



**MEMBERS:**

- City of Lacey
- City of Olympia
- City of Rainier
- City of Tenino
- City of Tumwater
- City of Yelm
- Confederated Tribes of the Chehalis Reservation
- Nisqually Indian Tribe
- Town of Bucoda
- Thurston County
- North Thurston Public Schools
- Olympia School District
- Tumwater School District
- Intercity Transit
- LOTT Clean Water Alliance
- Port of Olympia
- PUD No. 1 of Thurston County

**ASSOCIATE MEMBERS:**

- Lacey Fire District #3
- Puget Sound Regional Council
- The Evergreen State College
- Thurston Conservation District
- Thurston Economic Development Council
- Timberland Regional Library

**MEMORANDUM**

**TO:** Thurston Regional Planning Council

**FROM:** Theresa Julius, Transportation Modeler

**DATE:** August 28, 2020

**SUBJECT:** 2021 – 2024 Draft Regional Transportation Improvement Program (RTIP)

	Program Area	Mission Statement
X	MPO/RTPO	
	Core Services	
	Contract Services	
	Grant Services	

**PURPOSE**

Review and discuss the draft 2021 – 2024 Regional Transportation Improvement Program (RTIP), in preparation for adoption in October.

**Summary:**

- Thurston Regional Planning Council (TRPC) is responsible for developing an annual RTIP.
- The RTIP is a four-year programming document derived from local six-year Transportation Improvement Programs (TIP).
- The RTIP includes federally funded, state-sponsored and regionally significant projects. It is prepared annually to provide a list of funding secured projects (Tables 3 & 4), identify other secured and proposed transportation projects for the same period (Appendix A), and demonstrate air quality conformity (Appendix C).
- Table 3, a summary table of the funding secured projects that must be programmed into the RTIP and the State Transportation Improvement Program (STIP), is attached.
- Printed copies of the RTIP are available by calling (360) 956-7575 or email [info@trpc.org](mailto:info@trpc.org) in advance of the meeting. The complete draft is also available online at [www.trpc.org/RTIPdraft](http://www.trpc.org/RTIPdraft).
- The draft RTIP will undergo public review. The Transportation Policy Board's (TPB) recommendation and comments, with any public comments received, will be included in the staff report for TRPC at the October meeting.

**REQUESTED ACTION**

Review and discuss the draft 2021 – 2024 RTIP. This item will be brought to TRPC for action in October.

13:bm

Attachment



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## BACKGROUND

### **What is an RTIP?**

The Regional Transportation Improvement Program (RTIP) is prepared every year by Thurston Regional Planning Council (TRPC) in cooperation with local jurisdictions and the Washington State Department of Transportation (WSDOT). TRPC is designated the Metropolitan Planning Organization (MPO) for the Thurston region. The RTIP is a four-year programming document derived from the comprehensive six-year Transportation Improvement Programs (TIPs) that each local agency develops and adopts annually. In turn, the RTIP is used by the state to prepare the State Transportation Improvement Program (STIP).

The RTIP serves these main purposes:

- 1) It identifies a list of transportation projects that will be forwarded to the state for inclusion in the STIP. For federally funded projects, even if project funding has been awarded, it is not available to jurisdictions and agencies until the project is included in the STIP. To be included in the STIP, projects must be programmed for funding (funding-secured) in the Regional Transportation Improvement Program (RTIP) in the four-year period and meet one or more of the following criteria:
  - a. Have federal funding or have a high-level of certainty of federal funding within the duration of the current RTIP, as verified by the MPO.
  - b. Are WSDOT projects.
  - c. Are regionally significant, regardless of funding source.
- 2) It demonstrates financial constraint for the projects referenced above.
- 3) It demonstrates consistency with RCW 36.70A, Section 70 of the Washington State Growth Management Act requiring transportation planning to be coordinated and consistent with local comprehensive plans.
- 4) It demonstrates that regionally significant projects programmed for funding during the time period will not cause or contribute to any new violation of the federal air quality standards for particulate matter of 10 microns or less (PM<sub>10</sub>), will not increase the frequency or severity of any existing violation of the standards, nor delay timely attainment of the standards.
- 5) It identifies other programmed and planned transportation projects adopted in local six-year Transportation Improvement Programs.

