

# 2020 PORT TRANSPORTATION IMPROVEMENT PLAN

DRAFT 1/08/2020

## ***Acknowledgments***

### *Port Transportation Team*

Steve Bloomquist  
Emerald Bogue  
Tom Bouillion  
Mike Coleman  
Lise Glancy  
Ann Gravatt

Phil Healy  
Scott Kilgo  
Sean Loughran  
Dan Pippenger  
Rob Smith  
Ivo Trummer

### *Port GIS Team*

Ryan Campbell  
Chad Dettlaff  
Alice Pence  
Rochelle Regutti

## TABLE OF CONTENTS

<b>Introduction .....</b>	<b>2</b>
<b>Goal and Objectives .....</b>	<b>3</b>
<b>Assumptions.....</b>	<b>4</b>
<b>Project Funding .....</b>	<b>4</b>
<b>Port Strategic Plan Alignment.....</b>	<b>5</b>
<b>Project List.....</b>	<b>6</b>
<b>PDX/PIC Area Map .....</b>	<b>18</b>
<b>PDX/PIC Project Reports .....</b>	<b>19</b>
<b>Hillsboro Area Map.....</b>	<b>27</b>
<b>Hillsboro Project Reports .....</b>	<b>28</b>
<b>Marine Terminal and Rivergate Area Map.....</b>	<b>42</b>
<b>Marine Terminal and Rivergate Area Project Reports.....</b>	<b>43</b>
<b>T2/Swan Island Area Map.....</b>	<b>59</b>
<b>T2/Swan Island Area Project Reports .....</b>	<b>60</b>
<b>East County Area Map.....</b>	<b>63</b>
<b>East County Area Project Reports .....</b>	<b>64</b>

## INTRODUCTION

The Port of Portland's mission is to provide competitive cargo and passenger access to regional, national and international markets while enhancing the region's quality of life.

For the most part, the Port does not own or control the surrounding transportation system that provides access to its facilities.<sup>1</sup> Good access to Port properties and marine and aviation facilities is a competitive advantage for the region's businesses and residents. The region's economy depends on efficient movement to and through the marine and aviation gateways. Therefore, improvements to the road, rail, water and transit systems that provide access to Port facilities are of vital interest to the Port and to the region's and state's businesses.

Freight movement has historically played a large role in the development of the Portland area economy. Due to its location at the confluence of the Willamette and Columbia Rivers with access to the Pacific Ocean, Portland has long served as a major shipment point in the Pacific Northwest. In addition to the navigable waterways, Portland is also served by two Class 1 rail lines, two interstate highways and a network of other major roads. All these factors contribute to Portland's development as a major distribution center for freight.

Several recent studies have substantiated the importance of investing in the transportation system and linked those investments to the region's and state's economic health. The Cost of Congestion to the Economy of the Portland Region (updated 2014), sponsored by a consortium of public agencies and private businesses, confirms the transportation dependency of the region's economy and affirms that the region's competitiveness is largely dependent upon its role as a gateway and distribution center. The study determined that improvements in the transportation system produce a 2:1 return for the economy.

The *Commodity Flow Forecast Update (2006)* produced by DRI/WEFA (updated in 2015 by Cambridge Systematics) predicts a doubling of freight volume moving throughout the region in 30 years. This kind of growth will dramatically impact Port facilities and will require significant investments to ensure access to them. The magnitude of regional transportation access investments and their financing are addressed through Metro's Regional Transportation Plan (RTP), Metro's Transportation Improvement Program (MTIP) and the State Transportation Improvement Plan (STIP). Access needs critical to Port facilities are reflected in the Port Transportation Improvement Plan (PTIP).

<sup>1</sup> Roads owned and maintained by the Port of Portland include: NE Airport Way (between I-205 and the Airport terminal), 82<sup>nd</sup> Ave. (north of NE Alderwood Rd.), NE Frontage Rd., NE Mt. Hood Ave. (north of Airport Way), NE AirTrans Way, part of N Time Oil Rd., T-5 access road, T-6 access roads, old Marine Dr. (west of N Portland Rd.) and other misc. access roads.

## GOAL AND OBJECTIVES

The Port Transportation Improvement Plan is a multimodal compilation of marine terminal, airport, road, rail, waterway, transit, bicycle and pedestrian projects, normally identified through transportation and other studies managed by or in coordination with the Port. The plan also identifies a transportation demand management program to be implemented. The plan is designed to organize transportation and transportation-related improvement needs. The goal and objectives of the Port's Transportation Improvement Plan are as follows:

### **Goal:**

Maintain the strategic advantage provided by the transportation system in this region by addressing the surface access needs of businesses and passengers trying to reach national and international markets via Port facilities.

### **Objectives:**

- Identify 5, 10, and 20-year surface transportation system investments that provide and maintain access to Port facilities and property developments.
- Develop a long-range vision for the financial implications of transportation system investments and integrate this long-range planning with the Port's capital program.
- Increase public awareness of Port access needs on the city, state and private rail carrier systems.
- Facilitate coordination between the Port and appropriate public and private transportation system stakeholders to make improvements and investments that enhance access to national and international markets for the region's businesses and residents.

## **ASSUMPTIONS**

Contained within this document are projects generally developed from transportation studies based on the region's assumptions about population and employment growth. These assumptions, developed by Metro in cooperation with all the jurisdictions in the region, are allocated to the land use designations of locally adopted comprehensive plans. As population and employment assumptions are updated, the needs of the transportation system are updated. The Port and other local governments participate in transportation systems studies to determine what parts of the surface transportation system (road/transit/rail/bicycle/pedestrian) are insufficient to meet the regional assumptions about passenger and freight movement.

This document represents the Port's assessment of the transportation system and the infrastructure necessary to achieve its mission. The PTIP helps the Port focus its transportation priorities and lets the public and the Port's partner jurisdictions know which projects will need cooperative efforts.

## **PROJECT FUNDING**

In recent years, the overall demand for transportation improvements at the local, state and federal levels has vastly exceeded available resources. The PTIP defines Port transportation needs over a 20-year time frame. Some of the transportation improvements are on Port properties, and some are on systems that are the legal responsibility of others but serve Port facilities.

Funding for projects in the PTIP is expected from a number of sources, including the jurisdictions that have legal responsibility for the system and private interests that may benefit from the improvements. The project detail sheets identify the funding sources anticipated to implement these projects. Funds attributed to specific jurisdictions reflect specific funding commitments. Funds designated as "Committed Port Share" are in the Port's approved budget. "Forecasted Port Share" indicates funds which the Port will obtain, whether from its own revenues or with funding from other sources. Where funds are listed as 'Unfunded', either a funding strategy has not yet been defined for the improvement, or changes in the project scope have impacted the existing funding strategy.

## **PROJECT REPORTS AND MAPS**

The following pages contain a list of all projects, followed by maps of Port operation areas and individual project reports. The project reports include such details as a brief description, purpose, funding information, time frame, and strategic alignment.

### **Acronym Key:**

<b>PIC</b>	<b>Portland International Center</b>
<b>PDX</b>	<b>Portland International Airport</b>
<b>WHI</b>	<b>West Hayden Island</b>
<b>TRIP</b>	<b>Troutdale Reynolds Industrial Park</b>
<b>TTD</b>	<b>Troutdale Airport</b>
<b>HIO</b>	<b>Hillsboro Airport</b>
<b>GVBP</b>	<b>Gresham Vista Business Park</b>

### **Time Frame:**

Projects identified in the PTIP are shown as occurring in the 5, 10, or 20-year time frames. Projects within the 5-year time frame are expected to occur within the next five years. Projects within the 10-year time frame are expected to occur between five and ten years from the time of PTIP adoption. Similarly, projects within the 20-year time frame are expected to occur between 10 and 20 years from the time of PTIP adoption.

The time frames shown are estimates. The listing of a project in a given period does not ensure that it will be constructed in that time frame. Rather, projects will be constructed when transportation/business needs support them and when funding becomes available. For many projects, this need has already been identified. However, others depend on a variety of factors, including development at Port facilities and the changing challenges of the region's transportation system.

### **Port Strategic Plan Alignment**

The mission of the Port is to enhance the region's economy and quality of life by providing efficient cargo and air passenger access to national and global markets.

Critical to the Port's effectiveness in implementing its mission are the following strategic areas of focus.

- Drive Regional Prosperity
- Deliver an Outstanding PDX Passenger Experience
- Connect People and Businesses to Markets
- Promote Excellence in Organizational Effectiveness

The project reports identify which of the strategic areas of focus the projects most closely align with.

# PTIP MASTER PROJECT LIST

Map ID	Project Name	Project Description	Purpose	Time Frame (Years)	Total Cost	Area Map
1	PDX NEXT	Includes Terminal Core, Terminal Balancing, and PACR projects.	Expand airport capacity, functionality, and resilience.	5	\$2,131,500,000	PDX/PIC
2	82nd Ave./Airport Way Grade Separation	Construct grade-separated overcrossing.	Provide efficient movement of traffic to PDX properties.	5	\$87,000,000	PDX/PIC
3	Airport Way Rehabilitation - West	Rehabilitate Airport Way West of 82nd - east and west and make improvements to pedestrian and traffic flow at the intersection of NE 82nd & Air Cargo Rd and NE 82nd & Airport Way.	The project will improve Airport Way west of 82nd and will improve traffic flow at 82nd Avenue, Air Cargo Road and Airport Way.	5	\$11,700,000	PDX/PIC
4	PDX Runway Seismic Retrofit	The runway at PDX and associated taxiways, aprons, nav aids and lighting will be retrofitted for a seismic event.	Provide a seismically resilient runway at PDX.	10	\$150,151,000	PDX/PIC
5	Tri Met Double Track	Construct a second track west of 82nd where only one exists today and extend Red Line service beyond Beaverton to Hillsboro.	Assure more on-time reliability and safety.	10	\$200,000,000	PDX/PIC
6	Tri Met Double Track Bike/Ped Path	Construct a multi-use path on the north side of Air Cargo Road between the MAX platform and the PDX Travel Center.	Provide a safe facility for pedestrians and bicyclists.	5	\$2,000,000	PDX/PIC
7	Alderwood and Columbia Blvd. Intersection	Widen and signalize intersection on Columbia Boulevard at Alderwood Rd.	Provide transportation link to the cargo area located within the south airport area and to support Columbia Corridor freight movement.	5	\$5,058,349	PDX/PIC



Map ID	Project Name	Project Description	Purpose	Time	Total Cost	Area Map
				Frame (Years)		
8	Cully Blvd. and Columbia Blvd. Intersection	Widen and signalize intersection on Columbia Boulevard at Cully Blvd.	Provide transportation link to the cargo area located within the south airport area and to support Columbia Corridor freight movement.	5	\$6,575,000	PDX/PIC
9	Alderwood Street Bikeway	Provide bike lanes or pathway on Alderwood Road between Columbia Blvd. and the Alderwood Trail.	Improve safety and provide better separation from motor vehicle traffic.	5	\$2,500,000	PDX/PIC
10	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 bus shuttle through Tri Met.	Fulfill TDM requirements of PDX Master Plan. Implement TDM projects and programs recommended in the PDX Alternative Modes Study.	5	\$2,000,000	PDX/PIC
11	PDX Roadways Signing Update	Update roadway signs to current national guidelines.	Support customer experience and safety.	5	\$1,400,000	PDX/PIC
12	Cornfoot Road Multimodal Safety Improvements	Provide a separated multi-use path on the north side of NE Cornfoot Road. Install traffic signal at Air Trans Way.	Increase safety and provide improved bicycle and pedestrian access along NE Cornfoot Road.	5	\$3,708,539	PDX/PIC
13	SW Quad Access	Provide street access from 33rd Ave. into SW Quad.	Provide efficient movement of traffic to developing PDX properties.	10	\$5,917,500	PDX/PIC
14	33rd Avenue/Marine Drive Intersection Improvements	Signalize and modify the intersection of NE 33rd Avenue and Marine Drive.	Improve safety and access for 33rd Avenue. May incorporate bike and ped facilities as well.	5	\$5,760,643	PDX/PIC

Map ID	Project Name	Project Description	Purpose	Time	Total Cost	Area Map
				Frame (Years)		
15	Columbia Blvd. Widening (82nd Ave. - 60th Ave.)	Widen Columbia Blvd. to five lanes.	Address system bottleneck along Columbia Blvd.	20	\$15,000,000	PDX/PIC
16	11th/13th (at Columbia Blvd.): Crossing Elimination	If feasible, eliminate the at-grade crossing and improve alternate roadway access.	Improve Kenton Mainline operation and eliminate a modal conflict.	5	\$1,000,000	PDX/PIC
17	HIO Taxiway A Reconstruction	Rehabilitate full length parallel Taxiway A and select connectors including drainage, lighting, and markings. Addresses locations identified by FAA's Runway Incursion Mitigation program.	Provide improvements identified in HIO 2006 and 2018 Master Plans.	5	\$14,500,000	Hillsboro
18	HIO 13R-31L RSA Modifications	Implement modifications to correct non-standard grading conditions and reduce waterfowl habitat in the runway safety area.	Modify and mitigate for non-standard grading conditions and water features in the runway safety area.	5	\$21,200,000	Hillsboro
19	HIO Relocate Taxiway AA	Relocate Taxiway AA 122 feet to the east and extend from Exit A5 to Taxiway G.	Replace existing Taxiway AA with a new taxiway with the appropriate design separation from Taxiway A. Construct a perimeter road extension between Taxiway AA and existing tenant ramps.	20	\$7,300,000	Hillsboro
20	HIO Crossfield Taxiways	Construct a new crossfield Taxiway.	Provide better taxiway circulation.	5	\$3,663,000	Hillsboro
21	HIO Construct Terminal Apron	Construct a new apron on the airside of the new terminal building, along with new stormwater infrastructure.	Provide new apron to serve new terminal building.	10	\$5,086,000	Hillsboro

