is included as Appendix A.

## **2.2 CRITERIA AND PROCEDURES FOR DETERMINING CONFORMITY**

### **2.2.1 General (OAR 340-252-0100 and 40 CFR 93.109)**

This section outlines which portion of the conformity rule is applicable for particular actions. Compliance with this section is specifically demonstrated in the following sections.

### **2.2.2 Latest Planning Assumptions (OAR 340-252-0110 and 40 CFR 93.110)**

The assumptions about land use, including the location of jobs, housing and the demographic characteristics of the population are a key element in the transportation analysis and accordingly, are reflected in the air quality assessment. As noted before, using estimates of the location and quantity of total housing, population and jobs out to the year 2035 were estimated for the 2035 RTP. As they provide a 20 plus year forecast – to the year 2035, they provide a long enough time horizon to understand the results of both the forecast demographic and employment changes and how the combination of the existing transportation system and improvements included in the financially constrained system will operate. From this, air quality analysis is derived.

### **2.2.3 Latest Emissions Model (OAR 340-252-0120 and 40 CFR 93.111)**

One difference from the last conformity determination and this one is that a new air quality emission model is required to be used. This new model, MOBILE6.2, the latest EPA approved model, has been employed for this air quality conformity determination.

### **2.2.4 Consultation (OAR 340-252-0130 and 40 CFR 93.112)**

This section refers back to the earlier section on consultation and provides for the state implementation plans (SIP) to have additional consultation requirements if appropriate. The second Portland Area CO Maintenance Plan and both the first and second Ozone Maintenance Plans have no further consultation requirements beyond those already addressed in the earlier consultation section.

### **2.2.5 Timely Implementation of Transportation Control Measures (OAR 340-252-0140 and 40 CFR 93.113)**

The State and Federal conformity regulations require that the air quality conformity determination demonstrates compliance with Transportation Control Measures (TCM) that are included in the Carbon Monoxide Maintenance Plan by providing for the timely completion or implementation of all TCM. It must also be demonstrated that nothing in the MTIP program or RTP amendment interferes with the implementation of TCMs.

The Second Portland Area CO Maintenance Plan includes three TCM and has been approved by the Oregon Environmental Quality Commission and US EPA and are addressed below. These TCM are: 1) Transit Service Increase; 2) Bicycle Paths; and 3) Pedestrian Paths.

**TCM 1. Transit Service Increase**

*Regional transit service revenue hours (weighted by capacity) shall be increased 1.0% per year. The increase shall be assessed on the basis of a 5 year rolling average of actual hours for assessments conducted between 2006 and 2017. Assessments made for the period through 2008 shall include the 2004 opening of Interstate MAX."*

**Compliance Actions - Transit Service Increase**

This transit service TCM calls for a calculation of actual hours for assessments conducted between 2006 and 2017. . Presented below are actual transit service hours weighted by capacity from 2002 through 2006.

<b>Table 5. Service Hours – Weighted by Capacity</b>				
	Bus	Rail (bus equivalency)	Total	Percent Change year-to-year
2001	2,032,944	682,765	2,715,709	
2002	2,048,484	866,708	2,915,192	7%
2003	2,049,156	908,560	2,957,716	1%
2004	2,047,932	949,732	2,997,664	1%
2005	2,033,544	1,157,461	3,191,005	6%
2006	1,953,420	1,126,543	3,079,963	-3%
Average annual change				<b>2.7%</b>

Source: TriMet. Streetcar and Commuter rail not included, nor is SMART or CTRAN service which connects to or provides service to the Metro area.

**Findings.** Accordingly it is found that this transit service TCM concerning transit service increase been met because:

- the above analysis of weighted transit service hours shows an annual average transit service increase of 2.7 percent, which exceeds the TCM of 1.0 percent.

**"2. Bicycle Paths**

*Jurisdictions and government agencies shall program a minimum total of 28 miles of bikeways or trails within the Portland metropolitan area between the years 2006 through 2017. Bikeways shall be consistent with state and regional bikeway standards. A cumulative average of 5 miles of bikeways or trails per biennium must be funded from all sources in each Metropolitan Transportation Improvement Program (MTIP). Facilities subject to this TCM must be in addition to those required for expansion or reconstruction projects under ORS 366.514."*

**Compliance Actions - Bicycle Paths**

The region has allocated funding for at least 21.11 miles of bicycle lanes and multi-use paths for 2006-2011 as shown in Table 6.<sup>1</sup> This represents an average of 7.04 miles per biennium, 41% above the 5 mile per biennium target for new bicycle/trail improvements.

**Table 6. MTIP 2006-09 Bicycle Projects**

<u>2006-2007 Funding</u>		<u>2008-2009 Funding</u>	
Beaverton Powerline trail	1.95 mi	Springwater trail	0.90 mi
Washington SQ RC multi-use trail	0.57 mi	Marine Dr. bike lanes	1.50 mi
Mcloughlin: I-205 to Hwy 43 bridge	0.1 mi	Gresham-Fairview trail	1.9 mi
102nd Ave boulevard improvements	0.80 mi	Gresham MAX trail	1.90 mi
Hwy 99E: River Rd to Park Ave bike lanes	<u>0.57 mi</u>	Rock Creek trail	0.80 mi
Total 2006-2007	3.99 mi	Trolley trail	6.0 mi
		SE 92 <sup>nd</sup> Ave	0.38 mi
		Waud Bluff trail	<u>0.25 mi</u>
		Total 2008-2009	11.73 mi
<u>2010-2011 Funding</u>			
NE/SE 50s Bikeway	4.3 mi		
East Baseline St, Cornelius	0.54 mi		
East Burnside	<u>0.55 mi</u>		
Total 2010-2011	5.39 mi		
<b>Total 2006-2011</b>	<b>21.11 mi</b>		

1. Mileage counts are derived from GIS measurements based on project descriptions.

Additionally, the RTP Financially Constrained list includes several bicycle projects to be completed by 2017. A sample is provided below (analysis was stopped once it could be shown that the goal could be met and in no case were projects beyond the year 2017 even counted).

Monroe Bike Blvd (21 <sup>st</sup> to Linwood)	2.1 mi
NE Glisan Street Bikeway (162nd to 202nd)	2.01 mi
Willamette Falls Dr (Hwy 43-10 <sup>th</sup> )	2.1 mi
Glisan (162 <sup>nd</sup> -202 <sup>nd</sup> )	1.9 mi
<b>Total:</b>	<b>8.11 mi</b>

Adding this mileage to the 21.11 miles from 2006-2011 MTIP allocations totals 29.22 miles, which exceeds the target of 28 miles by 2017.

**Findings.** Accordingly, it is found that this TCM concerning bicycle paths has been met because:

- Over 21 miles of bicycle paths are programmed for the years 2006-2011; and,
- The Financially Constrained System of the RTP shows an additional 8.11 miles of bicycle paths to be constructed by 2017; and,
- The total miles planned to be constructed by 2017 is 29.22 miles, which exceeds the TCM of 28 miles by the year 2017.

### **"3. Pedestrian Paths**

*Jurisdictions and government agencies shall program at least nine miles of pedestrian paths in mixed use centers between the years 2006 through 2017, including the funding of a cumulative average of 1½ miles in each biennium from all sources in each MTIP. Facilities subject to this TCM must be in addition to those required for expansion or reconstruction projects under ORS 366.514, except where such expansion or reconstruction is located within a mixed-use center."*

## Compliance Actions - Pedestrian Projects

As shown in Table 8, the region has allocated funding for at least 6.5 miles of new pedestrian improvements in mixed-use centers for 2006-2011.<sup>2</sup> This represents an average of 2.17 miles per biennium, 44% above the 1.5 mile per biennium target for new pedestrian improvements.

**Table 8. MTIP 2006-09 Pedestrian Projects<sup>3</sup>**

<u>2006-2007 Funding</u>		<u>2008-2009 Funding</u>	
St John's Ped/Freight Improvement	0.45 mi	Forest Grove TC*	0.65 mi
Hillsboro Regional Center Ped Project	1.77 mi	Milwaukie TC	0.26 mi
Central Eastside Bridgeheads	0.10 mi	SE 92 <sup>nd</sup> Ave	0.38 mi
Hwy 224 Preservation (99E to I-205)	<u>0.15 mi</u>	Gresham MAX trail	<u>0.40 mi</u>
Total 2006-2007	2.37 mi	Total 2008-2009	1.69 mi
<u>2010-2011 Funding</u>			
Hood Street: Se Division St to SE Powell Blvd		0.18 mi	
Foster-Woodstock: SE 87 <sup>th</sup> St to SE 101 <sup>st</sup> St		1.13 mi	
East Baseline St, Cornelius: 10 <sup>th</sup> Ave to 19 <sup>th</sup> Ave		0.18 mi	
East Burnside: 3 <sup>rd</sup> Ave to 14 <sup>th</sup> Ave		<u>1.1 mi</u>	
Total 2010-2011		2.59 mi	
<b>Total 2006-2011</b>	<b>6.65 mi</b>		

\*Note Scope of Forest Grove TC project reduced due to cost constraint

Additionally, the RTP Financially Constrained list, includes several bicycle projects to be completed by 2017. A sample is provided below.

**Table 9. RTP Financially Constrained System Pedestrian Projects**

SW Capitol Hwy Ped Improvements (Multnomah to Taylor's Ferry)	1.0 mi
SE Jackson and SE Main	0.2 mi
Washington Sq RC greenbelt shared us path	0.5 mi
Kellogg Creek Dam Removal/river access	0.1 mi
Mcloughlin Blvd phase 2 (Duens Dr to Clackamas River bridge)	0.5 mi
Ped to Max: Hood St (Division to Powell)	<u>0.5 mi</u>
<b>Total:</b>	<b>2.8 mi</b>

<sup>2</sup> Mileage counts are derived from GIS measurements based on project descriptions.

<sup>3</sup> The MAX multi-use path project is 2.32 miles total, with 1.90 miles being applied to the bike/trail TCM target, and .40 miles counting toward TCM pedestrian target, as it is located in the Gresham regional and Rockwood town centers.

Adding this mileage to the 6.65 miles from the 2006-2011 MTIP allocations totals 9.45 miles, which exceeds the target of 9 miles by 2017.

**Findings.** Accordingly, it is found that this TCM concerning pedestrian projects has been met because:

- a total of 6.65 miles of pedestrian paths are programmed for the period 2006-2011; and,
- a total of an additional 2.8 miles of pedestrian paths are included in the Financially Constrained System of the RTP by the year 2017; and
- the total of programmed and planned pedestrian paths between 2006 and 2017 is 9.45 miles, which exceeds the TCM of 9 miles by the year 2017. (The documentation of this was stopped once it could be shown that the target could be met and in no case were projects beyond the year 2015 counted in the tally)

### **Overall TCM findings**

The above facts and findings for each TCM demonstrate the timely completion or implementation of each TCM. In addition, the above examination of each TCM demonstrates that there are no obstacles that interfere with the implementation of any TCM in the current or proposed CO maintenance plans, including no obstacles in the MTIP or RTP as proposed to be adopted.

Accordingly, it is found that the criteria and procedures of *Criteria and Procedures: Timely Implementation of TCMs*, ( OAR 340-252-0140 and 40 CFR 93.113) have been met.

### **2.2.6 Currently conforming transportation plan and TIP (OAR 340-252-0150 and 40 CFR 93.114)**

This section concerns projects, and that only one conforming transportation plan or TIP may exist at any one time and the old conformity determination for a transportation plan or TIP expires once the new one is approved. Potentially a project could lose its conformity determination if not built and not carried over to the new conformity determination.

The 2035 RTP is proposed to be adopted, replacing the 2004 RTP and the air quality conformity determination for the 2035 is the subject of this document.

The 2008-2011 MTIP, upon conformity determination approval, will allow for three years of transportation improvements to proceed, consistent with the financially constrained system of the 2035 RTP. The 2008-2011 MTIP will replace the 2006-2009 MTIP.

### **2.2.7 Motor Vehicle Emissions Budget (OAR 340-252-0190 and 40 CFR 93.118)**

This section requires that the projected emissions from the entire transportation system not exceed the approved motor vehicle emission budget for each year that an emission budget has been established. The EPA found that the motor vehicle emission budgets in the *Second Portland Area Carbon Monoxide Maintenance Plan* are adequate for transportation conformity purposes (see Appendix D)

These EPA approved budgets for wintertime Carbon Monoxide levels from all on-road transportation sources are as follows:

- 2005 - 1,238, 575 pounds per day (provided for information only)
- 2010 – 1,003,578 pounds per day
- 2017 – 1,181,341 pounds per day (2017 is the proposed end year of the Maintenance Plan)
- 2025 – same as 2017
- 2035 – same as 2017

As is shown below, none of these budgets have been exceeded.

Using the Metro travel forecast model, the transportation network capacity that would result with the implementation of the financially constrained system of the 2035 RTP and the specific timing of projects included in the proposed 2008-2011 MTIP, as consistent with the financially constrained 2035 RTP, the forecasts of population, housing, employment and the use of the MOBILE6.2 air quality model with the assumptions as listed above, the following results, when comparing these to the motor vehicle emission budgets, is found:

**Table 6. Carbon Monoxide and Ozone Emission Results Compared with Budgets**

<b>Year</b>	<b>Carbon Monoxide Motor Vehicle Emission Budgets (Budgets are Maximum Allowed Emissions) (pounds/ winter day)</b>	<b>Forecast Carbon Monoxide Motor Vehicle Emissions (pounds/ winter day)</b>
<b>2007</b>	N/A	935,394
<b>2010</b>	1,033,578	856,054
<b>2017</b>	1,181,341	670,926
<b>2025</b>	1,181,341	801,203
<b>2035</b>	1,181,341	822,596

Accordingly, based on these model results, the other data provided in this document and on documents in the appendices, it is concluded that the proposed 2008-2011 MTIP meets the transportation air quality conformity determination requirements and standards.

**2.3 REGIONAL EMISSIONS ANALYSIS & METHODOLOGY**

**2.3.1 Transportation Networks**

The projects listed in Appendix A are those assumed for the region. This list includes the project name, location, project description, whether it was included in the air quality analysis (for example, some of the projects are exempt, like safety improvements that do not include capacity improvements) and the year that the project was assumed to be completed and therefore added to the system modeled.

**2.3.2 Procedures for Determining Regional Transportation-Related Emissions (OAR 340-252-0230 and 40 CFR 93.122)**

This section requires that the analysis be performed for all “regionally significant” projects. Metro’s approach has been to attempt to model any improvement that can be modeled. This approach helps ensure that any capacity increases that may be involved in an improvement are included in the analysis and that all possible consideration of improvements has been made.

This section also addresses the model assumptions and methods to be used. The Metro travel demand model was used in the first step of this analysis. Once the travel demand model has been run for a particular year, with the attendant assumptions about the transportation network improvements and capacities, transit service levels, jobs, housing and demographic characteristics, the miles traveled and the speeds at which the miles are traveled are estimated.

MOBILE6.2, the air quality model, is the second step taken to estimate air pollutant levels for the year that the transportation model was run. To run MOBILE6.2, several additional assumptions must be made. Following are the assumptions made for running MOBILE6.2

**Table 7. MOBILE6.2 Input Assumptions**

	<b>Parameter</b>	<b>Details</b>	<b>Data Source</b>
a.	Emission Model Version:	MOBILE6.2	EPA
b.	Emission Model Runs:	2007, 2017, 2035	EPA, DEQ
c.	Time Periods:	Seven - 2200hrs-0559; 0600-0659;0700-0859; 0900-1359; 1400-1459, 1800-1859 (PM shoulder); 1500-1759 and 1900-2159.	
d.	Pollutants Reported:	Carbon Monoxide	
e.	Vehicle Class:	As per MOBILE6.2	EPA
f.	Functional Class:	MOBILE6.2 default (freeways, arterials, local and ramp)	
g.	Temperatures:	Min, Max for January	OR DEQ
h.	VMT mix:	MOBILE6.2 default	
i.	Speed:	3-65 MPH	
j.	Vehicle Registration:	1999 fleet for 2000 run, all other runs using 2004 fleet, except for trips originating in Washington State which are provided through the SW Clean Air Agency.	OR DEQ / ODOT DMV
k.	I/M Program:	Assumes no oxygenated fuels and two Inspection and Maintenance tests depending on vehicle manufacture year - Basic and On-Board Diagnostic through the year 2017. Analysis beyond 2017 assumes no inspection and maintenance program as a more conservative assumption. However, DEQ has not determined whether inspection and maintenance will be required after 2017.	OR DEQ
l.	Reid Vapor Pressure:	13.6 – Jan.	OR DEQ

The transit network used for this analysis included the existing transit network as well as the improvements included in the financially constrained system of the RTP, which includes TriMet’s Transit Investment Plan.

This section also provides for emission reduction credits for any transportation control measures (TCM) that may be implemented as long as timely implementation can be assured. As the analysis has demonstrated that the region's regional CO emission levels have been achieved at this time without the use of emission reduction credits, these credits have not been included in these calculations.

### **2.3.3 Exempt Projects (OAR 340-252-0270 and 40 CFR 93.126)**

This section includes certain safety (railroad/highway crossings, hazard elimination program, etc.), mass transit (operating assistance to transit agencies, purchase of support vehicles, etc.) air quality (ride-sharing and van pooling promotion, bicycle and pedestrian facilities, etc.), unless the standing committee concurs that the project has potentially adverse emission impacts.

As noted in Appendix A, all projects that could be modeled were included in this conformity determination. However, most all of projects qualifying as an exempt project would not be included in the travel forecast model and this air quality analysis.

### **2.3.4 Projects Exempt from Regional Emissions Analyses (OAR 340-252-0280 and 40 CFR 93.127)**

In addition to the list of exempt projects, certain projects are exempt from regional emissions analyses. These include intersection channelization projects, intersection signalization at individual intersections, changes in vertical and horizontal alignments and other projects that do not significantly affect the regional emission analysis (but which must have a local hot spot analysis to check on potential impact to the area directly around the project's location.)

As was noted in the section above, all possible improvements possible to be modeled in the travel forecast model were included.

### **2.3.5 Traffic Signal Synchronization Projects (OAR 340-252-0290 and 40 CFR 93.128)**

Regionally significant traffic signal synchronization projects must be included as required by these sections of federal and state statutes. The literature suggests that throughput from such traffic signal synchronization projects can be increased by as much as ten percent. However, the Metro travel forecast model has been revised to allow only additional 50 vehicles per hour more capacity through intersections with traffic signal signalization projects than those without this feature. Analysis of existing or in construction projects will provide better information about the actual capacity increase that such improvements provide. Recent traffic signal synchronization changes include:

- a joint City of Gresham/Multnomah County adaptive (real-time) traffic signal control system on Burnside Road between Eastman Parkway and Powell Boulevard; (2006) (An assessment of effectiveness of this project is underway)
- a Portland Central City signal re-timing of 150 intersections (2005)
- an incidence responsive (for example an accident on I-205) traffic signal system on 82<sup>nd</sup> Avenue (being completed). This approach was also completed for Barbur Boulevard.

As future air quality conformity determinations are made, the Metro travel forecast model will continue to improve its modeling by including consideration of traffic signal synchronization projects.

**APPENDIX A – *Project List***

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## 2035 Regional Transportation Plan Project List

Metro Project ID	Nominating Agency	Facility Owner / Operator	Other Sponsors	Project/Program Name	Project Start Location (Identify starting point of project)	Project End Location (Identify terminus of project)	Description	Estimated Cost (\$2007)	Estimated Cost (YOE \$)	Time Period	2040 Land Use
10855	Metro			Regional TOD Implementation Program	2040 Centers, Stations Areas and Corridors	2041 Centers, Stations Areas and Corridors	Metro, the government of the Portland metropolitan region responsible for growth management, is implementing a highly integrated land use and transportation plan calling for substantial amounts of the region's growth to occur in medium- to high-density mixed-use, walkable urban "centers" linked by high quality transit service. TOD Program funding helps cause the construction of "transit villages" and other catalyst projects by the private sector. These projects mix of moderate- to high-intensity land uses, are physically or functionally connection to the transit system (including MAX light rail, Portland streetcar, commuter rail and high frequency bus), and create a walkable communities through design features that reinforce pedestrian relationships and scale.	\$67,500,000	\$121,793,510	2008 - 2035	Other
10810	THPRD	THPRD	Metro	Westside Trail (Regional)	Hwy 26	THPRD Nature Park	To design and construct a regional trail multi-use segment in a utility corridor, 10'-12' wide paved.	\$4,000,000	\$4,866,612	2008-2017	Other
10000	Clackamas Co.	Clackamas Co.		Linwood/Harmony Rd./ Lake Rd. Overcrossing/ Intersection	Linwood/Harmony/ Lake Rd.		Add NB right turn lane, add EB right turn lane, add WB left turn lane and grade separate UPRR.	\$20,000,000	\$24,333,058	2008-2017	Regional center
10001	Clackamas Co.	ODOT		Johnson Creek Blvd. Interchange Improvements	JCB/I-205 interchange		Add loop ramp and NB on-ramp; realign SB off-ramp.	\$9,800,000	\$11,923,198	2008-2017	Employment area
10003	Clackamas Co.	Clackamas Co.		Harmony Rd. Improvements	Hwy 224	SE 84th Ave.	Widen to five lanes, add bike lanes and sidewalks.	\$23,400,000	\$28,469,678	2008-2017	Regional center
10004	Clackamas Co.	Clackamas Co.		Otty Rd. Improvements	82nd Ave.	92nd Ave.	Widen, add turn lanes, sidewalks, on-street parking, central median and landscaping.	\$7,340,000	\$8,930,232	2008-2017	Employment area
10008	Clackamas Co.	Clackamas Co.		79th Ave. Extension	Johnson Creek Blvd.	King Rd.	Build N-S collector west of 82nd Ave..	\$12,780,000	\$15,548,824	2008-2017	Employment area
10009	Clackamas Co.	Clackamas Co.		Fuller Rd. Improvements	Otty Rd.	Johnson Creek Blvd.	Widen street and add turn lanes, sidewalks, on-street parking, central median and landscaping.	\$4,000,000	\$4,866,612	2008-2017	Employment area
10013	Clackamas Co.	Clackamas Co.		Boyer Dr. Extension	82nd Ave.	Fuller Rd.	New two-lane extension.	\$2,520,000	\$3,065,965	2008-2017	Employment area
10018	Clackamas Co.	Clackamas Co.		82nd Ave. Blvd. Design Improvements	Monterey Ave.	Sunnybrook Blvd.	Complete boulevard design improvements.	\$5,400,000	\$6,569,926	2008-2017	Regional center
10019	Clackamas Co.	Clackamas Co.		West Sunnybrook Rd. Extension	82nd Ave.	Harmony Rd.	Construct three-lane extension.	\$6,970,000	\$8,480,071	2008-2017	Regional center
10020	Clackamas Co.	Clackamas Co.		Clackamas County ITS Plan	Countywide		Deploy traffic responsive signal timing, ramp metering, traffic management equipment for better routing of traffic during incidents along the three key ODOT corridors - I-205, I-5, 99E. Install signal controller upgrades and update county ITS plan.	\$6,500,000	\$7,908,244	2008-2017	Regional center
10021	Clackamas Co.	Clackamas Co.		102nd Ave./Industrial Way Improvements	Hwy 212	Lawnfield Rd.	Extend Industrial Way from Mather Road to Lawnfield Road.	\$8,570,000	\$10,426,715	2008-2017	Industrial area
10025	Clackamas Co.	Clackamas Co.	Oregon City	Beavercreek Rd. Improvements Phase 2	Hwy 213	Clackamas Community College	Widen to 5 lanes with sidewalks and bike lanes.	\$5,800,000	\$7,056,587	2008-2017	Industrial area
10026	Clackamas Co.	Clackamas Co.	Oregon City	Beavercreek Rd. Improvements Phase 3	Clackamas Community College	Urban Growth Boundary	Widen to 4 lanes with sidewalks and bike lanes.	\$12,920,000	\$15,719,155	2008-2017	Industrial area
10033	Clackamas Co.	Clackamas Co.	Happy Valley	172nd Ave. Improvements	Foster Rd./190th	Hwy. 212	Widen to five lanes including new bridge. Construct connection to 190th.	\$38,480,000	\$46,816,804	2008-2017	Industrial area
10042	Clackamas Co.	Clackamas Co.		97th realignment	Lawnfield Rd.	Sunnybrook Blvd.	Realign the existing Lawnfield Rd. Road from 98th to 97th, reduce the grade from 18% to 8%.	\$20,650,000	\$25,123,882	2008-2017	Industrial area
10047	Clackamas Co.	Clackamas Co.	Oregon City	Holcomb Blvd.	Abernethy Rd.	Bradley Rd.	Reconstruct & widen (urban).	\$22,790,000	\$27,727,520	2008-2017	Neighborhood
10052	Clackamas Co.	Clackamas Co.		Mather Rd.	SE 82nd Dr.	Industrial Way	Extend Mather Rd. across railroad to SE 82nd Dr.	\$17,250,000	\$20,987,263	2008-2017	Neighborhood
10057	Clackamas Co.	Clackamas Co.	Oregon City	Redland Rd.	Abernethy Rd.	UGB	Turn lanes, bike lanes, sidewalks, intersection improvements, bridge replacements (2).	\$17,060,000	\$20,756,099	2008-2017	Town center
10066	Clackamas Co.	Clackamas Co.		92nd/Johnson Creek Blvd. intersection	92nd/JCB intersection		Add turn lanes on 92nd (northbound left at JCB, and northbound right at Idleman).	\$1,000,000	\$1,216,653	2008-2017	Employment area
10067	North Clackamas PRD	Clackamas Co.	Clackamas Co.	Phillips Creek Trail	I-205 Trail	N Clackamas Greenway	Build trail through Clackamas Town Center for access to light rail.	\$2,270,000	\$2,761,802	2008-2017	2040 corridor
10069	Gresham	Gresham	Happy Valley	East Buttes Powerline Trail	Springwater/Gresham-Fairview trail	Clackamas Greenway	Build trail linking Gresham and the Clackamas River.	\$1,900,000	\$2,311,641	2008-2017	2040 corridor
10070	North Clackamas PRD		Happy Valley	Mt. Scott Creek Trail	Mt. Talbert	Springwater corridor	Build trail to Mt. Talbert regional park.	\$5,100,000	\$6,204,930	2008-2017	2040 corridor
10071	North Clackamas PRD		Happy Valley	Scouter's Mt. Trail	Springwater/Powell Butte	Springwater corridor	Build trail to/on Scouter's Mt.	\$9,070,000	\$11,035,042	2008-2017	2040 corridor
10072	Damascus			Sunnyside Rd. Frequent Bus	Clackamas TC	Damascus TC	Construct improvements that enhance Frequent bus service.	\$1,000,000	\$1,216,653	2008-2017	Town center
10073	Damascus	ODOT		Hwy.-212 intersections	SE 162nd	Anderson Rd.	Existing Highway 212 remains two lanes with turn pockets from 162nd Ave. to Anderson Road south of limited access parkway. Design elements to be included are sidewalks, bike lanes, and a landscaped buffer.	\$5,970,000	\$7,263,418	2008-2017	Industrial area
10081	Happy Valley		Clackamas Co.	122nd/129th Improvements	Sunnyside Rd.	King Rd.	Widen to three lanes, smooth curves.	\$13,360,000	\$16,254,483	2008-2017	Town center
10092	Wilsonville		Metro	Tonquin Trail	Washington/Clackamas County line	Boones Ferry Landing	Shared use path with some on-street portions.	\$2,000,000	\$2,433,306	2008-2017	Other

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## 2035 Regional Transportation Plan Project List