Projects in the RTIP are presented in four phases, planning (PL), preliminary engineering and design (PE), right-of-way acquisition (RW), and construction (CN). Project phases included in each year's updated RTIP may vary as phases secure funding or are obligated.

### **Relating the RTIP to the Regional Transportation Plan**

The RTIP is a short-range implementation program of the priorities identified in the longer view of the 2045 Regional Transportation Plan (RTP), adopted by TRPC in July 2020.

The RTIP projects were reviewed for consistency with the RTP. While all the RTIP projects were found consistent with the 2045 Regional Transportation Plan, those which are "regionally significant" are individually identified in the RTP. These are major projects that influence travel patterns and traffic flows over large areas.

Though dubbed “regionally significant,” these are only part of the important transportation investments made in the region, as the RTIP shows. Projects like pavement preservation, system safety, intersection efficiency, sidewalk infill, on-street bike lanes, and shoulder upgrades – all found listed individually in the RTIP – are essential to the safe and efficient functioning of the transportation system and are consistent with the priorities expressed in the RTP. The complete list of projects provided in the RTIP, while consistent with the RTP, provides reviewers with a more specific picture than provided in the RTP, of the investments being made in the region’s transportation system.

**Public Comment**

While agencies held public hearings earlier this year on the local TIPs, public review and comment on the draft RTIP is also encouraged. Notices regarding the draft RTIP’s availability for comment will be published in The Olympian and posted on the TRPC website.

The draft RTIP will be sent to Transportation Technical Advisory Committee (TAC) members for their review and to staff at the following agencies:

- WSDOT
- Federal Highways Administration
- Federal Transit Administration
- WA State Department of Ecology
- US Environmental Protection Agency
- Puget Sound Regional Council
- Pierce County
- Mason County
- Grays Harbor County
- Lewis County
- Olympic Region Clean Air Agency
- Nisqually Tribe
- Confederated Tribes of the Chehalis Reservation
- Squaxin Tribe

All comments received during the public comment period will be included in the staff report to TRPC for your consideration when taking action in October. In addition, any project specific comment will be forwarded to the respective agency.

The draft RTIP will also be reviewed by the State’s Air Quality Consultation Group, comprised of representatives from the Washington State Departments of Ecology and Transportation, the US Environmental Protection Agency, and the Federal Highways and Transit Administrations. They will review the proposed conformity status for the RTIP. You will be notified of any substantive changes to the conformity findings based on this review.

The Transportation Policy Board will review the draft RTIP at their September meeting. Their recommendation will also be provided in the staff report to TRPC for consideration when taking action in October.

Table 3 from the RTIP is a summary table of the funding secured projects and is enclosed with this staff report. The complete text is available online. Printed copies of the complete text are available by request to TRPC at 2424 Heritage Court SW, Suite A, Olympia, WA 98502; (360) 956-7575.