Map ID	Project Name	Project Description	Purpose	Time	Total Cost	Area Map
				Frame (Years)		
22	HIO Taxiway A6 Improvements	Reconfigure Taxiway A6.	Provide pilots with enhanced situational awareness as they transition from the runway to the taxiway and to eliminate direct access from apron areas to the runway.	10	\$882,000	Hillsboro
23	HIO Taxiway B2 Relocation	Relocate Taxiway B2.	Eliminate direct access to Runway 2-20 from the east side T-hangers.	20	\$881,000	Hillsboro
24	HIO Northside Taxilane and Enabling Infrastructure (Phase I)	Construct taxilane parallel to Taxiway D in the North quadrant.	Provide access from the planned flight school development parcel to the airfield.	20	\$2,175,000	Hillsboro
25	HIO Runup Pad Construction on Taxiway D	Expand the existing runup pads adjacent to Taxiway D near each end of Runway 31L-31R.	Allow aircraft to perform pre-takeoff checks without blocking access to runway ends.	20	\$1,225,000	Hillsboro
26	HIO Vehicle Service Road Construction	Construct vehicle service roads to Airport locations.	Improve and realign vehicle service road in the West quadrant for compatibility with general aviation development.	20	\$1,950,000	Hillsboro
27	HIO Helipad Construction	Construct a helipad in the North quadrant near Taxiway D.	Will provide three helipad landing sites to for helicopter training activity.	20	\$535,000	Hillsboro
28	HIO Northside Taxilane and Enabling Infrastructure (Phase II)	Construct taxilane parallel to Taxiway D in the North quadrant, north of Phase I.	Will provide airfield access to planned general aviation hangars adjacent to the flight school.	20	\$2,383,000	Hillsboro

Map ID	Project Name	Project Description	Purpose	Time	Total Cost	Area Map
				Frame (Years)		
29	HIO Taxiway B Extension	Extend Taxiway B parallel to Runway 2-20.	Provide taxiway adjacent to new terminal building.	20	\$3,263,000	Hillsboro
30	HIO Apron Connectors	Create new taxiway and hold apron pavement in conjunction with new terminal development.	Provide for a safer and more efficient flow of aircraft taxiing.	20	\$840,000	Hillsboro
31	HIO Taxiway E-Middle Portion	Connect taxiways to Runway 13R-31L.	Second phase to the new parallel taxiway between the parallel runways.	20	\$7,488,000	Hillsboro
32	HIO Taxiway E-North Connector	Connect the north ends of Runway 13R-31L and Runway 13L-31-R.	Provide connectivity between the north end of the runways.	20	\$5,000,000	Hillsboro
33	HIO Taxiway B Extension	Extend Taxiway B beyond the end of Runway 2-20 to the flight museum.	Provide airside access to a proposed learning campus.	20	\$604,000	Hillsboro
34	NE 30th Avenue Extension to Flight School	Provide a roadway from NE 30th Avenue to the planned flight school and new general aviation development sites.	Will provide required landside access to the new flight school location.	20	\$2,109,000	Hillsboro
35	Springer Street Extension	Extend NE Springer Street to the west and provide temporary cul-de-sac.	To enable non-aviation development of airport land not needed for aeronautical purposes.	5	\$2,780,000	Hillsboro
36	Widen NE 30th Avenue	Widen NE 30th Avenue and NE Springer Street to comply with City of Hillsboro standards.	To enable non-aviation development of airport land not needed for aeronautical purposes.	5	\$2,508,000	Hillsboro
37	Intersection improvements at NE 30th Avenue and NE Evergreen Road	Add turn lanes and signalization.	To enable non-aviation development of airport land not needed for aeronautical purposes.	5	\$1,026,000	Hillsboro
38	Relocate NE 25th Avenue	Relocate NE 25th Avenue to the west.	Comply with FAA Runway Object Free Area requirements.	10	\$3,203,000	Hillsboro

Map ID	Project Name	Project Description	Purpose	Time	Total Cost	Area Map
				Frame (Years)		
39	Relocate NE Cornell Road	Relocate a portion of NE Cornell Road to the south.	Comply with FAA Runway Object Free Area requirements.	10	\$2,859,000	Hillsboro
40	Extend NE Springer Street to NE Brookwood Parkway	Extend NE Springer Street to NE Brookwood Parkway.	Facilitate development of Port industrial properties.	20	\$4,997,000	Hillsboro
41	Intersection Improvements at NE Springer Street and NE Brookwood Parkway	Construct improvements needed to accommodate the extension of Springer Street.	Facilitate development of Port industrial properties.	20	\$497,000	Hillsboro
42	NE 34th Avenue and NE Cornell Road Improvements	Construct intersection improvements at NE 34th and Cornell, as well as a roundabout north of the intersection.	Facilitate development of Port properties.	20	\$4,528,000	Hillsboro
43	Connect Phase II Loop Road to Cornell Road	Provide intersection improvements to connect interior loop road to NE Cornell Road.	Facilitate development of Port properties.	20	\$2,533,000	Hillsboro
44	T6 Crane Drives for Cranes 6380 and 6381	Crane management system upgrades for Cranes 6380 and 6381.	Improve operational efficiencies for the container cranes.	5	\$2,800,000	Rivergate
45	T6 Auto Terminal	Pavement renewal, processing building, rail ramp and office.	Capture demand for mid level auto account.	5	\$35,000,000	Rivergate
46	T6 Berth 603 Low Dock	Modify existing berth for roll on-roll off (RORO) vessels.	Capture demand for high and heavy cargo.	5	\$8,000,000	Rivergate

Map ID	Project Name	Project Description	Purpose	Time	Total Cost	Area Map
				Frame (Years)		
47	T6 Electrical and Lighting Replacements	Replace electrical feeders and equipment and high mast lighting.	Modernize the electrical and lighting facilities at T6.	5	\$8,700,000	Rivergate
48	T6 Transload Site Development	Develop a 17 acre transload facility by creating a connection to Peninsula Terminal Railroad and a driveway under the Marine Drive bridge.	Allow dual rail access to T6 and create additional industrial jobs.	10	\$3,325,000	Rivergate
49	T6 Internal Roadway	Provide road connection between Suttle Road site and T6 main yard.	This will connect the main T6 yard to the Suttle Road development site.	10	\$6,100,000	Rivergate
50	Columbia River Mouth Jetty Refurbishment	With Jetty A and North Jetty now complete, complete refurbishment of the South Jetty at the mouth of the Columbia River.	This is a critical repair of the jetties at the Columbia River Bar.	5	\$239,000,000	Rivergate
51	Lower Columbia River Channel Maintenance Plan	Assist the Army Corps to establish a federally required 20 year strategic plan to manage deposition of Columbia River dredge material from the navigation channel.	Ensure there is sufficient dredged material disposal capacity for a minimum of 20 years.	5	\$1,500,000	Rivergate
52	Rivergate ITS	Intelligent Transportation System in Rivergate.	Improve traffic efficiency in Rivergate by connecting information about the roadway system to ODOT's Highway information systems.	5	\$480,000	Rivergate
53	Marine Dr. Improvement Phase 2	Construct rail overcrossing on Marine Dr.	Avoid road/rail conflict.	20	\$13,644,200	Rivergate

Map ID	Project Name	Project Description	Purpose	Time	Total Cost	Area Map
				Frame (Years)		
54	Marine Drive ITS Improvement	Install a CCTV at Portland Road and changeable message signs at N. Portland Road, North Vancouver Way and NE 185th Drive.	Improve traffic efficiency in the Columbia Corridor.	10	\$200,000	Rivergate
55	North Portland Junction	Upgrade railroad with revised crossovers, centralized traffic control tie-in and increased turning radius.	Accommodate higher rail speeds at the junction, which provides greater capacity.	10	\$9,160,000	Rivergate
56	Kenton Rail Line Upgrade	Upgrade existing track to second main track with new double track from Peninsula Junction to I-205 and increase track speeds between North Portland, Peninsula Junction, to Reynolds on UP's Kenton Line.	Expand rail capacity and reduce delays for greater efficiency.	10	\$25,382,000	Rivergate
57	I-5 Columbia River Bridge	Increase the number of lanes and add transit capacity across the river.	Increase multi-modal capacity across the Columbia River and relieve congestion.	10	\$2,982,000,000	Rivergate
58	BNSF Fallbridge Double Tracking	Double-track the Fallbridge line to Washougal.	Increases capacity of the BNSF east-west mainline serving Port of Portland.	10	\$72,000,000	Rivergate
59	Time Oil Road Reconstruction	Reconstruct Time Oil Road.	Provide improved access to South Rivergate industrial area.	10	\$9,000,000	Rivergate
60	Rivergate Boulevard Overcrossing	Grade separate the South Rivergate Lead at Rivergate Blvd.	Improve rail and vehicle traffic flow in Rivergate Industrial District.	5	\$26,158,076	Rivergate
61	Bonneville Rail Yard Build Out	Construct two interior yard tracks and complete the double track lead from the wye at the east end of the yard to Barnes Yard.	Add rail staging capacity for South Rivergate.	10	\$3,600,000	Rivergate
62	Ramsey Yard Utilization	Connect existing set out track with industrial lead.	Improve unit train staging capabilities at Ramsey Rail Yard.	10	\$1,700,000	Rivergate

Map ID	Project Name	Project Description	Purpose	Time	Total Cost	Area Map
				Frame (Years)		
63	T4 Dry Bulk Expansion	Provide additional loader, storage, and rail capacity with new yard and dumper pit.	The project will allow additional throughput at Terminal 4.	5	\$200,000,000	Rivergate
64	T4 Berth 410, 411 Rail Yard Improvements	Construct additional rail track in the Berth 410 and 411 rail yard.	Improve the efficiency of the rail yard by creating additional rail capacity.	10	\$7,800,000	Rivergate
65	T4 Second Entrance	Design and construct a second entrance to Terminal 4.	Support additional rail expansion at the terminal.	5	\$14,200,000	Rivergate
66	T4 Pier 1 Tracks 704-709	Perform upgrades and rehabilitation on tracks 704-709.	Support rail car storage needs of Terminal 4 tenants	5	\$1,000,000	Rivergate
67	Terminal 4 Pier 1 Site Preparation	Remove Berths 405 and 408, the grain leg platform and tower, and the grain elevator in the Pier 1 area of Terminal 4.	This project will facilitate the redevelopment of approximately 30 acres of vital marine industrial property in the Portland Harbor.	5	\$38,000,000	Rivergate
68	Barnes to Terminal 4 Rail	Provide a new track from Barnes Yard to Terminal 4. Includes replacement of Lombard Bridge.	Improve rail access to Terminal 4.	5	\$10,543,000	Rivergate
69	Terminal 4 Automobile Yard Expansion	Design and construct six acres of porous pavement parking for the storage of imported automobiles.	The project will provide additional land to meet auto storage capacity needs of Toyota, supporting the Port's automobile import business line.	10	\$3,000,000	Rivergate
70	T4 Electrical Replacements	Replace obsolete electrical components.	Replace obsolete electrical components at Terminal 4, including relocating and replacing the feeder between the grain elevator and Berth 401.	5	\$2,000,000	Rivergate
71	Cathedral Park Quiet Zone	Address rail switching noise by improving multiple public rail crossings in the St. Johns Cathedral Park area.	To allow auto import operations to continue to grow in N. Portland and improve neighborhood livability.	5	\$8,200,000	Rivergate



Map ID	Project Name	Project Description	Purpose	Time	Total Cost	Area Map
				Frame (Years)		
72	St. Johns Pedestrian District	Improvements could include restriping, curb extensions and other pedestrian and bicycle amenities on Lombard St. that do not impede truck movement, as well as intersection improvements and signalization.	Maintain truck movement and minimize conflicts with bicycles and pedestrians between Philadelphia Ave. and Lombard St. at Pier Park.	5	\$3,346,000	Rivergate
73	Willamette River Channel Deepening	Deepen the portions of the Willamette River with deep draft infrastructure to -43' where appropriate.	To allow Willamette River terminals to benefit from the Columbia River's controlling depth. To follow maintenance to -40 feet.	10	\$200,000,000	Rivergate
74	Berth Deepening at T4	Deepen berths at Terminal 4 to allow deeper draft vessels to transit the planned 43 foot channel. Tied to Willamette River Channel Deepening. Cost TBD.	Allow better utilization of Panamax-class bulk vessels.	10		Rivergate
75	PSU ITS Expansion	Expand PSU's existing web based ITS "count sensor" program beyond the freeway to some key arterials throughout the region and create a repository of regional freight data.	To secure truck flow and congestion data.	5		T2/Swan Island
76	Dredge Oregon Pipe, Scows and Pontoons	Acquire 2,000 feet of dredge pipe, pontoons, anchor scows and anchors.	Allow Dredge Oregon to make full use of recent repower and pump material 14,000 feet.	5	\$10,200,000	T2/Swan Island
77	New Dredge Tender	Replace the existing vintage tugboat W.L. Williams with a newly constructed modern work-boat vessel. Repower tugboat Clackamas.	Improve operational support for Dredge Oregon dredging operations and improve environmental performance.	5	\$6,000,000	T2/Swan Island
78	Dredge Oregon Support Equipment	Repower or replace navigation equipment including support vessels and landside equipment such as bulldozers.	Improve productivity and environmental performance.	5	\$2,000,000	T2/Swan Island

Map ID	Project Name	Project Description	Purpose	Time	Total Cost	Area Map
				Frame (Years)		
79	North Willamette Greenway Trail	Pedestrian and bicycle trail from Kelly Point Park to the Steel Bridge along the Willamette River. The money associated for this project is for a study only.	Improve pedestrian and bicycle connectivity in North Portland. Coordinate implementation with the City of Portland.	20	\$500,000	T2/Swan Island
80	Portland Terminal Railroad Power Switches	Install Dispatcher Controlled Power Switches between Lake Yard and Terminal 2.	Will reduce blockage of mainline for BNSF, UPRR and Amtrak.	5	\$10,805,000	T2/Swan Island
81	TTD Reconstruct runway 7-25	Reconstruct existing 150' x 5400' runway; narrow to 75' wide, reduce length to 4500', relocate/reconstruct edge lighting, construct required drainage improvements.	Project identified in 2016 TTD Master Plan.	5	\$22,100,000	East County
82	40 Mile Loop Trail: Blue Lake Park to Sundial Rd.	Construct a mixed use off road trail connecting Blue Lake Park and Sundial Road.	Combined with the Port's Reynolds levee trail it will complete gaps in the 40 Mile Loop Trail.	5	\$3,424,073	East County
83	Sundial Road at Graham Road	Install traffic signal.	Address traffic growth at Troutdale Reynolds Industrial Park.		\$1,000,000	East County
84	TRIP Road Access Phase 3	Road improvements to serve Phase 3 industrial development. Actual project will be developed in coordination with stakeholders.	Address off-site transportation impacts.	10		East County
85	Sandy Blvd. Widening to 4 lanes	Sandy Blvd. widen to 4 lanes and center turn lane (181st-202nd) with sidewalks and bike lanes.	Improve east west capacity and serve developing industrial property.	10	\$10,000,000	East County
86	Sandy Blvd. Widening to 3 lanes	Sandy Blvd. widen to 3 lanes (207th to 238th), add sidewalks and bike lanes.	Improve east-west capacity and serve adjacent developing industrial property.	10	\$7,438,000	East County

