Bicycle Level of Traffic Stress

TTC - FOR ACTION

JASON LIEN

AGENDA ITEM 6, PG. 10

08/23/2023

Requested Action

Recommend Board approval of the Regional Bicycle Level of Traffic Stress analysis



Bike Level of Traffic Stress

- ☐ Project Purpose:
 - ☐ Understand bike rider experience on our network
 - ☐ Where are there higher stress areas and gaps?
 - ☐ Data point for SRTC and partners to evaluate needs

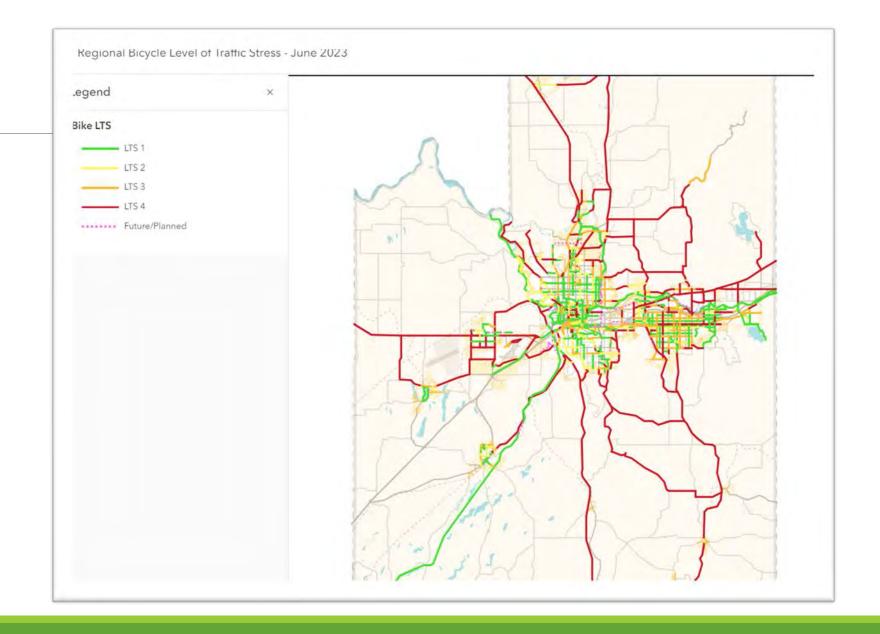
- Project Deliverable:
 - ☐ Grading system of routes on the Regional Bicycle Priority Network



LTS Data

- □ Compile data for street segments:
 - ■#Thru-lanes
 - ☐Posted speed
 - Parking
 - ☐Bike facility width
 - ☐ Traffic volume
- ☐ Use data to categorize network segments into LTS 1-4

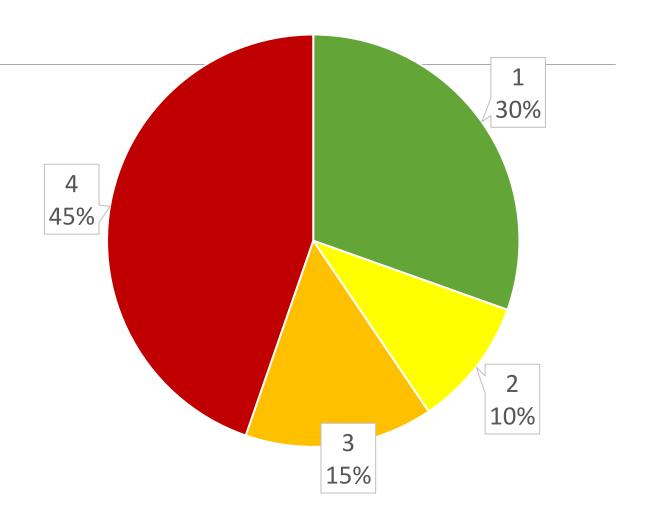
Online Map



Bike LTS

Results – Overall

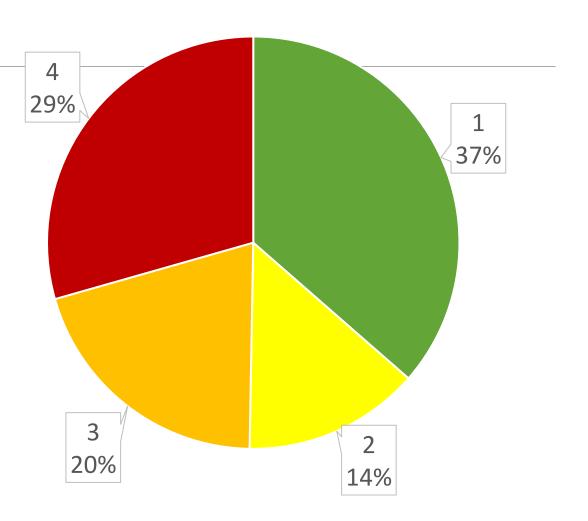
- □1 = Lowest Stress
- ☐4 = Highest Stress
- □37 miles unclassified