Project Title & Description	Agency	Performance* Measure	Regionally Significant	RTP Project ID or ITS Arch.	Phase	Year	Federal Fund Code	Federal	State/Local	Total
<b>Pattison Maintenance and Operations Base Rehabilitation and Expansion</b>										
This project will complete improvements on the North parcel portion of the Pattison Maintenance, Operations and Administrative Base (MOA) Rehabilitation and Expansion project including the development of a new Administrative building, a new fuel, wash and maintenance facilities building, and remaining North parcel site improvements as required under the Development Permit. This is a multiyear project and the funding programmed reflects the funds within the span of the STIP.	Intercity Transit	18	No	T11	CN	2021	5307	\$3,820,000	\$955,000	\$4,775,000
					CN	2023	-	\$0	\$6,481,265	\$6,481,265
<b>Pattison MOA Rehabilitation, Expansion &amp; Modernization</b>										
This project will complete improvements and modernization of the Pattison Fleet Maintenance building, including pavement replacement, new stormwater system, and propane fueling station along with all remaining South parcel site improvements as required for re-development. This is a multiyear project and the funding programmed reflects the funds within the span of the STIP.	Intercity Transit	18	No	T11	CN	2021	STP(US)	\$1,606,273	\$250,690	\$1,856,963
					CN	2021	5339(b)	\$16,301,700	\$4,075,425	\$20,377,125
					CN	2024	-	\$0	\$3,765,912	\$3,765,912
<b>Propane-Fueled Vans for Dial-A-Lift Service (2021)</b>										
Purchase of 4 Propane-Fueled Vans for Dial-A-Lift service.	Intercity Transit	17	No	-	CN	2021	STP(US)	\$368,490	\$57,510	\$426,000
					CN	2021	CMAQ	\$122,830	\$19,170	\$142,000
<b>Propane-Fueled Van for Dial-A-Lift Service (2024)</b>										
Purchase of 1 Propane-Fueled Van for Dial-A-Lift service.	Intercity Transit	17	No	-	CN	2024	CMAQ	\$134,950	\$21,062	\$156,012
<b>Walk N Roll for 2023/ 2024 and 2024/2025</b>										
The Walk N Roll program reduces drive-alone trips to school and builds the next generation of safe and healthy pedestrians, cyclists, and transit users. This continuing, established, school-based public education and outreach program helps students and families to access their community through active and sustainable forms of transportation, and positively influences safe walking and bicycling behavior and improves air quality by reducing congestion and idling around schools.	Intercity Transit	5, 15	No	-	PL	2022	TAP(US)	\$258,000	\$40,266	\$298,266
<b>Walk N Roll for 2025/ 2026 and 2026/ 2027</b>										
The Walk N Roll program reduces drive-alone trips to school and builds the next generation of safe and healthy pedestrians, cyclists, and transit users. This continuing, established, school-based public education and outreach program helps students and families to access their community through active and sustainable forms of transportation, and positively influences safe walking and bicycling behavior and improves air quality by reducing congestion and idling around schools.	Intercity Transit	5, 15	No	-	PL	2024	TAP(US)	\$258,000	\$40,266	\$298,266
<b>College Street Corridor Improvements Phase 4</b>										
Per the 2009 College Street Corridor Study, this project will widen the roadway to include a planted center median, auxiliary left turn lanes, sidewalks, with typical urban amenities. This includes a traffic control roundabout at 29th Avenue SE.	Lacey	1 - 5, 13	Yes	C42	PE	2022	STP(US)	\$1,478,648	\$230,771	\$1,709,419
<b>Electric Vehicle Charging Stations</b>										
Partnered with North Thurston Public Schools. This project will install electric vehicle charging stations at public facilities.	Lacey	15	No	-	RW	2021	CMAQ	\$865	\$135	\$1,000
					CN	2022	CMAQ	\$259,500	\$40,500	\$300,000
<b>2024 Highway Safety Improvement Program</b>										
These projects align with the Washington State Target Zero plan, to reduce fatal and serious injury collisions to zero by the year 2030. Improvements include possible signing, pavement markings, guardrails, grading, lighting, studies and data collection.	Thurston County	1 - 5	No	-	PE	2021	HSIP	\$243,000	\$27,000	\$270,000
					RW	2023	HSIP	\$99,000	\$11,000	\$110,000
					CN	2024	HSIP	\$2,214,000	\$246,000	\$2,460,000