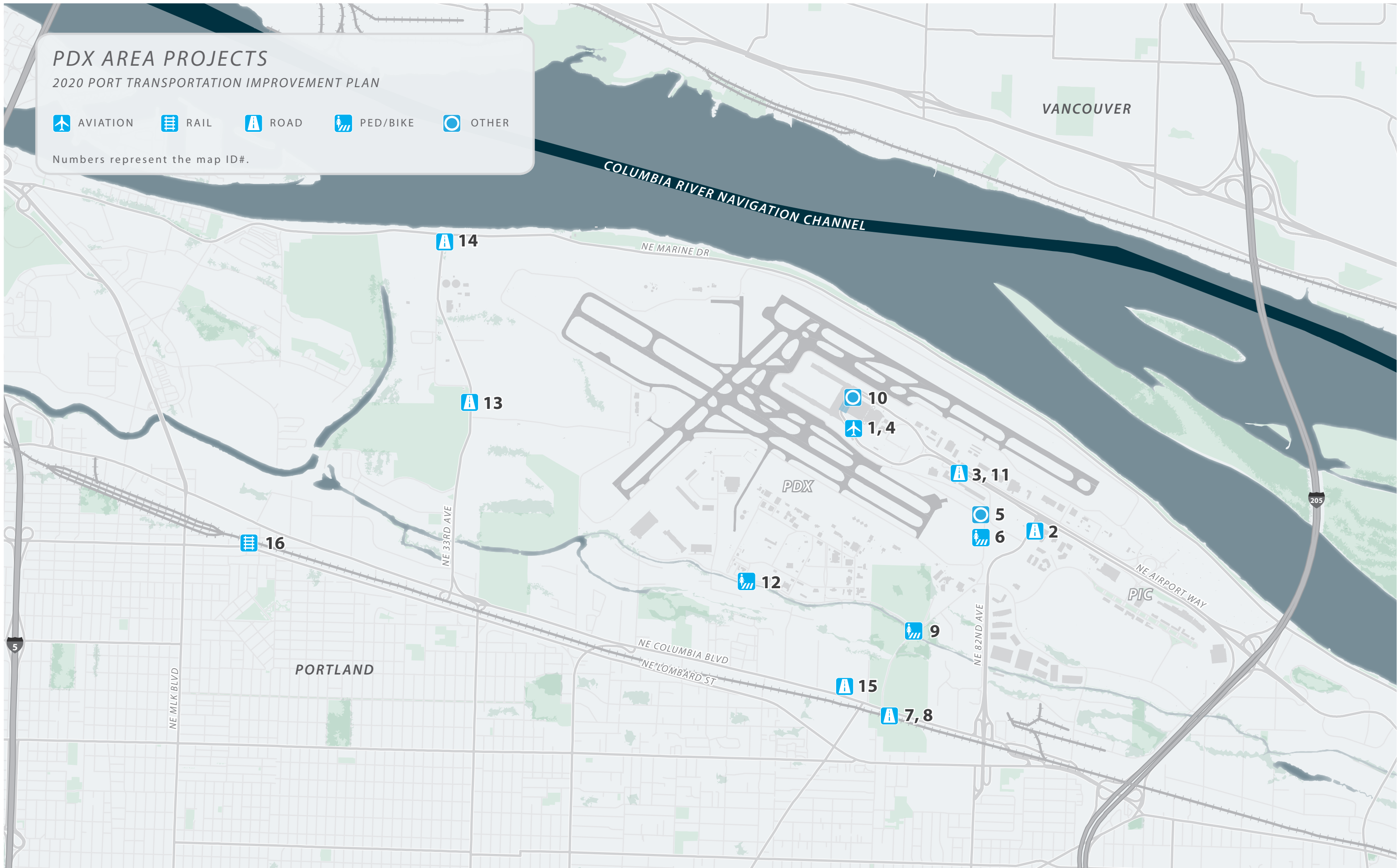
<b>Map ID</b>	<b>Project Name</b>	<b>Project Description</b>	<b>Purpose</b>	<b>Time Frame (Years)</b>	<b>Total Cost</b>	<b>Area Map</b>
87	NE Hogan at NE Stark Street	Add right turn lanes on all approaches and second northbound and southbound left turn lanes.	Address intersection capacity affecting access to Gresham Vista Business Park.	5	\$1,908,431	East County
88	NE 223rd at Stark	Add eastbound and northbound right turn lanes and southbound left turn lanes.	Address intersection capacity affecting access to Gresham Vista Business Park.	5	\$1,196,756	East County
89	NE 238th Drive: Halsey to Glisan	Construct improvements for freight by modifying road curvature. Also adds improvements for bikes and pedestrians.	Will improve freight access to Gresham Vista Business Park.	5	\$9,769,340	East County
90	NE 223rd Avenue Widening	Widen to three lanes between Halsey Street and Marine Drive.	Upgrade the facility to major collector urban street standards.	5	\$4,437,809	East County

# PDX AREA PROJECTS

2020 PORT TRANSPORTATION IMPROVEMENT PLAN

-  AVIATION
-  RAIL
-  ROAD
-  PED/BIKE
-  OTHER

Numbers represent the map ID#.



### Project Name: PDX NEXT

**Map ID:** 1  
**Project Type:** Aviation  
**Operation Area:** PDX/PIC  
**Project Description:** Includes Terminal Core, Terminal Balancing, and PACR projects.

**Time Frame (Years):** 5 years

**Total Cost:** \$2,131,500,000  
**Year of Cost Estimate:** 2019

**Federal:**

**State:**

**City:**

**SDC:**

**Port Share**

**Committed:**

**Port Share**

**Forecasted:** \$2,131,500,000

**Private:**

**Other:**

**Unfunded:**

**Purpose:** Expand airport capacity, functionality, and resilience.

**MW NUM:** 101888, 102191

**RTP Related:**

**Recent Study:** Airport Futures

**Port Strategic Area:** Deliver an Outstanding PDX Passenger Experience

- RTP 2045 Illustrative
- RTP 2045 Constrained
- Conditioned Project
- Identified in STIP

### Project Name: 82nd Ave./Airport Way Grade Separation

**Map ID:** 2  
**Project Type:** Road  
**Operation Area:** PDX/PIC  
**Project Description:** Construct grade-separated overcrossing.

**Time Frame (Years):** 5 years

**Total Cost:** \$87,000,000  
**Year of Cost Estimate:** 2018

**Federal:**

**State:**

**City:** \$5,000,000

**SDC:**

**Port Share**

**Committed:**

**Port Share**

**Forecasted:**

**Private:**

**Other:**

**Unfunded:** \$82,000,000

**Purpose:** Provide efficient movement of traffic to PDX properties.

**MW NUM:** 700261

**RTP Related:** 10362

**Recent Study:** Airport Futures Transportation Impact Study (2010)

**Port Strategic Area:** Deliver an Outstanding PDX Passenger Experience

- RTP 2045 Illustrative
- RTP 2045 Constrained
- Conditioned Project
- Identified in STIP

## Project Name: Airport Way Rehabilitation - West

**Map ID:** 3  
**Project Type:** Road  
**Operation Area:** PDX/PIC  
**Project Description:** Rehabilitate Airport Way West of 82nd - east and west and make improvements to pedestrian and traffic flow at the intersection of NE 82nd & Air Cargo Rd and NE 82nd & Airport Way.

**Purpose:** The project will improve Airport Way west of 82nd and will improve traffic flow at 82nd Avenue, Air Cargo Road and Airport Way.

**MW NUM:** 700851

**RTP Related:**

**Recent Study:**

**Port Strategic Area:** Deliver an Outstanding PDX Passenger Experience

- RTP 2045 Illustrative
- RTP 2045 Constrained
- Conditioned Project
- Identified in STIP

**Total Cost:** \$11,700,000  
**Year of Cost Estimate:** 2019

**Federal:**

**State:**

**City:**

**SDC:**

**Port Share**

**Committed:**

**Port Share**

**Forecasted:**

**Private:**

**Other:**

**Unfunded:** \$11,700,000

## Project Name: PDX Runway Seismic Retrofit

**Map ID:** 4  
**Project Type:** Aviation  
**Operation Area:** PDX/PIC  
**Project Description:** The runway at PDX and associated taxiways, aprons, nav aids and lighting will be retrofitted for a seismic event.

**Purpose:** Provide a seismically resilient runway at PDX.

**MW NUM:** 701091

**RTP Related:**

**Recent Study:**

**Port Strategic Area:** Deliver an Outstanding PDX Passenger Experience

- RTP 2045 Illustrative
- RTP 2045 Constrained
- Conditioned Project
- Identified in STIP

**Total Cost:** \$150,151,000  
**Year of Cost Estimate:** 2017

**Federal:**

**State:**

**City:**

**SDC:**

**Port Share**

**Committed:**

**Port Share**

**Forecasted:**

**Private:**

**Other:**

**Unfunded:** \$150,151,000

## Project Name: Tri Met Double Track

**Map ID:** 5  
**Project Type:** Rail  
**Operation Area:** PDX/PIC  
**Project Description:** Construct a second track west of 82nd where only one exists today and extend Red Line service beyond Beaverton to Hillsboro.

**Time Frame (Years):** 10 years

**Total Cost:** \$200,000,000

**Year of Cost Estimate:** 2019

**Federal:** \$100,000,000

**State:**

**City:**

**SDC:**

**Port Share**

**Committed:**

**Port Share**

**Forecasted:**

**Private:**

**Other:** \$100,000,000

**Unfunded:**

**Purpose:** Assure more on-time reliability and safety.

**MW NUM:**

**RTP Related:** 10922

**Recent Study:**

**Port Strategic Area:** Deliver an Outstanding PDX Passenger Experience

RTP 2045 Illustrative

Conditioned Project

RTP 2045 Constrained

Identified in STIP

## Project Name: Tri Met Double Track Bike/Ped Path

**Map ID:** 6  
**Project Type:** Bike/Ped  
**Operation Area:** PDX/PIC  
**Project Description:** Construct a multi-use path on the north side of Air Cargo Road between the MAX platform and the PDX Travel Center.

**Time Frame (Years):** 5 years

**Total Cost:** \$2,000,000

**Year of Cost Estimate:** 2019

**Federal:**

**State:**

**City:**

**SDC:**

**Port Share**

**Committed:**

**Port Share**

**Forecasted:** \$2,000,000

**Private:**

**Other:**

**Unfunded:**

**Purpose:** Provide a safe facility for pedestrians and bicyclists.

**MW NUM:** 701164

**RTP Related:**

**Recent Study:**

**Port Strategic Area:** Deliver an Outstanding PDX Passenger Experience

RTP 2045 Illustrative

Conditioned Project

RTP 2045 Constrained

Identified in STIP

## Project Name: Alderwood and Columbia Blvd. Intersection

<b>Map ID:</b> 7	<b>Time Frame (Years):</b> 5 years	<b>Total Cost:</b> \$5,058,349
<b>Project Type:</b> Road		<b>Year of Cost Estimate:</b> 2013
<b>Operation Area:</b> PDX/PIC		<b>Federal:</b> \$4,538,856
<b>Project Description:</b> Widen and signalize intersection on Columbia Boulevard at Alderwood Rd.		<b>State:</b>
		<b>City:</b>
		<b>SDC:</b>
<b>Purpose:</b> Provide transportation link to the cargo area located within the south airport area and to support Columbia Corridor freight movement.		<b>Port Share Committed:</b> \$519,493
<b>MW NUM:</b> 700652		<b>Port Share Forecasted:</b>
<b>RTP Related:</b> 11570		<b>Private:</b>
<b>Recent Study:</b> Airport Futures Transportation Impact Study (2010)		<b>Other:</b>
<b>Port Strategic Area:</b> Connect People and Businesses to Markets		<b>Unfunded:</b>
<input checked="" type="checkbox"/> RTP 2045 Illustrative	<input checked="" type="checkbox"/> Conditioned Project	
<input checked="" type="checkbox"/> RTP 2045 Constrained	<input checked="" type="checkbox"/> Identified in STIP	

## Project Name: Cully Blvd. and Columbia Blvd. Intersection

<b>Map ID:</b> 8	<b>Time Frame (Years):</b> 5 years	<b>Total Cost:</b> \$6,575,000
<b>Project Type:</b> Road		<b>Year of Cost Estimate:</b> 2013
<b>Operation Area:</b> PDX/PIC		<b>Federal:</b>
<b>Project Description:</b> Widen and signalize intersection on Columbia Boulevard at Cully Blvd.		<b>State:</b>
		<b>City:</b>
		<b>SDC:</b>
<b>Purpose:</b> Provide transportation link to the cargo area located within the south airport area and to support Columbia Corridor freight movement.		<b>Port Share Committed:</b>
<b>MW NUM:</b>		<b>Port Share Forecasted:</b>
<b>RTP Related:</b> 10336		<b>Private:</b>
<b>Recent Study:</b> Airport Futures Transportation Impact Study (2010)		<b>Other:</b>
<b>Port Strategic Area:</b> Connect People and Businesses to Markets		<b>Unfunded:</b> \$6,575,000
<input checked="" type="checkbox"/> RTP 2045 Illustrative	<input type="checkbox"/> Conditioned Project	
<input checked="" type="checkbox"/> RTP 2045 Constrained	<input type="checkbox"/> Identified in STIP	



## Project Name: Alderwood Street Bikeway

<b>Map ID:</b> 9	<b>Time Frame (Years):</b> 5 years	<b>Total Cost:</b> \$2,500,000
<b>Project Type:</b> Bike/Ped		<b>Year of Cost Estimate:</b> 2017
<b>Operation Area:</b> PDX/PIC		<b>Federal:</b>
<b>Project Description:</b> Provide bike lanes or pathway on Alderwood Road between Columbia Blvd. and the Alderwood Trail.		<b>State:</b>
		<b>City:</b>
		<b>SDC:</b>
<b>Purpose:</b> Improve safety and provide better separation from motor vehicle traffic.		<b>Port Share Committed:</b>
		<b>Port Share Forecasted:</b>
<b>MW NUM:</b>		<b>Private:</b>
<b>RTP Related:</b> 10338		<b>Other:</b>
<b>Recent Study:</b> 2014 Airport Bike and Pedestrian Master Plan		<b>Unfunded:</b> \$2,500,000
<b>Port Strategic Area:</b> Connect People and Businesses to Markets		
<input checked="" type="checkbox"/> RTP 2045 Illustrative	<input type="checkbox"/> Conditioned Project	
<input checked="" type="checkbox"/> RTP 2045 Constrained	<input type="checkbox"/> Identified in STIP	