Bike LTS

Results – Urban Area

- □1 = Lowest Stress
- ☐4 = Highest Stress
- □35 miles unclassified



Requested Action

Recommend Board approval of the Regional Bicycle Level of Traffic Stress analysis

Questions or Comments

Jason Lien

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Michael Redlinger

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509.343.6370

LTS Method

Table 3 Criteria for Bike Lanes Not Alongside a Parking Lane

	LTS ≥ 1	LTS ≥ 2	LTS ≥ 3	LTS ≥ 4
Street width (thru lanes per direction)	1	2, if directions are separated by a raised median	more than 2, or 2 without a separating median	(n.a.)
Bike lane width	6 ft or more	5.5 ft or less	(n.a.)	(n.a.)
Speed limit or prevailing speed	30 mph or less	(n.a.)	35 mph	40 mph or more
Bike lane blockage	rare	(n.a.)	frequent	(n.a.)





2024 Unified List of Regional Transportation Priorities

Transportation Technical Committee Agenda Item 7 | Page 11

August 23, 2023

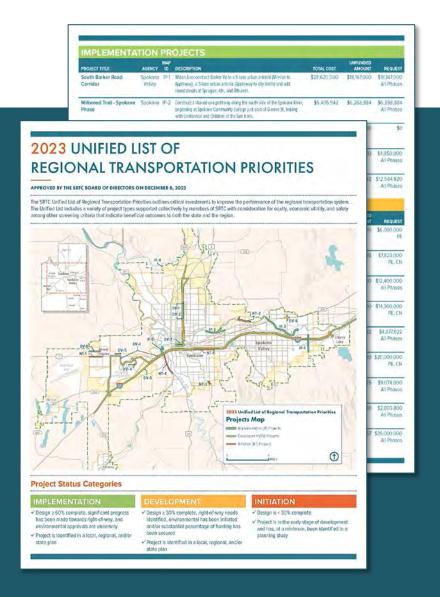
Requested Action

Recommend Board approval of the 2024 Unified List of Regional Transportation Priorities, as shown in the Attachment.



Unified List

A strategic tool used to communicate current regional transportation priorities to legislators for potential funding opportunities.





2024 Update Schedule

- May 11: Project Evaluation Criteria Approved by SRTC Board
- May 17 June 2: Project Submittal Period
- June 3 June 20: SRTC Review Period / Draft List Development
- > June TTC/TAC Meetings + July Board Meeting: Draft List Review

Target Completion Date: Sept 2023		Apr-23		May-23		Jun-23			Jul-23		Aug-23				Sep-23				Oct-23			
Project Tasks (Red & blue cells indicate TTC/TAC/Board touches)	3	10 1	7 24	8	15	22 29	5	2 19	26	3 1	0 17	24 3	1 7	14	21	28	4	11	18 25	2	9	16 23 3
(t1) Collect and Review Local Legislative Agendas																						
(t2) Update Project Evaluation Criteria			c		В																	
(t3) Update Project Information Form			=																			
(t4) Project Submittal Period																						
(t5) Verify Projects Self-Score																						
(t6) Develop Draft Project List									c	E				П	C							
(t7) Finalize Project List																		В				
(t8) Finalize Folio																		1				
Project Deliverables (grey cells indicate draft, black cells indicate final)																						
Project Evaluation Criteria																						
Project List																						