Metro Project ID	Nominating Agency	Facility Owner / Operator	Other Sponsors	Project/Program Name	Project Start Location (Identify starting point of project)	Project End Location (Identify terminus of project)	Description	Estimated Cost (\$2007)	Estimated Cost (YOE \$)	Time Period	2040 Land Use
10095	Milwaukie	Milwaukie		Railroad Ave. Bike/Ped Improvement	37th Ave.	Linwood Ave.	Construct sidewalks and bike lanes. Key E-W connection parallel route for Highway 224 mobility corridor.	\$21,500,000	\$26,158,037	2008-2017	Town center
10099	Milwaukie	Milwaukie		Monroe Bike Boulevard	21st Ave.	Linwood Ave.	Minor widening to allow shared lanes, improve signage, striping. Bicycle Boulevard treatment.	\$2,400,000	\$2,919,967	2008-2017	Town center
10100	Milwaukie	Milwaukie		Downtown Station Area Streetscaping (21st & Main)	TBD	TBD	Reconstruct streetscape, including street trees, rain gardens, ADA ramps, street furniture, parking meters, and pedestrian-scale lighting.	\$6,700,000	\$8,151,574	2008-2017	Station community
10101	Milwaukie	Milwaukie		Kellogg Creek Dam Removal/Bridge Replacement/Milwaukie TC River Access Improvements	Washington	Adams	Remove dam and bridge; replace bridge with full bike and pedestrian facilities and a multi-use path undercrossing.	\$12,400,000	\$15,086,496	2008-2017	Town center
10104	Milwaukie	Milwaukie	North Clackamas PRD	17th Ave. Trolley Trail Connector	17th Ave. & McLoughlin	17th Ave. & Ochoco	Construct sidewalks; improve bus stops; and correct gaps in bike lanes on 17th Ave. to provide connection between Trolley Trail and Springwater Corridor. Alternative alignment: multi-use path along Johnson Creek from Lava Drive to Ochoco.	\$3,200,000	\$3,893,289	2008-2017	Town center
10109	Milwaukie	Milwaukie		Kellogg Creek Trail	99-E	Miramonte Lodge	Construct low-impact trail-type sidewalk.	\$3,100,000	\$3,771,624	2008-2017	Town center
10110	Milwaukie	Milwaukie		Milwaukie TC reconstruction (including layover improvements)	Downtown TC	Milwaukie Park & Ride	Construct new bus shelters/stops at Transit Center, consolidating multiple bus stops. Build bus layover facility at Milwaukie Park and Ride.	\$4,900,000	\$5,961,599	2008-2017	Intermodal facility
10125	Oregon City	Oregon City		Molalla Ave. Streetscape Improvements Phase 4	Beavercreek	Hwy. 213	Streetscape improvements including widening sidewalks, sidewalk infill, ADA accessibility, bike lanes, reconfigure travel lanes, add bus stop amenities.	\$8,000,000	\$9,733,223	2008-2017	Regional center
10127	West Linn	ODOT		Hwy. 43 Improvements	Holly St.	Arbor Dr.	Although the project is now in the conceptual design stage (to be completed by June 30, 2007), the project should consist of roadway improvements such as widening, installation of medians, turn lanes, street trees, signal interconnections, bike lanes.	\$21,400,000	\$26,036,372	2008-2017	Town center
10128	West Linn	West Linn		Willamette Falls Dr./bicycle lanes and streetlights	Hwy. 43	10th St.	Widen street to provide bike lanes and sidewalks on a narrow roadway. This will provide a direct connection between two town center areas. Bicycle lanes will be 6' wide adjacent to 12' wide travel lanes. The addition of streetlights to this roadway will.	\$2,500,000	\$3,041,632	2008-2017	Station community
10130	Wilsonville	Wilsonville		Kinsman Rd. Extension from Barber St. to Boeckman Rd.	Barber St.	Boeckman Rd.	Extend 3 lanes with sidewalks and bike lanes.	\$5,750,000	\$6,995,754	2008-2017	Employment area
10131	Wilsonville	Wilsonville		Tooze Rd. Improvements	110th Ave.	Grahams Ferry Rd.	Widen Tooze Rd to 3 lanes, add bike/pedestrian connections to regional trail system.	\$3,800,000	\$4,623,281	2008-2017	Neighborhood
10132	Wilsonville	Wilsonville		Boeckman Rd./I-5 Overcrossing Improvements	Boberg Rd.	Parkway Ave.	Widen Boeckman Road bridge over I-5 to 3 lanes. Add bike/pedestrian connections to regional trail system.	\$13,600,000	\$16,546,479	2008-2017	Intermodal facility
10133	Wilsonville	Wilsonville	Metro	French Prairie Bicycle/Pedestrian Bridge	Boones Ferry Rd.	Butteville Rd..	New bicycle/pedestrian/emergency vehicle only bridge crossing the Willamette River.	\$15,000,000	\$18,249,794	2008-2017	Other
10134	Wilsonville	Wilsonville	Clackamas Co.	SW 65th, Elligsen Rd. and Stafford Rd. Intersection Improvements	Intersection of SW 65th, Elligsen Rd. and Stafford Rd.	Intersection of SW 65th, Elligsen Rd. and Stafford Rd.	Currently there are two intersections with a dangerous grade difference and within 100 ft of one another. Combining them into one or the construction of a round-about will help with safety and navigability concerns.	\$1,000,000	\$1,216,653	2008-2017	Other
10135	West Linn	West Linn		19th St. Improvements	Blankenship Rd.	Willamette Falls Dr.	Improvements to include curb, gutter, pavement widening and sidewalks.	\$1,200,000	\$1,459,983	2008-2017	Town center
10137	Damascus	Damascus		Multi-Use Local/Regional Trail and PRT Study	Damascus	N/A	Study for a multi-use path for bikes, pedestrians, horses that provides local access and connects with Happy Valley and Gresham. Study will also evaluate potential for personal rapid transit.	\$2,000,000	\$2,433,306	2008-2017	Town center
10141	Oregon City	ODOT		I-205/Hwy. 213 Interchange Phase 1	Redland Rd.	I-205	Grade separate SB Hwy. 213 at Washington Street and add a northbound lane to Hwy. 213 from just south of Washington Street to the I-205 on-ramp. Reconstruct I-205 SB off-ramp to Hwy. 213 to provide more storage and enhance freeway operations and safety.	\$22,000,000	\$26,766,364	2008-2017	Regional center
10146	Oregon City	ODOT		McLoughlin Blvd. Improvements Phase 2	Dunes Dr.	Clackamas River Bridge	Complete boulevard and gateway improvements.	\$4,000,000	\$4,866,612	2008-2017	Regional center
10148	Oregon City	Oregon City		Oregon City Loop Trail	Beavercreek Rd.	Hwy 213	Regional trail would generally follow the Oregon City UGB on a collection of local roads, through new development, along Powerline right-of-way, and down the bluff to link up with the Promenade in downtown Oregon City	\$3,000,000	\$3,649,959	2008-2017	Neighborhood
10149	Oregon City	Oregon City		Beaver Lake Trail	Clackamas Community College	Oregon City UGB	Regional trail would travel from Clackamas Community College through the Oregon City High School campus to the airstrip area. The trail would skirt the golf course area and continue to Beaver Lake.	\$500,000	\$608,326	2008-2017	Employment area
10150	Oregon City	Oregon City		Barlow Rd. Trail	Abernethy Rd.	Oregon City limits	Regional trail would follow the perceptible alignment of the historic Barlow Road from Abernethy Green to the Oregon City UGB. The trail would primarily utilize existing and proposed roadways.	\$1,000,000	\$1,216,653	2008-2017	Regional center
10153	Wilsonville	Wilsonville		Barber St. Extension from Kinsman Rd. to Villebois Village	Kinsman Rd.	Villebois Village	Extend 3 lanes with sidewalks and bike lanes.	\$8,900,000	\$10,828,211	2008-2017	Employment area

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## 2035 Regional Transportation Plan Project List

Metro Project ID	Nominating Agency	Facility Owner / Operator	Other Sponsors	Project/Program Name	Project Start Location (Identify starting point of project)	Project End Location (Identify terminus of project)	Description	Estimated Cost (\$2007)	Estimated Cost (YOE \$)	Time Period	2040 Land Use
10154	Wilsonville	ODOT	ODOT	Wilsonville Rd./I-5 Interchange Improvements - Setback Abutments & Widen Wilsonville Rd.	Town Center Loop W	Boones Ferry Rd.	Provide additional left-turn lanes, setback abutments, improves signal synchronization, fixes sight distance problems, and provides for enhanced bike/pad safety.	\$11,000,000	\$13,383,182	2008-2017	Town center
10155	Wilsonville	ODOT		Wilsonville Rd./I-5 Interchange Improvements - On/Off Ramps	N. of Interchange	S. of Interchange	Widen and lengthen on/off ramps.	\$12,000,000	\$14,599,835	2008-2017	Town center
10158	ODOT			I-5 Northbound Off Ramp at SW Macadam	I-5	I-405	Construct new off-ramp at NB I-5 to NB Macadam Ave and provide safety and modernization improvements to I-5 S.	\$40,000,000	\$48,666,116	2008-2017	Portland Central City
10159	Portland		Metro	Springwater [Trail Connection] - Sellwood Gap	SE Umatilla	SE 19th Ave.	Construct trail-with-rail shared use path between Springwater on the Willamette and Springwater Three Bridges.	\$3,032,411	\$3,689,392	2008-2017	Main street
10160	Portland	ODOT		Lloyd District Access Improvements	I-5		Add traffic signals and improve intersections at NE 2nd and Broadway and NE 2nd and Weidler Streets.	\$998,243	\$1,214,515	2008-2017	
10162	Portland			Willamette Greenway Trail - South Waterfront	Marquam Bridge (overhead)	SW Lowell	Provide two paths in order to separate bicyclists from pedestrians in remaining gaps (Marquam Bridge to SW Gibbs, SW Lowell to SW Lane, Benz Springs) of South Waterfront's Willamette Greenway trail.	\$2,650,000	\$3,224,130	2008-2017	Town center
10163	Portland	ODOT		I-5 at Gibbs, SW: Pedestrian/Bike Overcrossing		I-5/SW Gibbs Bridge	Construct a bike and pedestrian bridge of I-5 at SW Gibbs to connect the Corbett-Terwilliger-Lair Hill neighborhood to North Macadam.	\$12,259,000	\$14,914,948	2008-2017	
10164	Portland			South Portal, Phase I & II	Intersection Bancroft/Hood/Macadam	Bancroft/Hood/Macadam	Improve SW Bancroft, SW Moody and SW Bond Streets.	\$57,330,684	\$69,751,543	2008-2017	Portland Central City
10165	Portland			Moody/Bond Ave, SW (Sheridan to Gibbs)	River Parkway	SW Bancroft	Five lane street improvement from SW Sheridan to SW Gibbs Street.	\$18,834,515	\$22,915,067	2008-2017	Portland Central City
10169	Portland			Burnside/Couch, East [Blvd/Streetscape]	E 12th	Burnside Bridge	Implements a one-way couplet design including new traffic signals, widened sidewalks, curb extensions, bike lanes on-street parking and street trees.	\$23,908,393	\$29,088,216	2008-2017	Portland Central City
10171	Portland			Burnside/Couch, West [Blvd/Streetscape]	Burnside Bridge	W 15th	Implements a one-way couplet design including new traffic signals, widened sidewalks, curb extensions, bike lanes on-street parking and street trees.	\$75,895,353	\$92,338,302	2008-2017	Portland Central City
10174	Portland			Going, N (Interstate - Greeley): ITS	Interstate	Greeley	Install needed ITS infrastructure (communication network, new traffic controllers, CCTV cameras, and vehicle /pedestrian detectors). These ITS devices allow us to provide more efficient and safe operation of our traffic signal system.	\$950,024	\$1,155,849	2008-2017	Industrial/Employment area
10175	Portland/ ODOT			Yeon/St. Helens, NW (US 30): ITS	NW Yeon/St. Helens		Install needed ITS infrastructure (communication network, new traffic controllers, CCTV cameras, and vehicle /pedestrian detectors). These ITS devices allow us to provide more efficient and safe operation of our traffic signal system.	\$885,499	\$1,077,345	2008-2017	Industrial/Employment area
10178	Portland			Going St Bridge, N: Seismic Retrofit	Going St Overpass	n/a	Seismic retrofit project will include work to both the substructure and superstructure to help minimize the risk of a structural collapse in a major earthquake.	\$4,000,000	\$4,866,612	2008-2017	Industrial/Employment area
10182	Portland/ODOT			St. Johns Pedestrian District, N			Enhance pedestrian access to transit, improve safety, and enhance the streetscape such as better lighting and crossings. Improvements including realigning the "ivy" island, curb extensions, a new traffic signal at Richmond/Lombard, and pedestrian connections between St. Johns and the riverfront based on the St. Johns/Lombard Plan.	\$5,000,000	\$6,083,265	2008-2017	Town Center, Main Street or Station Community
10185	Portland			Foster & Woodstock, SE (87th - 94th): Street Improvements, Phase I	SE 87th	SE 94th	Implement Lents Town Center Business District Plan with new traffic signals, pedestrian amenities, wider sidewalks, pedestrian crossings, street lighting, increased on-street parking.	\$13,812,000	\$16,804,410	2008-2017	Town Center, Main Street or Station Community
10186	Portland			Foster & Woodstock, SE (94th - 101st): Street Improvements, Phase II	SE 94th	SE 101st	Implement Lents Town Center Business District Plan with new traffic signals, pedestrian amenities, wider sidewalks, pedestrian crossings, and street lighting.	\$11,510,000	\$14,003,675	2008-2017	Town Center, Main Street or Station Community
10187	Portland			Foster Rd., SE (82nd - 87th): Lents Town Center Street Improvements	SE 82nd	SE 87th	Implement Lents Town Center Business District Plan with new traffic signals, pedestrian amenities, wider sidewalks, pedestrian crossings, street lighting, and on-street parking as appropriate.	\$4,625,000	\$5,627,020	2008-2017	Town Center, Main Street or Station Community
10189	Portland			Capitol Hwy, SW	SW Multnomah Blvd	SW Taylors Ferry	Improve SW Capitol Highway from SW Multnomah Boulevard to SW Taylors Ferry Road per the 1996 Capitol Highway Plan.	\$9,613,958	\$11,696,850	2008-2017	Town Center, Main Street or Station Community
10190	Portland			23rd Ave., NW (Lovejoy - Burnside): Rd. Reconstruction	NW Lovejoy	W Burnside	Rebuild street.	\$3,350,000	\$4,075,787	2008-2017	Town Center, Main Street or Station Community
10191	Portland			Garden Home Rd., SW (Capitol Hwy - Multnomah): Multi-modal Improvements	SW Capitol Hwy	SW Multnomah Blvd	Improve and signalize the intersection at SW Garden Home and SW Multnomah Blvd.	\$1,931,033	\$2,349,397	2008-2017	

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10192	Portland			Division Streetscape and Reconstruction	SE 6th Ave. SE 39th Ave.	SE 39th Ave.	The project will design and build streetscape and transportation improvements between SE 12th Ave and SE 39th Ave, complete base repair and pavement reconstruction between SE 6th Ave and SE 10th Ave, and grind and overlay asphalt in the area between SE 10th Ave and SE 39th Ave.	\$5,848,135	\$7,115,150	2008-2017	
10194	Portland			Killingsworth, N (Interstate - MLK Jr Blvd): Street Improvements	N Interstate	MLK Jr Blvd	Construct street improvements to improve pedestrian connections to Interstate MAX LRT and to establish a main street character promoting pedestrian-oriented activities. Commentary: Update project to reflect recommendations in the Killingsworth Street Improvements Planning Project.	\$4,900,000	\$5,961,599	2008-2017	Town Center, Main Street or Station Community
10201	Portland			102nd Ave., NE (Weidler - Glisan): Gateway Plan District Multi-modal Improvements, Phase I	NE Weidler	NE Glisan	Implement Gateway Regional Center plan with boulevard design retrofit, new traffic signals, improved pedestrian facilities and crossings, street lighting, bicycle lanes, and multi-modal safety improvements.	\$3,234,000	\$3,934,655	2008-2017	Regional center
10202	Portland			102nd Ave, NE/SE (Glisan - Stark): Gateway Plan District Multi-modal Improvements, Phase II	NE Glisan	SE Market	Implement Gateway regional center plan with boulevard design retrofit, new traffic signals, improved pedestrian facilities and crossings, street lighting and new bicycle facilities.	\$2,137,561	\$2,600,670	2008-2017	Regional center
10204	Portland			Gateway Regional Center, Local and Collector Streets	NE Weidler/97th	NE Glisan/102nd	High priority local and collector street and pedestrian improvements in the Gateway Regional Center.	\$32,648,540	\$39,721,941	2008-2017	Regional center
10206	Portland			Marine Drive bike lanes 6th to 28th & off-street trail gaps between I-5 and 185th	I-5	NE 185th Ave.	Close gaps in Marine Dr bike lanes (NE 6th to 28th);and trail (Bridgeton levee & one connector, 28th to 33rd, 112th to 122nd, gaps near 185th)	\$2,130,835	\$2,592,487	2008-2017	Industrial area
10208	Portland		Port	MLK O-Xing/Turn Lanes (Columbia Blvd/Lombard)	Intersections of MLK and NE Columbia Blvd/Lombard		Intersection and signalization improvements with right turn lane.	\$2,228,909	\$2,711,809	2008-2017	Industrial/Employment area
10209	Portland		Port	92nd Dr. (Columbia Slough to Alderwood)	Columbia Slough	NE Alderwood	Improve NE 92nd Drive from Columbia Slough to Alderwood Rd.	\$2,406,547	\$2,927,932	2008-2017	
10210	Portland		Port	47th, NE (Columbia - Cornfoot): Roadway & Intersection Improvements	NE 47th	NE Columbia Blvd	Widen and reconfigure intersections to better facilitate truck turning movements to the cargo area located within the airport area. Project includes sidewalk and bikeway improvements.	\$5,541,678	\$6,742,299	2008-2017	Industrial/Employment area
10212	Portland			Airport Way/122nd, NE: Intersection Improvement	NE Airport Way/122nd		Add northbound left turn lane, modify traffic signal, and reconstruct island.	\$1,100,000	\$1,338,318	2008-2017	Industrial/Employment area
10213	Port/ Portland			Airport Way, NE (I-205 to NE 158th Ave.): ITS	I-205	NE 158th	Install needed ITS infrastructure (communication network, new traffic controllers, CCTV cameras, and vehicle /pedestrian detectors). These ITS devices allow us to provide more efficient and safe operation of our traffic signal system.	\$278,251	\$338,535	2008-2017	Industrial/Employment area
10214	Portland/ ODOT			Lombard, N (Rivergate - to T-6): Multi-modal Improvements	Rivergate	T-6	Widen N Lombard to include two travel lanes, a non-continuous center turn lane, medians, bike lanes, sidewalks and planting strips.	\$34,517,517	\$41,995,837	2008-2017	Industrial/Employment area
10215	Portland			Foster Rd., SE (136th - Jenne): Multi-modal Improvements	SE 136th	SE Jenne Rd.	Widen street to three lanes to provide two travel lanes, continuous turn lane, bike lanes, sidewalk, and drainage.	\$16,963,856	\$20,639,125	2008-2017	
10217	Region			Lombard at Columbia Slough, N: Overcrossing	N Lombard/Columbia Slough Overcrossing		Add sidewalk and bike lanes to strengthened bridge.	\$9,767,000	\$11,883,049	2008-2017	
10218	Portland			Burgard-Lombard, N: Street Improvements	Intersection of N Burgard/Columbia	UPRR Bridge on N. Lombard	From UPRR Bridge to N Columbia Blvd. Widen street to include 2 12-foot travel lanes, continuous left turn lane, bike lanes and sidewalk.	\$24,884,000	\$30,275,191	2008-2017	
10228	ODOT/ Portland/ Port			82nd Ave./Columbia, NE: Intersection Improvements	Intersection of NE 82nd/Columbia Blvd		Widen and reconfigure intersection.	\$3,408,000	\$4,146,353	2008-2017	
10229	Portland			Columbia Blvd./Portland Rd., N: Intersection Improvements	Intersection of Columbia Blvd/Portland Rd.		Redesign intersection.	\$1,214,000	\$1,477,017	2008-2017	
10232	Portland			Flanders, NW (Steel Bridge to Westover): Bicycle Facility	Steel Bridge	NW Westover	Add bike boulevard from NW 24th Ave to the Steel Bridge, new bike/pedestrian bridge over I-405 on Flanders, connections to bikeways on Vista, 18th, 14th, 13th, Broadway, 3rd, 2nd, Glisan and Everett.	\$2,392,337	\$2,910,644	2008-2017	
10234	Portland		Metro	Columbia Slough Trail system	Confluence of Columbia Slough and North Slough	NE 158th Ave.	Close gaps in Columbia Slough Trail: North Slough to North Portland Rd; Landfill to Pier Park; I-5 to NE Elrod; NE Elrod to NE 82nd Ave; NE 82nd Ave to 92nd Ave; I-205 to approx. NE 128th; NE 145th to 158th, Peninsula Canal, Cross-Levee, Delta Park Trail.	\$8,460,000	\$10,292,884	2008-2017	Intermodal facility
10334	Portland			11th/13th, NE (at Columbia Blvd.): Crossing Elimination	NE Columbia Blvd	NE Lombard	If feasible, eliminate the at-grade crossing and improve alternate roadway access.	\$1,000,000	\$1,216,653	2008-2017	
10336	Portland			Alderwood/Columbia Blvd/Cully, NE: Intersection Improvements	Intersection of NE Alderwood/Columbia Blvd/Cully		Reconstruct intersection to provide left turn pockets, enhancing turning radii and improving circulation for trucks serving expanding air cargo facilities south of Portland.	\$1,460,000	\$1,776,313	2008-2017	Industrial/Employment area
10343	Portland/ Port			West Hayden Crossing, N	N Marine Dr.	Hayden Island	New four-lane bridge between Marine Drive to Hayden Island.	\$99,258,000	\$120,762,534	2008-2017	Industrial/Employment area
10354	Portland			Fanno Creek Greenway (Red Electric) Trail	SW Dover near Multnomah County line	Willamette Park	Provide east-west route for pedestrians in cyclists in SW Portland that connects and extends the existing Fanno Creek Greenway Trail to Willamette Park.	\$17,653,000	\$21,477,574	2008-2017	Town center

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10355	Portland			North Portland Willamette Greenway Study	N Burlington Ave.	Steel Bridge	Study mostly off-street trail near the river for both bicycle and pedestrian commuting and recreational use.	\$200,000	\$243,331	2008-2017	Portland Central City
10357	Port of Portland			Channel Deepening	mouth of Columbia River	Portland/Vancouver harbor	Deepening the Columbia River channel to 43 feet between mouth of Columbia River and Portland/Vancouver Harbor.	\$150,573,000	\$183,195,077	2008-2017	Other
10358	Port of Portland			Airport Way Terminal Entrance Roadway Relocation	PDX Terminal Area		Relocate and widen Airport Way northerly at Terminal entrance (to be scoped by PDX Master Plan).	\$12,818,000	\$15,595,057	2008-2017	Industrial area
10360	Port of Portland			Airport Way Return and Exit Roadways	PDX Terminal Area		Relocate Airport Way exit roadway and construct new return roadway (Terminal Access Study, projects R4 and R5; to be scoped by PDX Master Plan).	\$6,400,900	\$7,787,674	2008-2017	Industrial area
10361	Port of Portland			Widen Airport Way West of 82nd	82nd Ave.	PDX Terminal	Widen Airport Way from terminal to 82nd Ave.	\$8,588,400	\$10,449,102	2008-2017	Industrial area
10362	Port of Portland			82nd Ave./Airport Way Grade Separation			Construct grade-separated overcrossing.	\$92,000,000	\$111,932,067	2008-2017	Industrial area
10363	Port of Portland			SW Quad Access	NE 33rd Ave.	SW Quad	Provide street access from 33rd Ave. into SW Quad.	\$5,917,500	\$7,199,544	2008-2017	Industrial area
10364	Port of Portland			PDX Light Rail Station/Track Realignment			Realign light rail track into terminal building.	\$16,330,700	\$19,868,794	2008-2017	Industrial area
10366	Port of Portland		Portland	Alderwood Rd. and Cornfoot Intersection Improvements			Add signals and/or improve turn lanes at Alderwood Rd/82nd Ave, Alderwood Rd/Cornfoot Rd, AirTrans Way/Cornfoot Rd.	\$2,206,000	\$2,683,936	2008-2017	Industrial area
10367	Port of Portland			CS/PIC Access Improvements			Intersection improvements (installation of stop signs, signalization and/or channelization) at Sandy Blvd/105th Ave, Airport Way/Holman St, Alderwood Rd/Holman St, Alderwood Rd/Cascades Pkwy.	\$1,217,000	\$1,480,667	2008-2017	Industrial area
10368	Port of Portland			PIC Ped/Bike Network			Construct bike and pedestrian facilities as shown in the CS/PIC Plan District.	\$1,163,835	\$1,415,983	2008-2017	Industrial area
10369	Port of Portland		Portland	Leadbetter St. Extension/Overcrossing			Complete Leadbetter St. loop to Marine Dr. (Pacific Gateway/T-6 intersection) and construct road bridge over rail line.	\$11,203,600	\$13,630,892	2008-2017	Industrial area
10370	Port of Portland			PDX ITS			Intelligent Transportation Systems in the PDX area.	\$3,000,000	\$3,649,959	2008-2017	Industrial area
10373	Port of Portland			Rivergate ITS			Intelligent Transportation System in Rivergate.	\$480,000	\$583,993	2008-2017	Industrial area
10375	Port of Portland		Portland	Cathedral Park Quiet Zone			Address rail switching noise related to the Toyota operations at T-4 by improving multiple public rail crossings in the St. Johns Cathedral Park area.	\$5,198,900	\$6,325,257	2008-2017	Industrial area
10376	Port of Portland			Columbia Blvd. Widening	60th Ave.	82nd Ave.	Widen Columbia Blvd. to five lanes between 60th Ave and 82nd Ave.	\$14,859,000	\$18,078,245	2008-2017	Industrial area
10377	Port of Portland			PSU ITS Expansion, incl. freight data repository			Expand PSU's existing web based ITS "count sensor" program beyond the freeway to some key arterials throughout the region. Create a repository of freight data (primarily truck data) from the region's Freight Data Collection project.	\$0	\$0	2008-2017	Industrial area
10378	Port of Portland			T-6 Internal Overcrossing	Marine Dr.	Terminal 6	Construct an elevated roadway between Marine Dr. and Terminal 6.	\$3,649,084	\$4,439,669	2008-2017	Industrial area
10380	Port of Portland			PDX Transportation Demand Management (TDM)			Implement strategies at PDX and PIC properties that reduce auto trips in the airport area. Programs to be undertaken with other area businesses/developers to maximize effectiveness; possible administration through a transportation management association.	\$0	\$0	2008-2017	Other
10382	Multnomah Co.	Multnomah Co.	Troutdale	Improve Stark St. to arterial standards by widening the existing 2 lanes to provide for 4 traffic lanes, a continuous left-turn lane, bike lanes, sidewalks, and intersection improvements.	257th Ave.	Troutdale Rd.	Upgrades road from rural 2 lane facility to urban standards with sidewalks and bicycle lanes.	\$3,150,000	\$3,832,457	2008-2017	Other
10385	Multnomah Co.	Multnomah Co.	Troutdale	Reconstruct Halsey St.	238th Ave.	Historic Columbia River Hwy	Widen Halsey St to 3 lane arterial with center turn lane/median, sidewalk and bicycle lanes.	\$3,600,000	\$4,379,950	2008-2017	Town center
10386	Gresham & Multnomah County	Gresham & Multnomah County		Reconstruct Gilsan St.	202nd Ave.	207th Ave.	Construct Gilsan Street to arterial standards including bike lanes, sidewalks, two travel lanes in each direction, center turn lane/median and drainage improvements. South side of Gilsan St is City of Gresham.	\$9,842,749	\$11,975,209	2008-2017	Employment area
10387	Multnomah Co.	Multnomah Co.	Wood Village	Reconstruct Arata Rd.	223rd Ave.	238th Ave.	Construct to 3 lane collector standards with center turn lane/median, sidewalks, bicycle lanes.	\$2,300,000	\$2,798,302	2008-2017	Town center
10388	Multnomah Co.	Multnomah Co.	Fairview	Reconstruct 223rd Ave.	Halsey St.	Sandy Blvd	Reconstruct 223rd Ave to major collector standards with 2 travel lanes, center turn lane/median, sidewalks and bicycle lanes. Requires reconstruction of RR bridge under another project.	\$1,400,000	\$1,703,314	2008-2017	Neighborhood
10392	Multnomah Co.		Port of Portland	Columbia/Cascade River District Projects	Various streets		Implement findings of traffic management plan.	\$9,200,000	\$11,193,207	2008-2017	Industrial area
10393	Multnomah Co.	Multnomah Co.	Fairview	Replace RR Over-crossing on 223rd Ave.	At I-84		Reconstruct railroad bridge on 223rd Ave, at I-84 to accommodate wider travel lanes, sidewalks and bike lanes.	\$7,000,000	\$8,516,570	2008-2017	Industrial area