## Project Name: PDX Transportation Demand Management (TDM)

<b>Map ID:</b> 10	<b>Time Frame (Years):</b> 5 years	<b>Total Cost:</b> \$2,000,000
<b>Project Type:</b> Other		<b>Year of Cost Estimate:</b>
<b>Operation Area:</b> PDX/PIC		<b>Federal:</b>
<b>Project Description:</b> 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 bus shuttle through Tri Met.		<b>State:</b>
		<b>City:</b>
		<b>SDC:</b>
<b>Purpose:</b> Fulfill TDM requirements of PDX Master Plan. Implement TDM projects and programs recommended in the PDX Alternative Modes Study.		<b>Port Share Committed:</b>
		<b>Port Share Forecasted:</b>
<b>MW NUM:</b>		<b>Private:</b>
<b>RTP Related:</b>		<b>Other:</b>
<b>Recent Study:</b> PDX Employee TDM Program Study (2002)		<b>Unfunded:</b> \$2,000,000
<b>Port Strategic Area:</b> Promote Excellence in Organizational Effectiveness		
<input type="checkbox"/> RTP 2045 Illustrative	<input type="checkbox"/> Conditioned Project	
<input type="checkbox"/> RTP 2045 Constrained	<input type="checkbox"/> Identified in STIP	







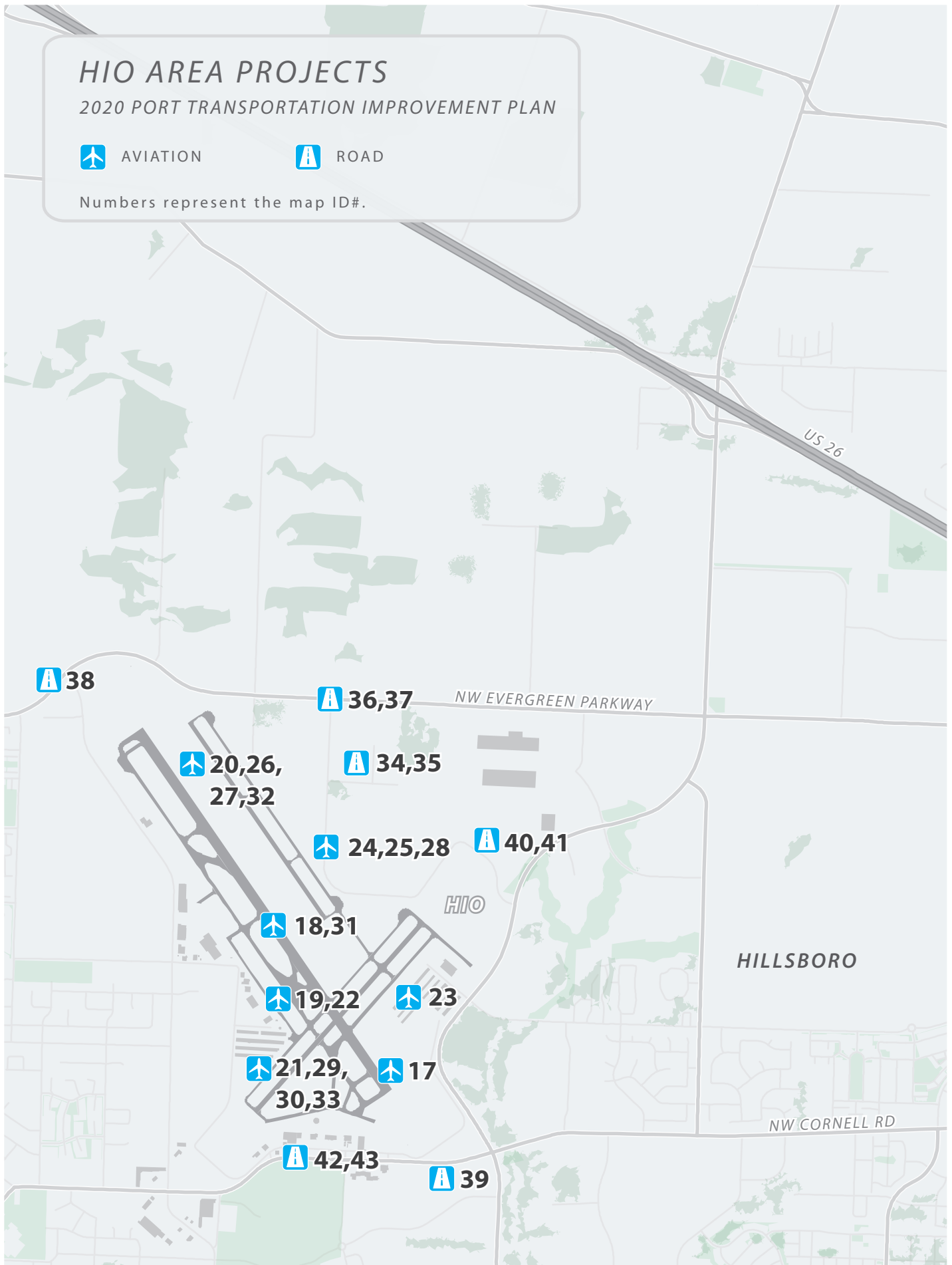
# HIO AREA PROJECTS

2020 PORT TRANSPORTATION IMPROVEMENT PLAN

 AVIATION

 ROAD

Numbers represent the map ID#.



## Project Name: HIO Taxiway A Reconstruction

**Map ID:** 17  
**Project Type:** Aviation  
**Operation Area:** Hillsboro  
**Project Description:** Rehabilitate full length parallel Taxiway A and select connectors including drainage, lighting, and markings. Addresses locations identified by FAA's Runway Incursion Mitigation program.

**Purpose:** Provide improvements identified in HIO 2006 and 2018 Master Plans.

**MW NUM:** 700494

**RTP Related:**

**Recent Study:** HIO 2018 Master Plan

**Port Strategic Area:** Connect People and Businesses to Markets

- RTP 2045 Illustrative
- RTP 2045 Constrained
- Conditioned Project
- Identified in STIP

**Total Cost:** \$14,500,000  
**Year of Cost Estimate:** 2018

**Federal:** \$10,150,000

**State:**

**City:**

**SDC:**

**Port Share Committed:**

**Port Share**

**Forecasted:** \$4,350,000

**Private:**

**Other:**

**Unfunded:**

## Project Name: HIO 13R-31L RSA Modifications

**Map ID:** 18  
**Project Type:** Aviation  
**Operation Area:** Hillsboro  
**Project Description:** Implement modifications to correct non-standard grading conditions and reduce waterfowl habitat in the runway safety area.

**Purpose:** Modify and mitigate for non-standard grading conditions and water features in the runway safety area.

**MW NUM:** 700970

**RTP Related:**

**Recent Study:**

**Port Strategic Area:** Connect People and Businesses to Markets

- RTP 2045 Illustrative
- RTP 2045 Constrained
- Conditioned Project
- Identified in STIP

**Total Cost:** \$21,200,000  
**Year of Cost Estimate:** 2018

**Federal:** \$14,840,000

**State:**

**City:**

**SDC:**

**Port Share Committed:**

**Port Share**

**Forecasted:** \$6,360,000

**Private:**

**Other:**

**Unfunded:**

## Project Name: HIO Relocate Taxiway AA

<b>Map ID:</b> 19	<b>Time Frame (Years):</b> 20 years	<b>Total Cost:</b> \$7,300,000
<b>Project Type:</b> Aviation		<b>Year of Cost Estimate:</b> 2018
<b>Operation Area:</b> Hillsboro		<b>Federal:</b> \$5,110,000
<b>Project Description:</b> Relocate Taxiway AA 122 feet to the east and extend from Exit A5 to Taxiway G.		<b>State:</b>
		<b>City:</b>
		<b>SDC:</b>
<b>Purpose:</b> Replace existing Taxiway AA with a new taxiway with the appropriate design separation from Taxiway A. Construct a perimeter road extension between Taxiway AA and existing tenant ramps.		<b>Port Share Committed:</b>
<b>MW NUM:</b> 700222		<b>Port Share Forecasted:</b> \$2,190,000
<b>RTP Related:</b>		<b>Private:</b>
<b>Recent Study:</b> HIO 2018 Master Plan		<b>Other:</b>
<b>Port Strategic Area:</b> Connect People and Businesses to Markets		<b>Unfunded:</b>
<input type="checkbox"/> RTP 2045 Illustrative <input type="checkbox"/> Conditioned Project		
<input type="checkbox"/> RTP 2045 Constrained <input type="checkbox"/> Identified in STIP		

## Project Name: HIO Crossfield Taxiways

<b>Map ID:</b> 20	<b>Time Frame (Years):</b> 5 years	<b>Total Cost:</b> \$3,663,000
<b>Project Type:</b> Aviation		<b>Year of Cost Estimate:</b> 2018
<b>Operation Area:</b> Hillsboro		<b>Federal:</b>
<b>Project Description:</b> Construct a new crossfield Taxiway.		<b>State:</b>
		<b>City:</b>
		<b>SDC:</b>
<b>Purpose:</b> Provide better taxiway circulation.		<b>Port Share Committed:</b>
<b>MW NUM:</b>		<b>Port Share Forecasted:</b>
<b>RTP Related:</b>		<b>Private:</b>
<b>Recent Study:</b> HIO 2018 Master Plan		<b>Other:</b>
<b>Port Strategic Area:</b> Connect People and Businesses to Markets		<b>Unfunded:</b> \$3,663,000
<input type="checkbox"/> RTP 2045 Illustrative <input type="checkbox"/> Conditioned Project		
<input type="checkbox"/> RTP 2045 Constrained <input type="checkbox"/> Identified in STIP		

## Project Name: HIO Construct Terminal Apron

**Map ID:** 21  
**Project Type:** Aviation  
**Operation Area:** Hillsboro  
**Project Description:** Construct a new apron on the airside of the new terminal building, along with new stormwater infrastructure.

**Time Frame (Years):** 10 years

**Total Cost:** \$5,086,000  
**Year of Cost Estimate:** 2018

**Federal:**  
**State:**  
**City:**  
**SDC:**

**Purpose:** Provide new apron to serve new terminal building.

**MW NUM:**

**RTP Related:**

**Recent Study:** HIO 2018 Master Plan

**Port Strategic Area:** Connect People and Businesses to Markets

- RTP 2045 Illustrative
- RTP 2045 Constrained
- Conditioned Project
- Identified in STIP

**Port Share Committed:**  
**Port Share Forecasted:**  
**Private:**  
**Other:**  
**Unfunded:** \$5,086,000

## Project Name: HIO Taxiway A6 Improvements

**Map ID:** 22  
**Project Type:** Aviation  
**Operation Area:** Hillsboro  
**Project Description:** Reconfigure Taxiway A6.

**Time Frame (Years):** 10 years

**Total Cost:** \$882,000  
**Year of Cost Estimate:** 2018

**Federal:**  
**State:**  
**City:**  
**SDC:**

**Purpose:** Provide pilots with enhanced situational awareness as they transition from the runway to the taxiway and to eliminate direct access from apron areas to the runway.

**MW NUM:**

**RTP Related:**

**Recent Study:** HIO 2018 Master Plan

**Port Strategic Area:** Connect People and Businesses to Markets

- RTP 2045 Illustrative
- RTP 2045 Constrained
- Conditioned Project
- Identified in STIP

**Port Share Committed:**  
**Port Share Forecasted:**  
**Private:**  
**Other:**  
**Unfunded:** \$882,000



## Project Name: HIO Taxiway B2 Relocation

**Map ID:** 23  
**Project Type:** Aviation  
**Operation Area:** Hillsboro  
**Project Description:** Relocate Taxiway B2.

**Time Frame (Years):** 20 years

**Total Cost:** \$881,000  
**Year of Cost Estimate:** 2018

**Federal:**  
**State:**

**City:**

**SDC:**

**Purpose:** Eliminate direct access to Runway 2-20 from the east side T-hangers.

**Port Share Committed:**

**Port Share Forecasted:**

**Private:**

**Other:**

**Unfunded:** \$881,000

**MW NUM:**

**RTP Related:**

**Recent Study:** HIO 2018 Master Plan

**Port Strategic Area:** Connect People and Businesses to Markets

- RTP 2045 Illustrative
- RTP 2045 Constrained
- Conditioned Project
- Identified in STIP

## Project Name: HIO Northside Taxilane and Enabling Infrastructure (Phase I)

**Map ID:** 24  
**Project Type:** Aviation  
**Operation Area:** Hillsboro  
**Project Description:** Construct taxilane parallel to Taxiway D in the North quadrant.

