At-grade Crossings Program

Draft Master Plan - Rainier Valley Focus

Board of Directors 10/24/2024



Why we are here

- Enhancing safety in the Rainier Valley
 - Program priorities
 - Completed work
 - Draft Master plan Rainier Valley focus
 - Objectives
 - Projects
 - Engagement
- Next steps



Program priorities

- Reduce collisions and near misses with vehicles and pedestrians.
- Provide a consistent and safe passenger experience systemwide.
- Provide reliable service without degradation to operational performance.
- Increase accessibility of the Sound Transit network for all.
- Build positive, proactive relationships with surrounding communities that foster trust and increase perception of safety of Sound Transit's service.

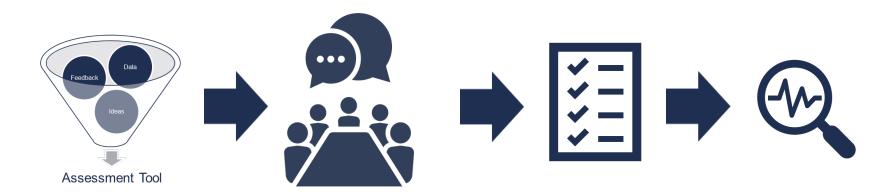




Screening safety enhancement ideas

Identification and Initial Assessment

- Collect all safety enhancement ideas.
- 2. Team research and discussion.
- 3. Prioritize efforts based on screening.
- 4. Further research / planning.



Safety enhancement ideas

| Administrative Controls | | Engineering | Roadway Redesign | | |
|--|---|--|---|---|--|
| Safety Education 5 Core Safety Messages Safety campaigns with partners Safety education campaigns Engagement activities Outreach and training on specific mitigations Encouragement Rainier Area Security Emphasis Team Crossing guards Using red light cameras to mail education materials | Operations Procedures • Audible warning signage for operators • Training emphasis | Audible Enhance wayside bells Localized audible announcements Visual Updated static signage Dynamic no left turn warning signs Dynamic "Another Train Coming" warning signs Retroreflective tape around signal heads Refreshed pavement markings Paint to visually emphasize trackway In pavement lights Physical Infrastructure Pedestrian gates at station locations Channelization / fencing | Technology Leading pedestrian intervals Traffic signal reprioritization pilot Video Analytics V2X Touchless pedestrian push buttons Smarter traffic signal controller Signal system battery backup ROW detection Vehicle Adjust LRV bell volume Wig-wag headlights | Consolidate crossings Eliminate crossings Grade separate Full corridor quad gates & flashers 2 Phase crossing Larger pedestrian refuge areas Other traffic calming measures | |



Completed projects

| Project Type | Project Name | Safety Focus Area | Completion Date | |
|-----------------------------|---|----------------------|-----------------|--|
| Signage Enhancement | +LED flashing no left turn signs | Ē Å 🊗 | Mar 2022 | |
| Signage Enhancement | +LED flashing another train coming signs at station intersections | Å Å © | Sep 2023 | |
| Signage Enhancement | +Other signage updates | ़ी फ़ें क | Jan 2024 | |
| Pavement Markings | +RXR pavement markings in left turn pockets | | Jun 2021 | |
| Pavement Markings | +"LOOK" pavement markings | j ķ | Sep 2023 | |
| Pavement Markings | +Corridor pavement marking refresh | <u> </u> | Sep 2023 | |
| Traffic Signal Enhancements | +Leading pedestrian intervals | Ī ; 🗅 | Aug 2023 | |
| Traffic Signal Enhancements | +Retroreflective tape added to signal heads | 986 | May 2024 | |
| Traffic Signal Enhancements | O Signal reprioritization pilot | ₫ ጵ ⇔ | Jun 2024 | |

⁺ (Preliminary results indicate positive findings) ⁰ (Not included in data analysis)

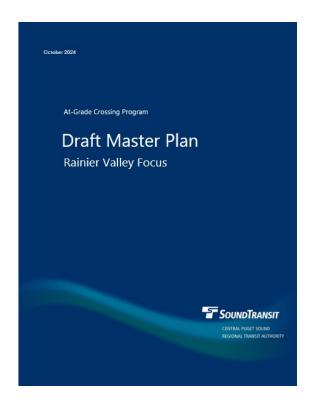


Master Plan objectives



- Establish criteria for identifying and prioritizing enhancements and advancing investments
- Provide a transparent process for program and project decisions
- Collaborate with the public and regional partners
- Identify safety enhancement projects, considerations, and costs
- Summarize corridor data trends before and after project implementation

Master Plan organization



- Executive Summary
- Results
- Master Plan Development Process
- Appendices
 - A Geographic Content
 - B July 2024 Board Motion
 - C Data Analysis and Prior Studies
 - D Rainier Valley At-Grade Crossing Engagement Memo June 2024
 - E Project Pages