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10397	Gresham		Multnomah Co.	Reconstruct 242nd Ave.	Stark St.	Gilsan St.	Construct 242nd Ave to principal arterial standards with 4 travel lanes, center turn lane/median, sidewalks and bicycle lanes, and install traffic signal at 23rd St. Project is southern segment of 242nd Ave Connector. (West half of road is in Gresham).	\$1,925,000	\$2,342,057	2008-2017	Other
10398	Multnomah Co.	Multnomah Co.	Fairview	Wood Village Blvd Extension	Arata Rd.	Halsey St.	Construct new extension of Wood Village Blvd as a major collector with 2 travel lanes, center turn lane/median, sidewalks and bicycle lanes.	\$1,573,000	\$1,913,795	2008-2017	Town center
10400	Multnomah Co.	Multnomah Co.	Portland	Construct new bicycle/pedestrian facility on Morrison Bridge	East Bridge head	West bridge head	Existing sidewalk on bridge is narrow, not accessible to persons with disability and presents major obstacles to bicycle and pedestrian use. Project would provide a multi-use bicycle and pedestrian facility providing improved access for non-motorized travelers.	\$2,100,000	\$2,554,971	2008-2017	Portland Central City
10403	Multnomah Co.	Multnomah Co.	Troutdale	257th Ave. Pedestrian improvements at intersections and mid-block crossings	Stark St.	Cherry Park Rd. north	Improve sidewalks, crossings, lighting and bus stops.	\$1,600,000	\$1,946,645	2008-2017	2040 corridor
10404	Multnomah Co.	Multnomah Co.	Troutdale	Beaver Creek Culvert Replacement	Troutdale Rd.	Cochran Rd.	Replace culverts with fish friendly structures allowing for passage to federally endangered species	\$6,000,000	\$7,299,917	2008-2017	Other
10410	Multnomah Co.	Multnomah Co.	Portland	Broadway Bridge Rehabilitation			Rehabilitate mechanical system, approach structure, corrosion control, phase 1 seismic.	\$22,700,000	\$27,618,021	2008-2017	Portland Central City
10411	Multnomah Co.	Multnomah Co.	Portland	Burnside Bridge Rehabilitation			Rehabilitate mechanical system, approach structure, corrosion control, phase 1 and 2 seismic.	\$41,600,000	\$50,612,761	2008-2017	Portland Central City
10412	Multnomah Co.	Multnomah Co.	Portland	Morrison Bridge Rehabilitation			Rehabilitate mechanical system, approach structure, corrosion control, phase 1 seismic.	\$42,000,000	\$51,099,422	2008-2017	Portland Central City
10413	Multnomah Co.	Multnomah Co.	Portland	Hawthorne Bridge Rehabilitation			Rehabilitate mechanical system, approach structure, corrosion control, phase 1 seismic.	\$13,300,000	\$16,181,484	2008-2017	Portland Central City
10414	Multnomah Co.	Multnomah Co.	Portland	Sellwood Bridge Rehabilitation/Replacement			Implement results of alternatives analysis.	\$25,100,000	\$30,537,988	2008-2017	Main street
10419	Gresham	Gresham		Civic Neighborhood. LRT station plaza	Max line west of City Hall	728' to the northwest	Constructs new light rail station to max blue line.	\$5,600,000	\$6,813,256	2008-2017	Regional center
10421	Gresham	Gresham		Burnside Rd. Blvd Improvements	181st	197th	Complete boulevard improvements.	\$7,873,990	\$9,579,913	2008-2017	Town center
10423	Gresham	Gresham		Cleveland St. Reconstruction.	Powell	Burnside	Reconstructs street from Burnside to Powell.	\$1,100,000	\$1,338,318	2008-2017	Regional center
10428	Gresham	Gresham		257th Corridor Improvements	Division	Powell Valley Rd.	Brings to standards, adds pedestrian, bicycle facilities.	\$8,623,103	\$10,491,323	2008-2017	Regional center
10431	Gresham	Gresham		Highland/190th Rd. Widening	200' south of SW 11th	Ending at the intersection of Pleasant View Dr./SE 190th and Butler	Reconstruct and widen street to five lanes with sidewalks and bike lanes. Widen and determine the appropriate cross-section for Highland Drive and Pleasant View Drive from Powell Boulevard to 190th Ave..	\$19,646,521	\$23,902,997	2008-2017	Employment area
10434	Gresham	Gresham		Burnside St. Improvements	NE Wallula St.	Hogan	Complete boulevard design improvements Wallula to Hogan (2004 RTP 2048), also improve intersection of Burnside at Division (2002 TSP #15) by adding eastbound RT and signal, and also improve the intersection of Burnside and Hogan (2004 RTP #2032).	\$32,545,601	\$39,596,700	2008-2017	Regional center
10436	Gresham	Gresham		Max Trail	Cleveland	Ruby Junction	Construct new shared use path.	\$1,897,279	\$2,308,330	2008-2017	Regional center
10439	Gresham	Gresham		Main City Park Trailhead	Main City Park		Improves parking lot, facilities (MTIP project).	\$570,299	\$693,856	2008-2017	Regional center
10441	Gresham	Gresham		Gresham RC Ped and Ped to Max	all stations		Improve sidewalks, lighting, crossings, bus shelters, benches.	\$584,820	\$711,523	2008-2017	Regional center
10442	Gresham	Gresham		Phase 3 Signal Optimization	System Wide		Optimize signals, provide message boards.	\$6,227,280	\$7,576,438	2008-2017	Regional center
10444	Gresham	Gresham		181st Ave. Widening	Halsey St.	EB on-ramp to I-84	Widens street to three lanes southbound.	\$1,797,270	\$2,186,654	2008-2017	2040 corridor
10449	Gresham	Gresham		201st: Halsey to Sandy	Halsey	Sandy	Improve to collector standards, signalize 201st/Sandy Blvd.	\$8,335,400	\$10,141,289	2008-2017	Industrial area
10450	Gresham	Gresham		2 Birdsdales Projects, at Division,	at Division	at Stark	Division: SB, EB turn lanes. At Stark: add 2nd NB LT lane and exclusive RT lane.	\$1,375,500	\$1,673,506	2008-2017	Industrial area
10454	Gresham	Gresham		181st Ave. Improvements	Gilsan	Yamhill	Complete boulevard design improvements.	\$11,440,061	\$13,918,583	2008-2017	Town center
10458	Gresham	Gresham	Multnomah Co.	Halsey St. Improvements	190th		Widen to 4 lanes w. sidewalks and bikelanes.	\$4,430,961	\$5,390,942	2008-2017	Town center
10462	Gresham	Gresham	Multnomah Co.	Butler Rd. Improvements	190th	Towle Rd.	Improve Butler Rd. in new alignment to collector standards, at intersection, add northbound and westbound turn pockets and signalize.	\$13,166,455	\$16,019,006	2008-2017	Neighborhood
10463	Gresham	Gresham	Multnomah Co.	Foster Rd. Extension (north)	Jenne	172nd	New north extension of Foster.	\$15,417,627	\$18,757,901	2008-2017	Town center
10471	Gresham	Gresham	Multnomah Co.	Butler Rd. Extension and Bridge	Binford	Rodlun	Construct new Butler road extension and bridge crossing.	\$12,268,899	\$14,926,992	2008-2017	Town center
10472	Gresham	Gresham		Eastman at Division			Add 2nd NB and SB LT lanes.	\$912,928	\$1,110,717	2008-2017	Regional center
10473	Gresham	Gresham		Eastman at Stark			Add EB and NB RT lanes and 2nd NB and SB LT lanes.	\$1,196,756	\$1,456,037	2008-2017	Regional center
10474	Gresham	Gresham	Multnomah Co.	Rugg Rd. Ext.	Orient Dr.	US 26	Construction of new roadway that adds e/w capacity in vicinity Rugg Rd and connects Springwater Industrial area to Highway 26.	\$30,672,208	\$37,317,431	2008-2017	Industrial area
10475	Gresham	Gresham	Multnomah Co.	Rugg Rd. Ext.	US 26	252nd Ave.	Construction of new roadway that adds e/w capacity in vicinity Rugg Rd and connects Springwater Industrial area to Highway 26.	\$39,329,973	\$47,850,926	2008-2017	Industrial area
10476	Gresham	Gresham	Multnomah Co.	Rugg Rd.	252nd Ave.	242nd Ave.	Construction of new roadway that adds e/w capacity in vicinity Rugg Rd and connects Springwater Industrial area to Highway 26.	\$12,770,187	\$15,536,885	2008-2017	Industrial area
10477	Gresham	Gresham	Multnomah Co.	Springwater Road Section 4	242nd Ave.	252nd Ave.	Construction of new street for implementation of Springwater Plan.	\$13,148,679	\$15,997,378	2008-2017	Industrial area
10478	Gresham	Gresham	Multnomah Co.	252nd Ave.	Palmquist Rd.	10	Construction of new street for implementation of Springwater Plan.	\$26,162,462	\$31,830,635	2008-2017	Industrial area

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## 2035 Regional Transportation Plan Project List

Metro Project ID	Nominating Agency	Facility Owner / Operator	Other Sponsors	Project/Program Name	Project Start Location (Identify starting point of project)	Project End Location (Identify terminus of project)	Description	Estimated Cost (\$2007)	Estimated Cost (YOE \$)	Time Period	2040 Land Use
10479	Gresham	Gresham	Multnomah Co.	252nd Ave.	10	Rugg Rd.	Construction of new street for implementation of Springwater Plan.	\$9,808,690	\$11,933,771	2008-2017	Industrial area
10480	Gresham	Gresham	Multnomah Co.	Springwater Road Section 7	242nd Ave.	9	Construction of new street for implementation of Springwater Plan.	\$8,008,421	\$9,743,469	2008-2017	Industrial area
10481	Gresham	Gresham	Multnomah Co.	Springwater Road Section 8	242nd Ave.	9	Construction of new street for implementation of Springwater Plan.	\$5,519,551	\$6,715,378	2008-2017	Industrial area
10482	Gresham	Gresham	Multnomah Co.	Springwater Road Section 9	7	252nd Ave.	Construction of new street for implementation of Springwater Plan.	\$8,008,421	\$9,743,469	2008-2017	Industrial area
10483	Gresham	Gresham	Multnomah Co.	Springwater Road Section 10	252nd Ave.	Telford Rd.	Construction of new street for implementation of Springwater Plan.	\$12,202,421	\$14,846,111	2008-2017	Industrial area
10484	Gresham	Gresham	Multnomah Co.	Springwater Road Section 11	Telford Rd.	Orient Dr.	Construction of new street for implementation of Springwater Plan.	\$21,031,280	\$25,587,768	2008-2017	Industrial area
10485	Gresham	Gresham	Multnomah Co.	Hogan	Palmquist Rd.	Rugg Rd.	Improvement of existing roadway to arterial 4 lane standards.	\$47,291,190	\$57,536,964	2008-2017	Industrial area
10486	Gresham	Gresham	Multnomah Co.	Telford Rd.	Springwater Boundary	252nd Ave.	Improvement of existing roadway to collector standards, add bike and ped facilities, intersection improvements.	\$29,419,888	\$35,793,792	2008-2017	Industrial area
10488	Gresham	Gresham	Multnomah Co.	282nd Ave.	Springwater Boundary	20	Improvement of existing roadway to collector standards, add bike and ped facilities, intersection improvements.	\$7,146,436	\$8,694,732	2008-2017	Industrial area
10490	Gresham	Gresham		201st RR Bridge at I-84	201st/I-84	"	Construct new RR bridge to accommodate alternative modes.	\$2,359,129	\$2,870,236	2008-2017	Industrial area
10494	Gresham	Gresham		162nd at Stark St.			Exclusive southbound and eastbound right turns at Stark.	\$888,205	\$1,080,642	2008-2017	Employment area
10495	Gresham	Gresham		181st Ave. at Halsey	181st/Halsey		add 2nd LT lane to N & S legs, add RT lane to EB WB SB.	\$1,025,038	\$1,247,115	2008-2017	Industrial area
10497	Gresham	Gresham		181st at Sandy, at Stark			At Sandy: Northbound right turn, 2nd westbound left turn. Overlap eastbound right turn. At Stark, add 2nd left turn lane on east and west legs.	\$1,884,390	\$2,292,649	2008-2017	2040 corridor
10498	Gresham	Gresham		181st (182nd) at Division/Powell Intersections	181st at Division, Powell		At Division: add second westbound left turn lane (TIF P1). At Powell, add northbound and southbound double left turn lanes (TIF P2 and TSP8).At Powell add SB and NB lanes.	\$1,682,670	\$2,047,225	2008-2017	2040 corridor
10499	Gresham	Gresham		192nd Ave. Wilkes to Halsey	192nd/Wilkes	192nd/Halsey	Improve to collector street standards.	\$3,833,031	\$4,663,468	2008-2017	Industrial area
10502	Gresham	Gresham		Bike signs	various locations		Add directional signs to bike network.	\$1,400,000	\$1,703,314	2008-2017	Other
10503	Gresham	Gresham		Burnside at Powell			At Powell: eliminate EB and WB left turn lanes.	\$683,517	\$831,603	2008-2017	2040 corridor
10504	Gresham	Gresham		Ped to Max: Hood St.	Powell	Division	Improve ped access/multi-modal on Hood St.	\$986,467	\$1,200,188	2008-2017	Regional center
10505	Gresham	Gresham		Civic Neighborhood TOD	16th and NW Norman		Support construction of street infrastructure improvements.	\$4,765,219	\$5,797,618	2008-2017	Regional center
10506	Gresham	Gresham		Transit: Columbia Corridor TMA			Transit/bus service improvements, 2 locations.	\$185,258	\$225,395	2008-2017	Industrial area
10507	Gresham	Gresham		Glisan, 162nd to 202	162nd/I-84	202nd	Retrofit bikelanes.	\$104,850	\$127,566	2008-2017	Employment area
10508	Gresham	Gresham		Glisan, Eastman (223rd) to Hogan	223rd (Eastman)	Hogan	Construct bike lane.	\$62,910	\$76,540	2008-2017	2040 corridor
10509	Gresham	Gresham		Safe walking routes, missing links	various locations		Construct missing links and safe routes to school.	\$4,089,150	\$4,975,076	2008-2017	Other
10516	Gresham	Gresham		San Rafael, 181st to 201st	181st	201st	Complete collector and remove frontage road.	\$9,990,952	\$12,155,521	2008-2017	Industrial area
10519	Gresham	Gresham		Pedestrian enhancements	162nd/Bside, and	181st Burnside	Pedestrian enhancements.	\$75,492	\$91,848	2008-2017	Regional center
10533	Gresham	Gresham	Multnomah Co.	190th:30th to So. Boundary of Pleasant Valley	30th	Southern boundary of Pleasant Valley	Improve existing road to major arterial standards, signalize 190th @ Giese, Butler, Richey, Cheldelin.	\$28,644,245	\$34,850,104	2008-2017	Town center
10534	Gresham	Gresham	Multnomah Co.	Cheldelin: 172nd to 190th	172nd	190th	Improve existing road to minor arterial standards, signalize Cheldelin at 172nd, 182nd, and Foster.	\$19,795,513	\$24,084,268	2008-2017	Town center
10535	Gresham	Gresham	Multnomah Co.	Clatsop: New extension	162nd	172nd	Extend Clatsop into Pleasant Valley, and construct bridge.	\$20,163,595	\$24,532,096	2008-2017	Town center
10536	Gresham	Gresham	Portland	Clatsop: Improvements	162nd	Portland Boundary	Improve Clatsop to minor arterial standards, and signalize Clatsop at 162nd.	\$4,202,582	\$5,113,084	2008-2017	Town center
10537	Gresham	Gresham	Multnomah Co.	Richey	182nd	190th	Improve to collector standards, and signalize 190th/Richey.	\$7,925,735	\$9,642,868	2008-2017	Town center
10538	Gresham	Gresham	Clackamas Co.	Sager	162nd	Foster	Improve to collector standards, and signalize Sager @ 172nd.	\$15,794,720	\$19,216,692	2008-2017	Town center
10539	Gresham	Gresham	Clackamas Co.	Foster South: new road	County Line	Sager	Build new road section to collector standards.	\$7,120,992	\$8,663,776	2008-2017	Town center
10540	Gresham	Gresham	Portland	162nd	Foster	southern boundary of Pleasant Valley	Improve 162nd to collector standards, add signal at Foster @ 162nd.	\$21,236,546	\$25,837,505	2008-2017	Town center
10541	Gresham	Gresham	Portland	182nd	Giese	Cheldelin	Improve 182nd to collector standards.	\$11,797,690	\$14,353,694	2008-2017	
10542	Gresham	Gresham	Portland	Foster Rd. Improvements	162nd	Jenne Rd.	Improve Foster Rd. to Minor Arterial (Parkway) standards, 2 lanes, with turn pockets where appropriate.	\$3,014,698	\$3,667,841	2008-2017	Town center
10543	Gresham	Gresham	Portland	172nd: Cheldelin south to Pleasant Valley boundary	Cheldelin	So. Boundary of Pleasant Valley	Improve 172nd Ave. to major arterial standards.	\$8,651,396	\$10,525,746	2008-2017	Town center
10549	Washington Co.	Washington Co.		Cornell @ 143rd Improvements	Science Park Dr.	143rd Ave.	Realign 143rd with Science Park Dr. @ Cornell as a 4-way signalized intersection.	\$12,400,000	\$15,086,496	2008-2017	Town center
10551	Washington Co.	Washington Co.		185th to West Union Improvement	North of Westview H.S.	West Union Rd.	Add 1 thru-lane in each direction with continuous center turn lane, bikelanes and sidewalks.	\$6,794,000	\$8,265,940	2008-2017	Neighborhood
10560	Washington Co.	Washington Co.		Farmington Rd. Improvements	170th Ave.	185th Ave.	Widen roadway from 2/3 lanes to 5 lanes with bike lanes and sidewalks.	\$17,676,000	\$21,505,557	2008-2017	2040 corridor
10576	Washington Co.	Washington Co.		Saltzman Rd. Improvements	Cornell Rd.	Burton Rd.	Widen from two to three lanes with bike lanes and sidewalks.	\$12,550,000	\$15,268,994	2008-2017	Town center
10579	Washington Co.	Washington Co.		Barnes to 119th Improvements	Hwy. 217	119th (future)	Widen to five lanes with bike lanes and sidewalks	\$30,316,000	\$36,884,049	2008-2017	Station community
10581	Washington Co.	Washington Co.		Brookwood Rd. Improvements	T.V. Hwy.	Baseline Rd.	Widen roadway to three lanes with bike lanes and sidewalks.	\$11,970,000	\$14,563,335	2008-2017	Neighborhood
10587	Washington Co.	Washington Co.		Cornelius Pass Rd. Improvements	Amberwood Dr.	T.V. Hwy.	Widen to five lanes with bike lanes and sidewalks	\$59,872,000	\$72,843,443	2008-2017	Neighborhood
10592	Washington Co.	Washington Co.		205th Ave. Improvements	Quatama Rd.	Baseline Rd.	Widen road to 5 lanes with bike lanes and sidewalks. Widen bridge over Beaverton Creek to four lanes with bike lanes and sidewalks.	\$18,061,000	\$21,973,968	2008-2017	Station community

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10597	Washington Co.			Evergreen Rd. Improvements	253rd Ave.	Sewell Ave.	Widen to 5 lanes with bike lanes and sidewalks.	\$11,242,000	\$13,677,612	2008-2017	Employment area
10600	Washington Co.	ODOT	ODOT	Hwy. 26/Shute Interchange Improvements	Hwy. 26/Shute Rd./Helvetia Rd.	N/A	Add westbound to southbound loop ramp, additional northbound through lane and relocate Jacobsen intersection.	\$29,272,000	\$35,613,864	2008-2017	Industrial area
10602	Washington Co.	Washington Co.		Scholls Ferry ATMS	Hall Blvd.	Murray Blvd.	Install integrated surveillance and management equipment.	\$1,109,000	\$1,349,268	2008-2017	2040 corridor
10603	Washington Co.	Washington Co.		Tualatin-Sherwood Rd. ATMS	I-5	Teton Ave.	Install integrated surveillance and management equipment.	\$1,594,000	\$1,939,345	2008-2017	Industrial area
10604	Washington Co.	Washington Co.		185th Ave. ATMS	Baseline Rd.	Hwy. 26	Install integrated surveillance and management equipment.	\$1,095,000	\$1,332,235	2008-2017	2040 corridor
10605	Washington Co.	Washington Co.		Cornell Rd. ATMS	Cornelius Pass Rd.	Wash. Co. TOC	Install integrated surveillance and management equipment.	\$2,043,000	\$2,485,622	2008-2017	2040 corridor
10606	Washington Co.	Washington Co.		Washington Square Regional Center Pedestrian Improvements	Wash. Sq. Regional Center		Complete 7400 feet of sidewalk improvements.	\$8,954,000	\$10,893,910	2008-2017	Regional center
10607	Washington Co.	Washington Co.		Sunset TC Station Community Pedestrian Improvements	Sunset TC Station Community		Complete 9100 feet of sidewalk improvements.	\$6,006,000	\$7,307,217	2008-2017	Station community
10608	Washington Co.	Washington Co.		Aloha TC Pedestrian Improvements	Aloha Town Center		Complete 23,500 feet of sidewalk improvements.	\$10,105,000	\$12,294,278	2008-2017	Town center
10610	Washington Co.	Washington Co.		Saltzman Rd. Bike	Cornell Rd.	Barnes Rd.	Complete 950 feet of bike lanes in town center.	\$823,000	\$1,001,305	2008-2017	Regional center
10611	Washington Co.	Washington Co.		Locust Ave. Bike	Hall Blvd.	80th Ave.	Completes 1650 feet of bike lanes in regional center.	\$3,417,000	\$4,157,303	2008-2017	Station community
10612	Washington Co.	Washington Co.		Greenburg Rd. Bike	Hall Blvd.	Hwy. 217	Completes 3400 feet of bike lanes in regional center.	\$3,610,000	\$4,392,117	2008-2017	Town center
10613	Washington Co.	Washington Co.		Cornell Rd. Bike	Saltzman Rd.	119th Ave.	Completes 1750 feet of bike lanes in town center.	\$1,036,000	\$1,260,452	2008-2017	Town center
10614	Washington Co.	Washington Co.		Butner Rd. Bike	Cedar Hills Blvd..	Park Way	Completes 7800 feet of bike lanes to transit corridor.	\$3,524,000	\$4,287,485	2008-2017	2040 corridor
10615	Washington Co.	Washington Co.		Bronson Rd. Bike	185th Ave.	Bethany Blvd.	Completes 7500 feet of bike lanes to transit corridor.	\$5,490,000	\$6,679,424	2008-2017	2040 corridor
10616	Beaverton	Beaverton		Rose Biggi Ave.: Crescent Street to Hall Blvd. Complete right-of-way and construction of multimodal street extension with Boulevard Design	Crescent St.	Hall Blvd.	Extend 2-lane Rose Biggi Ave. to Hall Blvd. (via Westgate Drive) to fill a gap; boulevard design; add sidewalks, bikeway (PE funded STIP Key #14400).	\$3,500,000	\$4,258,285	2008-2017	Regional center
10617	Beaverton	Washington County		Farmington Rd.: Murray Blvd. to Hocken Ave. Safety, turn lanes, bicycle, and pedestrian improvements	Murray Blvd.	Hocken Ave.	Construct turn lanes and intersection improvements; signalize where warranted; add bike lanes and sidewalks in gaps.	\$8,700,000	\$10,584,880	2008-2017	Regional center
10618	Beaverton	Beaverton		Dawson/Westgate multimodal extension from Rose Biggi Ave. to Hocken Ave.	Rose Biggi Avenue	Hocken Ave. via Dawson to Westgate at Rose Biggi	Extend 2 lane street from Hocken via Dawson and Westgate at Rose Biggi to fill a gap; realign Dawson/Westgate at Cedar Hills; add turn lanes at intersections, sidewalks, bikeway.	\$8,900,000	\$10,828,211	2008-2017	Regional center
10619	Beaverton	Beaverton		Crescent St. multimodal extension to Cedar Hills Blvd.	Rose Biggi Ave.	Cedar Hills Blvd.	Extend 2 lane Crescent from Cedar Hills to Rose Biggi Ave. to fill a gap; add sidewalks, bikeway.	\$3,500,000	\$4,258,285	2008-2017	Regional center
10625	Beaverton	Beaverton		Rose Biggi Ave.: 2 lane multimodal street extension	Tualatin Valley Hwy	Broadway	Construct 2 lane boulevard extension with bikeways and sidewalks.	\$3,000,000	\$3,649,959	2008-2017	Regional center
10626	Beaverton	Beaverton		114th Ave./115th Ave. 2 lane multimodal street	LRT	Beaverton Hillsdale Hwy/Griffith Drive	Construct 2 lane street with bike and pedestrian improvements.	\$10,000,000	\$12,166,529	2008-2017	Regional center
10628	Beaverton	Beaverton		Center Street and 113th Ave. safety, bike, and pedestrian improvements	Hall Blvd.	Cabot Street	Add sidewalks and bikelanes; add turn lanes where needed.	\$5,400,000	\$6,569,926	2008-2017	Regional center
10630	Beaverton	Beaverton		Hall Blvd. multimodal extension from Cedar Hills Blvd. to Hocken Ave.	Hocken Ave.	Cedar Hills Blvd.	Extend Hall Blvd. from Cedar Hills to Hocken to fill a gap; add turn lanes at intersections, sidewalks and bikeway.	\$5,500,000	\$6,691,591	2008-2017	2040 corridor
10631	Beaverton	Beaverton		141st/142nd/144th multimodal street extension connections	141st Ave.	144th Ave.	Connect streets, add bikeways, sidewalks, turns lanes and signalize as warranted.	\$6,400,000	\$7,786,579	2008-2017	Station community
10635	Beaverton	Beaverton		125th Ave. multimodal extension Brockman to Hall Blvd.	Brockman St.	Hall Blvd.	Construct new multimodal street with bike lanes and sidewalks.	\$13,900,000	\$16,911,475	2008-2017	Neighborhood
10638	Beaverton	Beaverton		Davies Rd. multimodal street extension	Scholls Ferry Rd.	Barrows Rd.	Extend 2 lane street with turn lanes, bike lanes and sidewalks.	\$4,900,000	\$5,961,599	2008-2017	Town Center
10643	Beaverton	ODOT		Hall Blvd. sidewalk gaps at Hwy 217	217 SB ramp	740' w/o ramp	Construct sidewalks.	\$400,000	\$486,661	2008-2017	Regional center
10645	Beaverton	Beaverton		117th Ave. sidewalk gaps	LRT	Center St.	Construct sidewalks.	\$400,000	\$486,661	2008-2017	Regional center
10646	Beaverton	Beaverton		Hall Blvd. / Watson Ave. pedestrian improvements	Cedar Hills Blvd..	Allen Blvd.	Add pedestrian improvements at intersections and amenities (lighting, plazas).	\$2,400,000	\$2,919,967	2008-2017	Regional center
10652	Beaverton	Beaverton		141st Ave. sidewalks	Farmington Rd	Allen Blvd	Construct sidewalks.	\$300,000	\$364,996	2008-2017	2040 corridor
10659	Beaverton	Beaverton		Laurelwood Ave., Birchwood Road, 87th Ave. sidewalks	Scholls Ferry Road	Canyon Road	Construct sidewalks.	\$700,000	\$851,657	2008-2017	
10661	Beaverton	Beaverton		155th Ave. sidewalks	Beard Rd.	Weir Rd.	Construct sidewalks.	\$2,700,000	\$3,284,963	2008-2017	
10662	Beaverton	Beaverton		155th Ave. sidewalks	Davis Rd.	Beverly Beach Ct	Construct sidewalks.	\$1,800,000	\$2,189,975	2008-2017	

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10692	Sherwood		Washington Co.	Edy Rd	Borcher Dr	City limits	Reconstruct road to collector standards w/ sidewalks and bike lanes.	\$8,760,000	\$10,657,879	2008-2017	Neighborhood
10694	Sherwood	Sherwood		Murdock	UGB	Oregon St	Add bike lanes.	\$1,340,000	\$1,630,315	2008-2017	Neighborhood
10709	Tualatin	Tualatin		Sagert	Martinazzi	N/A	Signalize intersection and change grades to provide better sight distance.	\$1,700,000	\$2,068,310	2008-2017	Neighborhood
10714	Tualatin	Tualatin		105th Ave/Avery Street	Blake	105th	Realign curves, signalize intersection of Avery/105th, sidewalks on 105th from Avery to 108th.	\$5,000,000	\$6,083,265	2008-2017	Neighborhood
10715	Tualatin	Tualatin		Herman	Teton	Tualatin	Reconstruct and widen to 3 lanes from Teton to Tualatin.	\$2,500,000	\$3,041,632	2008-2017	Industrial area
10716	Tualatin	Tualatin		Myslony	112th	124th Ave	Reconstruct/widen from 112th to 124th to fill system.	\$9,400,000	\$11,436,537	2008-2017	Industrial area
10718	Tualatin	Tualatin		Herman	Cipole	124th Ave	Reconstruction from Cipole to 124th.	\$4,100,000	\$4,988,277	2008-2017	Industrial area
10728	Tualatin	Tualatin		Boones Ferry	N/A	N/A	Interconnect signals on Boones Ferry Road from Tualatin-Sherwood Road to Ibach (6 signals).	\$78,000	\$94,899	2008-2017	Other
10730	Tualatin	Tualatin		E-W connection	108th	112th	Construct new street.	\$18,200,000	\$22,143,083	2008-2017	Industrial area
10736	Tualatin	Tualatin		124th Ave	Tualatin-Sherwood	Tonquin	Construct new street from Tualatin-Sherwood to Tonquin Rd - 5 lanes.	\$82,500,000	\$100,373,864	2008-2017	Main street
10737	Tualatin	Tualatin		Central Design District Pedestrian Improvements			Pedestrian improvements & bike lanes.	\$10,600,000	\$12,896,521	2008-2017	Town center
10748	Tigard			Greenburg Road Improvements, South	Shady Lane	North Dakota	Widen to 5 lanes with bikeways and sidewalks. Includes bridge replacement.	\$14,330,000	\$17,434,636	2008-2017	Regional center
10753	Tigard	Tigard		Durham Road Improvements	Upper Boones Ferry Road	Hall Blvd.	Widen to 5 lanes.	\$21,093,000	\$25,662,860	2008-2017	Employment area
10754	Tigard	Tigard		Walnut Street Extension	99W	Hunziker Road	Extend street east of 99W to connect to Hunziker Road. (PE Phase only)	\$3,770,000	\$4,586,781	2008-2017	Town center
10755	Tigard	Tigard		72nd Ave. Improvements	99W	Hunziker Road	Widen to 5 lanes with bikeways and sidewalks. Includes bridge replacement.	\$50,964,000	\$62,005,499	2008-2017	Employment area
10759	Tigard	Tigard		Dartmouth Street Improvements	72nd Ave.	68th Ave.	Widen to 4 lanes with turn lanes and sidewalks.	\$4,412,000	\$5,367,873	2008-2017	Employment area
10763	Tigard			Washington Square Regional Center Greenbelt Shared Use Path	Hall Blvd.	Hwy. 217	Complete shared-use path construction.	\$1,821,000	\$2,215,525	2008-2017	Regional center
10767	Tigard		ODOT	72nd Ave. Intersection Improvements	Hwy 99W	Upper Boones Ferry	Southbound right turn lane, northbound right turn overlap at Hwy 99W and 72nd; Southbound or Eastbound right turn lane at 72nd/Hampton/Hunziker.	\$2,000,000	\$2,433,306	2008-2017	Employment area
10768	Tigard	Tigard		Upper Boones Ferry Intersection Improvements	Durham Road	I-5	Reconfigure intersection of Durham & Upper Boones Ferry to create a through route between Durham & I-5/Carmen Interchange; 2nd Northbound Turn Lane at 72nd/Carmen; 72nd/Boones Ferry assuming Boones Ferry/72nd widened to 5 lanes; eastbound right turn lane at Carman/I-5 southbound.	\$9,630,000	\$11,716,367	2008-2017	Employment area
10769	Tigard	Tigard		Greenburg Intersection Improvements	Hall	Tiedeman Ave	2nd Northbound turn lane, modify signal timing at Greenburg/Oleson/Hall; install boulevard treatment at Greenburg/Washington Square Road; improve geometry/alignment and extend cycle length at intersection of Greenburg/Tiedeman.	\$9,512,000	\$11,572,802	2008-2017	Regional center
10770	Tigard	ODOT	ODOT	Hwy. 99W Intersection Improvements	68th	Beef Bend Road	Provide increased capacity at priority intersections, including bus queue bypass lanes in some locations, improved sidewalks, priority pedestrian crossings, and an access management plan, while retaining existing 4/5-lane facility from I-5 to Durham Road.	\$19,669,000	\$23,930,346	2008-2017	2040 corridor
10771	Forest Grove	TriMet		High Capacity Transit: Blue Line west : Hwy. 8 extension	Hillsboro	Forest Grove	The Cities of Forest Grove, Cornelius, Hillsboro, and Washington County have identified a need to extend the MAX system to Forest Grove. The proposed line would run from the end of the existing HCT system in Hillsboro to downtown Forest Grove.	\$1,500,000	\$1,824,979	2008-2017	Regional center
10773	Forest Grove		Washington Co.	Thatcher/Gales Creek	Thatcher	Gales Creek	Re-align Thatcher Road at its intersection with Gales Creek Road.	\$3,600,000	\$4,379,950	2008-2017	Employment area
10774	Forest Grove	Forest Grove		23rd/24th	Hawthorne	Quince	Construct collector level roadway between Hawthorne Ave. and Quince Street.	\$15,000,000	\$18,249,794	2008-2017	Industrial area
10775	Forest Grove	Forest Grove		E/Pacific/19th Intersection	E	Pacific	Extend 19th west and connect up to E and Pacific with a round-about.	\$4,800,000	\$5,839,934	2008-2017	Neighborhood
10776	Forest Grove	Forest Grove		HWY 8/HWY 47 Intersection	HWY 8	HWY 47	Turn Lanes, modify traffic signal.	\$3,300,000	\$4,014,955	2008-2017	Employment area
10778	Forest Grove	Forest Grove		Heather Industrial Connector	Mountain View	HWY 47	Extend westerly from existing terminus to connect to Hwy 47 and the City of Cornelius.	\$5,800,000	\$7,056,587	2008-2017	Industrial area
10779	Forest Grove	Forest Grove		Hwy 8/Pacific/19th	Cornelius City Limits	B	Retrofit the street with a boulevard design from Quince Street to B Street including wider sidewalks, curb extensions, safer street crossings, bus shelters and benches.	\$12,100,000	\$14,721,500	2008-2017	2040 corridor
10781	Forest Grove	Forest Grove		West UGB Trail	Ritchey	David Hill	Multi-use trail.	\$3,100,000	\$3,771,624	2008-2017	Neighborhood
10782	Forest Grove	Forest Grove		Thatcher / Willamina / B St Pedestrian and Bicycle Improvements	Gales Creek-David Hill /Gales Creek - Sunset / 26th-Willamina	Gales Creek-David Hill /Gales Creek - Sunset / 26th-Willamina	Bike lanes and sidewalks.	\$5,600,000	\$6,813,256	2008-2017	Neighborhood
10784	Forest Grove	Forest Grove		David Hill Bicycle Pedestrian	Thatcher	Forest Gale Dr.	Multi-use trail.	\$4,900,000	\$5,961,599	2008-2017	Neighborhood