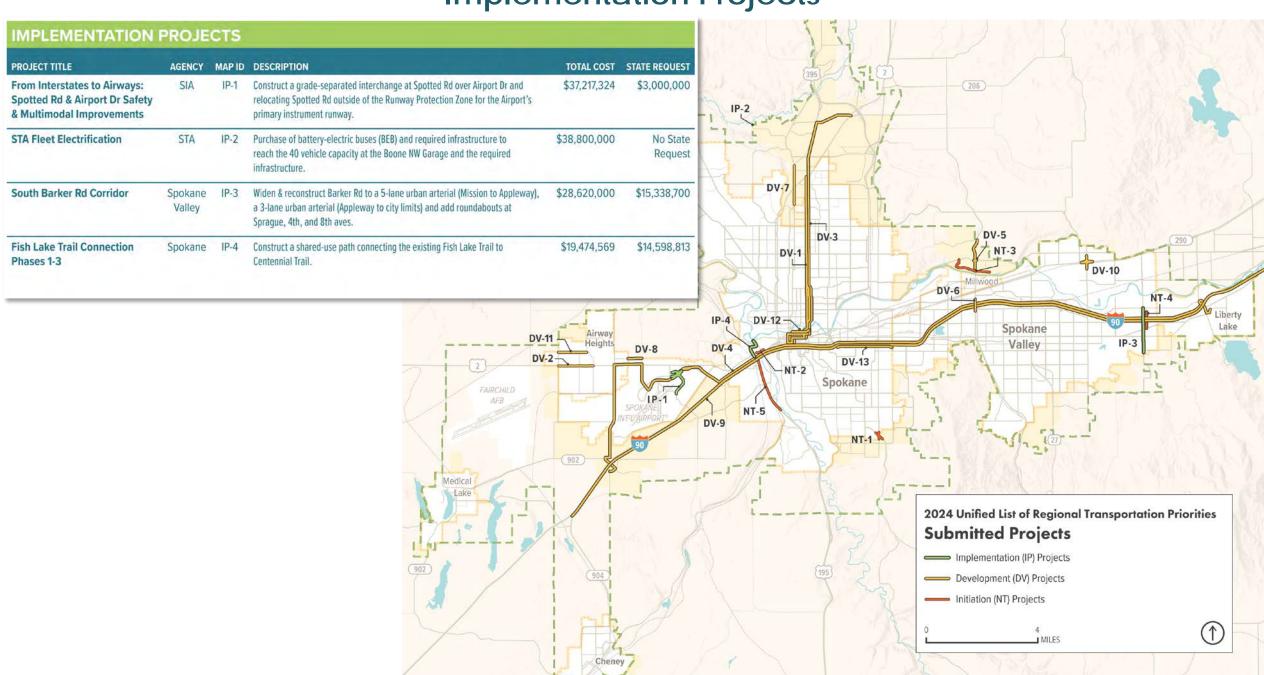


Draft List Review Feedback

- Two draft lists options presented to TTC/TAC and Board
 - Short + long versions based on natural breaks in project scores
- Feedback was primarily in support of the longer list:
 - Provides a more accurate view of region's needs
 - More flexible and better positioned to respond to various potential funding opportunities



Implementation Projects



Development + Initiation + Safety Projects

PROJECT TITLE	AGENCY	MAP ID	DESCRIPTION	TOTAL COST	STATE REQUEST
Division St Active Transportation Access Improvements	Division Corridor to support safe first/last mile bike/ped connections to BRT		\$25,800,000	\$25,800,000	
US Hwy 2 Multimodal Improvements	Airway Heights	DV-2	Add pathways and sidewalk, improved pedestrian crossings, traffic calming, transit stations, and roundabout traffic control.	\$24,480,200	\$21,467,200
Division Bus Rapid Transit (BRT)	STA	DV-3	Enhances transit along corridor w/more frequent service, transit signal priority, all-door boarding, and dedicated business access and transit lanes (BAT) for more than half the corridor.	\$202,000,000	No State Request
I-90 / Valley High Performance Transit (HPT)	STA	DV-4	Revise to a HPT corridor, from West Plains/SIA to Spokane Valley and Liberty Lake. Construct two new park & rides (Appleway Station and Argonne Station) and modify Mirabeau Point Park & Ride.	\$36,000,000	No State Reques
Argonne Rd Safety Improvements	Spokane County	DV-5	Reconstruct Argonne Rd/Upriver Dr Intersection, upgrade bike/ped and ADA connections, and add safety improvements at Wellesley Ave intersection.	\$7,280,000	Amount
Argonne Bridge at I-90	Spokane Valley	DV-6	Widen or replace existing Argonne Rd bridge over I-90, including the addition of a third travel lane and shared use path.	\$24,000,000	\$22,500,000
Wall St Safety & Capital Improvements	Spokane County	DV-7	Project includes pavement restoration, stormwater infrastructure, new sewer force main, and pedestrian crossing and intersection improvements at Country Homes Blvd.	\$15,490,000	Amount
West Plains Connection - Spokane Phase	Spokane	DV-8	Extend existing roadway as a two-lane boulevard or three-lane urban collector for a total of 3.65 miles, adding bicycle lanes, separated sidewalks, multi-use paths, and transit stops.	\$4,877,622	\$4,877,622
I-90 TSMO Improvements	WSDOT	DV-9	Various TSM0 improvements from SR 904 to Idaho state line, such as variable message signs, ramp meters, variable speed limits, queue warning detection, and wrong way detection.	\$24,000,000	\$2,640,000
Sullivan / Trent Interchange	Spokane Valley	DV-10	Reconstruct Sullivan Rd/SR 290 interchange, including on/off ramps, to restore long-term capacity and satisfy projected traffic growth from 2022 Bigelow Gulch-Forker Road connection.	\$42,774,021	\$35,179,224
6th Ave Multimodal Improvements	Airway Heights	DV-11	Various multimodal improvements on 6th Ave, from Craig Rd to Russell St.	\$7,280,000	\$2,860,800
Spokane Falls Blvd	Spokane	DV-12	Construct full depth roadway, repair sidewalk, lighting, communication conduit and cable, signal and utility updates, and accessible Pedestrian Signals (APS) updates as appropriate.	\$8,149,426	\$7,397,546
3rd Ave: Perry to Havana Improvements	Spokane	DV-13	Full depth reconstruction aligning with NSC work, including elements not in WSDOT scope—sidewalk, curb ramp, addressing drainage, water/sewer, and streetscaping improvements.	\$8,000,000	\$8,000,000