Project Title & Description	Agency	Performance* Measure	Regionally Significant	RTP Project ID or ITS Arch.	Phase	Year	Federal Fund Code	Federal	State/Local	Total
<b>Johnson Point Rd &amp; Hawks Prairie Rd Intersection Improvements</b> Reconstruction, added capacity project including the possibility of realignment, additional lanes, paved shoulders, illumination, drainage facilities, intersection control improvements, wetland mitigation and other safety features.	Thurston County	1 - 4	No	-	PE	2022	-	\$0	\$365,000	\$365,000
					RW	2023	STP(US)	\$366,673	\$57,226	\$423,899
<b>Littlerock Road &amp; 113th Ave. SW Bridge and Intersection Improvements</b> The project will replace the L-5 bridge and improve intersection conditions at 113th Ave SW and Littlerock Rd SW. The intersection will be improved through the addition of a left turn pocket.	Thurston County	1 - 4, 13	No	-	PE	2021	HIP(R)	\$57,343	\$200,000	\$257,343
					RW	2021		-	\$50,000	\$50,000
					CN	2023	STP(R)	\$1,762,460	\$602,040	\$2,364,500
<b>Old Hwy 99 at Intersections of Sargent Rd and 201st Ave</b> Construct a roundabout at Old Hwy 99 and 201st Avenue and a right in right out at Old Hwy 99 and Sargent Rd intersection.	Thurston County	1 - 4, 13	Yes	-	PE	2022	STP(US)	\$400,000	\$65,000	\$465,000
					RW	2023	STP(US)	\$500,000	\$78,500	\$578,500
<b>Pacific Avenue Safety</b> Enhance crosswalk at Lake Louis Rd. Install illumination along Pacific Ave from Lacey city limits to Steilacoom Rd.	Thurston County	5	No	-	PE	2021	HSIP	\$54,000	\$5,400	\$59,400
					RW	2021	HSIP	\$18,000	\$2,000	\$20,000
					CN	2022	HSIP	\$243,000	\$32,000	\$275,000
<b>Yelm Highway and Meridian Intersection Improvements</b> Reconstruction, added capacity project including the possibility of major roadway realignment, additional lanes, signal or roundabout, illumination, drainage facilities, landscaping and other safety features.	Thurston County	1 - 4, 13	Yes	-	CN	2021	STP(US)	\$1,300,000	\$707,000	\$2,007,000
<b>Yelm Hwy SE and Pacific Ave SE Pedestrian Improvements Phase 1</b> Project will construct pedestrian refuge islands and upgrade ramps and sidewalks.	Thurston County	5	No	-	CN	2022	STP(US)	\$310,000	\$119,000	\$429,000
<b>High Capacity Transportation Project Development</b> Intercity Transit has identified a need to provide bus-rapid transit service through the core urban area of Thurston County. In addition, regional policymakers have expressed the desire to examine options for better connections to communities to the north. This project is a study on regional high capacity transportation needs.	TRPC	13, 15	No	S4	PL	2022	STP(US)	\$173,000	\$27,000	\$200,000
<b>Household Travel Survey</b> Conduct a regional household travel survey. The survey will be used to update the regional travel demand model, and look at trends in travel behavior.	TRPC	1 - 4	No	-	PL	2022	STP(US)	\$259,500	\$40,500	\$300,000
<b>Olympia Capitol Campus - Taming the Dragons</b> An intense Travel Demand Management outreach/education effort targeting top/mid-level managers at state agency worksites on the Olympia Capitol Campus to increase adoption of mobile/flexible/telework options and am/pm schedule shifts for state employees.	TRPC	15	No	-	PL	2022	CMAQ	\$154,180	\$24,063	\$178,243
<b>SFY 2022 Regional Transportation Planning Priorities</b> Planning activities in the work program of regionally determined transportation initiatives. See TRPC UPWP.	TRPC	1 - 5, 13	No	-	PL	2021	STP(US)	\$700,000	\$109,249	\$809,249
<b>Thurston County Bicycle Map, 8th Edition</b> This project will update the Thurston County Bicycle Map.	TRPC	5	No	-	PL	2023	STP(R)	\$43,250	\$6,750	\$50,000