**Time Frame (Years):** 20 years

**Total Cost:** \$2,175,000  
**Year of Cost Estimate:** 2018

**Federal:**

**State:**

**City:**

**SDC:**

**Purpose:** Provide access from the planned flight school development parcel to the airfield.

**Port Share Committed:**

**Port Share Forecasted:**

**Private:**

**Other:**

**Unfunded:** \$2,175,000

**MW NUM:**

**RTP Related:**

**Recent Study:** HIO 2018 Master Plan

**Port Strategic Area:** Connect People and Businesses to Markets

- RTP 2045 Illustrative
- RTP 2045 Constrained
- Conditioned Project
- Identified in STIP

## Project Name: HIO Runup Pad Construction on Taxiway D

<b>Map ID:</b> 25	<b>Time Frame (Years):</b> 20 years	<b>Total Cost:</b> \$1,225,000
<b>Project Type:</b> Aviation		<b>Year of Cost Estimate:</b> 2018
<b>Operation Area:</b> Hillsboro		<b>Federal:</b>
<b>Project Description:</b> Expand the existing runup pads adjacent to Taxiway D near each end of Runway 31L-31R.		<b>State:</b>
		<b>City:</b>
		<b>SDC:</b>
<b>Purpose:</b> Allow aircraft to perform pre-takeoff checks without blocking access to runway ends.		<b>Port Share Committed:</b>
		<b>Port Share Forecasted:</b>
<b>MW NUM:</b>		<b>Private:</b>
<b>RTP Related:</b>		<b>Other:</b>
<b>Recent Study:</b> HIO 2018 Master Plan		<b>Unfunded:</b> \$1,225,000
<b>Port Strategic Area:</b> Connect People and Businesses to Markets		
<input type="checkbox"/> RTP 2045 Illustrative	<input type="checkbox"/> Conditioned Project	
<input type="checkbox"/> RTP 2045 Constrained	<input type="checkbox"/> Identified in STIP	

## Project Name: HIO Vehicle Service Road Construction

<b>Map ID:</b> 26	<b>Time Frame (Years):</b> 20 years	<b>Total Cost:</b> \$1,950,000
<b>Project Type:</b> Aviation		<b>Year of Cost Estimate:</b> 2018
<b>Operation Area:</b> Hillsboro		<b>Federal:</b>
<b>Project Description:</b> Construct vehicle service roads to Airport locations.		<b>State:</b>
		<b>City:</b>
		<b>SDC:</b>
<b>Purpose:</b> Improve and realign vehicle service road in the West quadrant for compatibility with general aviation development.		<b>Port Share Committed:</b>
		<b>Port Share Forecasted:</b>
<b>MW NUM:</b>		<b>Private:</b>
<b>RTP Related:</b>		<b>Other:</b>
<b>Recent Study:</b> HIO 2018 Master Plan		<b>Unfunded:</b> \$1,950,000
<b>Port Strategic Area:</b> Connect People and Businesses to Markets		
<input type="checkbox"/> RTP 2045 Illustrative	<input type="checkbox"/> Conditioned Project	
<input type="checkbox"/> RTP 2045 Constrained	<input type="checkbox"/> Identified in STIP	





## Project Name: HIO Taxiway E- Middle Portion

**Map ID:** 31 **Time Frame (Years):** 20 years  
**Project Type:** Aviation  
**Operation Area:** Hillsboro  
**Project Description:** Connect taxiways to Runway 13R-31L.

**Total Cost:** \$7,488,000  
**Year of Cost Estimate:** 2018

**Federal:**  
**State:**

**City:**

**SDC:**

**Purpose:** Second phase to the new parallel taxiway between the parallel runways.

**Port Share Committed:**

**Port Share Forecasted:**

**Private:**

**Other:**

**Unfunded:** \$7,488,000

**MW NUM:**

**RTP Related:**

**Recent Study:** HIO 2018 Master Plan

**Port Strategic Area:** Connect People and Businesses to Markets

- RTP 2045 Illustrative
- RTP 2045 Constrained
- Conditioned Project
- Identified in STIP

## Project Name: HIO Taxiway E- North Connector

**Map ID:** 32 **Time Frame (Years):** 20 years  
**Project Type:** Aviation  
**Operation Area:** Hillsboro  
**Project Description:** Connect the north ends of Runway 13R-31L and Runway 13L-31-R.

**Total Cost:** \$5,000,000  
**Year of Cost Estimate:** 2018

**Federal:**

**State:**

**City:**

**SDC:**

**Purpose:** Provide connectivity between the north end of the runways.

**Port Share Committed:**

**Port Share Forecasted:**

**Private:**

**Other:**

**Unfunded:** \$5,000,000

**MW NUM:**

**RTP Related:**

**Recent Study:** HIO 2018 Master Plan

**Port Strategic Area:** Connect People and Businesses to Markets

- RTP 2045 Illustrative
- RTP 2045 Constrained
- Conditioned Project
- Identified in STIP

## Project Name: HIO Taxiway B Extension

<b>Map ID:</b> 33	<b>Time Frame (Years):</b> 20 years	<b>Total Cost:</b> \$604,000
<b>Project Type:</b> Aviation		<b>Year of Cost Estimate:</b> 2018
<b>Operation Area:</b> Hillsboro		<b>Federal:</b>
<b>Project Description:</b> Extend Taxiway B beyond the end of Runway 2-20 to the flight museum.		<b>State:</b>
		<b>City:</b>
		<b>SDC:</b>
<b>Purpose:</b> Provide airside access to a proposed learning campus.		<b>Port Share Committed:</b>
		<b>Port Share Forecasted:</b>
<b>MW NUM:</b>		<b>Private:</b>
<b>RTP Related:</b>		<b>Other:</b>
<b>Recent Study:</b> HIO 2018 Master Plan		<b>Unfunded:</b> \$604,000
<b>Port Strategic Area:</b> Connect People and Businesses to Markets		
<input type="checkbox"/> RTP 2045 Illustrative	<input type="checkbox"/> Conditioned Project	
<input type="checkbox"/> RTP 2045 Constrained	<input type="checkbox"/> Identified in STIP	

## Project Name: NE 30th Avenue Extension to Flight School

<b>Map ID:</b> 34	<b>Time Frame (Years):</b> 20 years	<b>Total Cost:</b> \$2,109,000
<b>Project Type:</b> Road		<b>Year of Cost Estimate:</b> 2018
<b>Operation Area:</b> Hillsboro		<b>Federal:</b>
<b>Project Description:</b> Provide a roadway from NE 30th Avenue to the planned flight school and new general aviation development sites.		<b>State:</b>
		<b>City:</b>
		<b>SDC:</b>
<b>Purpose:</b> Will provide required landside access to the new flight school location.		<b>Port Share Committed:</b>
		<b>Port Share Forecasted:</b>
<b>MW NUM:</b>		<b>Private:</b>
<b>RTP Related:</b>		<b>Other:</b>
<b>Recent Study:</b> HIO 2018 Master Plan		<b>Unfunded:</b> \$2,109,000
<b>Port Strategic Area:</b> Connect People and Businesses to Markets		
<input type="checkbox"/> RTP 2045 Illustrative	<input type="checkbox"/> Conditioned Project	
<input type="checkbox"/> RTP 2045 Constrained	<input type="checkbox"/> Identified in STIP	



## **Project Name:** Intersection improvements at NE 30th Avenue and NE Evergreen Road

**Map ID:** 37  
**Project Type:** Road  
**Operation Area:** Hillsboro  
**Project Description:** Add turn lanes and signalization.

**Time Frame (Years):** 5 years

**Total Cost:** \$1,026,000  
**Year of Cost Estimate:** 2018

**Federal:**  
**State:**  
**City:**  
**SDC:**

**Purpose:** To enable non-aviation development of airport land not needed for aeronautical purposes.

**Port Share Committed:**  
**Port Share Forecasted:**  
**Private:**  
**Other:**  
**Unfunded:** \$1,026,000

**MW NUM:**

**RTP Related:**

**Recent Study:** HIO 2018 Master Plan

**Port Strategic Area:** Connect People and Businesses to Markets

- RTP 2045 Illustrative
- RTP 2045 Constrained
- Conditioned Project
- Identified in STIP

## **Project Name:** Relocate NE 25th Avenue

**Map ID:** 38  
**Project Type:** Road  
**Operation Area:** Hillsboro  
**Project Description:** Relocate NE 25th Avenue to the west.

**Time Frame (Years):** 10 years

**Total Cost:** \$3,203,000  
**Year of Cost Estimate:** 2018

**Federal:**  
**State:**  
**City:**  
**SDC:**

**Purpose:** Comply with FAA Runway Object Free Area requirements.

**Port Share Committed:**  
**Port Share Forecasted:**  
**Private:**  
**Other:**  
**Unfunded:** \$3,203,000

**MW NUM:**

**RTP Related:**

**Recent Study:** HIO 2018 Master Plan

**Port Strategic Area:** Connect People and Businesses to Markets

- RTP 2045 Illustrative
- RTP 2045 Constrained
- Conditioned Project
- Identified in STIP





## **Project Name: Intersection Improvements at NE Springer Street and NE Brookwood Parkway**

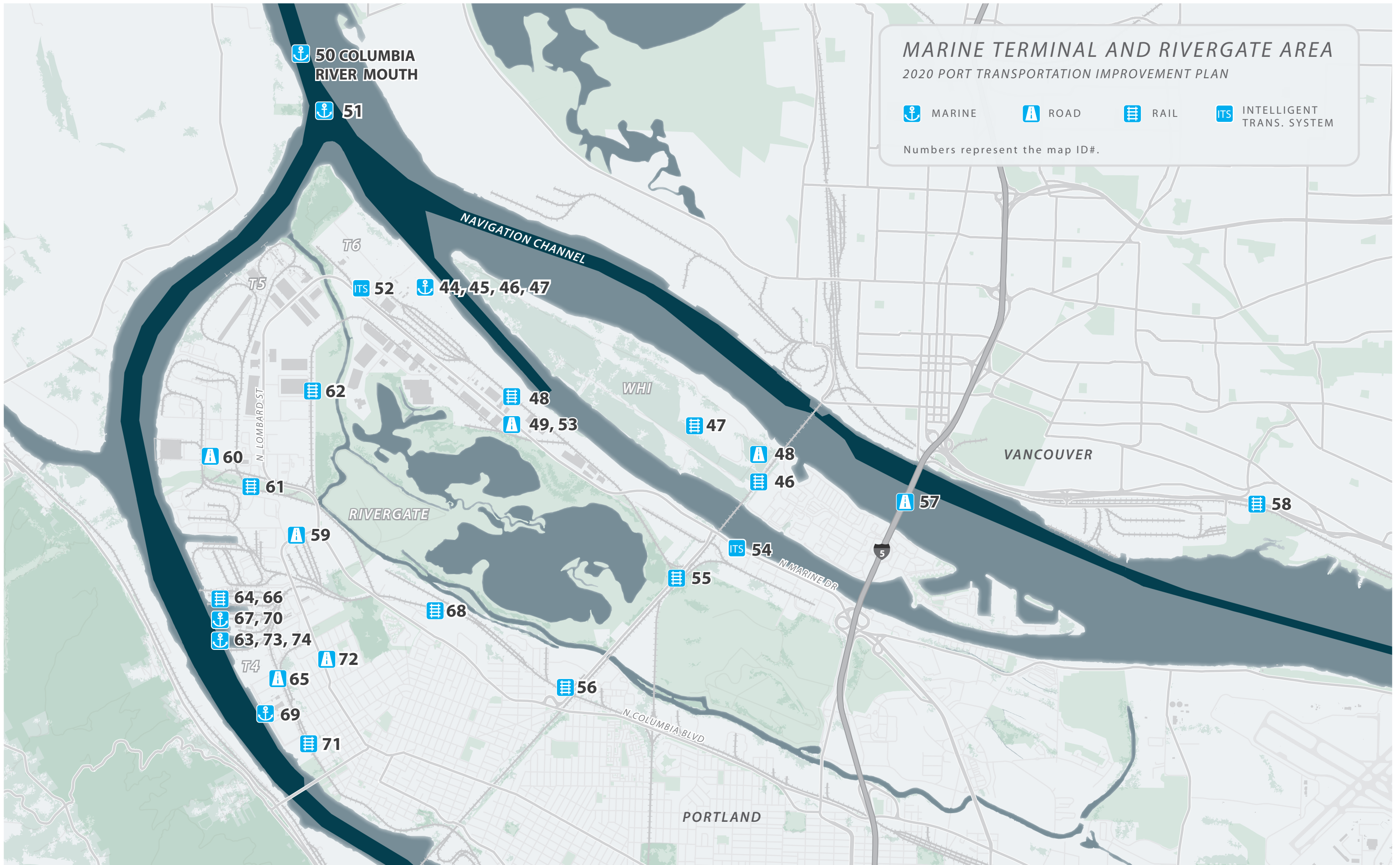
<b>Map ID:</b> 41	<b>Time Frame (Years):</b> 20 years	<b>Total Cost:</b> \$497,000
<b>Project Type:</b> Road		<b>Year of Cost Estimate:</b> 2018
<b>Operation Area:</b> Hillsboro		<b>Federal:</b>
<b>Project Description:</b> Construct improvements needed to accommodate the extension of Springer Street.		<b>State:</b>
		<b>City:</b>
		<b>SDC:</b>
<b>Purpose:</b> Facilitate development of Port industrial properties.		<b>Port Share Committed:</b>
		<b>Port Share Forecasted:</b>
<b>MW NUM:</b>		<b>Private:</b>
<b>RTP Related:</b>		<b>Other:</b>
<b>Recent Study:</b> HIO 2018 Master Plan		<b>Unfunded:</b> \$497,000
<b>Port Strategic Area:</b> Connect People and Businesses to Markets		
<input type="checkbox"/> RTP 2045 Illustrative	<input type="checkbox"/> Conditioned Project	
<input type="checkbox"/> RTP 2045 Constrained	<input type="checkbox"/> Identified in STIP	

## **Project Name: NE 34th Avenue and NE Cornell Road Improvements**

<b>Map ID:</b> 42	<b>Time Frame (Years):</b> 20 years	<b>Total Cost:</b> \$4,528,000
<b>Project Type:</b> Road		<b>Year of Cost Estimate:</b> 2018
<b>Operation Area:</b> Hillsboro		<b>Federal:</b>
<b>Project Description:</b> Construct intersection improvements at NE 34th and Cornell, as well as a roundabout north of the intersection.		<b>State:</b>
		<b>City:</b>
		<b>SDC:</b>
<b>Purpose:</b> Facilitate development of Port properties.		<b>Port Share Committed:</b>
		<b>Port Share Forecasted:</b>
<b>MW NUM:</b>		<b>Private:</b>
<b>RTP Related:</b>		<b>Other:</b>
<b>Recent Study:</b> HIO 2018 Master Plan		<b>Unfunded:</b> \$4,528,000
<b>Port Strategic Area:</b> Connect People and Businesses to Markets		
<input type="checkbox"/> RTP 2045 Illustrative	<input type="checkbox"/> Conditioned Project	
<input type="checkbox"/> RTP 2045 Constrained	<input type="checkbox"/> Identified in STIP	

# Project Name: Connect Phase II Loop Road to Cornell Road

<b>Map ID:</b> 43	<b>Time Frame (Years):</b> 20 years	<b>Total Cost:</b> \$2,533,000
<b>Project Type:</b> Road		<b>Year of Cost Estimate:</b> 2018
<b>Operation Area:</b> Hillsboro		<b>Federal:</b>
<b>Project Description:</b> Provide intersection improvements to connect interior loop road to NE Cornell Road.		<b>State:</b>
		<b>City:</b>
		<b>SDC:</b>
<b>Purpose:</b> Facilitate development of Port properties.		<b>Port Share Committed:</b>
		<b>Port Share Forecasted:</b>
<b>MW NUM:</b>		<b>Private:</b>
<b>RTP Related:</b>		<b>Other:</b>
<b>Recent Study:</b> HIO 2018 Master Plan		<b>Unfunded:</b> \$2,533,000
<b>Port Strategic Area:</b> Connect People and Businesses to Markets		
<input type="checkbox"/> RTP 2045 Illustrative	<input type="checkbox"/> Conditioned Project	
<input type="checkbox"/> RTP 2045 Constrained	<input type="checkbox"/> Identified in STIP	



## Project Name: T6 Crane Drives for Cranes 6380 and 6381

**Map ID:** 44  
**Project Type:** Marine  
**Operation Area:** Rivergate  
**Project Description:** Crane management system upgrades for Cranes 6380 and 6381.