PROJECT TITLE	AGENCY	MAP ID	DESCRIPTION	TOTAL COST	STATE REQUEST
Freya St / Palouse Hwy Roundabout	Spokane	NT-1	Construct a roundabout and improve sidewalk or pathway connections in all four directions, including extending the Palouse Hwy shared-use pathway through Freya St.	\$4,988,000	\$4,900,000
Latah Bridge Rehabilitation	Spokane	NT-2	Replace and widen bridge deck, railing, sidewalks, and rehabilitate select structural elements. Project includes improved pedestrian and transit facilities (shared-use path, bike lanes, and space for future light rail transit line).	\$55,966,000	\$55,966,000
Centennial Trail / Argonne Gap Project	Spokane County	NT-3	Improve connectivity at the Argonne Rd crossing adjacent to Centennial Trail, including improved crossings to reduce bike/ped vs vehicular incidents and reduce stress at Argonne Rd/Upriver Dr intersection.	\$8,470,000	Amount TBD
Barker Rd & I-90 Interchange	Spokane Valley	NT-4	Replace single-lane roundabout and 2-lane bridge with new 2-lane roundabout and 4-lane bridge to accommodate existing traffic and growth.	\$40,000,000	\$40,000,000
US 195 Corridor Projects	Spokane	NT-5	Connect Lindeke St to Thorpe Rd and create a two-way Inland Empire Way and Cheney-Spokane Rd connection. Streetscape improvements include sidewalks, lighting, landscape buffers, and bike lanes.	\$18,394,333	\$18,394,333

2024 Unified List of Regional Transportation Priorities Summary

by Project Status Category

PROJECT STATUS CATEGORY	# OF PROJECTS	TOTAL COST OF PROJECTS	TOTAL STATE REQUEST	% OF TOTAL COST REQUESTED
IMPLEMENTATION	4	\$121,111,893	\$32,937,513	27.2%
DEVELOPMENT	13	\$430,131,269	\$130,722,392	30.4%
INITIATION	5	\$136,552,333	\$119,260,333	87.3%
TOTAL	22	\$687,795,495	\$282,920,238	41.1%

Safety Projects Identified in WSDOT Eastern Region / SRTC Safety Collaboration Pilot Project

- » Regal St & 44th Ave Total Project Cost: \$598,679
- » From Interstates to Airways: Spotted Rd & Airport Dr Safety & Multimodal Improvements See Project IP-1 under Implementation Projects for details

Proposed 2024 Unified List

• 22 Projects:

- > 4 Implementation
- > 13 Development
- > 5 Initiation

List Updates:

- Latah Bridge Rehabilitation project officially identified as a legislative priority by the City of Spokane and added to the list
- Two projects identified from the Safety Pilot collaboration between SRTC and WSDOT:

 Regal Street & 44th Avenue and Spotted Road/Airport Drive
- ➤ Board discussion regarding the Spokane County *Craig Road I-90 to US 2 & I-90/SR 904 Interchange Revisions* project's inclusion in the list due to recently securing funding



Craig Rd 1-90 to US 2 & 1-90 Interchange Revisions

Project Summary Info:

- > Total Cost: \$49,859,000
- > Secured Funding: \$7,500,000
- > Development Status
- > Evaluation Criteria Total Score: 97

• Project Description:

Project improves access to I-90 for the growing West Plains area and consists of realigning, rehabilitating deteriorated pavement, and widening the roadway from the I-90 / SR-904 interchange to US 2



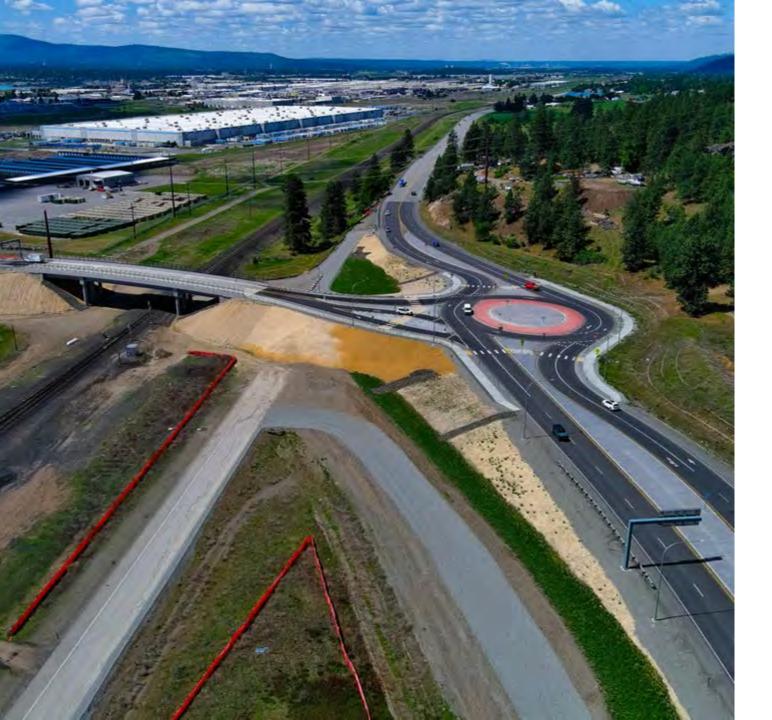
Requested Action

Option A: Recommend Board approval of the 2024 Unified List of Regional Transportation Priorities, as shown in the Attachment.