Project Title & Description	Agency	Performance* Measure	Regionally Significant	RTP Project ID or ITS Arch.	Phase	Year	Federal Fund Code	Federal	State/Local	Total
<b>I-5 / Trosper Rd / Capitol Blvd Reconfiguration</b> Modify I-5 NB Off-Ramp and southern NB On-Ramp, construct RAB at I-5 / 6th Ave, construct new roadway between West Lee and Trosper, reconstruct Trosper from I-5 to Capitol, extend Trosper east of Capitol, construct RAB at Trosper / Capitol, reconstruct Linda St from Capitol to a new local access road and construct new local access road from Ruby St to Trosper Rd extension. Termini: NB Off-Ramp and southern NB On-Ramp (I-5), I-5 to 470' east of Capitol (Trosper), Lee to Trosper (6th Ave), 100' north of Ruby to 340' north of Trosper (Capitol), Capitol to 425' east of Capitol (Linda St).	Tumwater	1 - 4, 12, 13	Yes	C38	CN	2021	-	\$0	\$6,250,000	\$6,250,000
<b>Israel Rd &amp; Linderson Way Pedestrian and Bicycle Improvements Phase 1</b> Roadway and multi-modal improvements including construction of refuge island(s), reconstruction of select sidewalk segments and curb ramps, extend bike lanes, signal improvements, roadway and other improvements.	Tumwater	5	Yes	-	CN	2022	TAP(US)	\$370,000	\$85,000	\$455,000
<b>Israel Rd &amp; Linderson Way Pedestrian and Bicycle Improvements - Phase 2</b> Roadway and multi-modal improvements including construction of refuge island(s), reconstruction of select sidewalk segments and curb ramps, extend bike lanes, roadway and other improvements.	Tumwater	5	No	-	PE	2021	TAP(US)	\$43,250	\$6,750	\$50,000
<b>Traffic Signal Controller &amp; Detection Upgrade</b> Replacement of controllers, detection equipment, and necessary associated hardware at various intersections throughout the City.	Tumwater	15	No	-	PE	2022	CMAQ	\$34,600	\$5,400	\$40,000
					CN	2023	CMAQ	\$268,150	\$41,850	\$310,000
<b>X Street Roundabout</b> Roundabout in keeping with Capitol Boulevard Corridor Plan.	Tumwater	1 - 4, 13	Yes	-	RW	2023	STP(US)	\$866,750	\$1,633,250	\$2,500,000
<b>Asphalt/Chip Seal Preservation Thurston Regional Planning Council</b> Resurface the roadway with chip seal or hot mix asphalt to preserve the structural integrity of the roadway and extend the service life of the pavement. For a list of included projects, go to <a href="http://www.wsdot.wa.gov/projects/search">www.wsdot.wa.gov/projects/search</a> .					PE	2021	NHPP	\$120,870	\$4,835	\$125,705
	WSDOT	6, 7	No	-	PE	2022	NHPP	\$61,853	\$2,474	\$64,327
					PE	2024	NHPP	\$142,650	\$5,706	\$148,356
					CN	2023	NHPP	\$2,309,854	\$46,197	\$2,356,051
<b>I-5/Capitol Lake Bridge - Foundation Repair</b> Erosion has occurred at the bridge foundation. This project will repair the damage to this structure preventing further erosion and maintain the structural integrity of this bridge. Foundation repair - retrofit for runoff on bridge 005/321.	WSDOT	10	No	-	PE	2022	NHPP	\$131,491	\$5,479	\$136,970
					CN	2023	NHPP	\$624,236	\$12,740	\$636,976
<b>I-5/McAllister Creek Bridges - Repair Bridge Piles</b> Many of the submerged concrete piles have large cracks & delamination due to corrosion of the reinforcing steel. Clean and place full height steel jackets on the piles to extend the service life of this structure. Clean and place steel jackets around bridges piles 5/342E, 342W, 342W-S.	WSDOT	10	No	-	PE	2021	NHPP	\$260,155	\$22,622	\$282,777
					CN	2022	NHPP	\$2,383,987	\$48,653	\$2,432,640
<b>Olympic Region - Dynamic Warning Signs</b> Side street vehicles are entering mainline without adequate gaps. Install dynamic warning signs at three identified intersections to alert mainline drivers of possible vehicles entering. The warning will give mainline drivers time to react, potentially reducing the number and severity of fatal and serious injury collisions. Dynamic warning signs at three intersections on SR 3, 302 and 510.	WSDOT	1 - 4	No	-	PE	2021	HSIP	\$44,023	\$1,834	\$45,857
					CN	2022	HSIP	\$158,074	\$3,226	\$161,300