**Time Frame (Years):** 5 years

**Total Cost:** \$2,800,000  
**Year of Cost Estimate:** 2018

**Federal:**  
**State:**

**City:**

**SDC:**

**Purpose:** Improve operational efficiencies for the container cranes.

**MW NUM:** 700953

**RTP Related:** 11207

**Recent Study:**

**Port Strategic Area:** Connect People and Businesses to Markets

- RTP 2045 Illustrative
- RTP 2045 Constrained
- Conditioned Project
- Identified in STIP

**Port Share Committed:**  
**Port Share Forecasted:**  
**Private:**  
**Other:**  
**Unfunded:** \$2,800,000

## Project Name: T6 Auto Terminal

**Map ID:** 45  
**Project Type:** Marine  
**Operation Area:** Rivergate  
**Project Description:** Pavement renewal, processing building, rail ramp and office.

**Time Frame (Years):** 5 years

**Total Cost:** \$35,000,000  
**Year of Cost Estimate:** 2017

**Federal:**  
**State:**

**City:**

**SDC:**

**Purpose:** Capture demand for mid level auto account.

**MW NUM:**

**RTP Related:**

**Recent Study:**

**Port Strategic Area:** Connect People and Businesses to Markets

- RTP 2045 Illustrative
- RTP 2045 Constrained
- Conditioned Project
- Identified in STIP

**Port Share Committed:**  
**Port Share Forecasted:**  
**Private:**  
**Other:**  
**Unfunded:** \$35,000,000

## Project Name: T6 Berth 603 Low Dock

**Map ID:** 46 **Time Frame (Years):** 5 years  
**Project Type:** Marine  
**Operation Area:** Rivergate  
**Project Description:** Modify existing berth for roll on-roll off (RORO) vessels.

**Purpose:** Capture demand for high and heavy cargo.

**MW NUM:**  
**RTP Related:**  
**Recent Study:**  
**Port Strategic Area:** Connect People and Businesses to Markets

- RTP 2045 Illustrative
- RTP 2045 Constrained
- Conditioned Project
- Identified in STIP

**Total Cost:** \$8,000,000  
**Year of Cost Estimate:** 2017  
**Federal:**  
**State:**  
**City:**  
**SDC:**  
**Port Share Committed:**  
**Port Share Forecasted:**  
**Private:**  
**Other:**  
**Unfunded:** \$8,000,000

## Project Name: T6 Electrical and Lighting Replacements

**Map ID:** 47 **Time Frame (Years):** 5 years  
**Project Type:** Marine  
**Operation Area:** Rivergate  
**Project Description:** Replace electrical feeders and equipment and high mast lighting.

**Purpose:** Modernize the electrical and lighting facilities at T6.

**MW NUM:** 701387  
**RTP Related:**  
**Recent Study:**  
**Port Strategic Area:** Connect People and Businesses to Markets

- RTP 2045 Illustrative
- RTP 2045 Constrained
- Conditioned Project
- Identified in STIP

**Total Cost:** \$8,700,000  
**Year of Cost Estimate:** 2019  
**Federal:**  
**State:**  
**City:**  
**SDC:**  
**Port Share Committed:**  
**Port Share Forecasted:**  
**Private:**  
**Other:**  
**Unfunded:** \$8,700,000

## Project Name: T6 Transload Site Development

**Map ID:** 48  
**Project Type:** Road  
**Operation Area:** Rivergate  
**Project Description:** Develop a 17 acre transload facility by creating a connection to Peninsula Terminal Railroad and a driveway under the Marine Drive bridge.

**Purpose:** Allow dual rail access to T6 and create additional industrial jobs.

**MW NUM:**

**RTP Related:** 11307  
**Recent Study:** Suttle Road Improvement Options (2008)  
**Port Strategic Area:** Connect People and Businesses to Markets

- RTP 2045 Illustrative
- RTP 2045 Constrained
- Conditioned Project
- Identified in STIP

**Total Cost:** \$3,325,000  
**Year of Cost Estimate:** 2018  
**Federal:**  
**State:**  
**City:**  
**SDC:**  
**Port Share Committed:**  
**Port Share Forecasted:**  
**Private:**  
**Other:**  
**Unfunded:** \$3,325,000

## Project Name: T6 Internal Roadway

**Map ID:** 49  
**Project Type:** Marine  
**Operation Area:** Rivergate  
**Project Description:** Provide road connection between Suttle Road site and T6 main yard.

**Purpose:** This will connect the main T6 yard to the Suttle Road development site.

**MW NUM:**

**RTP Related:**  
**Recent Study:**  
**Port Strategic Area:** Connect People and Businesses to Markets

- RTP 2045 Illustrative
- RTP 2045 Constrained
- Conditioned Project
- Identified in STIP

**Total Cost:** \$6,100,000  
**Year of Cost Estimate:** 2018  
**Federal:**  
**State:**  
**City:**  
**SDC:**  
**Port Share Committed:**  
**Port Share Forecasted:**  
**Private:**  
**Other:**  
**Unfunded:** \$6,100,000

## Project Name: Columbia River Mouth Jetty Refurbishment

<b>Map ID:</b> 50	<b>Time Frame (Years):</b> 5 years	<b>Total Cost:</b> \$239,000,000
<b>Project Type:</b> Marine		<b>Year of Cost Estimate:</b> 2016
<b>Operation Area:</b> Rivergate		<b>Federal:</b> \$50,000,000
<b>Project Description:</b> With Jetty A and North Jetty now complete, complete refurbishment of the South Jetty at the mouth of the Columbia River.		<b>State:</b>
		<b>City:</b>
		<b>SDC:</b>
<b>Purpose:</b> This is a critical repair of the jetties at the Columbia River Bar.		<b>Port Share Committed:</b>
		<b>Port Share Forecasted:</b>
<b>MW NUM:</b>		<b>Private:</b>
<b>RTP Related:</b>		<b>Other:</b>
<b>Recent Study:</b>		<b>Unfunded:</b> \$189,000,000
<b>Port Strategic Area:</b> Connect People and Businesses to Markets		
<input type="checkbox"/> RTP 2045 Illustrative	<input type="checkbox"/> Conditioned Project	
<input type="checkbox"/> RTP 2045 Constrained	<input type="checkbox"/> Identified in STIP	

## Project Name: Lower Columbia River Channel Maintenance Plan

<b>Map ID:</b> 51	<b>Time Frame (Years):</b> 5 years	<b>Total Cost:</b> \$1,500,000
<b>Project Type:</b> Marine		<b>Year of Cost Estimate:</b>
<b>Operation Area:</b> Rivergate		<b>Federal:</b>
<b>Project Description:</b> Assist the Army Corps to establish a federally required 20 year strategic plan to manage deposition of Columbia River dredge material from the navigation channel.		<b>State:</b>
		<b>City:</b>
		<b>SDC:</b>
<b>Purpose:</b> Ensure there is sufficient dredged material disposal capacity for a minimum of 20 years.		<b>Port Share Committed:</b>
		<b>Port Share Forecasted:</b>
<b>MW NUM:</b>		<b>Private:</b>
<b>RTP Related:</b>		<b>Other:</b>
<b>Recent Study:</b> 2003 Feasibility Report		<b>Unfunded:</b> \$1,500,000
<b>Port Strategic Area:</b> Connect People and Businesses to Markets		
<input type="checkbox"/> RTP 2045 Illustrative	<input type="checkbox"/> Conditioned Project	
<input type="checkbox"/> RTP 2045 Constrained	<input type="checkbox"/> Identified in STIP	





## Project Name: Marine Drive ITS Improvement

<b>Map ID:</b> 54	<b>Time Frame (Years):</b> 10 years	<b>Total Cost:</b> \$200,000
<b>Project Type:</b> ITS		<b>Year of Cost Estimate:</b> 2007
<b>Operation Area:</b> Rivergate		<b>Federal:</b>
<b>Project Description:</b> Install a CCTV at Portland Road and changeable message signs at N. Portland Road, North Vancouver Way and NE 185th Drive.		<b>State:</b>
		<b>City:</b>
		<b>SDC:</b>
<b>Purpose:</b> Improve traffic efficiency in the Columbia Corridor.		<b>Port Share Committed:</b>
		<b>Port Share Forecasted:</b>
<b>MW NUM:</b>		<b>Private:</b>
<b>RTP Related:</b> 10346		<b>Other:</b>
<b>Recent Study:</b> Columbia Multimodal Corridor Study 2012		<b>Unfunded:</b> \$200,000
<b>Port Strategic Area:</b> Connect People and Businesses to Markets		
<input checked="" type="checkbox"/> RTP 2045 Illustrative	<input type="checkbox"/> Conditioned Project	
<input checked="" type="checkbox"/> RTP 2045 Constrained	<input type="checkbox"/> Identified in STIP	

## Project Name: North Portland Junction

<b>Map ID:</b> 55	<b>Time Frame (Years):</b> 10 years	<b>Total Cost:</b> \$9,160,000
<b>Project Type:</b> Rail		<b>Year of Cost Estimate:</b> 2003
<b>Operation Area:</b> Rivergate		<b>Federal:</b>
<b>Project Description:</b> Upgrade railroad with revised crossovers, centralized traffic control tie-in and increased turning radius.		<b>State:</b>
		<b>City:</b>
		<b>SDC:</b>
<b>Purpose:</b> Accommodate higher rail speeds at the junction, which provides greater capacity.		<b>Port Share Committed:</b>
		<b>Port Share Forecasted:</b>
<b>MW NUM:</b>		<b>Private:</b>
<b>RTP Related:</b>		<b>Other:</b>
<b>Recent Study:</b> I-5 Rail Capacity Study (HDR, 2003)		<b>Unfunded:</b> \$9,160,000
<b>Port Strategic Area:</b> Connect People and Businesses to Markets		
<input type="checkbox"/> RTP 2045 Illustrative	<input type="checkbox"/> Conditioned Project	
<input type="checkbox"/> RTP 2045 Constrained	<input type="checkbox"/> Identified in STIP	

### Project Name: Kenton Rail Line Upgrade

**Map ID:** 56  
**Project Type:** Rail  
**Operation Area:** Rivergate  
**Project Description:** Upgrade existing track to second main track with new double track from Peninsula Junction to I-205 and increase track speeds between North Portland, Peninsula Junction, to Reynolds on UP's Kenton Line.

**Purpose:** Expand rail capacity and reduce delays for greater efficiency.

**MW NUM:**  
**RTP Related:**  
**Recent Study:** I-5 Rail Capacity Study (HDR, 2003)  
**Port Strategic Area:** Connect People and Businesses to Markets

- RTP 2045 Illustrative
- RTP 2045 Constrained
- Conditioned Project
- Identified in STIP

**Total Cost:** \$25,382,000  
**Year of Cost Estimate:** 2003  
**Federal:**  
**State:**  
**City:**  
**SDC:**  
**Port Share Committed:**  
**Port Share Forecasted:**  
**Private:**  
**Other:**  
**Unfunded:** \$25,382,000

### Project Name: I-5 Columbia River Bridge

**Map ID:** 57  
**Project Type:** Road  
**Operation Area:** Rivergate  
**Project Description:** Increase the number of lanes and add transit capacity across the river.

**Purpose:** Increase multi-modal capacity across the Columbia River and relieve congestion.

**MW NUM:**  
**RTP Related:** 10893  
**Recent Study:** I-5 Transportation and Trade Partnership Final Strategic Plan (2002)  
**Port Strategic Area:** Connect People and Businesses to Markets

- RTP 2045 Illustrative
- RTP 2045 Constrained
- Conditioned Project
- Identified in STIP

**Total Cost:** \$2,982,000,000  
**Year of Cost Estimate:** 2002  
**Federal:**  
**State:**  
**City:**  
**SDC:**  
**Port Share Committed:**  
**Port Share Forecasted:**  
**Private:**  
**Other:**  
**Unfunded:** \$2,982,000,000







## Project Name: T4 Berth 410, 411 Rail Yard Improvements

**Map ID:** 64  
**Project Type:** Rail  
**Operation Area:** Rivergate  
**Project Description:** Construct additional rail track in the Berth 410 and 411 rail yard.

**Time Frame (Years):** 10 years

**Total Cost:** \$7,800,000  
**Year of Cost Estimate:** 2015

**Federal:**  
**State:**

**City:**

**SDC:**

**Purpose:** Improve the efficiency of the rail yard by creating additional rail capacity.

**Port Share Committed:**  
**Port Share Forecasted:**

**MW NUM:** 102052

**RTP Related:**

**Recent Study:** Port Rail Plan

**Port Strategic Area:** Connect People and Businesses to Markets

- RTP 2045 Illustrative
- RTP 2045 Constrained
- Conditioned Project
- Identified in STIP

**Private:**  
**Other:**

**Unfunded:** \$7,800,000

## Project Name: T4 Second Entrance

**Map ID:** 65  
**Project Type:** Road  
**Operation Area:** Rivergate  
**Project Description:** Design and construct a second entrance to Terminal 4.

**Time Frame (Years):** 5 years

**Total Cost:** \$14,200,000  
**Year of Cost Estimate:** 2018

**Federal:**  
**State:**

**City:**

**SDC:**

**Purpose:** Support additional rail expansion at the terminal.

**Port Share Committed:**  
**Port Share Forecasted:**

**MW NUM:**

**RTP Related:**

**Recent Study:** Terminal 4 Pier 1 Facility Plan

**Port Strategic Area:** Connect People and Businesses to Markets

- RTP 2045 Illustrative
- RTP 2045 Constrained
- Conditioned Project
- Identified in STIP

**Private:**  
**Other:**

**Unfunded:** \$14,200,000

## Project Name: T4 Pier 1 Tracks 704-709

**Map ID:** 66 **Time Frame (Years):** 5 years  
**Project Type:** Marine  
**Operation Area:** Rivergate  
**Project Description:** Perform upgrades and rehabilitation on tracks 704-709.