OR

Option B: Recommend Board approval of the 2024 Unified List of Regional Transportation Priorities shown in the Attachment, with the addition of Spokane County's Craig Road project should the Board choose to include it.





Transportation Priorities

Adam Jackson Engineering Manager July 2023



Local Projects
with Regional, State,
and National Impacts

Completed/Funded

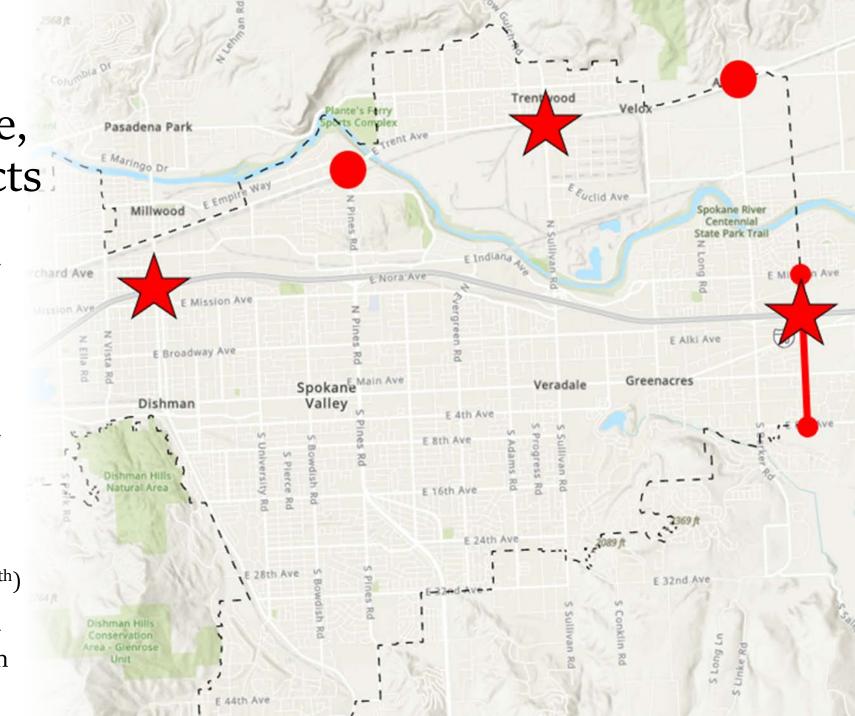
- Barker Road/BNSF GSP
 - Completed in 2023
- Pines Road/BNSF GSP
 - Construction 2023-2025

Planned Priority Projects

- Argonne Road Bridge at I-90
- Sullivan & Trent Interchange
- Barker Road & I-90 Interchange
- South Barker Corridor (Mission-8th)

Ongoing Focus

• Street Maintenance & Preservation



Completed/Funded Projects

Barker Road/BNSF Railway Grade Separation Project

Construction 2020-2023

Total Project Cost: \$26 Million



Pines Road/BNSF Railway Grade Separation Project

Construction 2023-2025

Total Project Cost: \$40 Million





2024 Federal Agenda Projects

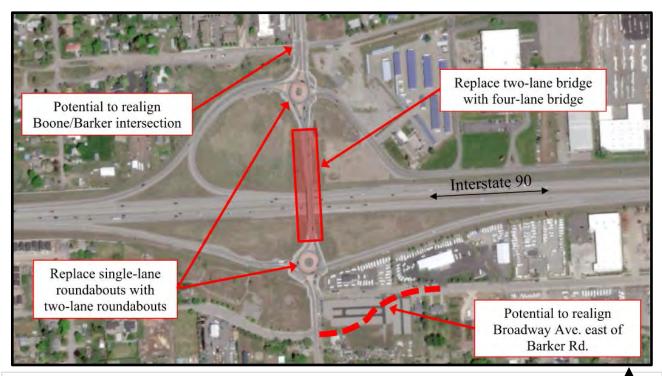
Sullivan/Trent Interchange

- 2023-2024 PE & ROW
- Construction Unfunded
- Est. Total Project Cost: \$42 Million

Argonne Rd. Bridge at I-90

- 2024 Preliminary Design
- STA Park & Ride 2026 CN
- Est. Total Project Cost: \$24 Million





2024 Federal Agenda Projects

Barker Rd. & I-90 Interchange

- 2023-2024 Initialize Design
- WSDOT Coordination
- Est. Total Project Cost: \$40 Million

South Barker Corridor

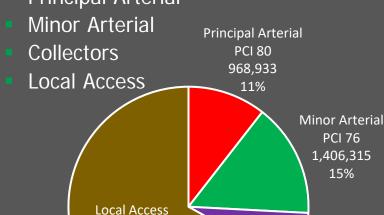


- 5-Lane Section (Mission-Appleway)
- 3-Lane Section (Appleway-8th)
- Est. Total Project Cost: \$29 Million
- Roundabouts: Sprague, 4th, 8th Ave.