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## 2035 Regional Transportation Plan Project List

Metro Project ID	Nominating Agency	Facility Owner / Operator	Other Sponsors	Project/Program Name	Project Start Location (Identify starting point of project)	Project End Location (Identify terminus of project)	Description	Estimated Cost (\$2007)	Estimated Cost (YOE \$)	Time Period	2040 Land Use
10785	Cornelius	Cornelius		14th Ave	Dogwood	Holladay	Regulate OR8 traffic flow; widen local collector to improve Main Street/Industrial Area north/south connectivity.	\$2,800,000	\$3,406,628	2008-2017	Main street
10786	Cornelius		Washington Co.	Susbauer Rd	TV Hwy	Zion Church Rd	Improve County Freight Connector route to urban standard w/in City (sidewalks & bike lanes); widen rural road with shoulder bike lane, reconstruct Dairy Creek Bridge to eliminate frequent road flooding.	\$1,000,000	\$1,216,653	2008-2017	Main street
10796	Cornelius	Cornelius		Holladay St Extension	10th	Gray	Construct new collector.	\$1,300,000	\$1,581,649	2008-2017	Main street
10800	Cornelius	Cornelius		Dogwood St. Extension	E. City Limits	345th Ave.	Construct new collector.	\$1,500,000	\$1,824,979	2008-2017	Main street
10801	Cornelius	Cornelius		29th Ave.	TV Hwy	345th Ave.	Construct new collector.	\$4,200,000	\$5,109,942	2008-2017	Main street
10802	Cornelius	Cornelius		29th Ave	TV Hwy		Signalize intersection.	\$600,000	\$729,992	2008-2017	Main street
10803	Cornelius	Cornelius		TV Hwy	4th Ave	29th Ave	Interconnect OR 8 signal system in Cornelius.	\$450,000	\$547,494	2008-2017	Main street
10804	Cornelius	Cornelius		Collector Bike Lanes			Sign & stripe about 50 blocks of collectors.	\$350,000	\$425,829	2008-2017	Main street
10805	Cornelius	ODOT		TV Hwy Ped Infill			Build out sidewalk gaps on TV Hwy, in Cornelius.	\$1,020,000	\$1,240,986	2008-2017	Main street
10806	Cornelius		Metro	Council Creek Trail System	See Metro Trail Map	See Metro Trail Map	Build a bike/ped trail system along Council Creek in Cornelius.	\$2,040,000	\$2,481,972	2008-2017	Main street
10813	THPRD	THPRD	Metro	Westside Trail (Regional)	Farmington Rd.	Scholls Ferry Rd.	To design and construct a regional trail multi-use segment in a utility corridor, 10'-12' wide paved.	\$4,000,000	\$4,866,612	2008-2017	Other
10814	Hillsboro	Hillsboro		Evergreen Rd	25th Ave	Sewell Rd	Widen to 5 lanes with bike lanes and sidewalks.	\$4,000,000	\$4,866,612	2008-2017	Employment area
10815	Hillsboro	Hillsboro		Cornell Rd Signal Coordination	185th	Cornelius Pass	Interconnect Traffic Signals (Extends County ATMS).	\$1,000,000	\$1,216,653	2008-2017	Town center
10816	Hillsboro	Hillsboro		TV Hwy. Signal Coordination	209th	10th Ave.	Interconnect traffic signals.	\$2,350,000	\$2,859,134	2008-2017	2040 corridor
10819	Hillsboro	Hillsboro		231st Ave./Century Blvd	Baseline	Dogwood	Widen to 3 lanes with bike lanes and sidewalks.	\$6,800,000	\$8,273,240	2008-2017	
10820	Hillsboro	Hillsboro		Brookwood (247th)	TV Hwy.	River Road	Widen to 3 lanes with bike/ped TV Hwy to Alexander, 2 lanes with onstreet parking and bike/ped Alexander to UGB.	\$2,094,000	\$2,547,671	2008-2017	
10821	Hillsboro	Hillsboro		Huffman	Shute	West UGB (Sewell)	Build 3 lane with bike lanes and sidewalks.	\$9,282,000	\$11,292,972	2008-2017	Industrial area
10822	Hillsboro	Hillsboro		253rd	Evergreen	North UGB	Build 3 lane with bike lanes and sidewalks.	\$6,162,000	\$7,497,015	2008-2017	Industrial area
10827	Hillsboro	Hillsboro		Quatama Road	LRT	Cornelius Pass	Widen to 3 lane with bike lanes/sidewalks.	\$1,800,000	\$2,189,975	2008-2017	Station community
10838	Hillsboro	Hillsboro		Davis Road	Brookwood	234th (Century)	Extend 3 lane road with bike lanes/sidewalks.	\$4,474,000	\$5,443,305	2008-2017	
10839	Hillsboro	Hillsboro		Century Blvd (234th)	Alexander	South UGB	Extend 3 lane road with bike lanes/sidewalks.	\$11,636,000	\$14,156,973	2008-2017	
10841	Hillsboro	Hillsboro		Other Traffic Signals	N/A	N/A	Future Traffic Signals (Town Centers, 2040 Corridors).	\$5,700,000	\$6,934,922	2008-2017	
10852	Wilsonville	ODOT		95th Ave/Boones Ferry Rd/Commerce Circle Intersection Improvements	95th Ave.	Southbound off-ramp I-5/Stafford Rd Interchange	Provide dual left-turn and right-turn lanes, improve signal synchronization, access management measures, fix sight-distance problems, and add extra lanes.	\$2,500,000	\$3,041,632	2008-2017	2040 corridor
10853	Wilsonville	Wilsonville		Kinsman Rd Extension from Ridder Rd to Day St	Ridder Rd	Day St	Extend 3 lanes with sidewalks and bike lanes.	\$6,500,000	\$7,908,244	2008-2017	Industrial area
10854	Wilsonville		Metro	Tonquin Trail	Tualatin/Sherwood	Washington/Clackamas County line	Shared use path with some on-street portions.	\$2,000,000	\$2,433,306	2008-2017	Other
10860	Gresham	Gresham		Collector 72 (Knapp)	172nd	182nd	Build new road to green street collector standards.	\$10,703,002	\$13,021,838	2008-2017	Town center
10861	Gresham	Gresham		Collector 72 (Knapp)	182nd	190th	Build new road to green street collector standards.	\$10,368,393	\$12,614,735	2008-2017	Town center
10862	Gresham	Gresham		Community Street 72	190th	Binford Parkway	Build new road to green street community standards.	\$9,991,393	\$12,156,057	2008-2017	Employment area
10865	ODOT	ODOT	Port of Portland	New I-205 NB on-ramp at I-205/Airport Way interchange based on I-205/Airport Way Study	I-205 and Airport Way		New I-205 NB on-ramp at I-205/Airport Way interchange based on I-205/Airport Way Study.	\$27,200,000	\$33,092,959	2008-2017	Throughway
10866	ODOT	ODOT		Improve I-5/Columbia River bridge (Oregon share)	Victory Blvd.	Washington state line	Improve I-5/Columbia River bridge (Oregon share).	\$50,000,000	\$60,832,645	2008-2017	Throughway
10867	ODOT	ODOT		I-5: Conduct preliminary engineering and environmental work to modernize freeway and ramps to improve access to the Lloyd District and Rose Quarter	I-5 and I-84	I-5 and Greeley St.	Conduct preliminary engineering and environmental work to modernize freeway and ramps to improve access to the Lloyd District and Rose Quarter.	\$30,000,000	\$36,499,587	2008-2017	Throughway
10869	ODOT	ODOT	Clackamas County	Sunrise Project: Construct new highway facility from I-205 to 122nd and interim connection to 122nd Ave as defined by supplemental EIS	I-205	172nd Ave.	Construct improvements as defined by supplemental EIS.	\$116,000,000	\$141,131,737	2008-2017	Throughway
10870	ODOT	ODOT	Washington County	I-5/99W Connector Phase 1: Conduct study, complete environmental design work and NEPA for I-5 to OR-99W Connector and acquire ROW	OR 99W	I-5	Phase 1: Conduct study, complete environmental design work and NEPA for I-5 to OR-99W Connector and acquire ROW.	\$100,500,000	\$122,273,617	2008-2017	Throughway
10871	ODOT	ODOT	Port of Portland	Marine Dr. extension (Backage road), from I-84 EB off-ramp to 257th Dr.	I-84 EB off ramp	257th Dr.	Marine Drive extension (Backage road), from I-84 EB off-ramp to 257th Drive.	\$8,200,000	\$9,976,554	2008-2017	Throughway

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10872	ODOT	ODOT		Add lane: SB I-205 to SB I-5 interchange ramp and extend acceleration lane and add auxiliary lane on SB I-5 to Stafford Road.	I-205	Stafford Road	Add lane to SB I-205 to SB I-5 interchange ramp and extend acceleration lane and add auxiliary lane on SB I-5 to Stafford Road.	\$9,700,000	\$11,801,533	2008-2017	Throughway
10873	ODOT	ODOT		US 26W: Widen highway to 6 lanes	185th Ave.	Cornelius Pass Road	Widen highway to 6 lanes.	\$36,119,034	\$43,944,328	2008-2017	Throughway
10874	ODOT	ODOT		I-5: Construct new roadway between Columbia Blvd and Denver Ave near Argyle Street; replace Denver Viaduct; Relocate/reconstruct and signalize Denver/Schmeer Rd intersection	Victory	Lombard	Construct new roadway between Columbia Blvd and Denver Ave near Argyle Street; replace Denver Viaduct; Relocate/reconstruct and signalize Denver/Schmeer Rd intersection.	\$46,000,000	\$55,966,034	2008-2017	Throughway
10875	ODOT	ODOT	Washington County	OR 217: Braid OR 217 ramps between Beaverton-Hillsdale Hwy. and Allen Blvd. in both directions.	Beaverton-Hillsdale Hwy.	Allen Blvd.	Braid OR 217 ramps between Beaverton-Hillsdale Highway and Allen Boulevard in both directions.	\$79,600,000	\$96,845,571	2008-2017	Throughway
10876	ODOT	ODOT		I-84: Extend Halsey exit lane to I-205 NB exit	Halsey exit	I-205 NB exit	I-84 Lane Extension: Halsey to I-205 NB ramp.	\$6,446,790	\$7,843,506	2008-2017	Throughway
10890	ODOT	ODOT	Clackamas County	Sunrise Project: Acquire right-of-way: I-205 to SE 172nd Ave	I-205	122nd Ave.	Acquire right-of-way: I-205 to SE 172nd Ave.	\$129,000,000	\$156,948,224	2008-2017	Throughway
10894	ODOT	ODOT	Clackamas County	Sunrise Hwy. PE: I-205 to SE 172nd Ave	I-205	SE 172nd Ave	Preliminary engineering and EIS from I-205 to 172nd.	\$25,000,000	\$30,416,323	2008-2017	Throughway
10899	TriMet		Portland and Western RR / Washington County	Washington County Commuter Rail spare DMUs	N/A	N/A	1 powered and 2 trailer DMUs for spares and service reliability.	\$9,000,000	\$10,949,876	2008-2017	
10901	TriMet			MAX light rail: South Corridor Ph 2: Portland to Milwaukie	N/A	N/A	Portland, N Macadam, OMSI, Brooklyn, Milwaukie, (Park Ave.).	\$816,500,000	\$993,397,095	2008-2017	
10912	TriMet		City of Lake Oswego	Streetcar Extension: Portland to Lake Oswego via Willamette Shore	N/A	N/A	Portland to Lake Oswego extension of Portland Streetcar.	\$250,000,000	\$304,163,226	2008-2017	
10916	TriMet			Bus Rapid Transit: SE McLoughlin to Oregon City and CCC	N/A	N/A	Milwaukie, Gladstone, Oregon City, CCC (possible predecessor to LRT).	\$8,500,000	\$10,341,550	2008-2017	
10921	TriMet			MAX LRT on Steel Bridge: Capacity and operations improvements	N/A	N/A	Possible additional tracks, bridge rehabilitation, seismic upgrade.	\$50,000,000	\$60,832,645	2008-2017	
10926	TriMet			Transit dispatch center upgrade	N/A	N/A	To accommodate increasing operating complexities.	\$7,600,000	\$9,246,562	2008-2017	
10929	TriMet			Frequent Bus: Line 76 - Beaverton / Tualatin	N/A	N/A	390 additional service hours upgrade and related bus stop and ROW improvements.	\$3,075,000	\$3,741,208	2008-2017	
10930	TriMet			Frequent Bus: Line 31 - Milwaukie to Clackamas Regional Center	N/A	N/A	240 additional service hours upgrade and related bus stop and ROW improvements.	\$1,100,000	\$1,338,318	2008-2017	
10933	TriMet			Frequent Bus: Line 9 - Powell Blvd. to I-205	N/A	N/A	80 additional service hours for span of service and related bus stop and ROW improvements.	\$1,600,000	\$1,946,645	2008-2017	
10934	TriMet			Frequent Bus: Line 4 - Division to Gresham TC	N/A	N/A	50 additional service hours for span of service and related bus stop and ROW improvements.	\$3,375,000	\$4,106,204	2008-2017	
10935	TriMet			Frequent Bus: Line 8 - Jackson Park	N/A	N/A	25 additional service hours for span of service and related bus stop and ROW improvements.	\$1,200,000	\$1,459,983	2008-2017	
10936	TriMet			Frequent Bus: Line 15 - Belmont	N/A	N/A	75 additional service hours for span of service and related bus stop and ROW improvements.	\$2,600,000	\$3,163,298	2008-2017	
10979	City of Portland		TriMet	Burnside/Couch Streetcar, East & West [NW 23rd to E 14th]	NW 23rd	E 14th	Construct streetcar from NW 23rd Avenue to E 14th Avenue.	\$118,500,000	\$144,173,369	2008-2017	
10981	TriMet			Regional Bus: North Macadam / Line 35 realignment	N/A	N/A	Shift of Line 35 through this fast-growing area.	tdb	tdb	2008-2017	
10984	TriMet			Reconfiguration of Millikan Way Park & Ride	N/A	N/A	Reconfigure lot in response to lease expiration.	\$2,000,000	\$2,433,306	2008-2017	
10993	TriMet		City of Milwaukie	Milwaukie bus layover facility	N/A	N/A	Modification to Milwaukie Park & Ride.	\$627,000	\$762,841	2008-2017	
10995	TriMet			Rose Quarter Bike Improvements	N/A	N/A	Modify Rose Quarter to accommodate through bike traffic.	\$250,000	\$304,163	2008-2017	

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10997	TriMet			Willow Creek Transit Center	N/A	N/A	Reconstruct TC portion of MAX/bus facility for TOD opportunity (PCC).	tbd	tbd	2008-2017	
11032	TriMet			Ruby Junction light rail operating base expansion	N/A	N/A	Stub yard expansion on west side of Eleven-Mile Ave. Cost is included as part of the Milwaukie light rail project cost estimate.	tbd	tbd	2008-2017	
11035	TriMet			Powell bus operating base expansion	N/A	N/A	Good deadhead site, land already available, shop annex and parking.	\$11,637,609	\$14,158,931	2008-2017	
11036	TriMet			Merlo fuel / service house replacement	N/A	N/A	Over due replacement, creates new entrance.	\$6,411,300	\$7,800,327	2008-2017	
11038	TriMet			Center Street bus operating base expansion	N/A	N/A	Phase 1 to include parking structure.	\$10,386,000	\$12,636,157	2008-2017	
11044	Metro			Regional Trail Master Plans	N/A	N/A	Develop trail master plans, working with local jurisdictions, trail advocate organizations, local residents, property owners, railroad companies, and businesses, for the following locations: Hillsboro to Council Creek & Gales Creek Trail, North Portland Greenway Trail: Steel Bridge to ST John's Bridge, East Buttes Loop Trail Master Plan: Gresham and Happy Valley to Damascus; Springwater Corridor to Clackamas Bluffs and Greenway, Gateway to the Columbia Gorge Trail: Gresham/Fairview to Troutdale to Columbia Gorge Trail Connections, Portland South Waterfront to Lake Oswego to West Linn Trail, Columbia Slough Trail, Regional Trails Strategy and Master Plan for the Portland Metro Area (including relationship of regional trails to on-street bikeways and local trail system).	\$1,100,000	\$1,338,318	2008-2017	
11071	ODOT	ODOT		I-5/Wilsonville Road Interchange: Phase 1	Hubbard cut-off	Wilsonville Road	Reconstruct NB and SB on ramps, and NB off ramp. Add NB auxiliary lane from Hubbard cut-off to Wilsonville Rd.	\$18,500,000	\$22,508,079	2008-2017	
11074	Gresham		Portland	East Buttes Loop Trail: From Springwater Trail to Rodlun Road	Springwater Trail	Rodlun Road	Construct new shared use trail (12' wide pervious asphalt)	\$8,300,000	\$10,098,219	2008-2017	Outer neighborhood/Park
11081	Lake Oswego			Boones Ferry Rd bike lanes	Country Club	North City Limits	Bike lanes	\$5,710,000	\$6,947,088	2008-2017	2040 corridor
11082	Lake Oswego			Carman Dr. sidewalks & bike lanes	Meadows Rd	I-5	bike lanes	\$760,000	\$924,656	2008-2017	Neighborhood
11083	Lake Oswego			Iron Mountain	10th St.	Bryant Rd.	bike lanes	\$3,900,000	\$4,744,946	2008-2017	Neighborhood
11084	Lake Oswego			Pikington Rd bike lanes/sidewalk	Boones Ferry Rd	Childs Rd	park & ride relocation	\$1,510,000	\$1,837,146	2008-2017	Neighborhood
11085	Lake Oswego			Kerr Parkway bike lanes	Stephenson	Boones Ferry Rd	bike lanes	\$1,560,000	\$1,897,979	2008-2017	Neighborhood
11087	Lake Oswego			Bryant Rd bike lanes/pathway	Childs Rd	Boones Ferry Rd		\$610,000	\$742,158	2008-2017	Neighborhood
11089	Washington Co.	Washington Co.		92nd Ave. Ped.	Garden Home Blvd.	Allen Blvd.	Completes 3800 feet of sidewalk improvements to transit corridor	\$3,922,000	\$4,771,713	2008-2017	Neighborhood
11090	Washington Co.	Washington Co.		10th Ave/Cornell Bike	Baseline Rd.	25th Ave.	Completes 5400 feet of bike lanes in transit corridor	\$7,911,000	\$9,624,941	2008-2017	2040 corridor
11091	Portland/Port of Portland	Portland/Port of Portland		Columbia Blvd./I-205 Interchange: SB On-Ramp Improvement			Expand the on-ramp to three lanes, including for truck/HOV	\$750,000	\$912,490	2008-2017	
11092	Port of Portland			Ramsey Rail Yard	Bonneville Yard	BNSF Ford Facility	Construct up to six yard tracks and one lead track	\$13,900,000	\$16,911,475	2008-2017	
11093	Washington Co.	Washington Co.		Flashing Yellow Arrow Program (ITS)	Various locations in urban Washington Co.		Install flashing yellow arrow signal phase at more than 200 intersections	\$1,326,000	\$1,613,282	2008-2017	2040 corridor
11094	Cornelius			Baseline Boulevard Improvement	10th	19th	Build sidewalks & other pedestrian amenities	\$3,600,000	\$4,379,950	2008-2017	Main street
11095	Cornelius			11th-17th Avenue	Baseline	Adair	Ped improvement of Main Street Dist local streets	\$3,400,000	\$4,136,620	2008-2017	
11100	Gresham		Portland	East Buttes Loop Trail: From Rodlun Road to 190th	Rodlun	190th	Construct new shared use trail (12' wide pervious asphalt)	\$2,800,000	\$3,406,628	2008-2017	Outer neighborhood/Park
11102	City of Portland		TriMet	Burnside/Couch Streetcar Extension to Hollywood via Sandy Blvd	E 14th	Hollywood District	Extend streetcar from E 14th Avenue to the Hollywood District.	\$70,000,000	\$85,165,703	2008-2017	
11105	SMART			Current Fixed Route and Dial-A-Ride Services			Continuation of 5 fixed routes with scheduled service and dial-a-ride service for seniors and people with disabilities	\$228,700,000	\$278,248,519	2008-2017	Other
11106	SMART			Extension of transit service to connect with regional commuter rail			Expansion of transit service to coordinate and connect with the commuter rail service.	\$33,750,000	\$41,062,035	2008-2017	Intermodal facility
11107	SMART			Extension of transit service from Wilsonville to downtown Portland			Provide an intercity transit connection between Wilsonville and Portland.	\$19,100,000	\$23,238,070	2008-2017	Other
11108	SMART			Extension of transit service within Wilsonville			Extend transit service to connect newly-developed residential areas with other areas of Wilsonville and with multi-modal connections.	\$24,550,000	\$29,868,829	2008-2017	Neighborhood
11110	SMART			Wilsonville Commuter Rail Station Park & Ride Improvements			Provide paved parking spaces at the Wilsonville commuter rail station.	\$4,500,000	\$5,474,938	2008-2017	Intermodal facility
11111	SMART			Wilsonville SMART Offices			Design and construct SMART offices near the Wilsonville commuter rail station	\$2,000,000	\$2,433,306	2008-2017	Other

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11112	SMART			Wilsonville SMART Fleet Services Facility			Design and construct a transit fleet services facility near the Wilsonville commuter rail station	\$8,000,000	\$9,733,223	2008-2017	Other
11114	Portland			Foster & Woodstock, SE (87th - 101st): Streetscape	SE 87th	SE 101st	Implement Lents Town Center Business District Plan with new traffic signals, pedestrian amenities, wider sidewalks, pedestrian crossings, street lighting, increased on-street parking.	\$2,151,724	\$2,617,901	2008-2017	Town Center, Main Street or Station Community
11115	TriMet			Merlo ATP Administration Building	N/A	N/A	Replaces lease space in CWS offices.	\$1,048,537	\$1,275,706	2008-2017	
11118	Washington County			185th Ave. to Kinnaman Improvements	TV Hwy.	Kinnaman Rd.	Widen to 3 lanes with bike lanes and sidewalks.	\$5,820,000	\$7,080,920	2008-2017	2040 Corridor
11119	Washington County			Murray Blvd. to Cornell Improvement	Hwy. 26	Cornell Rd.	Widen to 5 lanes with bike lanes and sidewalks.	\$4,770,000	\$5,803,434	2008-2017	Town Center, Main Street or Station Community
11120	Washington County			Bethany Blvd. to Bronson Improvements	West Union Rd.	Bronson Rd.	Widen to 5 lanes with bike lanes and sidewalks.	\$14,328,000	\$17,432,203	2008-2017	2040 Corridor
11121	ODOT	ODOT		I-5 Delta Park Phase 1	Victory	Lombard	Widen I-5 to 3 lanes and realign ramps.	\$73,079,000	\$88,911,777	2008-2017	Throughway
11122	ODOT	ODOT		OR 217: Sunset Hwy to TV Hwy	US 26	OR 8	Widen OR 217 and structures.	\$37,676,000	\$45,838,615	2008-2017	Throughway
11123	ODOT	ODOT		I-5 North Macadam	I-5 MP 298.93	I-5 MP 298.93	Construct flyover at I-5 NB off-ramp to North Macadam/South Waterfront area.	\$28,416,000	\$34,572,409	2008-2017	Throughway
11124	ODOT	ODOT		US 26W Cornell to 185th	Cornell Rd	185th Ave.	Widen US 26 to 6 lanes from Cornell Rd. to 185th Ave.	\$21,312,000	\$25,929,307	2008-2017	Throughway
11125	ODOT	ODOT	Gresham	US 26E Springwater at grade intersection	N/A	N/A	Construct at-grade intersection connecting Springwater area to US 26.	\$6,700,000	\$8,151,574	2008-2017	Throughway
11126	Milwaukie	Milwaukie		Milwaukie Town Center: Main/Harrison/21st	SE Scott and SE Main	SE Jackson and SE Main	Improvements include renovated block faces, two travel lanes, bike lanes, 15 foot sidewalks, planter strips, lighting, benches and ADA-compliant sidewalks.	\$501,505	\$610,158	2008-2017	Town Center
10990	TriMet			Park & Ride management strategy implementation	N/A	N/A	Convert major park & ride lots for shared use and/or pay lots.	\$0	\$0	2008-2035	
10998	TriMet			Bus replacements	N/A	N/A	40 buses.	\$355,200,000	\$640,904,515	2008-2035	
10999	TriMet			Bus purchases for congestion	N/A	N/A	40 buses.	\$0	\$0	2008-2035	
11015	TriMet			Bus purchases for expansion	N/A	N/A	Allocate to individual routes, above.	\$0	\$0	2008-2035	
11016	TriMet			LIFT vehicle replacement	N/A	N/A	36 buses.	\$145,350,000	\$262,262,025	2008-2035	
11054	Metro			Regional Travel Options Program	Employment Areas, 2040 Centers, new corridor projects and congested corridors	Employment Areas, 2040 Centers, new corridor projects and congested corridors	RTO is the region's tool to manage congestion and reduce air pollution. RTO implements transportation demand management strategies such as employer outreach to encourage employers to subsidize and provide end-of-trip facilities to help employees choose options other than driving alone. RTO supports Transportation Management Associations and other public/private partnerships that reduce VMT. RTO also addresses non-commute trips through individualized marketing; helping residents try new travel options from some or all of their trips. As the region's population and economy grows, the RTO program will gain efficiencies moving people and goods on built-out transportation infrastructure.	\$74,250,000	\$133,972,861	2008-2035	Employment area
11103	Metro			Regional Planning				\$67,500,000	\$121,793,510	2008-2035	
11104	Metro			Regional ITS/TSMO				\$40,500,000	\$73,076,106	2008-2035	
11109	SMART			Bus Replacements			Purchase buses to replace those that are no longer safe or reliable.	\$13,100,000	\$23,636,963	2008-2035	Other
10216	Portland			Smart Trips Portland, a city-wide individualized marketing strategy			Smart Trips Portland is a comprehensive approach to reduce drive-alone trips and increase biking, walking and public transit in targeted geographic areas or key transportation corridors of the city. It incorporates the innovative and highly effective "individualized marketing" methodology, which hand delivers packets of information to residents who wish to learn more about transportation options. Key components feature biking and walking maps and organized activities which get people out in their neighborhoods or places of employment to shop, work, and discover how many trips they can easily, conveniently, and safely make without using a car. Success is tracked by evaluating qualitative and quantitative results from surveys and other performance measures.	\$4,450,000	\$5,414,105	2008-2017	other
10931	TriMet			Frequent Bus: Line 31 - Clackamas Regional Center to 152nd	N/A	N/A	125 additional service hours upgrade and related bus stop and ROW improvements.	\$1,100,000	\$1,904,844	2018-2025	
10937	TriMet			Frequent Bus: Line 54 - Beaverton Hillsdale Hwy. to Beaverton TC	N/A	N/A	225 additional service hours for FS extension and related bus stop and ROW improvements.	\$2,450,000	\$4,242,607	2018-2025	

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## 2035 Regional Transportation Plan Project List