**Total Cost:** \$1,000,000  
**Year of Cost Estimate:** 2018

**Federal:**  
**State:**

**City:**

**SDC:**

**Purpose:** Support rail car storage needs of Terminal 4 tenants

**Port Share Committed:**  
**Port Share Forecasted:**

**MW NUM:**

**RTP Related:** 11208

**Recent Study:** Port Rail Plan

**Port Strategic Area:** Connect People and Businesses to Markets

- RTP 2045 Illustrative
- RTP 2045 Constrained
- Conditioned Project
- Identified in STIP

**Private:**  
**Other:**

**Unfunded:** \$1,000,000

## Project Name: Terminal 4 Pier 1 Site Preparation

**Map ID:** 67 **Time Frame (Years):** 5 years  
**Project Type:** Marine  
**Operation Area:** Rivergate  
**Project Description:** Remove Berths 405 and 408, the grain leg platform and tower, and the grain elevator in the Pier 1 area of Terminal 4.

**Total Cost:** \$38,000,000  
**Year of Cost Estimate:** 2015

**Federal:**

**State:**

**City:**

**SDC:**

**Purpose:** This project will facilitate the redevelopment of approximately 30 acres of vital marine industrial property in the Portland Harbor.

**Port Share Committed:**  
**Port Share Forecasted:**

**MW NUM:** 701210, 701211, 701209

**RTP Related:** 11208

**Recent Study:** Terminal 4 Pier 1 Facility Plan (TEC Inc.)

**Port Strategic Area:** Drive Regional Prosperity

- RTP 2045 Illustrative
- RTP 2045 Constrained
- Conditioned Project
- Identified in STIP

**Private:**  
**Other:**

**Unfunded:** \$38,000,000



## Project Name: Barnes to Terminal 4 Rail

<b>Map ID:</b> 68	<b>Time Frame (Years):</b> 5 years	<b>Total Cost:</b> \$10,543,000
<b>Project Type:</b> Rail		<b>Year of Cost Estimate:</b> 2016
<b>Operation Area:</b> Rivergate		<b>Federal:</b>
<b>Project Description:</b> Provide a new track from Barnes Yard to Terminal 4. Includes replacement of Lombard Bridge.		<b>State:</b>
		<b>City:</b>
		<b>SDC:</b>
<b>Purpose:</b> Improve rail access to Terminal 4.		<b>Port Share Committed:</b>
		<b>Port Share Forecasted:</b>
<b>MW NUM:</b>		<b>Private:</b>
<b>RTP Related:</b> 11355		<b>Other:</b>
<b>Recent Study:</b> Marine Terminal Master Plan 2020 (2003)		<b>Unfunded:</b> \$10,543,000
<b>Port Strategic Area:</b> Drive Regional Prosperity		
<input checked="" type="checkbox"/> RTP 2045 Illustrative	<input type="checkbox"/> Conditioned Project	
<input checked="" type="checkbox"/> RTP 2045 Constrained	<input type="checkbox"/> Identified in STIP	

## Project Name: Terminal 4 Automobile Yard Expansion

<b>Map ID:</b> 69	<b>Time Frame (Years):</b> 10 years	<b>Total Cost:</b> \$3,000,000
<b>Project Type:</b> Marine		<b>Year of Cost Estimate:</b>
<b>Operation Area:</b> Rivergate		<b>Federal:</b>
<b>Project Description:</b> Design and construct six acres of porous pavement parking for the storage of imported automobiles.		<b>State:</b>
		<b>City:</b>
		<b>SDC:</b>
<b>Purpose:</b> The project will provide additional land to meet auto storage capacity needs of Toyota, supporting the Port's automobile import business line.		<b>Port Share Committed:</b>
		<b>Port Share Forecasted:</b>
<b>MW NUM:</b>		<b>Private:</b>
<b>RTP Related:</b>		<b>Other:</b>
<b>Recent Study:</b>		<b>Unfunded:</b> \$3,000,000
<b>Port Strategic Area:</b> Drive Regional Prosperity		
<input type="checkbox"/> RTP 2045 Illustrative	<input type="checkbox"/> Conditioned Project	
<input type="checkbox"/> RTP 2045 Constrained	<input type="checkbox"/> Identified in STIP	



## Project Name: St. Johns Pedestrian District

<b>Map ID:</b> 72	<b>Time Frame (Years):</b> 5 years	<b>Total Cost:</b> \$3,346,000
<b>Project Type:</b> Road		<b>Year of Cost Estimate:</b> 2005
<b>Operation Area:</b> Rivergate		<b>Federal:</b> \$3,002,365
<b>Project Description:</b> Improvements could include restriping, curb extensions and other pedestrian and bicycle amenities on Lombard St. that do not impede truck movement, as well as intersection improvements and signalization.		<b>State:</b>
		<b>City:</b> \$343,635
		<b>SDC:</b>
<b>Purpose:</b> Maintain truck movement and minimize conflicts with bicycles and pedestrians between Philadelphia Ave. and Lombard St. at Pier Park.		<b>Port Share Committed:</b>
		<b>Port Share Forecasted:</b>
<b>MW NUM:</b>		<b>Private:</b>
<b>RTP Related:</b> 10182		<b>Other:</b>
<b>Recent Study:</b> St. Johns Truck Strategy Report & Recommendation (2001)		<b>Unfunded:</b>
<b>Port Strategic Area:</b> Connect People and Businesses to Markets		
<input checked="" type="checkbox"/> RTP 2045 Illustrative	<input type="checkbox"/> Conditioned Project	
<input checked="" type="checkbox"/> RTP 2045 Constrained	<input type="checkbox"/> Identified in STIP	

## Project Name: Willamette River Channel Deepening

<b>Map ID:</b> 73	<b>Time Frame (Years):</b> 10 years	<b>Total Cost:</b> \$200,000,000
<b>Project Type:</b> Marine		<b>Year of Cost Estimate:</b>
<b>Operation Area:</b> Rivergate		<b>Federal:</b>
<b>Project Description:</b> Deepen the portions of the Willamette River with deep draft infrastructure to - 43' where appropriate.		<b>State:</b>
		<b>City:</b>
		<b>SDC:</b>
<b>Purpose:</b> To allow Willamette River terminals to benefit from the Columbia River's controlling depth. To follow maintenance to -40 feet.		<b>Port Share Committed:</b>
		<b>Port Share Forecasted:</b>
<b>MW NUM:</b>		<b>Private:</b>
<b>RTP Related:</b>		<b>Other:</b>
<b>Recent Study:</b>		<b>Unfunded:</b> \$200,000,000
<b>Port Strategic Area:</b> Connect People and Businesses to Markets		
<input type="checkbox"/> RTP 2045 Illustrative	<input type="checkbox"/> Conditioned Project	
<input type="checkbox"/> RTP 2045 Constrained	<input type="checkbox"/> Identified in STIP	

# Project Name: Berth Deepening at T4

**Map ID:** 74

**Time Frame (Years):** 10 years

**Total Cost:**

**Project Type:** Marine

**Year of Cost Estimate:**

**Operation Area:** Rivergate

**Federal:**

**Project Description:** Deepen berths at Terminal 4 to allow deeper draft vessels to transit the planned 43 foot channel. Tied to Willamette River Channel Deepening. Cost TBD.

**State:**

**City:**

**SDC:**

**Purpose:** Allow better utilization of Panamax-class bulk vessels.

**Port Share**

**Committed:**

**Port Share**

**Forecasted:**

**Private:**

**Other:**

**Unfunded:**

**MW NUM:** 101999

**RTP Related:**

**Recent Study:**

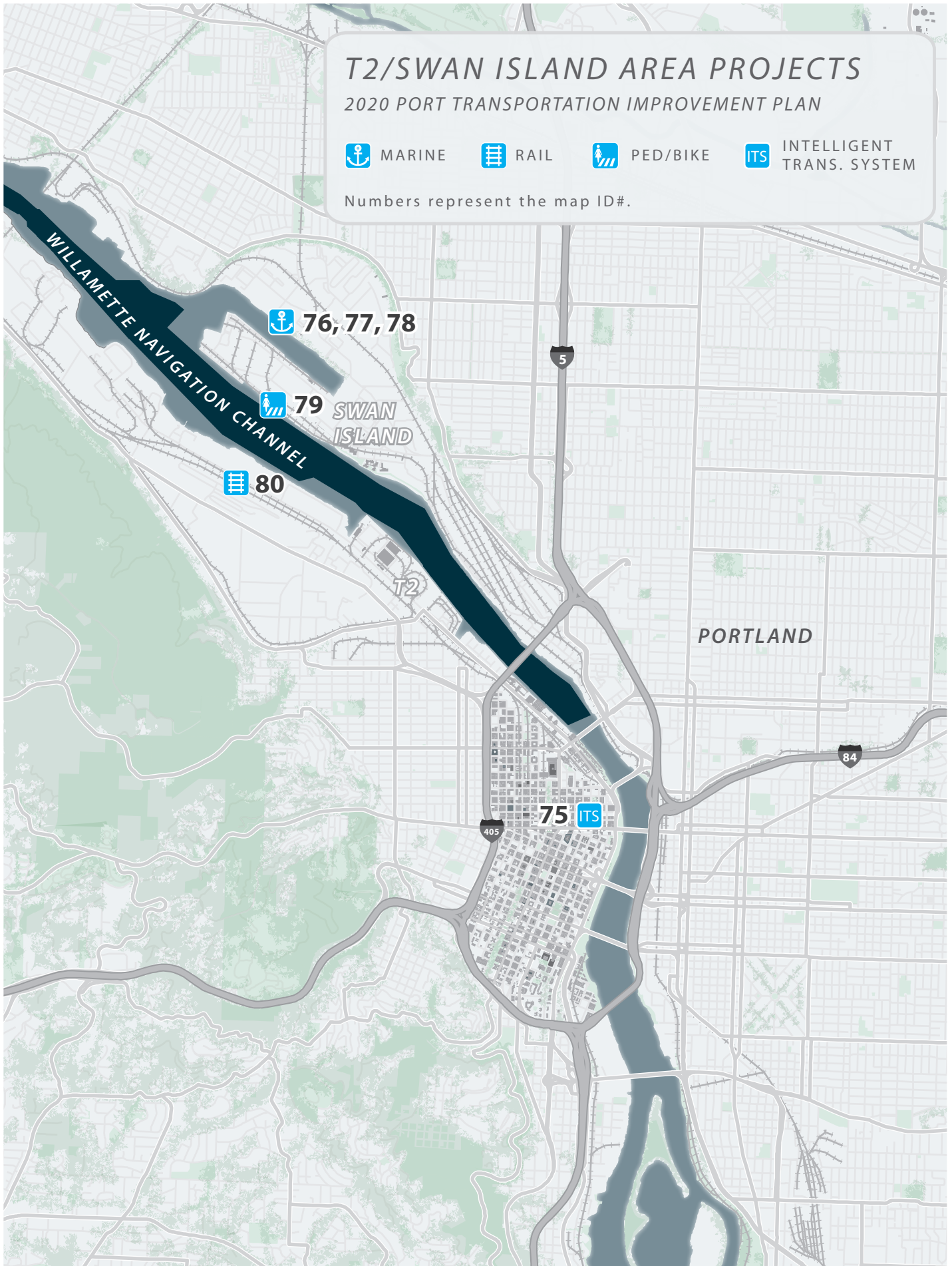
**Port Strategic Area:** Connect People and Businesses to Markets

RTP 2045 Illustrative

Conditioned Project

RTP 2045 Constrained

Identified in STIP



# T2/SWAN ISLAND AREA PROJECTS

2020 PORT TRANSPORTATION IMPROVEMENT PLAN

- MARINE
- RAIL
- PED/BIKE
- INTELLIGENT TRANS. SYSTEM

Numbers represent the map ID#.

MAP: Data and Geographic Services

## Project Name: PSU ITS Expansion

<b>Map ID:</b> 75	<b>Time Frame (Years):</b> 5 years	<b>Total Cost:</b>
<b>Project Type:</b> ITS		<b>Year of Cost Estimate:</b>
<b>Operation Area:</b> T2/Swan Island		<b>Federal:</b>
<b>Project Description:</b> Expand PSU's existing web based ITS "count sensor" program beyond the freeway to some key arterials throughout the region and create a repository of regional freight data.		<b>State:</b>
		<b>City:</b>
		<b>SDC:</b>
<b>Purpose:</b> To secure truck flow and congestion data.		<b>Port Share Committed:</b>
		<b>Port Share Forecasted:</b>
<b>MW NUM:</b>		<b>Private:</b>
<b>RTP Related:</b> 11104		<b>Other:</b>
<b>Recent Study:</b>		<b>Unfunded:</b>
<b>Port Strategic Area:</b> Connect People and Businesses to Markets		
<input checked="" type="checkbox"/> RTP 2045 Illustrative	<input type="checkbox"/> Conditioned Project	
<input checked="" type="checkbox"/> RTP 2045 Constrained	<input type="checkbox"/> Identified in STIP	

## Project Name: Dredge Oregon Pipe, Scows and pontoons

<b>Map ID:</b> 76	<b>Time Frame (Years):</b> 5 years	<b>Total Cost:</b> \$10,200,000
<b>Project Type:</b> Marine		<b>Year of Cost Estimate:</b> 2014
<b>Operation Area:</b> T2/Swan Island		<b>Federal:</b>
<b>Project Description:</b> Acquire 2,000 feet of dredge pipe, pontoons, anchor scows and anchors.		<b>State:</b>
		<b>City:</b>
		<b>SDC:</b>
<b>Purpose:</b> Allow Dredge Oregon to make full use of recent repower and pump material 14,000 feet.		<b>Port Share Committed:</b>
		<b>Port Share Forecasted:</b>
<b>MW NUM:</b> 700445		<b>Private:</b>
<b>RTP Related:</b>		<b>Other:</b>
<b>Recent Study:</b>		<b>Unfunded:</b> \$10,200,000
<b>Port Strategic Area:</b> Promote Excellence in Organizational Effectiveness		
<input type="checkbox"/> RTP 2045 Illustrative	<input type="checkbox"/> Conditioned Project	
<input type="checkbox"/> RTP 2045 Constrained	<input type="checkbox"/> Identified in STIP	