- 450 centerline miles
 - 127 Arterial/Collectors
 - 323 Local Access Streets
- 1,025 Total Lane Miles
- 1,900 Acres of Paved Streets
 - (8% of Total City Area)
- Four Street Classifications:
 - Principal Arterial



PCI 74 6,150,199 67% (square yards)

Collector

PCI 72

670,843

7%



Comments & Discussion
Adam Jackson
ajackson@spokanevalleywa.gov
509-720-5024



Reconnecting Communities & Neighborhoods (RCN) Grant Application

The LEIA Program

A Partnership Project

AUGUST 2023

ADAM JACKSON

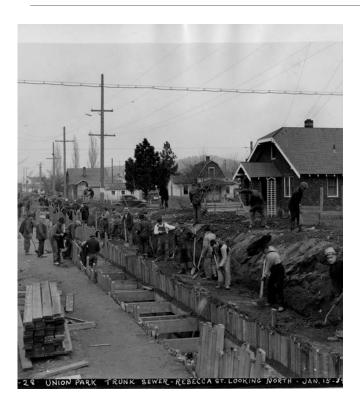
AJACKSON@SPOKANEVALLEYWA.GOV





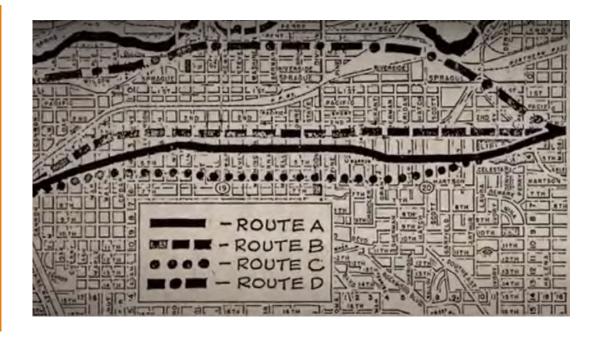


Reconnecting Communities and Neighborhoods (RCN) Program



- •Funded by the Bipartisan Infrastructure Law and the Inflation Reduction Act
- Consists of two unique federal programs:
 - Reconnecting Communities Pilot Program (RCP)
 - Neighborhood Access & Equity Program (NAE)
- Compete for NAE's \$2.57 billion towards capital construction projects
- Prioritizes disadvantaged communities
 - Removing, retrofitting, or mitigating transportation facilities that create barriers to community connectivity, including to mobility, access, or economic development.
 - 100% Federal award eligibility Zero non-federal match
- Grant applications are due September 28





Eligible projects?



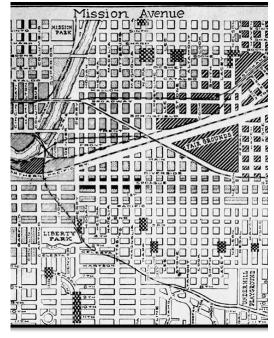












Impacts on East Spokane

- Existing sreetcars and railways
- Redlining & racism
- Liberty Park & Edgecliff Sanitorium
- Freeway barrier east-west
- New arterial traffic north-south
- •Inadequate facilities for pedestrians
- Razed Alcott Elementary
- Quartered Liberty Park

Proposed LEIA Program







- •LEIA = Liberty to Edgecliff Improvements to Accessibility
- •STA Route 94 East Central/Millwood
- •Multimodal improvements: sidewalk, bus stops, crosswalks, bicycle facilities, and streetscape
- Leverage past planning efforts and programmed investments



Current Outreach and Support

- Online survey
- Outreach booth at 8/12 SERA Celebration at Underhill Park
- Organizations invested in the area:
 - NAACP
 - Carl Maxey Center
 - MLK Center
 - Seven Nations Healing Lodge
 - Spokane Conservation District
 - Spokane Public Library
 - Spokane Public Schools







Request to SRTC

- Letter of support
- Future inclusion TIP/STIP



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tlimon@spokanetransit.com





ajackson@spokanevalleywa.gov





2024 - 2027 Transportation Improvement Program (TIP)

Transportation Technical Committee (TTC)
Ryan Stewart, Principal Transportation Planner
Agenda Item 10, page 15
Information