Metro Project ID	Nominating Agency	Facility Owner / Operator	Other Sponsors	Project/Program Name	Project Start Location (Identify starting point of project)	Project End Location (Identify terminus of project)	Description	Estimated Cost (\$2007)	Estimated Cost (YOE \$)	Time Period	2040 Land Use
10938	TriMet			Frequent Bus: Line 33 - McLoughlin to Clackamas Community College	N/A	N/A	260 additional service hours for FS extension and related bus stop and ROW improvements.	\$875,000	\$1,515,217	2018-2025	
10939	TriMet			Frequent Bus: Line 33 - McLoughlin to Oregon City	N/A	N/A	1601 additional service hours for span of service and related bus stop and ROW improvements.	\$1,675,000	\$2,900,558	2018-2025	
10940	TriMet			Frequent Bus: Line 35 - Macadam Ave. to Oregon City	N/A	N/A	605 additional service hours upgrade and related bus stop and ROW improvements.	\$3,600,000	\$6,234,035	2018-2025	
10941	TriMet			Frequent Bus: Line 12 - Barbur to Durham Road	N/A	N/A	60 additional service hours for span of service and related bus stop and ROW improvements.	\$3,500,000	\$6,060,868	2018-2025	
10942	TriMet			Frequent Bus: Line 12 - Sandy to Parkrose TC	N/A	N/A	40 additional service hours for span of service and related bus stop and ROW improvements.	\$4,175,000	\$7,229,749	2018-2025	
10943	TriMet			Frequent Bus: Line 12 - Barbur from Durham to Sherwood	N/A	N/A	140 additional service hours for FS extension and related bus stop and ROW improvements.	\$1,050,000	\$1,818,260	2018-2025	
10944	TriMet			Frequent Bus: Line 79 - Clackamas Town Center to Oregon City via Webster Road	N/A	N/A	305 additional service hours for upgrade of service and related bus stop and ROW improvements.	\$2,825,000	\$4,891,986	2018-2025	
10945	TriMet			Frequent Bus: Line 87 - 181st/182nd Ave., NE Sandy to SE Powell Blvds	N/A	N/A	380 additional service hours for upgrade of service and related bus stop and ROW improvements.	\$2,025,000	\$3,506,645	2018-2025	
10002	Clackamas Co.	Clackamas Co.		Johnson Creek Blvd. Improvements	45th Ave.	82nd Ave.	Widen from three to five lanes and widen bridge over Johnson Creek.	\$40,790,000	\$70,635,082	2018-2025	Industrial area
10005	Clackamas Co.	Clackamas Co.		West Monterey Extension	82nd Ave.	Fuller Rd.	New two-lane extension.	\$6,200,000	\$10,736,394	2018-2025	Regional center
10007	Clackamas Co.	Clackamas Co.		Causey Ave. Overcrossing	over I-205	Bob Schumacher Rd.	Extend new three-lane crossing over I-205.	\$14,800,000	\$25,628,811	2018-2025	Regional center
10029	Clackamas Co.	Clackamas Co.		Stafford Rd Improvements	I-205	Rosemont Rd.	Widen to three lanes including bike lanes and sidewalks.	\$46,300,000	\$80,176,620	2018-2025	Other
10038	Clackamas Co.	Clackamas Co.	Damascus	242nd	Multnomah County line	Hwy. 212	Reconstruct 242nd and widen to three/five lanes. The Damascus/Boring Concept Plan identifies 242nd as a community bus transit classification.	\$53,340,000	\$92,367,622	2018-2025	Town center
10040	Happy Valley	Clackamas Co.	Clackamas Co.	162nd Ave. Extension North	Hagen Rd.	Clatsop St.	Construct a new 3 lane roadway with traffic signals.	\$27,970,000	\$48,434,990	2018-2025	Neighborhood
10041	Happy Valley	Clackamas Co.	Clackamas Co.	162nd Ave. Extension South	157th Ave.	Hwy. 212	Construct a new 3 lane roadway with traffic signals, bridge over Rock Creek.	\$22,610,000	\$39,153,204	2018-2025	Employment area
10048	Clackamas Co.	Clackamas Co.	Oregon City	Holly Lane	Redland Rd.	Maple Lane	Turn lanes, bike lanes, sidewalks, intersection improvements, bridge replacement.	\$20,740,000	\$35,914,970	2018-2025	Other
10074	Damascus			New Connection	Parkway Interchange Near 190th Ave.	Arterial #3	Rock Creek junction interchange to 172nd Ave through Rock Creek industrial area.	\$19,800,000	\$34,287,194	2018-2025	Industrial area
10076	Damascus	Damascus		SE Sunnyside Rd East Extension	SE 172nd Ave.	SE 242nd Ave.	Extend Sunnyside Road east from 172nd Ave to 242nd Ave. Evaluate alignment options between Bohna Park Road and Tillstrom Road for the connection from Foster Road to 242nd Ave.	\$101,500,000	\$175,765,159	2018-2025	Town center
10078	Damascus	ODOT		Hwy. 224	Sunrise End	Carver Bridge	Widen Highway 224 to four lanes with turn pockets at intersections to Carver bridge. The Damascus/Boring Concept Plan identifies Highway 224 as a community bus transit classification.	\$12,150,000	\$21,039,869	2018-2025	Industrial area
10083	Happy Valley		Clackamas Co.	Clatsop St. Extension West	132nd Ave.	Mt. Scott Blvd	Construct a new 3 lane roadway with traffic signals.	\$17,190,000	\$29,767,518	2018-2025	Neighborhood
10088	Lake Oswego			Lower Boones Ferry Rd.	Madrona Street	Kruse Way	Widen to include bike lanes and turn lanes.	\$20,720,000	\$35,880,336	2018-2025	Town center
10096	Milwaukie	Milwaukie		37th Ave. Bike/Ped Improvement	Hwy. 224	Harrison St.	Construct sidewalks and bike lanes. Key connection between Highway 224 and Harrison Street (Arterial).	\$2,800,000	\$4,848,694	2018-2025	Town center
10103	Milwaukie	Milwaukie		King Rd. Blvd. Project	42nd Ave.	Linwood Ave.	Construct boulevard, including new sidewalks, bus stop shelters, planter strips, medians, pedestrian scale lighting.	\$14,300,000	\$24,762,973	2018-2025	Town center
10118	Oregon City	ODOT		McLoughlin Blvd. Improvements Phase 3	Railroad Tunnel	10th St.	Complete boulevard design improvements and viaduct improvements.	\$14,300,000	\$24,762,973	2018-2025	Regional center
10124	Oregon City	Oregon City		Molalla Ave. Streetscape Improvements Phase 3	Holmes	Warner Milne	Streetscape improvements including widening sidewalks, sidewalk infill, ADA accessibility, bike lanes, reconfigure travel lanes, add bus stop amenities.	\$700,000	\$1,212,174	2018-2025	Regional center
10126	Oregon City	Oregon City		Swan Extension	Swan	UGB	Through lanes, sidewalks, bike lanes, turn lanes to serve UGB expansion area.	\$41,000,000	\$70,998,734	2018-2025	Regional center
10129	West Linn		Lake Oswego	Willamette River Greenway Trail	Willamette Park	Lake Oswego - Willamette River trail	Paved trail running parallel to the Willamette River from Willamette Park at the mouth of the Tualatin River eventually to the Lake Oswego City Limits facilitating connection to the Willamette River Trail with neighboring cities as part of the Metro Region.	\$2,000,000	\$3,463,353	2018-2025	Town center
10138	Damascus	Damascus		Hwy 212 widening to 5 lane boulevard	Sunrise Unit 1 Terminus	East City Limits	Widen Highway 212 to a 5 lane boulevard section through Damascus.	\$58,500,000	\$101,303,072	2018-2025	Town center
10147	Oregon City	Oregon City		Newell Creek Canyon Trail (East)	Hwy 213 and Redland Rd.	Beavercreek Rd.	Regional trail would follow the Oregon City-Molalla interurban railroad bench on the east side of Newell Creek Canyon.	\$3,000,000	\$5,195,029	2018-2025	Neighborhood
10161	Portland			5th/6th, NW/SW (Irving - Jefferson): Portland Transit Mall Restoration and reconstruction for Light Rail Transit	Irving	Jefferson	Extend mall and reconfigure to accommodate light rail tracks and stations. Repairs to Transit Mall including sidewalk brick work, reconstruction, curbs, gutters, and other pedestrian improvements.	\$0		2018-2025	Portland Central City

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10173	Portland/ODOT			Macadam, SW (Bancroft - Sellwood Br): ITS	SW Bancroft	Sellwood Bridge	Install needed ITS infrastructure (communication network, new traffic controllers, CCTV cameras, and vehicle /pedestrian detectors). These ITS devices allow us to provide more efficient and safe operation of our traffic signal system.	\$401,794	\$695,777	2018-2025	Portland Central City
10176	Portland			PSL - Eastside Extension	NW Lovejoy/10th	NE 7th/ Oregon.	Construct streetcar from NW Lovejoy/10th to NE 7th / Oregon.	\$147,000,000	\$254,556,438	2018-2025	Portland Central City
10177	Portland			PSL - OMSI to Riverplace or South Waterfront (close loop)	NE Oregon	SE Water	Construct streetcar from NE Oregon to SE Water.	\$19,000,000	\$32,901,853	2018-2025	Portland Central City
10196	Portland			Cully Blvd. Green St.	NE Prescott St.	NE Killingsworth	The project will plan, design and rebuild NE Cully Boulevard between NE Prescott Street and NE Killingsworth Street. Project planning and preliminary engineering will analyze alternatives for the roadway with public input and involvement.	\$5,255,633	\$9,101,056	2018-2025	
10197	Portland			Russell St. Improvements, N	N Williams	N Interstate	Construct improvements to Russell (Williams - Interstate), Albina & Mississippi (Russell - Interstate) to enhance ped connections from Eliot neighborhood and Lower Albina dist to the LRT station. Improve the N Williams at N Stanton intersection.	\$3,300,000	\$5,714,532	2018-2025	Town Center, Main Street or Station Community
10198	Portland			122nd, NE/SE (NE Airport Way to SE Powell Blvd): ITS	Airport Way	SE Powell Blvd	Install needed ITS infrastructure (communication network, new traffic controllers, CCTV cameras, and vehicle /pedestrian detectors). These ITS devices allow us to provide more efficient and safe operation of our traffic signal system.	\$515,703	\$893,031	2018-2025	
10203	Portland			Glisan St, NE (122nd - City Limits): Multi-modal Improvements	NE 122nd	City Limits	Infill missing sidewalk, add curb ramps at corner, add 3 median island crossings, and add a signal.	\$3,100,241	\$5,368,614	2018-2025	
10219	ODOT/ Portland			Argyle on the Hill, N Columbia to N Denver Ave.	Columbia Blvd	N Denver	New N Argyle street connection, west of I-5.	\$11,773,032	\$20,387,082	2018-2025	
10220	Portland			Seventies Greenstreet and Bikeway, NE	NE Killingsworth Ave.	Clatsop St.	Develop a combined pedestrian greenway and bike boulevard including crossing improvements at arterials, streetlighting, and public art from Killingsworth to Clatsop. Develop a combined pedestrian greenway and bike boulevard including crossing improvements at arterials.	\$4,120,727	\$7,135,766	2018-2025	
10371	Port of Portland			Airport Way Braided Ramps			Construct braided ramps between the I-205 interchange and Mt. Hood Interchange.	\$59,000,000	\$102,168,910	2018-2025	Industrial area
10379	Port of Portland			Marine Dr. Improvement Phase 2			Construct rail overcrossing on Marine Dr.	\$13,644,200	\$23,627,340	2018-2025	Industrial area
10389	Multnomah Co.	Multnomah Co.	Fairview	Reconstruct 223rd Ave.	Sandy Blvd	Marine Dr.	Improve 223rd Ave to major collector standards including 2 travel lanes, center turn lane/median, sidewalks, bicycle lanes. Possible culvert replacement for fish passage could add \$120,000 to cost. Requires replacement of RR bridge not included in this proposal.	\$2,267,000	\$3,925,711	2018-2025	Industrial area
10394	Multnomah Co.	Multnomah Co.	Fairview	Replace RR Over-crossing on 223rd Ave.	2000' north of I-84		Reconstruct railroad bridge on 223rd Ave, 2000' north of I-84 to accommodate wider travel lanes, sidewalks and bike lanes.	\$7,000,000	\$12,121,735	2018-2025	Industrial area
10399	Multnomah Co.	Multnomah Co.	Wood Village	Reconstruct Sandy Blvd.	207th Ave.	238th Ave.	Reconstruct Sandy Blvd to arterial standards with bike lanes, sidewalks and drainage improvements, utilizing recommendations from TGM grant.	\$7,438,000	\$12,880,209	2018-2025	Industrial area
10401	Multnomah Co.	Multnomah Co.	Troutdale	Reconstruct Marine Dr.	Interlachen	I-84	Reconstruct Marine Drive between Intelachen and the frontage roads in Troutdale.	\$14,000,000	\$24,243,470	2018-2025	Industrial area
10402	Multnomah Co.	Multnomah Co.	Wood Village	Construct new road north of I-84, Exit 16	Sandy Blvd	Marine Dr.	Construct new connector between Sandy Blvd. and Marine Dr, linking industrial sites with I-84	\$14,500,000	\$25,109,308	2018-2025	Industrial area
10405	Multnomah Co.	Multnomah Co.	Fairview	Pedestrian Improvements	Various streets		Install pedestrian improvements--crossings, lighting, sidewalks.	\$1,940,000	\$3,359,452	2018-2025	Neighborhood
10406	Multnomah Co.	Multnomah Co.	Troutdale	Reconstruct Stark St. to arterial standards	Troutdale Rd.	Hampton Rd.	Reconstruct road to arterial standards with 1 travel lanes in each direction, center turn lane/median, sidewalks and bicycle lanes.	\$1,810,000	\$3,134,334	2018-2025	Neighborhood
10408	Multnomah Co.	Multnomah Co.	Troutdale	40 mile loop trail	Marine Dr.	Historic Columbia River Hwy	Constructs new multi-use trail adjacent to Columbia and Sandy Rivers.	\$3,500,000	\$6,060,868	2018-2025	Other
10409	Multnomah Co.	Multnomah Co.	Troutdale	Beaver Creek Trail	Mt. Hood Comm. Coll.	Historic Columbia River Hwy	Constructs new trail adjacent to Beaver Creek.	\$1,400,000	\$2,424,347	2018-2025	Other
10420	Gresham	Gresham		Palmquist Rd. Improvements	242nd Ave.	US 26	Improves to five lane collector standards, intersection improvements.	\$7,784,844	\$13,480,831	2018-2025	Employment area
10424	Gresham	Gresham		Wallula St. Reconstruction, + intersections	Division	Stark	Widen road, add curb/gutter, sidewalks. At Burnside, add northbound, southbound, left turn lanes. Signalize Stark.	\$8,347,988	\$14,456,014	2018-2025	Regional center
10425	Gresham	Gresham		Bull Run Rd.. Reconstruction	242nd Ave.	257th Ave.	Brings to standards, adds pedestrian, bicycle facilities.	\$4,466,312	\$7,734,207	2018-2025	Employment area
10427	Gresham	Gresham		Regner Rd. Reconstruction	Roberts	City Limits	Brings to standards, adds pedestrian, bicycle facilities, improves Regner/Butler intersection by adding NB left-turn pocket and signalizing intersection.	\$29,265,570	\$50,678,498	2018-2025	Neighborhood
10430	Gresham	Gresham	Multnomah Co.	Orient Dr. Imps.	South City Limits	257th Ave.	Upgrades to arterial 4 lane standards.	\$9,000,000	\$15,585,088	2018-2025	Industrial area
10437	Gresham	Gresham		Gresham/Fairview Trail	Halsey	Marine Dr.	Springwater trail connect. incl. Trailhead @ Marine Dr.	\$4,608,799	\$7,980,949	2018-2025	Town center
10438	Gresham	Gresham		Springwater Trail Connections	Pl. View/190th	N/A	Provide ped, bike and equestrian access to regional trail.	\$271,562	\$470,258	2018-2025	Town center

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10443	Gresham	Gresham	Portland	Sandy Blvd. Widening	165th	202nd	Widens street to 5 lanes w. sidewalks, bikelanes.	\$26,040,578	\$45,093,856	2018-2025	Industrial area
10445	Gresham	Gresham		181st Ave. Intersection Improvement (181st/Glisan)	181st/Glisan	"	Improve Intersection.	\$1,041,867	\$1,804,177	2018-2025	2040 corridor
10446	Gresham	Gresham		181st Ave. Intersection Improvement (181st/Burnside)	181st/Burnside		Improve Intersection.	\$831,210	\$1,439,387	2018-2025	2040 corridor
10447	Gresham	Gresham		162nd Ave. Imps. Plus TIF project	Glisan	Halsey	Reconstruct, widen to 5 lanes, plus EB RT at Glisan.	\$7,915,303	\$13,706,744	2018-2025	Other
10453	Gresham	Gresham		Stark St. Improvements	190th	197th	Complete boulevard design improvements.	\$6,774,280	\$11,730,861	2018-2025	Town center
10455	Gresham	Gresham		Rockwood TC Ped and Ped to Max:188th LRT Stations and Ped to Max			Improve sidewalks, lighting, crossings, bus shelters, benches.	\$8,919,615	\$15,445,887	2018-2025	Town center
10459	Gresham	Gresham		Burnside SC Pedestrian Imps.	172nd, 197th, Glisan, Stark & intersecting streets		Improve sidewalks, lighting, crossings, bus shelters, benches.	\$1,192,669	\$2,065,317	2018-2025	Regional center
10464	Gresham	Gresham	Multnomah Co.	Giese Rd. Extension	182nd	172nd	New ext. of Giese Rd. to Foster Road.	\$17,987,232	\$31,148,066	2018-2025	Town center
10465	Gresham	Gresham	Multnomah Co.	172nd Ave. Improvements	Giese Rd.	Foster Rd.	Upgrade street to urban standards w. sidewalks, bikelanes.	\$11,520,364	\$19,949,543	2018-2025	Town center
10466	Gresham	Gresham	Multnomah Co.	172nd Ave. Improvements	Butler Rd.	Cheldelin Rd.	Upgrade street to urban standards w. sidewalks, bikelanes, and add roundabout or traffic signal at 172nd/Foster.	\$7,112,978	\$12,317,376	2018-2025	Town center
10468	Gresham	Gresham	Multnomah Co.	Giese Rd. Improvements	182nd Ave.	190th Ave.	Upgrade street to urban standards w. sidewalks, bikelanes.	\$5,430,469	\$9,403,815	2018-2025	Town center
10469	Gresham	Gresham	Multnomah Co.	Foster Rd. Bridge	Foster Rd.		Construct bridge crossing.	\$2,642,220	\$4,575,470	2018-2025	2040 corridor
10470	Gresham	Gresham	Multnomah Co.	Giese Rd. Extension Bridge	Giese Rd.		Construct bridge crossing.	\$2,642,220	\$4,575,470	2018-2025	Town center
10493	Gresham	Gresham		181st Ave. Sandy to I-84	Sandy	I-84	Add southbound aux lane & widen RR overcrossing.	\$827,659	\$1,433,238	2018-2025	Industrial area
10496	Gresham	Gresham		181st at I-84	181st/I-84		Freight mobility improvements subject to refinement study.	\$250,000	\$432,919	2018-2025	2040 corridor
10501	Gresham	Gresham		Barnes Rd.: Powell Valley to City Limits: only Orient to So. City Limits	Powell Valley	Orient Dr.	Widen road and add improvements.	\$7,135,229	\$12,355,908	2018-2025	Neighborhood
10511	Gresham	Gresham		Hogan Rd. at Stark St.	Stark		Add right turn lanes on all approaches and second northbound and southbound left turns.	\$1,908,431	\$3,304,785	2018-2025	2040 corridor
10512	Gresham	Gresham		Hogan: Powell to Burnside boulevard improvements plus three intersection improvements	Powell	Burnside	Improve to boulevard standards, and intersection improvements at Burnside, Division and Powell.	\$8,739,328	\$15,133,688	2018-2025	Regional center
10518	Gresham	Gresham		Wilkes St., 181st to 192nd	181st	192nd	Improve Wilkes to collector standards and provide slip ramp connection from Eastbound I-84 on ramp.	\$6,781,698	\$11,743,707	2018-2025	Industrial area
10521	Gresham	Gresham		Signalize intersections			Signalize intersections.	\$768,590	\$1,330,949	2018-2025	Other
10527	Gresham	Gresham		Hogan, Powell Blvd to Palmquist	Powell	Palmquist	Improve to arterial standards.	\$8,444,619	\$14,623,348	2018-2025	Industrial area
10530	Gresham	Gresham		Towle Ave. Butler Rd. to Binford Lake	Butler Rd.	Binford Lake Parkway	Improve to collector standards. Add roundabout at Towle/Binford.	\$11,897,840	\$20,603,209	2018-2025	Neighborhood
10545	Washington Co.		ODOT	OR 10: Oleson Rd. Improvement	Oleson Rd. south of OR10	Oleson Rd. at Scholls Ferry	Realign Oleson Rd. 500 feet to east and reconfigure Oleson intersections with OR10 and Scholls Ferry Rd.	\$30,888,000	\$53,488,022	2018-2025	Town center
10546	Washington Co.	Washington Co.		170th Ave. Improvements	Alexander St.	Merlo Rd.	Widen roadway to 4 lanes with left turn lanes at major intersections and bike lanes and sidewalks.	\$28,093,000	\$48,647,986	2018-2025	Neighborhood
10547	Washington Co.	Washington Co.		173rd/174th Under Crossing Improvement	Cornell Rd.	Bronson Rd.	Construct three-lane under crossing of Hwy. 26 with bike lanes and sidewalks.	\$58,641,000	\$101,547,239	2018-2025	Town center
10554	Washington Co.	Washington Co.		Bethany Blvd. Improvements	Kaiser Rd.	West Union Rd.	Widen to 5 lanes with bikelanes and sidewalks.	\$22,046,000	\$38,176,539	2018-2025	Town center
10558	Washington Co.	Washington Co.		Cornell Rd. Improvements	113th Ave.	107th Ave.	Widen from two to three lanes with bike lanes and sidewalks.	\$9,941,000	\$17,214,596	2018-2025	Neighborhood
10559	Washington Co.	Washington Co.		Cornell to Murray Improvements	Murray Blvd.	Hwy. 26	Widen Cornell from three to five lanes with bike lanes and sidewalks.	\$40,620,000	\$70,340,697	2018-2025	Town center
10561	Washington Co.	Washington Co.		Jenkins Rd. Improvements	Murray Blvd.	158th Ave.	Widen roadway from three to five lanes with bike lanes and sidewalks.	\$15,530,000	\$26,892,935	2018-2025	Station community
10563	Washington Co.	Washington Co.		Kaiser/143rd Ave. Improvements	Bethany Blvd.	Cornell Rd.	Widen from two to three lanes with bike lanes and sidewalks.	\$38,357,000	\$66,421,914	2018-2025	Neighborhood
10568	Washington Co.	Washington Co.		Tualatin-Sherwood Rd. Improvements	Hwy. 99W	Teton Ave.	Widen from three to five lanes with bike lanes and sidewalks.	\$49,150,000	\$85,111,897	2018-2025	Industrial area
10569	Washington Co.	Washington Co.		Walker Rd. Improvements	185th Ave.	Stucki Ave.	Widen from two to five lanes with bike lanes and sidewalks.	\$14,776,000	\$25,587,251	2018-2025	Station community
10570	Washington Co.	Washington Co.		Walker to Hwy. 217 Improvements	185th Ave.	Hwy. 217	Widen from two to five lanes with bike lanes and sidewalks.	\$89,612,000	\$155,178,990	2018-2025	Station community
10572	Washington Co.	Washington Co.		Barnes Rd. Improvements	St. Vincent's Hosp. entrance	Leahy Rd.	Widen from two to five lanes with bike lanes and sidewalks.	\$8,933,000	\$15,469,066	2018-2025	Station community
10578	Washington Co.	Washington Co.		Merlo/158th Improvements	170th Ave.	Walker Rd.	Widen roadway to five lanes with bike lanes and sidewalks.	\$24,735,000	\$42,833,017	2018-2025	Station community
10590	Washington Co.	Washington Co.		Tonquin Rd. Improvements	Grahams Ferry Rd.	Oregon St.	Realign and widen to three lanes with bike lanes and sidewalks.	\$28,406,000	\$49,190,001	2018-2025	Other
10596	Washington Co.			Scholls Ferry Rd. Improvements	Hwy. 217	121st Ave.	Widen to seven lanes with bike lanes and sidewalks.	\$19,749,000	\$34,198,878	2018-2025	2040 corridor
10601	Washington Co.	ODOT	ODOT	Hwy. 26/Bethany Interchange Improvements	Cornell Rd.	Bronson Rd.	Rebuild overpass to accommodate additional northbound thru-lane.	\$8,720,000	\$15,100,219	2018-2025	Employment area

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10620	Beaverton	Beaverton		Millikan Way multimodal extension from Watson Ave. to 114th Ave.	Watson Ave.	114th Ave.	Extend 2 lane Millikan Way to 114th to fill a gap; add turn lanes at intersections, sidewalks, bikeway.	\$13,800,000	\$23,897,135	2018-2025	Regional center
10621	Beaverton	Beaverton		New street connection from Broadway to 115th Ave.	Broadway	115th Ave.	Construct new 2 lane street with bikeway and sidewalks.	\$4,500,000	\$7,792,544	2018-2025	Regional center
10622	Beaverton	Beaverton		Electric to Whitney to Carousel to 144th multimodal street connections	Electric	144th Ave.	Connect existing streets and improve to standard with bikeways and sidewalks.	\$7,200,000	\$12,468,070	2018-2025	Station community
10624	Beaverton	Beaverton		120th Ave.: new 2 lane multimodal street	Center St.	Canyon Rd.	Construct new multimodal street with bikeways and sidewalks; turn lanes and signals as needed.	\$8,900,000	\$15,411,920	2018-2025	Regional center
10627	Beaverton	Beaverton		Tualaway 2 lane multimodal street extension	Electric	Millikan	Extend existing street to Millikan with bikeways and sidewalks.	\$3,900,000	\$6,753,538	2018-2025	Station community
10633	Beaverton	Beaverton		Allen Blvd. safety, bicycle and pedestrian improvements	Highway 217	Western Ave.	Widen street to 4/5 lanes adding turn lanes and signals where needed, construct bike lanes and sidewalks.	\$6,300,000	\$10,909,562	2018-2025	Industrial area
10634	Beaverton	Beaverton		Cedar Hills Blvd. safety, bicycle and pedestrian improvements	Farmington Rd.	Walker Rd.	Add turn lanes, bike lanes and sidewalks.	\$19,000,000	\$32,901,853	2018-2025	2040 corridor
10636	Beaverton	Beaverton		Millikan Way safety, bike and pedestrian improvements	141st Ave.	Hocken Ave.	Add turn lanes as needed, bike lanes and sidewalks, signalize as warranted.	\$2,600,000	\$4,502,359	2018-2025	Station community
10639	Beaverton	Beaverton		Weir Rd. safety, bicycle and pedestrian improvements	155th Ave.	175th Ave.	Add turn lanes, bikelanes and sidewalks in gaps, turn lanes.	\$4,100,000	\$7,099,873	2018-2025	Neighborhood
10640	Beaverton	Beaverton		Nimbus Ave. 2 lane multimodal street extension from Hall Blvd. to Denney Road	Hall Blvd.	Denney Rd.	Extend 2 lane street with turn lanes, bikelanes and sidewalks.	\$15,400,000	\$26,667,817	2018-2025	Regional center
10642	Beaverton	Beaverton		Adaptive Traffic Signal Systems	Adaptive Traffic Signal Systems	Allen Blvd., Cedar Hills Blvd., Hall Blvd., Farmington Road	New signals and signal upgrades.	\$10,000,000	\$17,316,764	2018-2025	
10644	Beaverton	Washington County		110th Ave. sidewalk gaps	Beaverton Hillsdale Hwy	Canyon Rd	Construct sidewalks.	\$1,400,000	\$2,424,347	2018-2025	Regional center
10649	Beaverton	Beaverton		Allen Blvd sidewalks	Western Ave.	Arctic Dr.	Construct sidewalks.	\$200,000	\$346,335	2018-2025	Industrial area
10650	Beaverton	Beaverton		Western Ave. sidewalks	5th Street	800 ft s/o 5th Street	Construct sidewalks.	\$600,000	\$1,039,006	2018-2025	Industrial area
10651	Beaverton	Beaverton		Allen Blvd. sidewalks	King Blvd.	Western Ave.	Construct sidewalks.	\$3,100,000	\$5,368,197	2018-2025	Industrial area
10653	Beaverton	Beaverton		Sexton Mountain Drive multimodal street extension from 155th Ave. to Sexton Mtn. across the Powerline	155th Ave.	Sexton Mountain Drive	Extend 2 lane street with bikelanes and sidewalks	\$2,500,000	\$4,329,191	2018-2025	Neighborhood
10654	Beaverton	Beaverton		Nora Road sidewalks and bike lanes	175th Ave.	155th Ave.	Construct sidewalks and bike lanes.	\$2,000,000	\$3,463,353	2018-2025	
10656	Beaverton	Beaverton		Jamieson Rd. sidewalks	Pinehurst/Cypress	Woodlands Dr.	Construct sidewalks.	\$400,000	\$692,671	2018-2025	
10663	Beaverton	Beaverton		Hall Blvd. bike lanes & turn lanes to Cedar Hills	Farmington Road	Cedar Hills Blvd.	Construct bike lanes and turn lanes.	\$5,200,000	\$9,004,718	2018-2025	
10664	Beaverton	Beaverton		Watson Ave. bike lanes	Hall Blvd.	Cedar Hills Blvd.	Construct bike lanes.	\$4,500,000	\$7,792,544	2018-2025	
10665	Beaverton	Beaverton		6th Ave. bikelanes	Murray Blvd.	Erickson Ave.	Construct bike lanes.	\$3,600,000	\$6,234,035	2018-2025	
10666	Beaverton	Beaverton		Greenway Dr. bike lanes	Hall Blvd.	125th Ave.	Construct bike lanes.	\$3,700,000	\$6,407,203	2018-2025	
10667	Beaverton	Beaverton		155th Ave. bike lanes	Davis Rd.	Weir Rd.	Construct bike lanes in gaps.	\$5,400,000	\$9,351,053	2018-2025	
10668	Beaverton	Beaverton		Farmington Rd Bike lane retrofit	Hwy 217	Hocken Ave.	Construct bike lanes.	\$12,600,000	\$21,819,123	2018-2025	
10669	Beaverton	Beaverton		Hall Blvd. bike lanes & turn lanes	12th St.	s/o Allen Blvd.	Construct bike lanes and turn lanes.	\$5,200,000	\$9,004,718	2018-2025	
10670	Beaverton	Beaverton		Denney Rd. bike lanes	Hall Blvd.	Scholls Ferry Rd.	Construct bike lanes.	\$6,100,000	\$10,563,226	2018-2025	
10671	Beaverton	Beaverton		Allen Blvd. bike lanes	200' e/o Western	Scholls Ferry Rd.	Construct bike lanes.	\$4,300,000	\$7,446,209	2018-2025	
10672	Beaverton	Beaverton		Western Ave. bike lanes	Beaverton Hillsdale Hwy	Allen Blvd.	Construct bike lanes.	\$5,000,000	\$8,658,382	2018-2025	
10674	Sherwood	Sherwood		Oregon-Tonquin Intersection & Street Improvements	Oregon St.	at Tonquin	Intersection improvements (consider roundabout) on Oregon at Tonquin Road; sidewalks and bike access through the intersection.	\$1,945,000	\$3,368,111	2018-2025	Industrial area
10677	Sherwood	Sherwood		Adams Ave Phase 2	T-S Rd.	99W	Construct 3 lane road, landscaping and multi-use path.	\$8,580,000	\$14,857,784	2018-2025	Employment area
10680	Sherwood	Sherwood		Elwert Rd & 99W Intersection Improvements	99W	Kruger Rd	Intersection safety improvements.	\$2,700,000	\$4,675,526	2018-2025	Employment area
10681	Sherwood		Washington Co.	Elwert Rd	99W	Edy Rd	Upgrade road to arterial standards.	\$11,430,000	\$19,793,062	2018-2025	Employment area
10682	Sherwood	Sherwood		Brookman Rd	99W	Ladd Hill Rd	Reconstruct road to collector standards.	\$20,510,000	\$35,516,684	2018-2025	Neighborhood
10691	Sherwood		Washington Co.	Edy Rd/Sherwood Blvd	Borcher Dr	3rd St.	Reconstruct road to arterial standards; add sidewalks.	\$7,740,000	\$13,403,176	2018-2025	2040 corridor
10695	Sherwood	Sherwood		Meinecke	99W	1st	Add bike lanes.	\$1,150,000	\$1,991,428	2018-2025	Main street
10701	Sherwood	Sherwood		Regional Trail System / West fork of Tonquin Trail	Middle fork of Tonquin Trail	Wildlife Refuge	Construct regional trail to connect SE City limits with trail system north of City limits.	\$2,465,000	\$4,268,582	2018-2025	Other