Project Title & Description	Agency	Performance* Measure	Regionally Significant	RTP Project ID or ITS Arch.	Phase	Year	Federal Fund Code	Federal	State/Local	Total
<b>SR 507/N of Conner Rd - Culvert Replacement</b>										
The existing culvert in this location is experiencing structural failure. Replace or repair the existing culvert to provide improved drainage and preserve the structural integrity of the roadway. Replace existing culvert WSDOT0000009852.	WSDOT	1 - 4	No	-	PE	2022	STP	\$141,882	\$5,912	\$147,794
					CN	2023	STP	\$117,800	\$2,404	\$120,204
<b>SR 507/Skookumchuck River Bridge to S of 184th Ave - Stormwater Retrofit</b>										
Stormwater runoff along this section of SR 507 leaves the right of way without being treated. Provide water quality treatment of SR 507 stormwater runoff that discharges into Skookumchuck River directing highway runoff away from sensitive areas.	WSDOT	1-4	No	-	CN	2021	NHPP	\$171,279	\$3,495	\$174,774
<b>SR 510/Yelm Loop - New Alignment Phase 2</b>										
Traffic through the City of Yelm is extremely congested at the present time. This project will construct the second stage of a new alignment for SR 510 through the City of Yelm. When complete, this project will relieve congestion and improve motorist safety.	WSDOT	1 - 4, 13	Yes	O13	PE	2021	-	\$0	\$3,200,000	\$3,200,000
					CN	2021	-	\$0	\$50,200,000	\$50,200,000
<b>SR 8/E of Summit Lk Rd to W of Old Olympic Hwy - Stormwater Retrofit</b>										
Stormwater runoff along this section of SR 008 leaves the right of way without being treated. Provide water quality treatment for SR 008 stormwater runoff that discharges into Perry Creek, directing highway runoff away from sensitive areas. Stormwater drainage improvements.	WSDOT	-	No	-	CN	2021	NHPP	\$333,438	\$6,805	\$340,243
<b>US 101/Mud Bay Bridges - Repair Bridge Piles</b>										
Many of the submerged concrete piles have large cracks & delamination due to corrosion of the reinforcing steel. Clean and place full height fiber reinforced polymer jackets on the piles to extend the service life of the structure. Clean and place fiber reinforced polymer on bridge piles 101/508E & 508W.	WSDOT	10	No	-	PE	2021	NHPP	\$174,211	\$15,149	\$189,360
					CN	2022	NHPP	\$1,596,420	\$32,580	\$1,629,000
<b>Mosman Ave Phase II</b>										
The improvements will construct a new road connecting Longmire St with the new Mosman Avenue intersection. Will add bike lanes, sidewalks, street lighting, and stormwater improvements. Improvements include construction of new road from Longmire St to Solberg St, and reconstruction of Mosman Ave between Solberg St and Railroad St	Yelm	1-5, 13	Yes	A22	CN	2021	TAP(US)	\$142,000	\$285,871	\$427,871
					CN	2021	STP(US)	\$492,608	\$285,871	\$778,479
<i>Total</i>								<i>\$44,496,243</i>	<i>\$80,966,803</i>	<i>\$125,463,046</i>

RTP Project ID refers to the corresponding project identification code used in the 2045 Regional Transportation Plan available online at [www.trpc.org](http://www.trpc.org).

*Performance Measure (see Appendix D for more details):	
1.	Number of fatalities on all public roads
2.	Number of fatalities per 100 million vehicle miles traveled (VMT) on all public roads
3.	Number of serious injuries on all public roads
4.	Number of serious injuries per 100 million VMT on all public roads
5.	Number of non-motorist fatalities and serious injuries on all public roads
6.	Percent of Interstate Pavement on the National Highway System in good condition
7.	Percent of Interstate Pavement on the National Highway System in poor condition
8.	Percent of non-Interstate Pavement on the National Highway System in good condition
9.	Percent of non-Interstate Pavement on the National Highway System in poor condition
10.	Percent of National Highway System Bridges classified in good condition (weighted by deck area)
11.	Percent of National Highway System Bridges classified in poor condition (weighted by deck area)
12.	Percent of person-miles traveled on the Interstate System that are reliable
13.	Percent of person-miles traveled on the Non-Interstate National Highway System that are reliable
14.	Truck Travel Time Reliability (TTTR) Index (on the Interstate System)
15.	Particulate Matter less than 10 microns (PM10) (kg/day)
16.	Equipment: The percentage of non-revenue service vehicles (by type) that meets or exceeds the (ULB)
17.	Rolling Stock: The percentage of revenue vehicles (by type) that meets or exceeds the ULB (Buses, Paratransit Vans, and Vanpools)
18.	Facilities: The percentage of facilities (by group) that are rated less than 3.0 on the Transit Economic Requirements Model (TERM) Scale
19.	Fatalities: Total number of fatalities reported to National Transit Database (NTD) and rate per total vehicle revenue miles (VRM) by mode.
20.	Injuries: Total number of injuries reported to NTD and rate per total VRM by mode.
21.	Safety Events: Total number of safety events reported to NTD and rate per total VRM by mode.
22.	System Reliability: Mean distance between major mechanical failures by mode. Note: modes for transit safety performance targets are fixed route, paratransit, and vanpool.