August 23, 2023

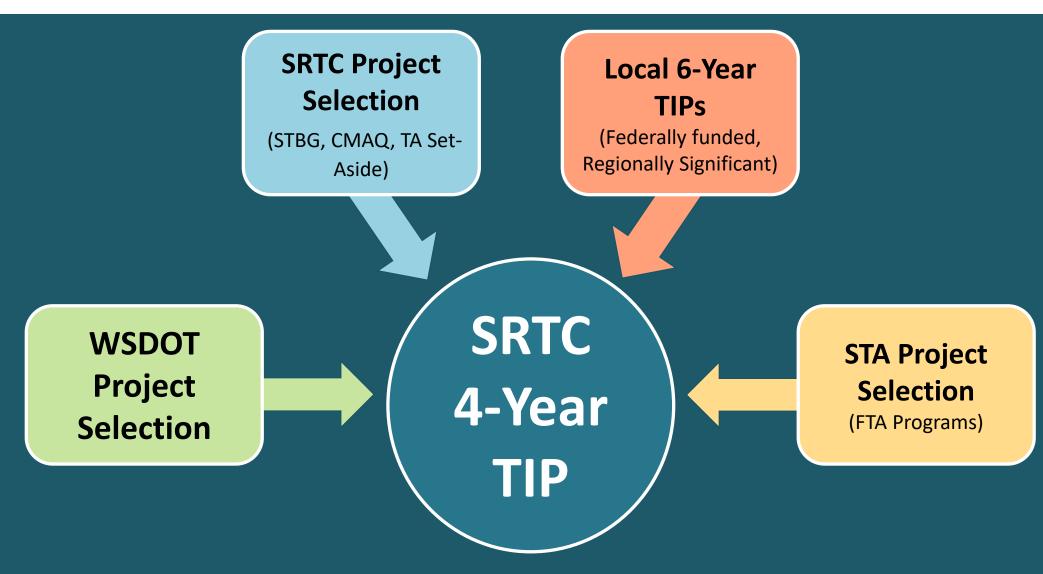
Action

Recommend Board approval of Resolution 23-x to approve the 2024-2027 Transportation Improvement Program (TIP).

What is the TIP?

- 4-year program of regional transportation projects
- Any project receiving federal funds or regionally significant
- Full document at SRTC.org under the Transportation Improvement Program tab





SRTC TIP Determination Process



Consistent with SRTC's MTP-Horizon 2045



Consistent with Regional Plans



Conforms with
State Air
Quality Plans



Fiscally Constrained

2024-2027 TIP Overview - DRAFT



77 Projects (Total)



\$846 M (4-years)



11 Projects = \$53 M (SRTC Managed)

Spokane Regional Transportation Council (SRTC)

2024–27 Regional TIP (RTIP) Projects by Project Type DRAFT

Project Type	Number of Projects	% of Projects	Programmed Funds	% of Program
Active Transportation	8	10%	31,581,316	4%
Bridge	13	17%	34,928,477	4%
High Performance Transit	1	1%	5,401,000	1%
Planning	1	1%	578,035	0%
Preservation	14	18%	32,019,137	4%
Rail/Highway Crossing	2	3%	44,761,208	5%
Reconstruction	6	8%	15,220,330	2%
Roadway Capital	2	3%	5,718,960	1%
Roadway Capital - NSC	3	4%	583,719,048	69%
Safety & Security	8	10%	5,707,825	1%
Transit	6	8%	74,271,173	9%
TDM	1	1%	1,296,632	0%
тѕмо	12	16%	10,707,558	1%
TOTAL	77	100%	845,910,699	100%

What's new?

Agency	Project Name
Spokane	29th/Washington/Monroe - grind and overlay, repair, crack seal, upgrade ADA ramps
Spokane	Arterial Pedestrian Hybrid Beacons
Spokane	Latah Bridge Rehabilitation
Spokane	Market/Monroe/29th - grind and overlay, repair, crack seal, upgrade ADA ramps
Spokane	Millwood Trail - Children of the Sun Trail to Fancher
Spokane	Scott Elementary Sidewalk
Spokane	Washington St. and Stevens St. Bridge Deck Repair
Spokane	Wellesley Ave Freya to Havana full reconstruction Little Spokane Drive Bridge No.3704 Replacement Wellesley Ave and Appleway Ave Roundabout
Spokane Co.	Little Spokane Drive Bridge No.3704 Replacement
Spokane Co.	Wellesley Ave and Appleway Ave Roundabout
Spokane Transit	Argonne Station Park and Ride
Spokane Transit	Division Line: Division BRT Construction and Implementation
WSDOT - EAST	I-90/3rd Ave Crossing - Bridge Deck Rehabilitation
WSDOT - EAST	I-90/Broadway Interchange West - Signal Replacement
WSDOT - EAST	I-90/Hamilton St EB Off-Ramp - Bridge Deck Repair
WSDOT - EAST	I-90/Liberty Park Land Bridge - Design
WSDOT - EAST	I-90/Lindeke St Crossing - Bridge Deck Repair
WSDOT - EAST	I-90/Pines Interchange South - Signal Replacement
WSDOT - EAST	I-90/RR, Broadway, Park Rd Crossings - Expansion Joint Repair
WSDOT - EAST	US 2/Day Mt. Spokane - Signal Replacement
WSDOT - EAST	US 2/Deer Park & Milan Rd - Roundabout Conversion

2024-2027 TIP Public Engagement

General outreach – SRTC's PPP

30-day TIP Public Comment Period

September 1 – October 1, 2023

TIP Public Meeting (Hybrid)