Rainier Valley current projects

| Project Type | Project Name Safety Foo | | | Status | Cost Range | Target Completion Date | | | | |
|----------------------------------|---|---|---|----------|--------------|------------------------------|---------|--|--|--|
| Near-Term Projects (2025 – 2026) | | | | | | | | | | |
| Pavement Marking | Trackway Visibility Pavement Markings Pilot | | 序 | ↔ | Fully Funded | \$800K-1M | Q3 2025 | | | |
| Technology | SMART Grant: Rainier Valley Safe Project Pilot, Phase 1 | Ē | 广 | ~ | Fully Funded | \$2.5M | Q3 2025 | | | |
| Signage Enhancement | Another Train Coming Signage Between Stations | | 序 | | Adopted | \$2-3M | Q4 2025 | | | |
| Train Enhancement | Alternating (Wig Wag) Train Headlights | Ē | 广 | ↔ | Adopted | \$2.5M | Q1 2026 | | | |
| Infrastructure Project | Automatic Pedestrian Gate Pilot, Phase 1 | | 序 | | Adopted | \$8-9M | Q2 2026 | | | |
| Infrastructure Project | SMART Grant: Rainier Valley Safe Project Pilot, Phase 2 | Ē | 序 | ↔ | Proposed | \$16-18M | TBD | | | |
| Signage Enhancement | Additional Static Signage and Delineators | | | ↔ | Proposed | \$400K-1M | TBD | | | |
| Signage Enhancement | Another Train Coming Sign Enhancements | | 广 | | Proposed | \$400K-1M | TBD | | | |
| Mid-Term Projects (2027 – 2029) | | | | | | | | | | |
| Infrastructure Project | Automatic Pedestrian Gate Pilot, Phase 2 | | 广 | | Adopted | \$10-11M | Q1 2027 | | | |
| Infrastructure Project | Pedestrian Crossing Upgrades Between Stations | | 序 | | Proposed | \$7-9M | TBD | | | |

^{*} **Proposed**: Projects under consideration and not yet programmed. **Adopted**: Projects in the development or design phase but not yet fully funded for construction. **Fully Funded**: Adopted projects with secured funding and an approved budget for full implementation.



SDOT coordination



SDOT partnership is critical to advancing safety enhancement projects in the Rainier Valley.

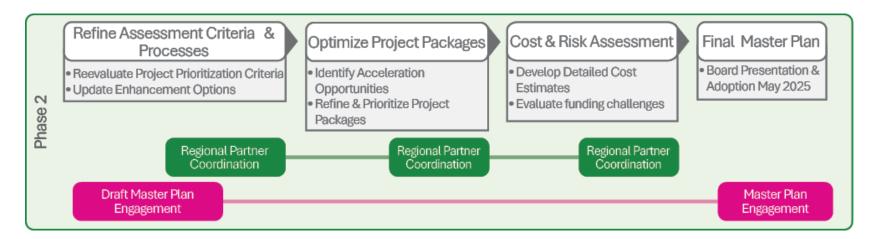
- Responsible for implementing significant changes to their roadways and the operation of traffic signal systems, including:
 - Vehicle speed limit changes
 - Lane reductions
 - Vehicle & Pedestrian gates
 - Restricted movements
 - Closing or consolidating intersections
- Permitting
- Maintenance and Operations Agreements



Advancing the Master Plan projects

Phase 2 is focused on the steps needed to advance and finalize the Master Plan between **December 2024 – May 2025**

This phase will integrate feedback from the Board, gather and integrate community feedback on assessment criteria and enhancements, and continue coordination with SDOT



Program Engagement – Three Focus Areas

Master Plan Engagement

• Fall 2024 – Spring 2025

Project Development and Construction

Beginning as early as Winter 2024

Ongoing Safety Education and Awareness



Columbia City S ORCAS ST S GRAHAM ST Othello S OTHELLO ST STATION S KENYON ST Rainier Beach C Link light rail Northgate Angle Lake) S NORFOLK ST Pedestrian-only crossing

Tailored, Equity-Focused Engagement

Connecting with communities where they are.



Local events such as Talipapa Cultural Festival & Rainier Boo Bash



Multicultural engagement & media



Visually rich accessible materials



Canvassing businesses, neighbors, & community gathering spaces



Next Steps

November Board Meeting

- Presentation of draft System-wide Master Plan
- Additional details on Automatic Pedestrian Gate pilot projects

Community Engagement Continues

- Survey closes at the end of October
- 3-Year Engagement & Communications Plan
 - Prioritize equity-centered engagement and community-based organization coordination to shape plan implementation
 - Focus on in-person and community events and promote January open house

May Board Meeting

Presentation of final At-grade Crossing Master Plan

Key Early Engagement Actions

November

- Identify and orient Community Liaisons
- Community-based organization briefings
- · Launch website
- Develop education and awareness campaign
- Initiate canvassing
- · Expand youth engagement
- Media and social media outreach
- Develop online open house and survey

December

- Launch canvassing
- Plan in-person and online open house
- Develop postcard mailer
- Prepare posters
- · Plan community liaison events



Thank you.



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