# DRAFT 2035 Regional Transportation Plan Project List

Metro Project ID	Nominating Agency	Facility Owner / Operator	Other Sponsors	Project/Program Name	Project Start Location (Identify starting point of project)	Project End Location (Identify terminus of project)	Description	Estimated Cost (\$2007)	Estimated Cost (YOE \$)	Time Period	2040 Land Use
10703	Sherwood	Sherwood		Pedestrian Links to Schools & Town Center			Pedestrian upgrades, new sidewalks, sidewalk infill at: Sunset, Division, Edy, Elwert, Meinecke, Pine, Roy, Ladd Hill, Timbrel, Washington, Willamette, Old Pacific Hwy.	\$6,983,000	\$12,092,297	2018-2025	Neighborhood
10735	Tualatin	Tualatin		Herman	108th	Teton	Widen to 5 lanes from 108th to Teton.	\$1,250,000	\$2,164,596	2018-2025	Main street
10744	Tualatin	Tualatin		Tualatin River Pathway				\$8,600,000	\$14,892,417	2018-2025	Other
10745	Tualatin	Tualatin		Pedestrian Trail	65th	Martinazzi	Pedestrian trail from 65th to Martinazzi.	\$1,600,000	\$2,770,682	2018-2025	Other
10746	Tigard			Washington Square Connectivity Improvements	Washington Square local street connections	Washington Square local street connections	Increase local street connections at Washington Square Center based on recommendations in regional center plan.	\$6,912,000	\$11,969,348	2018-2025	Regional center
10747	Tigard			Hwy. 217 Overcrossing - Cascade Plaza	Nimbus	Locust	Provide a new connection from Nimbus to Washington Square south of Scholls Ferry Road.	\$5,166,000	\$8,945,841	2018-2025	Regional center
10749	Tigard			Washington Square Regional Center Pedestrian Improvements	Various	Various	Improve sidewalks, lighting, crossings, bus shelters, and benches at Washington Square.	\$5,720,000	\$9,905,189	2018-2025	Regional center
10750	Tigard			Greenburg Road Improvements	Tiedeman Ave.	Hwy. 99W	Widen to 5 lanes.	\$15,017,000	\$26,004,585	2018-2025	Town center
10751	Tigard	ODOT		Hwy. 217 Overcrossing	Hunziker Road	72nd Ave.	Realign Hunziker Road to meet Hampton Street at 72nd Ave. and removes existing 72nd/Hunziker Road intersection.	\$9,635,000	\$16,684,703	2018-2025	Employment area
10760	Tigard	Tigard		Tigard Town Center Pedestrian Improvements	Tigard Town Center	Throughout TC area	Improve Sidewalks, lighting, crossings, bus shelters and benches throughout the Town Center including: Highway 99W, Hall Blvd, Main Street, Hunziker, Walnut and neighborhood streets.	\$4,882,000	\$8,454,044	2018-2025	Town center
10762	Tigard		Washington Co.	Nimbus Ave. Extension	Nimbus Ave.	Greenburg Road	2 lane extension with sidewalks and bike lanes.	\$4,680,000	\$8,104,246	2018-2025	Regional center
10764	Tigard	Tigard		Durham Road Improvements	Hall Blvd.	99W	Widen to 5 lanes with bikeways and sidewalks.	\$30,515,000	\$52,842,107	2018-2025	2040 corridor
10788	Cornelius	Cornelius		10th Ave	TV Hwy	Golf Course Rd	Improve to urban standard w/in City (sidewalks & bike lanes); widen rural road with shoulder bike lane, reconstruct Council Creek Bridge.	\$700,000	\$1,212,174	2018-2025	Main street
10795	Cornelius	Cornelius		Holladay St Extension	4th	Yew	Construct new collector.	\$2,500,000	\$4,329,191	2018-2025	Main street
10797	Cornelius	Cornelius		Holladay St Extension	Gray	19th	Construct new collector.	\$1,300,000	\$2,251,179	2018-2025	Main street
10798	Cornelius	Cornelius		Davis St. Extension	4th Ave	10th Ave	Construct new collector.	\$2,500,000	\$4,329,191	2018-2025	Main street
10799	Cornelius	Cornelius		Davis St. Extension	19th Ave	29th Ave	Construct new collector.	\$4,500,000	\$7,792,544	2018-2025	Main street
10807	Cornelius	Cornelius		HCT Park & Ride	26th Ave	N/A	Build station area and park & ride facilities.	\$850,000	\$1,471,925	2018-2025	Main street
10808	Cornelius	Cornelius		HCT Park & Ride	10th Ave	N/A	Build station area and park & ride facilities.	\$850,000	\$1,471,925	2018-2025	Main street
10809	THPRD	THPRD		Bronson Creek Community Trail	Bronson Creek Park Cornell Rd. (THPRD)	Laidlaw Rd.	To design and construct a community trail segment in a greenway corridor, 8'-10' wide paved.	\$3,500,000	\$6,060,868	2018-2025	Other
10811	THPRD	THPRD		Beaverton Creek Trail (Regional)	SW 194th Ave.	Fanno Creek Trail	To design and construct a regional trail multi-use segment in a utility corridor, 10'-12' wide paved.	\$7,000,000	\$12,121,735	2018-2025	Other
10818	Hillsboro	Hillsboro		231st Ave./Century Blvd	Baseline	Lois	Bridge and 3 lanes with bike lanes and sidewalks.	\$26,248,000	\$45,453,043	2018-2025	
10823	Hillsboro	Hillsboro		Amberwood	206th	Cornelius Pass	Improve to 3 lane with bike lanes and sidewalks.	\$2,312,000	\$4,003,636	2018-2025	Town center
10824	Hillsboro	Hillsboro		Cornell Rd	Arrington	Main Street	Improve to 5 lane with bike lanes and sidewalks.	\$9,248,000	\$16,014,544	2018-2025	Regional center
10828	Hillsboro	Hillsboro		Edgeway (Salix)	LRT	Walker Rd	Extend as 2/3 lane with bike/sidewalks.	\$6,664,000	\$11,539,892	2018-2025	Station community
10831	Hillsboro	Hillsboro		Century Blvd	Bennett	West Union Rd	Extend 2/3 lane with US 26 Overpass, connect existing segments.	\$12,920,000	\$22,373,260	2018-2025	Industrial area
10833	Hillsboro	Hillsboro		Grant Street Extension	28th	Brookwood	Extend 3 lane road with bike lanes/sidewalks.	\$12,240,000	\$21,195,720	2018-2025	Station community
10834	Hillsboro	Hillsboro		28th Ave.	Main	25th	Widen to 3 lanes with bike/sidewalks.	\$4,352,000	\$7,536,256	2018-2025	Main street
10835	Hillsboro	Hillsboro		185th Ave.	Cornell Rd	Walker Rd	Widen to 7 lanes.	\$4,896,000	\$8,478,288	2018-2025	Town center
10840	Hillsboro	Hillsboro		Regional Center Improvements	N/A	N/A	Miscellaneous Improvements to maintain capacity.	\$10,470,000	\$18,130,652	2018-2025	Regional center
10842	Hillsboro	Hillsboro		Other Collector Reconstruction	N/A	N/A	Miscellaneous locations.	\$35,000,000	\$60,608,676	2018-2025	Regional center
10843	Hillsboro	Hillsboro		Intersection Improvements	N/A	N/A	Miscellaneous locations.	\$25,000,000	\$43,291,911	2018-2025	Regional center
10847	Hillsboro	Hillsboro		Regional Center Ped Improvements	N/A	N/A	Infill missing pedestrian sidewalks.	\$4,550,000	\$7,879,128	2018-2025	Regional center
10848	Hillsboro	Hillsboro		Industrial/Town Center Ped Improvement	N/A	N/A	Infill missing pedestrian sidewalks.	\$1,300,000	\$2,251,179	2018-2025	2040 corridor
10849	Hillsboro	Hillsboro		Regional Center- Bike Improvement	N/A	N/A	Infill missing bike lane connections.	\$2,110,000	\$3,653,837	2018-2025	Regional center
10850	Hillsboro	Hillsboro		Beaver Ck Trail, Bronson Ck Trail,			Construct bike/ped trail.	\$1,000,000	\$1,731,676	2018-2025	2040 corridor
10851	Hillsboro	Hillsboro		Rock Ck Trail - Multi Use	River Road	Orchard Park (East of Cornelius Pass Rd)	Construct bike/ped trail.	\$5,520,000	\$9,558,854	2018-2025	2040 corridor
10856	Gresham			Richey/Foster Connection	Intersection Richey/Foster		Construct roundabout and related improvements to Foster.	\$656,452	\$1,136,762	2018-2025	Employment area
10857	Gresham	Gresham		Jenne/Foster	Intersection Jenne/Foster		Add second EB left turn lane. Requires widening of Jenne North.	\$540,780	\$936,456	2018-2025	Employment area
10858	Gresham	Gresham		174th/Powell	Intersection of 174th/Powell		Improve intersection to 5 lane section.	\$1,860,824	\$3,222,345	2018-2025	Employment area
10863	ODOT	ODOT	Port of Portland	Convert Marine Dr. one-way southbound to two-way under I-84 and widen to five lanes.	Troutdale interchange (exit 17)		Convert Marine Drive one-way southbound to two-way under I-84 and widen to five lanes.	\$20,400,000	\$35,326,200	2018-2025	Throughway

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## 2035 Regional Transportation Plan Project List

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10864	ODOT	ODOT	Gresham	New interchange on US 26 to serve industrial area.	US 26 and Callister Road	US 26 and 267th Ave.	New interchange on US 26 to serve industrial area.	\$29,500,000	\$51,084,455	2018-2025	Throughway
10884	ODOT	ODOT		I-5/I-84 Interchange: Acquire R-O-W	I-5 and I-84	I-5 and Greeley St.	Acquire right-of-way.	\$30,000,000	\$51,950,293	2018-2025	Throughway
11088	Oregon City	Clackamas Co.	Oregon City	Holly Lane	Redland Rd.	Holcomb Rd.		\$21,000,000	\$36,365,205	2018-2025	Other
11113	SMART			Transportation Management Association (TMA)			Form a transportation management association (TMA) to provide transportation services and information on alternatives to local employers and employees	\$200,000	\$346,335	2018-2025	Industrial area and Employment Area
10089	Lake Oswego			Lake Oswego Transit center	Lake Oswego downtown	Near street car	Move existing transit center closer to the street car for better connectivity.	\$7,790,000	\$13,489,760	2018-2025	Town center
10012	Clackamas Co.	Clackamas Co.		Fuller Rd. Improvements	Harmony Rd.	Monroe St.	Widen to three lanes to include disconnecting auto access to King Road.	\$5,300,000	\$13,062,992	2026-2035	Employment area
10014	Clackamas Co.	Clackamas Co.		82nd Ave. Multi-Modal Improvements	Clatsop Ave.	Monterey Ave.	Widen to add sidewalks, lighting, central median, planting strips and landscaping.	\$13,600,000	\$33,520,131	2026-2035	Regional center
10022	Clackamas Co.	Clackamas Co.		SE 82nd Dr. Improvements	Hwy 212	Lawnfield Rd.	Widen to five lanes to accommodate truck movement.	\$12,350,000	\$30,439,237	2026-2035	Industrial area
10075	Damascus	Damascus		Royer Rd. Connection	Royer Rd. North Segment End	Royer Rd. South Segment	Construct a roadway connection between the northern and southern sections of Royer Road.	\$5,980,000	\$14,738,999	2026-2035	Neighborhood
10077	Damascus	Damascus		222nd Ave.	Hwy. 212	Tillstrom Rd.	Widen 222nd Ave. from Highway 212 to Tillstrom Road to four lanes with turn pockets at intersections. All major arterials are to be designed with sidewalks, bike lanes, and a landscaped buffer between sidewalk and curb or on-street parking in town center.	\$30,370,000	\$74,853,411	2026-2035	Neighborhood
10079	Damascus	Damascus		Widen Tillstrom Rd.	Foster Rd.	242nd Ave.	Widen Tillstrom Rd to 4 lanes with turn pockets at intersections. Damascus/Boring Concept Plan identifies Tillstrom Rd as a transit street.	\$18,480,000	\$45,547,943	2026-2035	Town center
10082	Happy Valley		Clackamas Co.	Mt. Scott Blvd./King Rd. Improvements	Happy Valley City Limits	145th Ave.	Widen to three lanes.	\$20,820,000	\$51,315,378	2026-2035	Town center
10113	Milwaukie			River Rd. Sidewalks	99-E	City Limit	Construct sidewalks.	\$2,400,000	\$5,915,317	2026-2035	Town center
10166	Portland			NW Burnside at Skyline Rd.	Intersection NW Burnside/ Skyline Rd.		Intersection improvements.	\$1,850,716	\$4,561,488	2026-2035	Portland Central City
10181	Portland			Fifties Bikeway, NE/SE (Tillamook to Woodstock)	SE Woodstock	NE Tillamook	Curb extensions, median refuges, signal modifications, and striping changes to create a north-south bicycle boulevard, along various interconnected portions of 52nd-57th streets between NE Thompson and SE Woodstock Blvd.	\$1,595,049	\$3,931,342	2026-2035	
10199	Portland			SE 136th Ave. (Division to Powell) Bikeway	SE Division	SE Foster	From SE Division Street to SE Powell Boulevard: Improve to 36' curb-to-curb with 2-13' traffic lanes and 2-5' bike lanes; 6" curbs, 9' swales and 6' sidewalks on both sides.	\$6,090,590	\$15,011,572	2026-2035	
10221	Portland			Skyline, NW (Hwy 26 - City Limits): Shoulder Improvements	Hwy 26	City Limits	Widen existing 22' of pavement to 32', and add 2' shoulders adjacent to lanes.	\$8,088,812	\$19,936,621	2026-2035	
10222	Portland			Flavel Dr, SE	SE 45th	Clatsop	Fully improve street from SE 45th to Clatsop Street with travel lanes, curbs, swales, sidewalks, and some bike lanes.	\$7,294,088	\$17,977,852	2026-2035	
10223	Portland			122nd, SE (at Morrison): Pedestrian Overcrossing			Provide an at-grade improved pedestrian crossing on SE 122nd Ave..	\$1,993,000	\$4,912,178	2026-2035	
10224	Portland			Barbara Welch Rd., SE: Multimodal Improvements	SE Foster	City Limits	Widen existing 20' of pavement to new 34' roadway with travel lanes, bike lanes, curb and sidewalk.	\$20,191,557	\$49,766,444	2026-2035	
10225	Portland			Powellhurst/Gilbert Pedestrian Improvements to SE 122nd Ave.	SE Harold	SE Raymond	Add sidewalks to SE 122nd Ave. between SE Harold Street and SE Raymond Street.	\$1,473,288	\$3,631,236	2026-2035	
10226	Portland			Hamilton St., SW	SW Dosch Rd.	SW Scholls Ferry Rd.	Improve SW Hamilton Street between SW Dosch and Scholls Ferry Road.	\$12,420,360	\$30,612,654	2026-2035	
10227	Portland			Stephenson, SW (Boones Ferry - 35th): Multi-modal Improvements	SW Boones Ferry	SW 35th	Install bikeway, pedestrian facilities, and improve and signalize the intersection at SW Stephenson and SW Boones Ferry Road.	\$3,813,000	\$9,397,960	2026-2035	
10230	Portland			Twenties Bikeway, NE/SE (Lombard - Clinton)	NE Lombard	SE Clinton	Design & implement bikeway along SE 29th,30th/NE 26th/28th / NE Oregon, Wasco, from SE Clinton to NE Lombard using bike blvds. & bike lanes.	\$1,837,573	\$4,529,095	2026-2035	
10384	Multnomah Co.	Multnomah Co.		Reconstruct Scholls Ferry Rd.	US 26	Washington County	Widen roadway to add 4th lane for turns and uphill bicycle lanes and sidewalks.	\$3,500,000	\$8,626,504	2026-2035	Neighborhood
10390	Multnomah Co.	Multnomah Co.	Troutdale	Reconstruct Troutdale Rd.	Strebin Rd.	Cherry Park Rd.	Reconstruct to major collector standards with 2 travel lanes, center turn lane/median, sidewalks, bicycle lanes. Requires new fish culvert at Beaver Creek.	\$6,297,000	\$15,520,314	2026-2035	Neighborhood
10391	Multnomah Co.	Multnomah Co.	Troutdale	Reconstruct Historic Columbia River Hwy.	244th Ave.	Halsey St.	Reconstruct to minor arterial standards with 2 travel lanes, center turn lane/median, bicycle lanes and sidewalk. Reconstruction of railroad bridge is not included in this project.	\$6,151,000	\$15,160,465	2026-2035	Other
10395	Multnomah Co.	Multnomah Co.	Troutdale	Replace RR over crossing.	Half mile east of 244th Ave.		Reconstruct railroad bridge to accommodate wider travel lanes, sidewalks and bike lanes.	\$7,000,000	\$17,253,009	2026-2035	Employment area
10396	Multnomah Co.	Multnomah Co.		Reconstruct Cornelius Pass Rd.	Hwy. 30	Mile Post 3	Reconstruct Cornelius Pass Road including passing lane, safety, shoulder and drainage improvements.	\$37,000,000	\$91,194,475	2026-2035	Other

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**2035 Regional Transportation Plan Project List**

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10407	Multnomah Co.	Multnomah Co.	Fairview	Fish passage culvert replacement	Fairview and Arata Creeks		Replace 5 culverts with fish friendly structures allowing for passage to federally endangered species.	\$1,511,000	\$3,724,185	2026-2035	Other
10567	Washington Co.	Washington Co.		Taylor's Ferry Extension	Oleson Rd.	Washington Dr.	Construct new two lane extension with bike lanes and sidewalks	\$4,390,000	\$10,820,101	2026-2035	Neighborhood
10571	Washington Co.	Washington Co.		West Union Rd. Improvements	185th Ave.	143rd Ave.	Widen from two to three lanes with bike lanes and sidewalks.	\$34,870,000	\$85,944,631	2026-2035	Neighborhood
10574	Washington Co.	Washington Co.		Farmington to 198th Improvements	185th Ave.	198th Ave.	Widen from two to three lanes with bike lanes and sidewalks.	\$17,326,000	\$42,703,662	2026-2035	Neighborhood
10583	Washington Co.	Washington Co.		185th to Bany Rd. Improvements	Farmington Rd.	Bany Rd.	Widen to three lanes with bike lanes and sidewalks	\$7,706,000	\$18,993,098	2026-2035	Neighborhood
10632	Beaverton	Beaverton		Allen Blvd. safety, bicycle and pedestrian improvements	Highway 217	Murray Blvd.	Widen street adding turn lanes and signals where needed, construct bike lanes and sidewalks.	\$41,600,000	\$102,532,167	2026-2035	2040 corridor
10648	Beaverton	Beaverton		Denney Rd. sidewalks	Nimbus Rd.	Scholls Ferry Rd.	Construct sidewalks.	\$2,200,000	\$5,422,374	2026-2035	Industrial area
10693	Sherwood	Sherwood		Ladd Hill Rd.	Sunset Blvd	UGB	Upgrade street to arterial standards.	\$6,340,000	\$15,626,297	2026-2035	Other
10699	Sherwood	Sherwood		Oregon Street	Murdock	Railroad Crossing	Construct road to 3 lane collector standards.	\$6,712,000	\$16,543,171	2026-2035	Industrial area
10702	Sherwood	Sherwood		2040 Corridor Signal & Intersection Improvements	Borcher Dr	Century	Improve 3-leg intersection at Edy & Borchers; remove traffic signal at Baler; remove traffic signal at Langer; add traffic signal at Century.	\$2,812,000	\$6,930,780	2026-2035	2040 corridor
10720	Tualatin	Tualatin		Boones Ferry	Tualatin-Sherwood	Ibach	Widen to 5 lanes from Tualatin-Sherwood to Ibach.	\$16,500,000	\$40,667,806	2026-2035	Main street
10721	Tualatin	Tualatin		McEwan	65th	Lake Oswego	Widen to 3 lanes from 65th to Lake Oswego.	\$3,520,000	\$8,675,799	2026-2035	Employment area
10722	Tualatin	Tualatin		65th	Nyberg	Childs Rd	Extension across the Tualatin River from Nyberg to Childs Road.	\$15,000,000	\$36,970,733	2026-2035	Main street
10725	Tualatin	Tualatin		65th	Sagert	Nyberg	Widen to 5 lanes from Sagert to Nyberg.	\$19,000,000	\$46,829,595	2026-2035	Main street
10729	Tualatin	Tualatin		Loop Rd	Martinazzi	Boones Ferry	Construct street from Tualatin-Sherwood to Boones Ferry Rd to Martinazzi.	\$6,900,000	\$17,006,537	2026-2035	Main street
10738	Tualatin	Tualatin		Teton	Herman	Tualatin-Sherwood	Add bikelanes to Teton from Avery to Tualatin Rd.	\$3,800,000	\$9,365,919	2026-2035	Industrial area
10739	Tualatin	Tualatin		Nyberg	Tualatin-Sherwood	65th	Add bikelanes on Nyberg from I-5 to 65th.	\$7,000,000	\$17,253,009	2026-2035	Main street
10740	Tualatin	Tualatin		65th Ave.	Borland	Childs Rd	Add bikelanes on 65th Ave from Sagert to Nyberg. Construct a pedestrian bridge over the River from Tualatin to Childs Rd.	\$8,000,000	\$19,717,724	2026-2035	Employment area
10741	Tualatin	Tualatin		95th Ave.	Avery	Tualatin-Sherwood	Add bikelanes from Avery to Tualatin-Sherwood Rd.	\$2,400,000	\$5,915,317	2026-2035	Main street
10742	Tualatin	Tualatin		108th Ave.			Pedestrian bridge over Tualatin River and connecting paths.	\$2,000,000	\$4,929,431	2026-2035	Other
10836	Hillsboro	Hillsboro		Evergreen Rd	Glencoe Rd	25th	Widen to 5 lanes with bike lanes and sidewalks.	\$5,440,000	\$13,408,053	2026-2035	2040 corridor
10846	Hillsboro	ODOT		TV Hwy.	185th	Brookwood	Expand to 7 lanes with bike/sidewalks.	\$42,000,000	\$103,518,053	2026-2035	2040 corridor
10927	TriMet			MAX LRT: Operational upgrades	N/A	N/A	Sidings, powered turnouts, block and signal control infill.	\$18,862,000	\$34,033,618	2008-2035	
11042	TriMet			Bus priority treatment	N/A	N/A	Traffic signal priority treatments, jump lanes, etc.	\$5,000,000	\$9,021,741	2008-2035	
11043	TriMet			Pedestrian access improvements	N/A	N/A	Sidewalks, crosswalks and ADA improvements to transit access.	\$5,000,000	\$9,021,741	2008-2035	
10928	TriMet			New MAX LRT vehicles	N/A	N/A	See below.	\$49,000,000	\$88,413,067	2008-2035	
10766	Tigard		Metro	Regional Trail Gap Closure	multiple sections on Fanno, Wash Sq Loop, and Westside Trails	Multiple sections on Fanno, Wash Sq Loop, and Westside Trails	Infill gaps in regional trail network. Affected trails include Fanno Creek, Washington Square Loop and Westside Trails.	\$6,890,000	\$8,382,738		2040 corridor

THE SUNDAY OREGONIAN • JANUARY 13, 2008

**PUBLIC NOTICES**

CLASSIFICATION 8

Public Notices 8



2035 Regional Transportation Plan (RTP) and 2008-2011 Metropolitan Transportation Improvement Plan (MTIP) Air Quality Conformity Determination Notice

Metro has prepared an Air Quality Conformity Determination for the 2035 Regional Transportation Plan (RTP) and Metropolitan Transportation Improvement Plan (MTIP) as required by state and federal law. The document shows that the Metro area, including the 25 cities and the urban portions of 3 counties of the greater Portland region, will continue to meet federal and state air quality standards to the year 2035, even with the transportation improvements included in the 2035 Regional Transportation Plan (RTP), Federal Component, as implemented through the 2008-11 MTIP.

The document is available for public review and comment beginning at noon on Friday, January 18, 2008, and ending at noon on Tuesday, February 19, 2008. Copies of the document may be obtained from the planning office at 600 NE Grand Avenue, Portland, Oregon, or downloaded from Metro's web site: [www.metro-oregon.org/airquality](http://www.metro-oregon.org/airquality). You may also request a copy by phone at 503-797-1735.

The factors addressed in the Air Quality Conformity Determination are used to estimate future carbon monoxide emissions from cars and trucks operating within the greater Portland air shed to the year 2035. The estimated emissions must not exceed the "budget" established for mobile sources by plans approved for the region by the Oregon Environmental Quality Commission & the United States Environmental Protection Agency.

You may submit comments by mail to Metro Planning, 600 NE Grand Ave, Portland, OR 97232, or by email: [rip@metro.dst.or.us](mailto:rip@metro.dst.or.us). Comments must be received by noon on Tuesday, Feb. 19, 2008.

The Metro Council will hold a hearing on Thursday, February 20, 2008, in the Council chamber to deliberate on the air quality conformity document, consider public comments received during the comment period, and act on a resolution to adopt the federal component of the 2035 Regional Transportation Plan with the Air Quality Conformity Determination report.

**IMPORTANT INFORMATION**

Public Notices 8

PUBLIC NOTICE

**ATTENTION ALL FLEXSTAFF EMPLOYEES**

W-2 forms for 2007 will be available for pick up **TUESDAY, JANUARY 29, 2008**

FOR PORTLAND: 901 SE Oak Street, Suite 203.



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Public Notices 8

GRAND RONDE Tribal Housing Authority is seeking responses from qualified professionals meet the organizations requirements outlined in its Request for Proposals. The RFP is advertised the 1/15/08 issue of the Daily Journal of Commerce.

POLICE IMPOUNDED SEIZED VEHICLE AUCTION See ad in Classification #567

**INFORMATION & EDUCATION**

CLASSIFICATIONS 10-3

Lost and Found 10

IF YOUR PET IS LOST OR MISSING... Place a Lost Ad in our Classifieds and watch the "Found" ads daily.

Check your county Animal Control Impound facilities in person every other day.

Multnomah County: 503-983-7300  
Clackamas County: 503-655-8600  
Washington County: 503-846-7000

Dove Lewis Emergency Animal Hospital: 503-225-7282  
[www.dovelewis.org](http://www.dovelewis.org)  
Cat Adoption Team: 503-925-8800  
Animal Aid, Inc.: 503-272-6208  
[www.animalaidpdx.org](http://www.animalaidpdx.org)  
Oregon Humane Society: 503-285-7727  
Vancouver Humane Society: 360-693-4746

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Call The Oregonian 503-221-8000  
Oregon toll free 1-800-221-4488

**DOCUMENT 0001**  
**ADVERTISEMENT FOR BIDS**

**1.01 NOTICE TO BIDDERS**  
A. Sealed bids will be received by South Umpqua School District at the District office, 598 SW Chadwick Lane, Myrtle Creek, OR 97457, until 10:00 a.m. local time, Tuesday, February 5, 2008, for the general construction of the Coffenberry Gymnasium Building. The bids will then be publicly opened at 3:00 p.m. local time, Tuesday, February 5, 2008, and read aloud. Bids received after the time fixed for receiving bids will be returned, unopened.

**1.02 BIDDING DOCUMENTS**  
A. Briefly, the work for this project shall be executed under a single general construction contract including General, Civil, Mechanical, Electrical work for the Gymnasium Building; South Umpqua School District Public Schools.  
B. Bidding documents for the work are those prepared by the Engineer, Pinnacle Engineering, Inc., 3319 NE Stephens St, Roseburg, OR 97470 (541-440-4871). Bona fide General Bidders may obtain a maximum of two sets of the bid documents at the office of Engineer upon deposit of a check in the amount of \$100.00 per set, plus shipping costs, to include clerical time; return of deposit to be in accordance with the instructions to Bidders.  
C. Should a bidder wish additional sets or parts of sets, he may obtain them by paying the cost of the reproduction thereof, plus handling and mailing costs, with no refund for the additional sets or parts thereof.  
D. Bidding Documents will be available for examination during the bidding period at the School District Administration Office, Pinnacle Engineering, Inc. and in the following organization offices:  
City - Journal of Commerce Plan Center - Rocou Valley Builders

**APPENDIX C** – *Federal Register Notice of Proposed Approval of State Implementation Plan for Portland Oregon – Portland Carbon Monoxide Second 10-Year Maintenance Plan* (September 6, 2005)

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**ENVIRONMENTAL PROTECTION  
AGENCY****40 CFR Part 52**

[Docket ID #: R10-OAR-2005-OR-0001;  
FRL-7964-7]

**Approval and Promulgation of State  
Implementation Plans: Oregon;  
Portland Carbon Monoxide Second 10-  
Year Maintenance Plan**

**AGENCY:** Environmental Protection  
Agency (EPA).

**ACTION:** Proposed rule.

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**SUMMARY:** The EPA proposes to approve  
the second 10-year maintenance plan for  
carbon monoxide (CO) for the Portland,  
Oregon CO Attainment Area.  
Specifically, in this action EPA

proposes to approve the following: Oregon's demonstration that the Portland CO Attainment Area will maintain air quality standards for CO through the year 2017; a revised CO motor vehicle emissions budget for transportation conformity purposes using the MOBILE6.2 emissions model and latest growth and planning assumptions; and revised state implementation plan (SIP) control strategies and contingency measures.

**DATES:** Comments must be received on or before October 6, 2005.

**ADDRESSES:** Submit your comments, identified by Docket ID No. R10-OAR-2005-OR-0001, by one of the following methods:

1. Federal eRulemaking Portal: <http://www.regulations.gov>. Follow the on-line instructions for submitting comments.

2. Agency Web site: <http://www.epa.gov/edocket>. EDOCKET, EPA's electronic public docket and comment system, is EPA's preferred method for receiving comments. Follow the on-line instructions for submitting comments.

3. Mail: Environmental Protection Agency, Office of Air, Waste and Toxics, Attn: Connie Robinson, Mail code: AWT-107, 1200 Sixth Avenue, Seattle, WA 98101.

4. Hand Delivery: Environmental Protection Agency Region 10, Attn: Connie Robinson (AWT-107), 1200 Sixth Ave., Seattle, WA 98101, 9th floor. Such deliveries are only accepted during EPA's normal hours of operation, and special arrangements should be made for deliveries of boxed information.