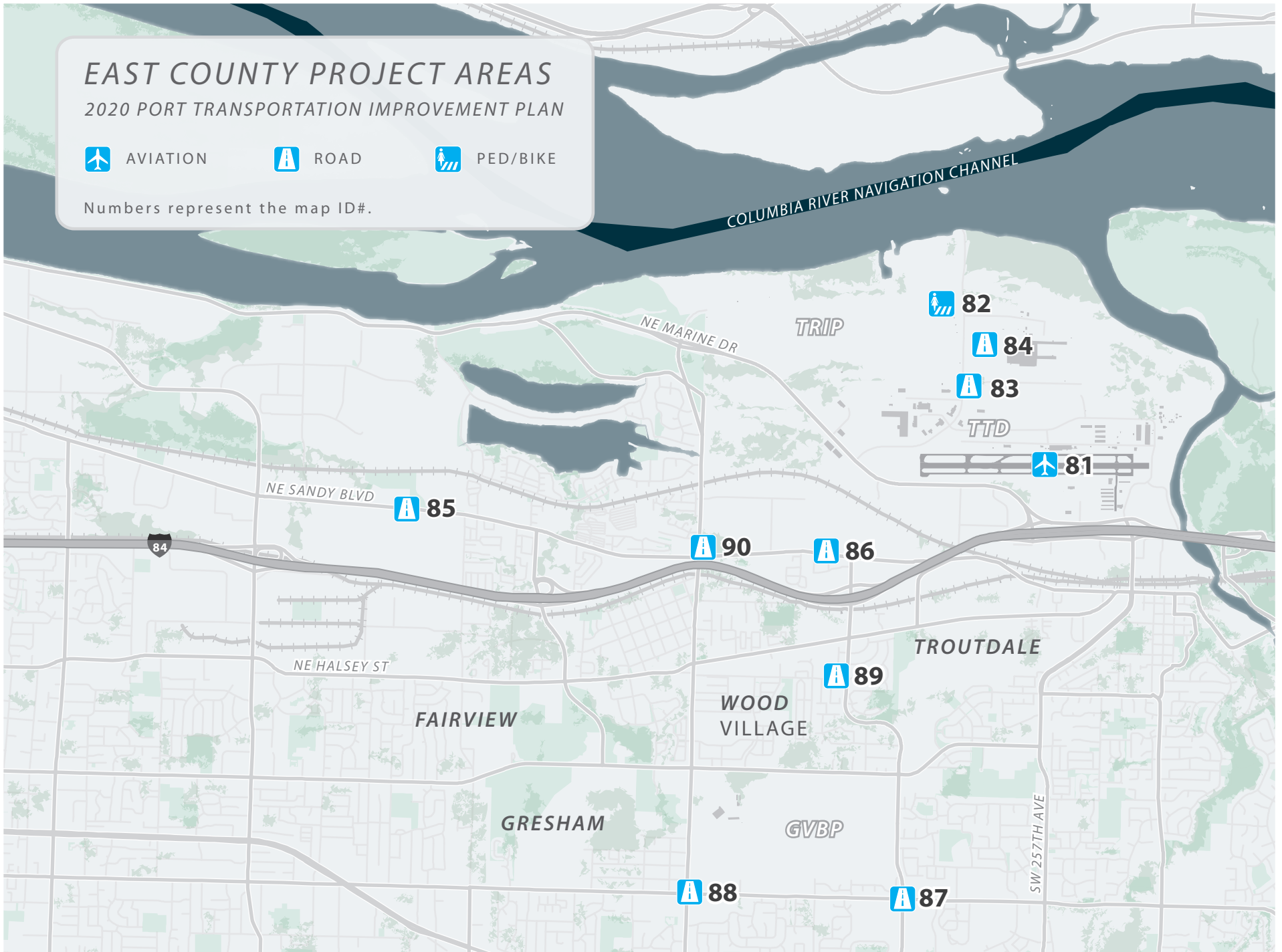
## Project Name: North Willamette Greenway Trail

<b>Map ID:</b> 79	<b>Time Frame (Years):</b> 20 years	<b>Total Cost:</b> \$500,000
<b>Project Type:</b> Bike/Ped		<b>Year of Cost Estimate:</b> 2007
<b>Operation Area:</b> T2/Swan Island		<b>Federal:</b>
<b>Project Description:</b> Pedestrian and bicycle trail from Kelly Point Park to the Steel Bridge along the Willamette River. The money associated for this project is for a study only.		<b>State:</b>
		<b>City:</b>
		<b>SDC:</b>
<b>Purpose:</b> Improve pedestrian and bicycle connectivity in North Portland. Coordinate implementation with the City of Portland.		<b>Port Share Committed:</b>
		<b>Port Share Forecasted:</b>
<b>MW NUM:</b>		<b>Private:</b>
<b>RTP Related:</b> 11643		<b>Other:</b>
<b>Recent Study:</b>		<b>Unfunded:</b> \$500,000
<b>Port Strategic Area:</b> Connect People and Businesses to Markets		
<input checked="" type="checkbox"/> RTP 2045 Illustrative	<input type="checkbox"/> Conditioned Project	
<input checked="" type="checkbox"/> RTP 2045 Constrained	<input type="checkbox"/> Identified in STIP	

## Project Name: Portland Terminal Railroad Power Switches

<b>Map ID:</b> 80	<b>Time Frame (Years):</b> 5 years	<b>Total Cost:</b> \$10,805,000
<b>Project Type:</b> Rail		<b>Year of Cost Estimate:</b> 2012
<b>Operation Area:</b> T2/Swan Island		<b>Federal:</b>
<b>Project Description:</b> Install Dispatcher Controlled Power Switches between Lake Yard and Terminal 2.		<b>State:</b>
		<b>City:</b>
		<b>SDC:</b>
<b>Purpose:</b> Will reduce blockage of mainline for BNSF, UPRR and Amtrak.		<b>Port Share Committed:</b>
		<b>Port Share Forecasted:</b>
<b>MW NUM:</b>		<b>Private:</b>
<b>RTP Related:</b>		<b>Other:</b>
<b>Recent Study:</b> Port Rail Plan		<b>Unfunded:</b> \$10,805,000
<b>Port Strategic Area:</b> Connect People and Businesses to Markets		
<input type="checkbox"/> RTP 2045 Illustrative	<input type="checkbox"/> Conditioned Project	
<input type="checkbox"/> RTP 2045 Constrained	<input type="checkbox"/> Identified in STIP	





MAP: Data and Geographic Services

### Project Name: TTD Reconstruct runway 7-25

<b>Map ID:</b> 81	<b>Time Frame (Years):</b> 5 years	<b>Total Cost:</b> \$22,100,000
<b>Project Type:</b> Aviation		<b>Year of Cost Estimate:</b> 2016
<b>Operation Area:</b> East County		<b>Federal:</b> \$15,470,000
<b>Project Description:</b> Reconstruct existing 150' x 5400' runway; narrow to 75' wide, reduce length to 4500', relocate/reconstruct edge lighting, construct required drainage improvements.		<b>State:</b>
		<b>City:</b>
		<b>SDC:</b>
<b>Purpose:</b> Project identified in 2016 TTD Master Plan.		<b>Port Share Committed:</b>
		<b>Port Share Forecasted:</b> \$6,630,000
<b>MW NUM:</b> 700429		<b>Private:</b>
<b>RTP Related:</b>		<b>Other:</b>
<b>Recent Study:</b> TTD 2016 Master Plan		<b>Unfunded:</b>
<b>Port Strategic Area:</b> Connect People and Businesses to Markets		
<input type="checkbox"/> RTP 2045 Illustrative	<input type="checkbox"/> Conditioned Project	
<input type="checkbox"/> RTP 2045 Constrained	<input type="checkbox"/> Identified in STIP	

### Project Name: 40 Mile Loop Trail: Blue Lake Park to Sundial Rd.

<b>Map ID:</b> 82	<b>Time Frame (Years):</b> 5 years	<b>Total Cost:</b> \$3,424,073
<b>Project Type:</b> Bike/Ped		<b>Year of Cost Estimate:</b> 2014
<b>Operation Area:</b> East County		<b>Federal:</b> \$3,072,421
<b>Project Description:</b> Construct a mixed use off road trail connecting Blue Lake Park and Sundial Road.		<b>State:</b>
		<b>City:</b> \$117,217
		<b>SDC:</b>
<b>Purpose:</b> Combined with the Port's Reynolds levee trail it will complete gaps in the 40 Mile Loop Trail.		<b>Port Share Committed:</b> \$234,435
<b>MW NUM:</b> 102069		<b>Port Share Forecasted:</b>
<b>RTP Related:</b> 12075		<b>Private:</b>
<b>Recent Study:</b>		<b>Other:</b>
<b>Port Strategic Area:</b> Connect People and Businesses to Markets		<b>Unfunded:</b>
<input checked="" type="checkbox"/> RTP 2045 Illustrative	<input type="checkbox"/> Conditioned Project	
<input checked="" type="checkbox"/> RTP 2045 Constrained	<input checked="" type="checkbox"/> Identified in STIP	



## Project Name: Sandy Blvd. Widening to 4 lanes

**Map ID:** 85  
**Project Type:** Road  
**Operation Area:** East County  
**Project Description:** Sandy Blvd. widen to 4 lanes and center turn lane (181st-202nd) with sidewalks and bike lanes.

**Purpose:** Improve east west capacity and serve developing industrial property.

**MW NUM:**

**RTP Related:** 10443

**Recent Study:**

**Port Strategic Area:** Connect People and Businesses to Markets

- RTP 2045 Illustrative
- RTP 2045 Constrained
- Conditioned Project
- Identified in STIP

**Total Cost:** \$10,000,000

**Year of Cost Estimate:**

**Federal:**

**State:**

**City:**

**SDC:**

**Port Share**

**Committed:**

**Port Share**

**Forecasted:**

**Private:**

**Other:**

**Unfunded:** \$10,000,000

## Project Name: Sandy Blvd. Widening to 3 lanes

**Map ID:** 86  
**Project Type:** Road  
**Operation Area:** East County  
**Project Description:** Sandy Blvd. widen to 3 lanes (207th to 238th), add sidewalks and bike lanes.

**Purpose:** Improve east-west capacity and serve adjacent developing industrial property.

**MW NUM:**

**RTP Related:** 10399

**Recent Study:**

**Port Strategic Area:** Connect People and Businesses to Markets

- RTP 2045 Illustrative
- RTP 2045 Constrained
- Conditioned Project
- Identified in STIP

**Total Cost:** \$7,438,000

**Year of Cost Estimate:**

**Federal:**

**State:**

**City:**

**SDC:**

**Port Share**

**Committed:**

**Port Share**

**Forecasted:**

**Private:**

**Other:**

**Unfunded:** \$7,438,000

## Project Name: NE Hogan at NE Stark Street

**Map ID:** 87  
**Project Type:** Road  
**Operation Area:** East County  
**Project Description:** Add right turn lanes on all approaches and second northbound and southbound left turn lanes.

**Purpose:** Address intersection capacity affecting access to Gresham Vista Business Park.

**MW NUM:**

**RTP Related:** 10511  
**Recent Study:** East Metro Connections Plan  
**Port Strategic Area:** Connect People and Businesses to Markets

- RTP 2045 Illustrative
- RTP 2045 Constrained
- Conditioned Project
- Identified in STIP

**Total Cost:** \$1,908,431  
**Year of Cost Estimate:** 2017  
**Federal:**  
**State:**  
**City:**  
**SDC:**  
**Port Share Committed:**  
**Port Share Forecasted:**  
**Private:**  
**Other:**  
**Unfunded:** \$1,908,431

## Project Name: NE 223rd at Stark

**Map ID:** 88  
**Project Type:** Road  
**Operation Area:** East County  
**Project Description:** Add eastbound and northbound right turn lanes and southbound left turn lanes.

**Purpose:** Address intersection capacity affecting access to Gresham Vista Business Park.

**MW NUM:**

**RTP Related:** 10473  
**Recent Study:** East Metro Connections Plan  
**Port Strategic Area:** Drive Regional Prosperity

- RTP 2045 Illustrative
- RTP 2045 Constrained
- Conditioned Project
- Identified in STIP

**Total Cost:** \$1,196,756  
**Year of Cost Estimate:** 2017  
**Federal:**  
**State:**  
**City:**  
**SDC:**  
**Port Share Committed:**  
**Port Share Forecasted:**  
**Private:**  
**Other:**  
**Unfunded:** \$1,196,756

## Project Name: NE 238th Drive: Halsey to Glisan

**Map ID:** 89  
**Project Type:** Road  
**Operation Area:** East County  
**Project Description:** Construct improvements for freight by modifying road curvature. Also adds improvements for bikes and pedestrians.

**Time Frame (Years):** 5 years

**Total Cost:** \$9,769,340  
**Year of Cost Estimate:** 2017

**Federal:** \$9,769,340

**State:**

**City:**

**SDC:**

**Purpose:** Will improve freight access to Gresham Vista Business Park.

**Port Share**

**Committed:**

**Port Share**

**Forecasted:**

**Private:**

**Other:**

**Unfunded:**

**MW NUM:**

**RTP Related:** 11373

**Recent Study:** East Metro Connections Plan

**Port Strategic Area:** Drive Regional Prosperity

RTP 2045 Illustrative

Conditioned Project

RTP 2045 Constrained

Identified in STIP

## Project Name: NE 223rd Avenue Widening

**Map ID:** 90  
**Project Type:** Road  
**Operation Area:** East County  
**Project Description:** Widen to three lanes between Halsey Street and Marine Drive.

**Time Frame (Years):** 5 years

**Total Cost:** \$4,437,809  
**Year of Cost Estimate:** 2017

**Federal:**

**State:**

**City:**

**SDC:**

**Purpose:** Upgrade the facility to major collector urban street standards.

**Port Share**

**Committed:**

**Port Share**

**Forecasted:**

**Private:**

**Other:**

**Unfunded:** \$4,437,809

**MW NUM:**

**RTP Related:** 10388, 10389

**Recent Study:**

**Port Strategic Area:** Connect People and Businesses to Markets

RTP 2045 Illustrative

Conditioned Project

RTP 2045 Constrained

Identified in STIP