Thursday, September 21st 12:00 – 1:00 PM

Recording will be available on srtc.org

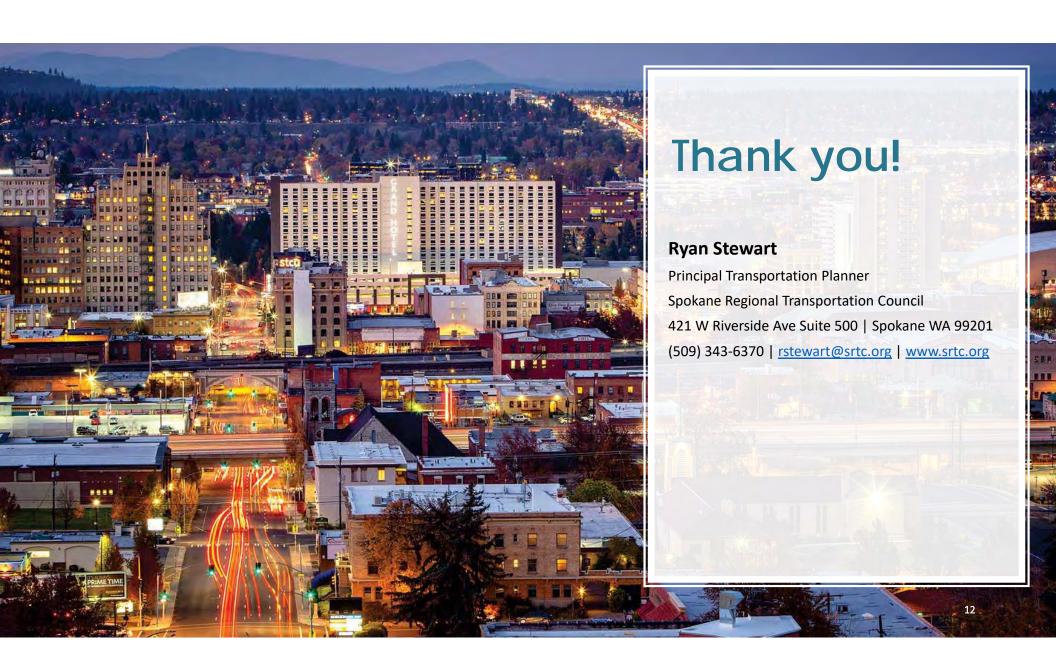


2024- 2027 TIP Timeline

- Sept 1 to Oct 1 30-Day Public Comment Period
- Sept 14 SRTC Board Informational Item
- Sept 21 TIP Public Meeting
- Sept 27 SRTC TAC & TTC Action Item
- Oct 12 SRTC Board Action Item
- Oct 20 Projects due to WSDOT in Secure Access WA
- ~Jan 12 FHWA/FTA STIP Approval

Action

Recommend Board approval of Resolution 23-x to approve the 2024-2027 Transportation Improvement Program (TIP).





FHWA Urban Boundary Adjustments

August 23, 2023

TTC

Jason Lien

Agenda Item 11, Pg. 16

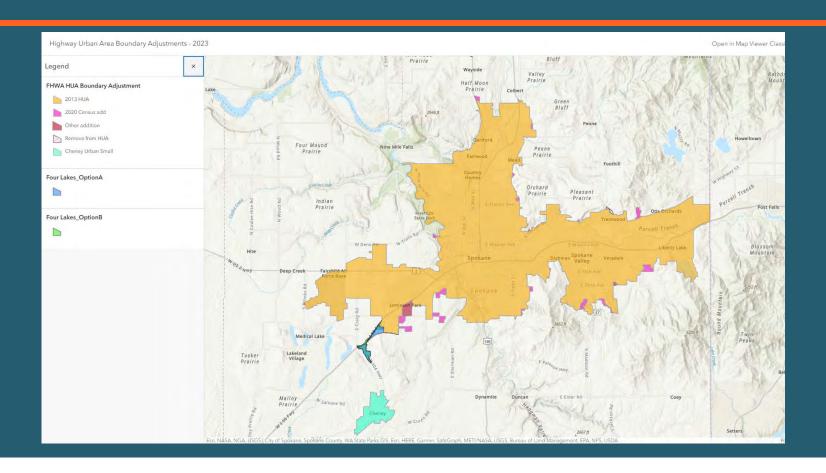
Highway Urban Area

- Revisited every 10 years after decennial census
- Delineates urban vs rural for planning & funding purposes
- WSDOT asking regions to submit boundary adjustments

Highway Urban Area

- Two urban areas in the SRTC planning area
 - Spokane/Spokane Valley metro area
 - Cheney (Small Urban)
- Requirements: Census urban areas, City limits,
 Contiguous polygon boundary

Highway Urban Area (adjusted)



Next Steps

- Final coordination / updates by early Sept.
- Submit GIS file to WSDOT's Urban Boundary Review team
- WSDOT submittal to FHWA



Thank You

Jason Lien
jlien@srtc.org
509.343.6370

Guidelines

- Must include urban areas from 2020 census
- Must include city limits within urban area
- Must be contiguous polygon
 - One for Spokane/Spokane Valley
 - One for Cheney

Highway Urban Area (current)