**Instructions:** Direct your comments to Docket ID No. R10-OAR-2005-OR-0001. EPA's policy is that all comments received will be included in the public docket without change, including any personal information provided, unless the comment includes information claimed to be Confidential Business Information (CBI) or other information whose disclosure is restricted by statute. Do not submit information that you consider to be CBI or otherwise protected through [regulations.gov](http://www.regulations.gov) or e-mail. The EPA EDOCKET and the Federal [regulations.gov](http://www.regulations.gov) Web site are "anonymous access" systems, which means EPA will not know your identity or contact information unless you provide it in the body of your comment. If you send an e-mail comment directly to EPA without going through EDOCKET or [regulations.gov](http://www.regulations.gov), your e-mail address will be automatically captured and made available on the Internet. If you submit an electronic comment, EPA recommends that you

include your name and other contact information in the body of your comment and with any disk or CD-ROM you submit. If EPA cannot read your comment due to technical difficulties and cannot contact you for clarification, EPA may not be able to consider your comment. Electronic files should avoid the use of special characters, any form of encryption, and be free of any defects or viruses. For additional information about EPA's public docket visit EDOCKET on line or see the **Federal Register** of May 31, 2002 (67 FR 38102). For additional instructions on submitting comments, go to Section I. General Information of the **SUPPLEMENTARY INFORMATION** section of this document.

**Docket:** All documents in the docket are listed in the EDOCKET index at <http://www.epa.gov/edocket>. Although listed in the index, some information may not be publicly available, such as CBI or other information whose disclosure is restricted by statute. Certain other material, such as copyrighted material, is not placed on the Internet and will be publicly available only in hard copy form. Publicly available docket materials are available either electronically in EDOCKET or in hard copy at EPA Region 10, Office of Air, Waste, and Toxics, 1200 Sixth Avenue, Seattle, Washington, from 8 a.m. to 4:30 p.m. Monday through Friday, excluding legal holidays. Please contact the individual listed in the **FOR FURTHER INFORMATION CONTACT** section to schedule your inspection.

**FOR FURTHER INFORMATION CONTACT:** Connie Robinson, Environmental Protection Agency, Region 10, Office of Air, Waste, and Toxics, AWT-107, 1200 Sixth Ave., Seattle, WA 98101; phone: (206) 553-1086; fax number: (206) 553-0110; e-mail address: [robinson.connie@epa.gov](mailto:robinson.connie@epa.gov).

#### **SUPPLEMENTARY INFORMATION:**

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- I. General Information
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- III. What Is the Background for This Action?
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- V. How Have the Public and Stakeholders Been Involved in This Rulemaking Process?
- VI. What Are the Sources and Magnitude of CO Emitted in the Portland Maintenance Area?
- VII. How Does the State Demonstrate Maintenance of the CO Standard for the Second 10-Year Period?
- VIII. What Control Measures Are Being Proposed for This Second 10-Year Plan?

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- X. How Does this Action Affect Transportation Conformity?
- XI. In Conclusion, How Would This EPA Approval Affect the General Public and Citizens of the Portland Area?
- XII. Statutory and Executive Order Reviews

#### **I. General Information**

##### **A. What Should I Consider as I Prepare My Comments for EPA?**

1. **Submitting CBI.** Do not submit this information to EPA through RME, [regulations.gov](http://www.regulations.gov) or e-mail. Clearly mark the part or all of the information that you claim to be CBI. For CBI information in a disk or CD-ROM that you mail to EPA, mark the outside of the disk or CD-ROM as CBI and then identify electronically within the disk or CD-ROM the specific information that is claimed as CBI. In addition to one complete version of the comment that includes information claimed as CBI, a copy of the comment that does not contain the information claimed as CBI must be submitted for inclusion in the public docket. Information so marked will not be disclosed except in accordance with procedures set forth in 40 CFR part 2.

2. **Tips for Preparing Your Comments.** When submitting comments, remember to:

- i. Identify the rulemaking by docket number and other identifying information (subject heading, **Federal Register** date and page number).
- ii. Follow directions—The Agency may ask you to respond to specific questions or organize comments by referencing a CFR part or section number.
- iii. Explain why you agree or disagree; suggest alternatives and substitute language for your requested changes.
- iv. Describe any assumptions and provide any technical information and/or data that you used.
- v. If you estimate potential costs or burdens, explain how you arrived at your estimate in sufficient detail to allow for it to be reproduced.
- vi. Provide specific examples to illustrate your concerns, and suggest alternatives.
- vii. Explain your views as clearly as possible, avoiding the use of profanity or personal threats.
- viii. Make sure to submit your comments by the comment period deadline identified.

##### **II. What Is the Purpose of This Proposed Rulemaking?**

The purpose of this proposed rulemaking is to solicit comment on the

State of Oregon's plan to replace the existing CO maintenance plan for the Portland area in Oregon with a second 10-year maintenance plan to demonstrate continued maintenance of the CO ambient air quality standard through 2017.

The State of Oregon presented a trend analysis of the historical CO monitored data for the Portland area demonstrating that since the Portland area was redesignated to attainment, CO concentrations have fallen steadily. That trend reflects a national pattern of new vehicles producing considerably reduced amounts of CO.

Implementation of new national control measures including tighter standards for motor vehicle tailpipe emissions and cleaner fuel will result in significant improvements of air quality for the next 10-year period. EPA agrees with Oregon's analysis and proposes to approve the second 10-year maintenance plan through this rulemaking and notice in the **Federal Register**.

Federal transportation conformity regulations require that transportation agencies use the latest EPA mobile source emissions model for conformity determinations. EPA officially released a new version of motor vehicle emissions model (MOBILE6) on January 29, 2002. All SIPs that are adopted after that date must use the new model to estimate motor vehicle emissions. The release of MOBILE6 also began a 24-month grace period for conformity. All conformity determinations that are initiated after January 29, 2004 must use a MOBILE6 model. The Oregon Department of Environmental Quality (ODEQ) used MOBILE6.2 to estimate CO emissions for the Portland area for the next 10-year maintenance period through 2017 and conducted a technical analysis with MOBILE6.2 that showed new motor vehicle emissions will not cause or contribute to violations of the air quality standards. EPA agrees with this analysis and proposes to approve revised motor vehicle emissions budgets for conformity determinations.

The State of Oregon took this rulemaking opportunity to change several of the emission control strategies and contingency measures. EPA finds these changes acceptable and proposes to approve them in this rulemaking.

### III. What Is the Background for This Action?

In a March 15, 1991 letter to the EPA Region 10 Administrator, the Governor of Oregon recommended the Portland area be designated as nonattainment for CO as required by section 107(d)(1)(A) of the Clean Air Act (the "Act"). The area was designated by EPA as nonattainment for CO and classified as "moderate" with a design value less than or equal to 12.7 parts per million (ppm) under the provisions outlined in sections 186 and 187 of the Act.

The State of Oregon, following the requirements of the Act, prepared and submitted revisions to the Oregon SIP that first included an attainment plan, and then developed a plan to demonstrate maintenance of the standard for a 10-year period beyond the statutory attainment date. EPA published approval of a redesignation request to attainment and the first 10-year maintenance plan on September 2, 1997.

The first 10-year CO maintenance plan included a commitment for periodic review of the plan and submission of the second 10-year maintenance plan to EPA during the last two years of the first 10-year maintenance period. The planning effort included detailed technical analyses such as preparation of base and future year emissions inventories, review of control measures for CO, etc. The results of this planning effort provide the basis of today's proposed approval by EPA.

### IV. What Is the Status of Current CO Levels in the Portland Area and How Do They Compare With the Federal Standards?

The national 8-hour CO ambient standard is attained when the daily average 8-hour CO concentration of 9.0 ppm is exceeded no more than one time in a calendar year for two consecutive years. Since the redesignation of the Portland area to attainment for CO on October 2, 1997, the second highest concentration in a calendar year measured by the approved monitoring network was 7.3 ppm, which is less than 9.0 ppm.

### V. How Have the Public and Stakeholders Been Involved in This Rulemaking Process?

ODEQ met directly with a variety of stakeholder groups, including representative of the petroleum and ethanol industries, the Oregon Environmental Council and with other state agencies to seek input on the CO maintenance plan. Those state agencies included the Oregon Department of Energy, Agriculture, and Economic and Community Development. Notices were published in the newspaper and public hearings were conducted by ODEQ. ODEQ responded to all comments and the Environmental Quality Commission adopted the revisions to the SIP under OAR 340-200-0040 on December 10, 2004, effective December 25, 2004.

### VI. What Are the Sources and Magnitude of CO Emitted in the Portland Maintenance Area?

An emissions inventory was prepared for the Portland area for the base year of 1999. The year 1999 was selected for the inventory because that year reflected the highest ambient CO concentrations in Portland's recent history and therefore represented a conservative base for demonstrating future compliance with the CO NAAQS. The emissions inventory is a list, by source, of the air contaminants directly emitted into the Portland CO Area's air. The data in the emissions inventory is based on calculations and is developed using emission factors, which is a method for converting source activity levels into an estimate of emissions contributions for those sources. Because violations of the CO NAAQS are most likely to occur on winter weekdays, the inventory prepared reflects a "design day" with ambient temperatures, traffic volumes and other emission source activity levels of a typical winter weekday in 1999.

In addition to the base year 1999 inventory, emission forecasts were prepared for 2005, 2010 and 2017. These projected inventories were prepared in accordance with EPA guidance. The projections in Table 1 below show that total calculated CO emissions, are not expected to exceed the level of the 1999 base year inventory during the second 10-year maintenance plan period.

TABLE 1.—1999 BASE YEAR ACTUAL EMISSIONS AND \*2005, \*2010 AND \*2017 PROJECTED EMISSIONS  
[Pounds CO/winter day]

Emissions	1999	*2005	*2010	*2017
Point Source .....	106,590	67,401	71,085	76,241
Area Source .....	809,454	872,852	925,684	999,648

TABLE 1.—1999 BASE YEAR ACTUAL EMISSIONS AND \*2005, \*2010 AND \*2017 PROJECTED EMISSIONS—Continued  
[Pounds CO/winter day]

Emissions	1999	*2005	*2010	*2017
Non-Road Mobile .....	372,098	530,435	619,753	690,469
On-Road Mobile .....	1,525,114	1,226,323	975,074	834,301
Total .....	2,813,256	2,697,011	2,591,596	2,600,659

\* Without oxy fuel program and without enhanced Inspection and Maintenance (I/M) testing.

The large decrease in point source emissions between 1999 and 2005 is the result of permanent closure of a large aluminum company. The emissions inventory predicts substantial future reductions in CO emissions, largely as a result of a decrease in on-road emissions, which are expected to continue to decline as older motor vehicles are replaced by newer vehicles that meet Federal Tier II emission standards and operate on low sulfur fuels.

#### VII. How Does the State Demonstrate Maintenance of the CO Standard for the Second 10-Year Period?

The current, EPA-approved first 10-year CO maintenance plan used a rollforward approach to demonstrate maintenance of the CO standard. A review and update of this methodology to a probabilistic rollback approach using more recent monitored air quality and projected emissions data was conducted to demonstrate continued maintenance of the CO standard for a second 10-year period. The probabilistic analysis showed that the CO standard was maintained on all three permanent monitoring sites in 1999 with at least 99% probability. The probabilistic rollback approach demonstrated regional, long-term maintenance by demonstrating that maintenance at the monitoring site with the highest design value (82nd and Division) will be maintained for a second 10-year period with the same level of assurance.

#### VIII. What Control Measures Are Being Proposed for This Second 10-Year Plan?

The second 10-year plan changes the I/M program requirement for CO from the current Enhanced I/M program to a basic I/M program for CO. Moderate CO Attainment areas were only required to implement a basic I/M program. This is a change to the CO SIP only. The Ozone Maintenance Plan continues to require the Enhanced I/M Program. ODEQ will consider vehicles that meet the enhanced test requirement as also meeting the basic test requirement. If the Ozone Plan is changed to a basic I/

M program, it will already be approved for CO.

The Oxygenated Fuel Program remains a control measure in the Portland CO maintenance area until October 31, 2007 when it will be discontinued. It will then become a contingency measure in the second 10-year maintenance plan as required by 175A(d).

Best Available Control Technology (BACT) continues to be required. The plan also continues to offer an industrial Growth Allowance that may be used by new or expanding sources instead of securing emission offsets.

The Transportation Control Measures (TCMs) in this plan replace the TCMs specified in the first Portland Area CO Maintenance Plan. The emission reduction benefits of these TCMs are included in the emission projections on which the Portland Area CO Maintenance Plan is based. The revised TCMs are:

*Transit Service Increase:* Region transit service revenue hours (weighted by capacity) shall be increased 1.0% per year. The increase shall be assessed on the basis of a 5-year rolling average of actual hours for assessments conducted between 2006 and 2017.

*Bicycle Paths:* Jurisdictions and government agencies shall program a minimum of 28 miles of bikeways or trails within the Portland metropolitan area between the years 2006 through 2017.

*Pedestrian Paths:* Jurisdictions and government agencies shall program at least nine miles of pedestrian paths in mixed use centers between the years 2006 through 2017.

Oregon has a TCM substitution policy under which identified TCMs may be substituted in whole, or in part, with other TCMs providing equivalent emission reductions. See 62 FR 4621, September 2, 1997. Appendix D9-2 of the second 10-year maintenance plan identifies the requirements for TCM substitutions.

#### IX. What Contingency Measures Are Considered, in Case of the Monitored Exceedance or Violation of the Federal Standard?

The maintenance plan is to contain contingency measures to ensure that the State will promptly correct any violation of the standard that occurs during the maintenance period. The contingency measures in the second 10-year maintenance plan for the Portland area are based on risk of violation and actual violation.

If monitored CO levels at any monitoring site register a second high concentration equaling or exceeding 8.1 ppm during a calendar year, ODEQ will form a planning group to evaluate the implementation of additional emission strategies. Additional strategies to be considered include, but are not limited to: Increased parking pricing in the Central City, increased funding for transit, value pricing on major roadways that increase vehicle travel capacity, a trip reduction program, modified regional parking ratios, and accelerated implementation of bicycle and pedestrian networks.

If the Portland area violates the NAAQS for CO, the following contingency measures will automatically be implemented. New Source Review requirements will be changed. The requirement to install Best Available Control Technology will be replaced with Lowest Achievable Emissions Rate technology. The downtown parking lid will be reinstated if the violation occurs in the downtown area formerly subject to the parking lid requirement. If the violation occurs in 2007 or later, the Oxygenated Fuel Program will be reinstated.

#### X. How Does This Action Affect Transportation Conformity?

Under Section 176(c) of the Act, transportation plans, programs, and projects in nonattainment or maintenance areas that are funded or approved under the Federal Transit Act, must conform to the applicable SIP. In short, a transportation plan is deemed to conform to the applicable SIP if the emissions resulting from

implementation of that transportation plan are less than or equal to the motor vehicle emission level established in the SIP for the maintenance year and other analysis years.

In this maintenance plan, procedures for estimating motor vehicle emissions are well documented. The regional

motor vehicle emissions calculated by MOBILE6.2 were used in the probabilistic rollback method to compute a threshold level of regional emissions inventory that would provide maintenance of the CO standard with 99% certainty and confidence through the second 10-year maintenance period.

The computed attainment threshold of regional motor vehicle emissions can be used to assess the long term attainment prospects. The total on-road motor vehicle CO emissions in the Portland area for 2005, 2010 and 2017 are shown in Table 2.

TABLE 2.—PORTLAND MAINTENANCE AREA CO MOTOR VEHICLE EMISSIONS BUDGETS  
[Pounds per winter day]

Year	2005	2010	2017
Budget .....	1,238,575	1,033,578	1,181,341

For the purpose of demonstrating transportation conformity in the timeframe of the area's transportation plan for all years beyond 2017, motor vehicle emissions must be less than or equal to the maintenance plan's motor vehicle emissions budget for 2017.

#### XI. In Conclusion, How Would This EPA Approval Affect the General Public and Citizens of the Portland Area?

This action proposes to approve measures adopted by ODEQ to ensure maintenance of the Federal air quality standards for CO in the Portland area for a second 10-year period and protect the health and welfare of the area citizens from adverse effects of degraded air quality levels.

#### XII. Statutory and Executive Order Reviews

Under Executive Order 12866 (58 FR 51735, October 4, 1993), this proposed action is not a "significant regulatory action" and therefore is not subject to review by the Office of Management and Budget. For this reason, this action is also not subject to Executive Order 13211, "Actions Concerning Regulations That Significantly Affect Energy Supply, Distribution, or Use" (66 FR 28355, May 22, 2001). This proposed action merely proposes to approve state law as meeting Federal requirements and imposes no additional requirements beyond those imposed by state law. Accordingly, the Administrator certifies that this proposed rule will not have a significant economic impact on a substantial number of small entities under the Regulatory Flexibility Act (5 U.S.C. 601 *et seq.*). Because this rule proposes to approve pre-existing requirements under state law and does not impose any additional enforceable duty beyond that required by state law, it does not contain any unfunded mandate or significantly or uniquely affect small governments, as described

in the Unfunded Mandates Reform Act of 1995 (Pub. L. 104-4).

This proposed rule also does not have tribal implications because it will not have a substantial direct effect on one or more Indian tribes, on the relationship between the Federal Government and Indian tribes, or on the distribution of power and responsibilities between the Federal Government and Indian tribes, as specified by Executive Order 13175 (65 FR 67249, November 9, 2000). This action also does not have Federalism implications because it does not have substantial direct effects on the States, on the relationship between the national government and the States, or on the distribution of power and responsibilities among the various levels of government, as specified in Executive Order 13132 (64 FR 43255, August 10, 1999). This action merely proposes to approve a state rule implementing a Federal standard, and does not alter the relationship or the distribution of power and responsibilities established in the Clean Air Act. This proposed rule also is not subject to Executive Order 13045 "Protection of Children from Environmental Health Risks and Safety Risks" (62 FR 19885, April 23, 1997), because it is not economically significant.

In reviewing SIP submissions, EPA's role is to approve state choices, provided that they meet the criteria of the Clean Air Act. In this context, in the absence of a prior existing requirement for the State to use voluntary consensus standards (VCS), EPA has no authority to disapprove a SIP submission for failure to use VCS. It would thus be inconsistent with applicable law for EPA, when it reviews a SIP submission, to use VCS in place of a SIP submission that otherwise satisfies the provisions of the Clean Air Act. Thus, the requirements of section 12(d) of the National Technology Transfer and Advancement Act of 1995 (15 U.S.C. 272 note) do not apply. This proposed

rule does not impose an information collection burden under the provisions of the Paperwork Reduction Act of 1995 (44 U.S.C. 3501 *et seq.*).

#### List of Subjects in 40 CFR Part 52

Environmental protection, Air pollution control, Carbon monoxide, Intergovernmental relations, Reporting and recordkeeping requirements.

Dated: August 23, 2005.

Julie M. Hagensen,  
Acting Regional Administrator, EPA Region 10.

[FR Doc. 05-17537 Filed 9-2-05; 8:45 am]

BILLING CODE 6560-50-P

**APPENDIX D** - *EPA approval of the Portland Carbon Monoxide Second 1- Year Maintenance Plan (January 24, 2006)*

**ENVIRONMENTAL PROTECTION  
AGENCY****40 CFR Part 52**

[Docket No.: EPA-R10-OAR-2005-OR-0001; FRL-8015-3]

**Approval and Promulgation of State  
Implementation Plans: Oregon;  
Portland Carbon Monoxide Second 10-  
Year Maintenance Plan**

**AGENCY:** Environmental Protection  
Agency (EPA).

**ACTION:** Final rule.

**SUMMARY:** This action finalizes our approval of the State Implementation Plan (SIP) revisions submitted by the Oregon Department of Environmental Quality on January 3, 2005. EPA is approving the State of Oregon's second 10-year carbon monoxide (CO) maintenance plan for the Portland maintenance area. Specifically, EPA is approving the following: Oregon's demonstration that the Portland CO Attainment Area will maintain air quality standards for CO through the year 2017; a revised CO motor vehicle emissions budget for transportation conformity purposes using the MOBILE6.2 emissions model and latest growth and planning assumptions; and revised state implementation plan (SIP) control strategies and contingency measures.

**DATES:** This final rule is effective on February 23, 2006.

**ADDRESSES:** EPA has established a docket for this action under Docket ID No. EPA-R10-OAR-2005-OR-0001. All documents in the docket are listed on the <http://www.regulations.gov> Web site. Although listed in the index, some information is not publicly available, e.g., CBI or other information whose disclosure is restricted by statute. Certain other material, such as copyrighted material, is not placed on the Internet and will be publicly available only in hard copy form. Publicly available docket materials are available either electronically through <http://www.regulations.gov> or in hard copy at the EPA, Region 10, Office of Air, Waste and Toxics (AWT-107), 1200 Sixth Avenue, Seattle WA. EPA requests that if all possible, you contact the contact listed in the **FOR FURTHER INFORMATION CONTACT** section to schedule your inspection. The Regional Office's official hours of business are Monday through Friday, 8:30 to 4:30 excluding legal holidays.

**FOR FURTHER INFORMATION CONTACT:** Gina Bonifacino, Office of Air, Waste and Toxics (AWT-107), EPA Region 10,

1200 Sixth Avenue, Seattle WA 98101; telephone number: (206) 553-2970; fax number: (206) 553-0110; e-mail address: [bonifacino.gina@epa.gov](mailto:bonifacino.gina@epa.gov).

#### SUPPLEMENTARY INFORMATION:

Throughout this document, wherever "awe," "aus," or "aour" is used, we mean the EPA. Information is organized as follows:

- I. What Is the Background of This Rulemaking?
- II. What Comments Did We Receive on the Proposed Action?
- III. What Is Our Final Action?
- IV. Statutory and Executive Order Reviews

#### I. What Is the Background of This Rulemaking?

On September 6, 2005, EPA published in the *Federal Register*, a detailed description of our proposed action to approve the Portland, Oregon, CO Second 10-year maintenance plan. See 70 FR 52956.

The air quality data shows that the Portland CO maintenance area has not recorded a violation of the primary or secondary CO air quality standards since 1989. EPA believes the area will continue to meet the National Ambient Air Quality Standards (NAAQS or standards) until at least 2017 as required by the Clean Air Act.

#### II. What Comments Did We Receive on the Proposed Action?

EPA provided a 30-day review and comment period to solicit comments on our proposal published in the September 6, 2005 *Federal Register*. We received one comment letter on the proposed rulemaking. This comment letter was from Pacific Environmental Advocacy Center on behalf of the Northwest Environmental Defense Center. In general, the letter opposed the proposed SIP revision. The comments and our responses are summarized as follows:

*Comment:* The commenter states that EPA cannot approve Oregon's proposed CO Maintenance Plan because it does not account for agricultural sources' contributions to CO in the Portland area.

*Response:* The Portland Area Carbon Monoxide Maintenance Plan Emission Inventory and Forecast was prepared using current and applicable EPA procedure and guidance documents and computer software programs. The primary procedure and guidance documents are Procedures for the Preparation of Emission Inventories for Carbon Monoxide and Precursors of Ozone, Volume I, and Emission Inventory Requirements for Carbon Monoxide State Implementation Plans. Emission factors were taken from the supplemental Short List of AMS SCCS

and Emission Factors, and Compilation of Air Pollutant Emission Factors (AP-42).

By letter dated November 15, 2005, as corrected on November 21, 2005, the Oregon Department of Environmental Quality (ODEQ) provided specific information in response to the comment. As part of the Portland carbon monoxide maintenance plan, agricultural activity was inventoried per EPA guidance. The types of agricultural activity inventoried by ODEQ were orchard pruning burning (11 tons/year), agriculture field burning (61 tons/year) and non-road agriculture equipment (298.9 tons/year) for a total of 370.8 tons/year. The 370.8 tons of CO that ODEQ calculates are generated by agriculture in the Portland area represents .07% of the region's total. ODEQ informed EPA that there are no Concentrated Animal Feeding Operations (CAFOs) within the boundary of the Portland CO Maintenance Area.

CO is not a pollutant where transport is a concern and there is no information to suggest that CO emissions from CAFOs outside of the Portland CO Maintenance Area impact CO levels within the maintenance area. For these reasons, EPA finds the State of Oregon's second 10-year CO maintenance plan for the Portland CO Maintenance Area adequately accounts for emissions from agricultural sources.

*Comment:* The commenter states ODEQ cannot properly implement the maintenance plan as a result of budget cuts. Specifically, the commenter is concerned because the ODEQ air program is expected to lose nearly 20 staff members and 4 of the 5 air quality monitors that were installed in the Portland area several years ago are being decommissioned.

*Response:* ODEQ has informed EPA that the four air quality monitors which are to be decommissioned by ODEQ due to budget cuts are part of a temporary effort to investigate toxic air pollutants in the Portland airshed. The monitors to be removed do not measure CO and are not required by EPA for monitoring of CO. As stated in the maintenance plan submitted by ODEQ, three CO monitors operating in the Portland CO maintenance area will continue to operate throughout the second 10-year period. For these reasons, EPA believes that ODEQ will continue to fulfill the monitoring commitments set forth in the Maintenance Plan.

#### III. What Is Our Final Action?

EPA is taking final action to approve the Portland, Oregon CO Second 10-Year Maintenance Plan consistent with

the published proposal. A Technical Support Document on file at the EPA Region 10 office contains a detailed analysis and rationale in support of the plan.

#### IV. Statutory and Executive Order Reviews

Under Executive Order 12866 (58 FR 51735, October 4, 1993), this action is not a "significant regulatory action" and therefore is not subject to review by the Office of Management and Budget. For this reason, this action is also not subject to Executive Order 13211, "Actions Concerning Regulations That Significantly Affect Energy Supply, Distribution, or Use" (66 FR 28355, May 22, 2001). This action merely approves state law as meeting Federal requirements and imposes no additional requirements beyond those imposed by state law. Accordingly, the Administrator certifies that this rule will not have a significant economic impact on a substantial number of small entities under the Regulatory Flexibility Act (5 U.S.C. 601 *et seq.*). Because this rule approves pre-existing requirements under state law and does not impose any additional enforceable duty beyond that required by state law, it does not contain any unfunded mandate or significantly or uniquely affect small governments, as described in the Unfunded Mandates Reform Act of 1995 (Public Law 104-4).

This rule also does not have tribal implications because it will not have a substantial direct effect on one or more Indian tribes, on the relationship between the Federal Government and Indian tribes, or on the distribution of power and responsibilities between the Federal Government and Indian tribes, as specified by Executive Order 13175 (65 FR 67249, November 9, 2000). This action also does not have federalism implications because it does not have substantial direct effects on the States, on the relationship between the National Government and the States, or on the distribution of power and responsibilities among the various levels of government, as specified in Executive Order 13132 (64 FR 43255, August 10, 1999). This action merely approves a state rule implementing a Federal standard, and does not alter the relationship or the distribution of power and responsibilities established in the Clean Air Act. This rule also is not subject to Executive Order 13045 "Protection of Children from Environmental Health Risks and Safety Risks" (62 FR 19885, April 23, 1997), because it is not economically significant.

In reviewing SIP submissions, EPA's role is to approve state choices, provided that they meet the criteria of the Clean Air Act. In this context, in the absence of a prior existing requirement for the State to use voluntary consensus standards (VCS), EPA has no authority to disapprove a SIP submission for failure to use VCS. It would thus be inconsistent with applicable law for EPA, when it reviews a SIP submission, to use VCS in place of a SIP submission that otherwise satisfies the provisions of the Clean Air Act. Thus, the requirements of section 12(d) of the National Technology Transfer and Advancement Act of 1995 (15 U.S.C. 272 note) do not apply. This rule does not impose an information collection burden under the provisions of the Paperwork Reduction Act of 1995 (44 U.S.C. 3501 *et seq.*).

The Congressional Review Act, 5 U.S.C. 801 *et seq.*, as added by the Small Business Regulatory Enforcement Fairness Act of 1996, generally provides that before a rule may take effect, the agency promulgating the rule must submit a rule report, which includes a copy of the rule, to each House of the Congress and to the Comptroller General of the United States. EPA will submit a report containing this rule and other required information to the U.S. Senate, the U.S. House of Representatives, and the Comptroller General of the United States prior to publication of the rule in the **Federal Register**. A major rule cannot take effect until 60 days after it is published in the **Federal Register**. This action is not a "major rule" as defined by 5 U.S.C. 804(2).

Under section 307(b)(1) of the Clean Air Act, petitions for judicial review of this action must be filed in the United States Court of Appeals for the appropriate circuit by March 27, 2006. Filing a petition for reconsideration by the Administrator of this final rule does not affect the finality of this rule for the purposes of judicial review nor does it extend the time within which a petition for judicial review may be filed, and shall not postpone the effectiveness of such rule or action. This action may not be challenged later in proceedings to enforce its requirements. (See section 307(b)(2).)

#### List of Subjects in 40 CFR Part 52

Environmental protection, Air pollution control, Carbon monoxide, Incorporation by reference, Intergovernmental relations, Reporting and recordkeeping requirements.

Dated: December 8, 2005.

L. Michael Bogert,

*Regional Administrator, EPA Region 10.*

■ Part 52, chapter I, title 40 of the Code of Federal Regulations is amended as follows:

#### PART 52—[AMENDED]

■ 1. The authority citation for part 52 continues to read as follows:

*Authority:* 42 U.S.C. 7401 *et seq.*

#### Subpart MM—Oregon

■ 2. Section 52.1970 is amended by adding paragraph (c)(145) to read as follows:

#### § 52.1970 Identification of plan.

\* \* \* \* \*

(c) \* \* \*

(145) On December 27, 2004, the Oregon Department of Environmental Quality submitted to the Regional Administrator of EPA, the Second Portland Area Carbon Monoxide Maintenance Plan that demonstrates continued attainment of the NAAQS for carbon monoxide through the year 2017.

(i) Incorporation by reference.

(A) Oregon Administrative Rules, Chapter 340: 200-0040, 204-0090 and 242-0440, as effective December 15, 2004.

■ 3. Paragraph (a) of § 52.1973 is revised to read as follows:

#### § 52.1973 Approval of plans.

(a) Carbon monoxide.

(1) EPA approves as a revision to the Oregon State Implementation Plan, the Second Portland Area Carbon Monoxide Maintenance Plan, effective December 15, 2004, and submitted to EPA on December 27, 2004.

(2) [Reserved]

\* \* \* \* \*

[FR Doc. 06-636 Filed 1-23-06; 8:45 am]

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## APPENDIX E

### **Summary of Non-Applicable State and Federal Regulations and Why They Are Not Addressed**

In some cases there are sections of federal statutes or state administrative rule that do not apply or do not apply directly and are not addressed.

Sections not addressed directly and reasons for not addressing them include:

*Purpose* (OAR 340-252-0010 and 40 CFR 93.100 - handled by addressing all sections with specific requirements);

*Definitions* (OAR 340-252-0030 and 40 CFR 93.101 - this conformity determination uses these definitions when addressing requirements in other sections);

*Priority* (OAR 340-252-0040 and 40 CFR 93.103 - this applies to the priorities that the Federal Highway Administration and Federal Transit Administration place on transportation improvements that have been prepared to attain or maintain air quality standards.);

*Projects from a Plan and TIP* (OAR 340-252-0160 and 40 CFR 93.115 - this is a project level requirement and must be satisfied by the project, but is not needed in a regional emissions conformity determination.);

*Localized CO and PM<sub>10</sub> Violations* (OAR 340-252-0170 and 40 CFR 93.116 – this determination is a region-wide analysis. This section concerns local project conditions. Individual projects are responsible for independent hot spot, or localized CO analyses. The region has always been in compliance with PM<sub>10</sub> standards. Accordingly, this section does not apply);

*Compliance with PM<sub>10</sub> Control Measures* (OAR 340-252-0180 and 40 CFR 93.117 – as noted, the region has always been in compliance with PM<sub>10</sub> standards, so this section does not apply);

*Emission Reductions in Areas without Motor Vehicle Emissions Budgets* (OAR 340-252-0200 and 40 CFR 93.119 - the Metro region has EPA approved emission budgets, so this section does not apply);

*Consequences of Control Strategy Implementation Plan Failures* (OAR 340-252-0210 and 40 CFR 93.120 – EPA has approved implementation plans for the Metro region, so this section does not apply);

*Requirements for Adoption or Approval of Project by Other Recipients of Funds Designated under Title 23 USC or the Federal Transit Laws* (OAR 340-252-0220 and 40

CFR 93.121- this conformity determination is being conducted to ensure that all federally funded transportation projects, as well as regionally significant locally funded projects, are assessed and no exception is being sought under this section);

*Procedures for Determining Localized CO and Pm<sub>10</sub> Concentration* (OAR 340-252-0240 and 40 CFR 93.123 – as noted above, this is a region-wide analysis of CO. Individual projects are responsible for local CO hot spot analyses independent of this region-wide analysis);

*Using the Motor Vehicle Emissions Budget in the Applicable Implementation Plan or Implementation Plan Submission* (OAR 340-252-0250 and 40 CFR 93.124 – this regulation concerns the implementation plan, not the conformity determination directly, accordingly it is not addressed);

*Enforceability of Design Concept and Scope and Project-Level Mitigation and Control Measures* (OAR 340-252-0260 and 40 CFR 93.125 – this is a individual project level requirement that each project must address and is not a region-wide requirement).

**APPENDIX F – Pre-Conformity Plan**

**Metro**  
**2035 Regional Transportation Plan (federal component)**  
**and Reconfirming the**  
**2008-2011 Metropolitan Transportation Improvement Plan (MTIP)**  
**Air Quality Conformity Plan**

December 6, 2007

**Background**

The Metro region is proposing the following procedures to conduct an air quality conformity analysis of the federal component of the Metro 2035 Regional Transportation Plan (2035 RTP) as well as reconfirming the Fiscal Year 2008-2011 Metropolitan Transportation Improvement Plan (MTIP).

This air quality conformity plan is intended to follow the requirements set forth in Oregon Administrative Rules, Chapter 340, Division 252 (OAR 340-252 "Transportation Conformity"), which, in turn, is intended to implement the Federal Clean Air Act (42 U.S.C 7401 and 23 U.S.C 109j, as amended). These conformity determinations must be periodically updated and the proposed air quality conformity determination of the 2035 RTP and reconfirming the 2008-2011 MTIP is meant to comply with these updating requirements.

The Joint Policy Advisory Committee on Transportation (JPACT) and the Metro Council are scheduled to adopt a resolution for the federal component of the 2035 Regional Transportation Plan and the FY08-FY011 MTIP, including the results of the air quality analysis, following a 30 day technical and public review period. JPACT and the Metro Council, in concert, are the Metropolitan Planning Organization for the greater Portland, Oregon metropolitan area including 25 cities and portions of three counties. The conformity determination will then be submitted to the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA) (see attached schedule). After consultation with the US Environmental Protection Agency, the region will be notified by FHWA and FTA as to whether the 2035 RTP and MTIP conformity determination is approved. Such approval would allow the transportation improvements included in the MTIP, to proceed.

This Metro air quality conformity plan is being submitted to the interagency consultation partners for comments and to seek consensus. Both federal and state law require interagency consultation. State law requires that the Transportation Policy Advisory Committee (TPAC) be the interagency consultation body for the Metro area. In order to meet federal requirements, representatives of the following agencies coordinate for interagency consultation:

- Federal Highway Administration, Oregon Division
- Federal Transit Administration, Region 10
- US Environmental Protection Agency, Region 10
- Oregon Department of Transportation

- Oregon Department of Environmental Quality
- TriMet
- Metro

In addition, the Clean Air Agency from Southwest Washington has also been invited to participate in order to ensure coordination between the two parts of the greater metropolitan airshed.

Early notification of the procedures and schedule will assist in the interagency consultation requirements of OAR 340-252-0060. The procedures may be revised as Metro proceeds with the analysis. If changes are sought, there will be notification of interagency consultation partners about such changes, and, if needed, additional consultation and opportunity for comment will be provided.

### **Air Quality Regulatory Status of the Metro area**

As of November 2007, the Metro area is a maintenance area for carbon monoxide (CO), meaning that while the region meets federal CO standards, it must continue to monitor CO levels through a air quality conformity determination comparing forecast levels of air quality assuming proposed transportation investments with motor vehicle emission budgets, or maximum allowed levels of the pollutant from the on road and transit elements of the region's transportation system. In 2006, the EPA approved a new CO State Implementation Plan (SIP) finding new CO motor vehicle emission budgets adequate for transportation conformity purposes in the Second Portland Area Carbon Monoxide Maintenance Plan.

Another possible air pollutant of concern within the Metro region is ground level ozone, which is comprised of volatile organic compounds, or VOC, (also known as hydrocarbons) and oxides of Nitrogen (NOx) that are emitted from a variety of sources, including on-road motor vehicles and some transit vehicles. In June 2005, the EPA revoked the 1 hour ozone standard and an 8 hour ozone standard was promulgated. For the Metro area, this meant that the maintenance status for the 1 hour ozone standard to which the Metro area previously had to demonstrate air quality conformity was no longer required. Further, the Metro area was in attainment with the 8 hour ozone standard. Accordingly, for this Metro 2035 RTP conformity determination, only CO is formally assessed.

However, in accordance with a memorandum of understanding between the Oregon Department of Environmental Quality and Metro, ozone, air toxics and greenhouse gas emissions will be estimated for the years 2005, 2010, 2017 and 2035. (Note: the 2005 baseline is an estimate from the model, not actual measurement.) These data will be made available on the Metro website (<http://www.metro-region.org>, - see air quality page) after the CO emissions are estimated and will be used to begin monitoring air quality trends in the region.

## **Air Quality Forecasting Overview**

Assessing air quality from surface transportation sources is achieved by first running Metro's travel demand computer model that uses forecasts of households and jobs as well as the characteristics of the future transportation system. The results of the transportation model are then used in an air quality computer model to estimate the amount of air pollutants that would be generated under these conditions, comparing these amounts to maximums set for the surface, on-road transportation system. More specific information about these models and assumptions are listed below.

## **Travel Demand Model Specifications**

The Metro travel demand model (Ivan) will be used in the 2035 RTP and 2008-2011 MTIP conformity process. The specifications for this model are documented in the report *Technical Specifications- March 1998 Travel Demand Model, as revised*.

The generation of person trips, the distribution patterns of the trips, the mode selection, and the time of day profile will be forecasted using the above Metro model. The vehicle trips from this model will be assigned to the conformity networks to determine speeds and VMT.

## **Project Listing**

**A listing of all projects included in the financially constrained system of the Regional Transportation Plan will be provided in the air quality conformity determination report along with their status with regard to:**

- a. whether the project was an input to the travel forecasting model;**
- b. the earliest year the project was forecast to be operational.**

## **Exempt Projects**

The air quality conformity determination report will identify exempt projects in the 2035 RTP and MTIP.

## **Demographics**

The following demographic data will be used in the transportation model:

- a. Population/Housing: Census data was used to validate the 2000 population and housing data. Population forecasts to the year 2035 were derived by projections to the year 2030 completed by the Metro economist and extended to the year 2035. These forecasts were allocated to transportation analysis zones after review and comment by local government technical staffs.
- b. Employment: Oregon Employment Department ES-202 was used for the 2000 employment base and further detailed by Metro estimates of self-employed. Employment forecasts to the year 2035 were derived under a similar process as the population and housing forecasts, included in the 2035 RTP (Federal Component) after review and comment by local government technical staff.

c. Socio-economics: Metro uses socio-economic data issued by the Census Bureau from the 2000 Census, including household size, incomes, age and head of household. In addition, the population, housing and job forecasts use data from the State of Oregon concerning birth and death rates as well as forecasts from Global Insight that was used in the regional economic forecast.

**Validation year:** The base year for the Metro transportation model (Ivan) is the year 2005. The model was last validated for that base year in 2005.

**RTP Horizon:** 2035.  
**MTIP years:** FY 2008-2011

### **Transportation Networks**

The Metro year 2005 transportation network will be the base year network from which all future year networks are developed. The 2005 network includes the highway and transit system as of January 2005.

Future transportation networks include completion of all regionally significant projects and other projects that can be modeled, as included in the MTIP and the Financially Constrained System of the 2035 Federal Component of the Regional Transportation Plan. Future year networks will also include a transit system from the TriMet *Transit Investment Plan* (2004), which is consistent with the proposed Metro 2035 RTP (federal component).

### **Air Quality Model Assumptions**

The following provides information on the Metro transportation network model and the EPA approved MOBILE6.2 air quality emissions model that will be used in the emissions analysis. Metro will use the following inputs for the MOBILE6.2. computer model to complete the 2035 RTP and 2008-2011 MTIP conformity analysis:

	Parameter	Details	Data Source
a.	Emission Model Version:	MOBILE6.2	EPA
b.	Emission Model Runs:	See Analysis Years table, below	EPA, DEQ
c.	Time Periods:	Seven - 2200hrs-0559; 0600-0659;0700-0859; 0900-1359; 1400-1459, 1800-1859 (PM shoulder); 1500-1759 and 1900-2159.	
d.	Pollutants Reported:	CO	
e.	Vehicle Class:	As per MOBILE6.2	EPA
f.	Functional Class:	MOBILE6.2 default (freeways, arterials, local and ramp)	
g.	Temperatures:	Minimum and Maximum temperatures for January	OR DEQ
h.	VMT mix:	MOBILE6.2 default	
i.	Speed:	3-65 MPH	
j.	Vehicle Registration:	All runs using 2004 fleet data from DEQ and ODOT, except for trips originating in Washington State which are provided through the SW Clean Air Agency.	OR DEQ / ODOT DMV
k.	I/M Program:	Assumes On-Board Diagnosticincluding the 2-speed idle test for 1975 through 1995 model-year vehicles and the Onboard Diagnostics test for all vehicle that are 1996 and newer. For year 2035, analysis will be calculated without On-Board Diagnostic as the more conservative assumption.	OR DEQ
l.	Reid Vapor Pressure:	Winter - 13.6psi	OR DEQ

### Conformity Criteria

Conformity will be based on the requirements of OAR 340-252-0190 (Criteria and Procedures: Motor Vehicle Emissions Budget). Specifically, 252-0190 (b)(A) states that for each analysis year, the emission analysis must demonstrate that the emissions from the Action scenario is less than or equal to the motor vehicle emissions budget(s) established for the last year of the maintenance plan, and for any other years for which the maintenance plan establishes motor vehicle emission budgets. In addition, the regional emissions analysis must be performed for the last year of the transportation plan's forecast period.

### Motor Vehicle Emission Budgets and Analysis Years

Based on the Second Portland Area Carbon Monoxide Maintenance Plan, as found adequate for transportation conformity purposes by the EPA on February 15, 2005, the following are the motor vehicle emission budgets to be used in the analysis.

#### Motor Vehicle Emission Budgets for Carbon Monoxide

- 2010** – 1,033,578 lbs. per winter day
- 2017** – 1,181,341 lbs. per winter day
- Beyond 2017** – same as 2017

Based on these required emission budget years, the requirements in OAR 340-252-0190 and data availability, the following are the years in which the Metro transportation model will be run and MOBILE6.2 software for this conformity determination.

## Air Quality Emission Modeling Year and Process Assumptions

Year	2005	2007	2010	2017	2025	2035
<b>Carbon Monoxide Budget Years</b>			✓	✓		✓*
<b>Modeling Tasks</b>	- Full Transportation Model run (already run)	Interpolate 2005 and 2017 trip tables, assign to 2007 transportation network  MOBILE6.2 run	- Interpolate 2007 and 2017 emissions	- Full Transportation Model run  MOBILE6.2 run	- Interpolate emissions between 2017 and 2035	- Full Transportation Model run  MOBILE6.2 run
<b>Transportation Network</b>	2005	2007	-	2017	-	2035

\* The Second Portland Area CO Maintenance Plan (DEQ 2004) provides for conformity determinations out to the year 2037, though the budget amount does not change after 2017. OAR 340-252-0190 and elsewhere and federal Clean Air Act and other federal regulations upon which OAR 340-252 are based, call for regional emissions for the last year of the RTP.

### Major Project Assumptions

For the Columbia River Crossing, Sunrise Project, I-5/I-84 Interchange and the I-5/99W Connector, the following approach is proposed:

1) These projects have, at a minimum, identified sufficient funding to complete right-of-way acquisition making them eligible for inclusion in the financially constrained project list and air quality conformity determination.

2) These projects are in various stages of project development and planning at this time. Locally preferred alternatives have not yet been determined, therefore, the proposed modeling assumptions for air quality conformity represent potential air quality impacts only, and are not alignment or facility type determinations. Federal guidelines dictate the circumstances under which an additional air quality conformity determination may or may not be required once the project development process reaches a conclusion on project specifications, For the purposes of air quality conformity, we propose to use the following assumptions, consistent with an ODOT request, after consultation with FHWA and continuing past policy for air quality modeling, as representative of potential project impacts to air quality in the region: For CRC, it is proposed that the replacement bridge with LRT and tolling be modeled for completion in the year 2017. For the Sunrise Project

is assumed to be a 6 lane throughway between I-205 and 172<sup>nd</sup> Avenue without tolling completed in the year 2017., For the I-5/Highway 99W Connector, it is assumed to be a four lane expressway without tolls at the southern corridor to be completed in the year 2025. For the I-5/I-84 Interchange it is assumed to be improvements consistent with the Greeley/Banfield project.

Project	Project Description and Extent	2035 Financially Constrained System Assumption
<b>Columbia River Crossing</b>	Preliminary Engineering and Right-of-Way from Victory Blvd. to Washington State	Replacement Bridge with 10,000 vehicles per hour each direction with \$2 tolls and light rail transit with termini at the Lincoln Park and Ride lot near Main Street and I-5. To be completed by 2017.
<b>Sunrise (I-205 to 172<sup>nd</sup> Avenue)</b>	Preliminary Engineering, Right-of-Way purchase and some construction funds from I-205 to 172 <sup>nd</sup> Ave.	Assumes full build, 6 lanes, without Tolls. To be completed by 2017.
<b>I-5/I-84 Interchange</b>	Preliminary Engineering and Right-of-Way for the interchange at I-5 and I-84 as well as the area around I-5 and Greeley Street.	Assumes full build of the interchange. The air quality assumptions for 2025 and beyond reflect capacity increases for I-5 resulting from braiding of ramps at both ends of the Broadway interchange. Northbound I-5 will increase from 3500 capacity across the three lanes to 6000 capacity as a result of the interchange improvements. Southbound I-5 capacity will increase from 3500 to 6000 across 3 lanes as it approaches the I-405 loop, an increase from 4500 to 6000 over three lanes just beyond the loop, and an increase from 6000 to 7000 across 3.5 lanes as I-5 approaches I-84. To be completed by 2025.
<b>I-5/Highway 99W Connector</b>	Preliminary Engineering and Right-of-Way purchase for the entire facility from 99W to I-5.	Assumes 4 lanes, without Tolls, to be completed by 2025.

### Transportation Control Measures

The Second Portland Area CO Maintenance Plan approved by the EPA includes several TCM which must be shown to be addressed. These TCM include the following:

1. Transit Service Increase: Regional transit service revenue hours (weighted by capacity) shall be increased 1.0% per year. The increase shall be assessed on the basis of a 5 year rolling average of actual hours for assessments conducted between 2006 and 2017. Assessments made for the period through 2008 shall include the 2004 opening of Interstate MAX.

2. Bicycle Paths: Jurisdictions and government agencies shall program a minimum total

of 28 miles of bikeways or trails within the Portland metropolitan area between the years 2006 through 2017. Bikeways shall be consistent with state and regional bikeway standards. A cumulative average of 5 miles of bikeways or trails per biennium must be funded from all sources in each Metropolitan Transportation Improvement Program (MTIP). Facilities subject to this TCM must be in addition to those required for expansion or reconstruction projects under ORS 366.514.

3. Pedestrian Paths: Jurisdictions and government agencies shall program at least nine miles of pedestrian paths in mixed use centers between the years 2006 through 2017, including the funding of a cumulative average of 1½ miles in each biennium from all sources in each MTIP. Facilities subject to this TCM must be in addition to those required for expansion or reconstruction projects under ORS 366.514. except where such expansion or reconstruction is located within a mixed-use center.

The air quality conformity determination for the 2035 RTP and 2008-2011 MTIP will include an analysis of whether these TCM have been addressed.



METRO

## **Air Quality Conformity Determination Schedule for the Adoption of the 2035 Regional Transportation Plan and 2008-11 Metropolitan Transportation Improvement Plan (MTIP)**

The following is the proposed schedule for air quality analysis, public and technical review and approval of the air quality conformity determination for the 2035 Regional Transportation Plan (RTP) update. This schedule identifies key milestones and decision points, and was developed to receive public and local technical review, Environmental Protection Agency review and Federal Highway Administration and Federal Transit Administration approval by March 5, 2008. Under federal regulations, a revised conformity determination for the 2008-11 MTIP must occur within six months of the 2035 RTP conformity determination. This schedule includes the revised conformity analysis and determination for the 2008-11 MTIP with the 2035 RTP conformity analysis and determination.

- |  |   |
|--|---|
| <b>November 19, 2007</b>   | Interagency consultation on detailed air quality conformity determination assumptions, methods, etc. for 2035 RTP and 2008-11 Metropolitan Transportation Improvement Program (MTIP).   |
| <b>November 30, 2007</b>   | TPAC action on 2035 RTP and introduction to upcoming air quality analysis for 2035 RTP and 2008-11 MTIP.  |
| <u>December 13, 2007 <b>JPACT action on 2035 RTP - pending air quality analysis.</b></u>         |   |
| <u>December 13, 2007 <b>Metro Council action on 2035 RTP - pending air quality analysis.</b></u> |   |
| <b>December 14, 2007</b>   | Air quality conformity determination emission analysis begins for 2035 RTP and 2008-11 MTIP.  |
| <b>January 18, 2008</b>  | Joint 2035 RTP and 2008-11 MTIP air quality conformity modeling and draft report complete. 30-day public review period begins of complete air quality conformity analysis, including emission results. Analysis also sent to TPAC members, federal air quality partners (EPA, FHWA, FTA). |
| <b>January 22-25, 2008</b>   | Federal interagency consultation concerning air quality analysis results, recommendations.  |

**Air Quality Conformity Determination Schedule  
for the Adoption of the 2035 Regional Transportation Plan and  
2008-11 Metropolitan Transportation Improvement Plan (MTIP)  
(Continued)**

<b>January 25, 2008</b>	TPAC consultation on air quality analysis results and recommendations.
<b>February 14, 2008</b>	JPACT consultation on air quality analysis results and recommendations, pending closing of comment period
<b>February 19, 2008 (noon)</b>	end of 30-day public review of air quality analysis of 2035 RTP and 2008-11 MTIP.
<b>February 26, 2008</b>	TPAC final adoption of air quality conformity determination and 2035 RTP. (electronic ballot)
<b>February 28, 2008</b>	JPACT final adoption of air quality conformity determination and 2035 RTP.
<b>February 28, 2008</b>	Metro Council final adoption of air quality conformity determination and 2035 RTP.
<b>February 29, 2008</b>	Submit conformity determination for 2035 RTP and 2008-11 MTIP to USDOT and US EPA.
<b>March 5, 2008</b>	Joint 2035 RTP and 2008-11 MTIP conformity determination approval from FHWA/FTA.

\* \* \* \*

**APPENDIX G – Ozone Information**

## Ozone

The Oregon DEQ describes ozone and its threat as follows:

*“Ozone (a component of smog) is a pungent, toxic, highly reactive form of oxygen. A new eight hour standard protects the public against lower level exposures over a longer time period which has been found to be more detrimental than shorter peak levels. The long term exposure effects cause significant breathing problems, such as loss of lung capacity and increased severity of both childhood and adult asthma.*

*Ozone causes irritation of the nose, throat, and lungs. Exposure to ozone can cause increased airway resistance and decreased efficiency of the respiratory system. In individuals involved in strenuous physical activity and in people with pre-existing respiratory disease, ozone can cause sore throats, chest pains, coughing, and headaches. Plants can also be affected. Reductions in growth and crop yield have been attributed to ozone. Ozone can affect a variety of materials, resulting in fading of paint and fiber, and accelerated aging and cracking of synthetic rubbers and similar materials. It is also a major contributor to photochemical smog.*

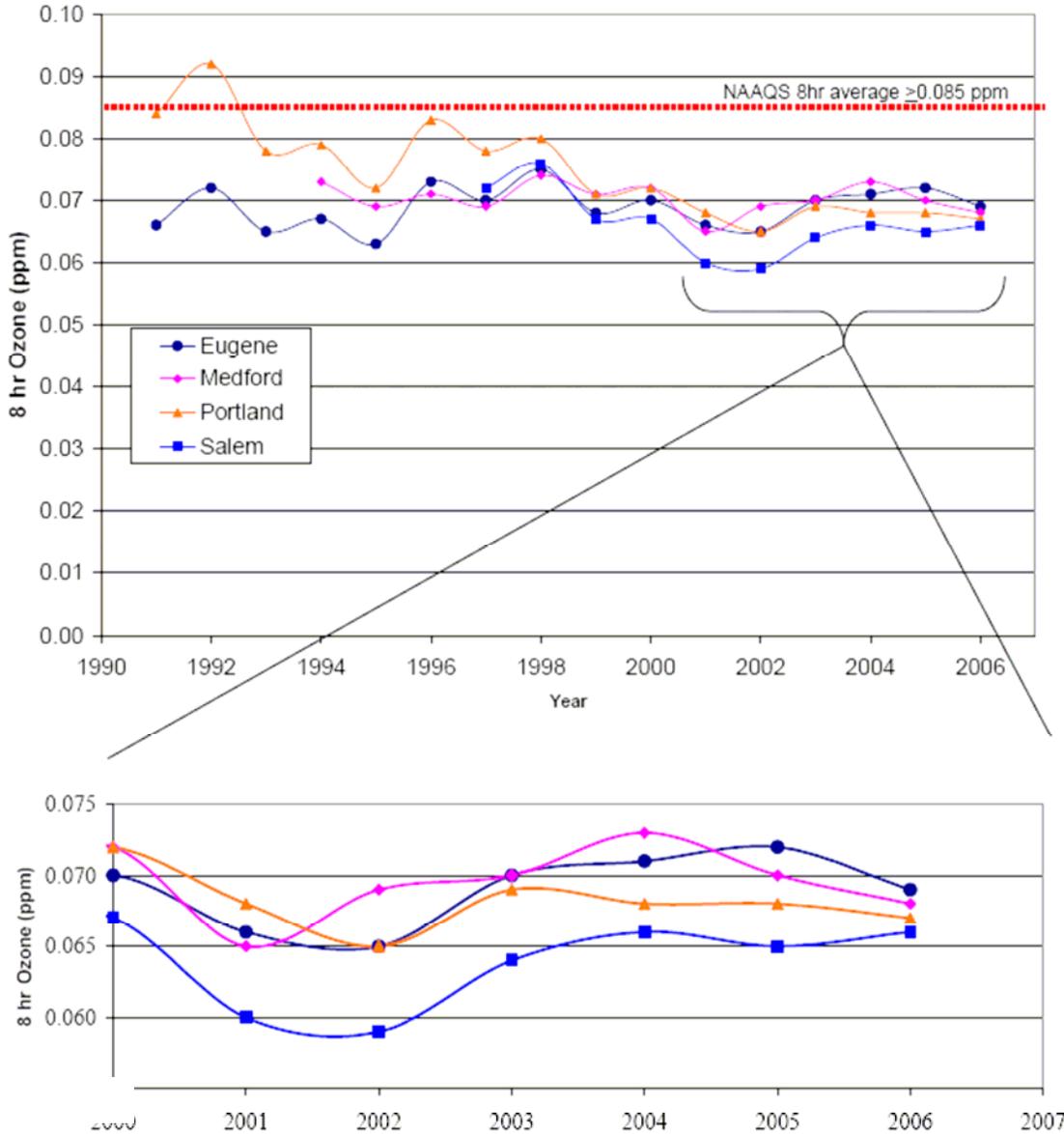
*Ozone is not emitted directly into the air. It is formed through a series of photochemical (sunlight requiring) reactions between other pollutants and oxygen (O<sub>2</sub>) during hot weather. Most important are nitrogen oxides and volatile organic compounds. To control ozone pollution, it is necessary to control emissions of these other pollutants. It is primarily caused by chemicals from car and small engine exhaust, and business and industry emissions on hot sunny days.*

*The Portland region has attained the one hour ozone standard and in 1996 EPA approved a 10-year plan to maintain good air quality.”*

In February 2007, the Oregon Environmental Quality Commission adopted an updated Portland Ozone Maintenance Plan and the US EPA has approved it. This document no longer requires air quality conformity determinations for ozone. However, Metro and DEQ have agreed that ozone levels will continue to be projected to assess future trends, although no motor vehicle emission budgets, or maximum levels of ozone precursors from on road transportation sources are available for comparison.

Below is a chart showing the historic rates of Ozone levels in the Metro region as compared with the federal and state standards.

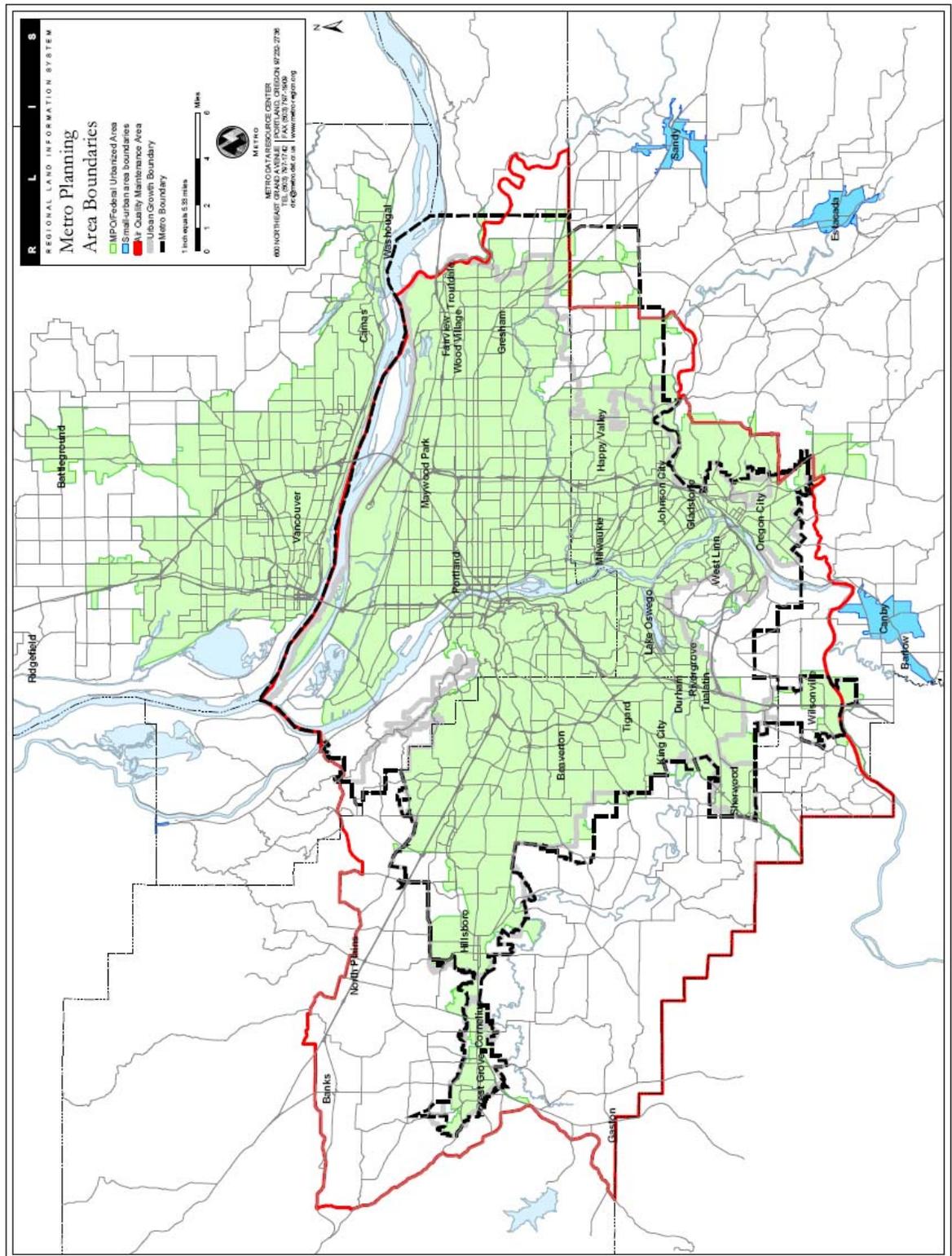
**Figure 3. Ozone Trends – Total Emissions, All Sources**



Source: 2006 Oregon Air Quality Data Summaries, Oregon Department of Environmental Quality see

<http://www.deq.state.or.us/air/forms/2006ar/2006ar.pdf>, - page 21

**Figure 4 Ozone - Air Quality Maintenance Area**



Plot time: Feb 26, 2003 J:\traced\03067\mpo.mxd

Recycle with mixed paper

The 1996 Portland Ozone Maintenance Plan includes the following MOBILE5 based motor vehicle emission budgets:

Year	Hydrocarbon Motor Vehicle Emission Budget (tons/summer day)	Oxides of Nitrogen Motor Vehicle Emission Budget (tons/ summer day)
2010	40	52
2015	40	55
2020	40	59
2025	40	59

## **NONDISCRIMINATION NOTICE TO THE PUBLIC**

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