



Update on projects in construction

*System Expansion Committee
2/8/2024*



Why we're here

Quarterly Update on Projects in Construction

- Construction status
- Risks, challenges & mitigations
- Next steps

Briefing only, no action required today.

Hilltop Tacoma Link

Hilltop Tacoma Link Extension

Project status

- Began Revenue Service on September 16, 2023.
- Completing work on open items identified during Pre-Revenue phase.

Project risks and mitigations

- Time and cost required to complete all tasks identified during Pre-Revenue.
- Contractor submitted request for change claim on the construction contract – working with ST Legal (and outside experts) to respond.
- Additional Board action will be required.



Open for Revenue Service

East Link

East Link Starter Line

Project status:

- Redmond Technology Station garage opened October 30, 2023.
- Started pre-revenue as planned November 1, 2023
- Simulated service started as planned January 22, 2024.
- Overlake Village Pedestrian bridge opening celebration January 24.
- Pedestrian crossing safety enhancements continue.
- Tracking for spring 2024 opening.



Overlake Village Station Pedestrian Bridge Crossing SR-520 Opening Day

East Link Starter Line

Project risks and mitigations

- Closed a top risk Downtown Bellevue tunnel smoke control modifications in November 2023.
- Started 40-days of simulated services as planned on January 22, 2024.
- Managing completion of remaining work, including:
 - Safety enhancements such as elevated station guard rails and at-grade security fencing – night & weekend work;
 - Replacement of platform tiles at South Bellevue and Spring District Stations – anticipate early March completion; and
 - Punchlist and warranty work.
 - Collaboration with WSDOT on Air Space Lease amendments.



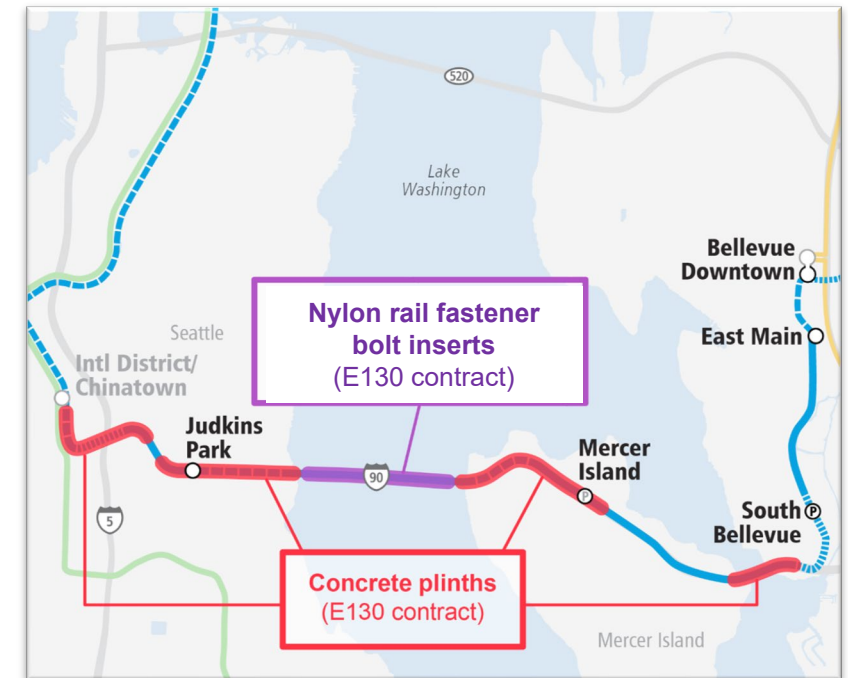
East Link (I-90 Corridor)

Plinth Rebuild Status

- Concrete track plinth demolition at 95% and reconstruction at 64% complete as of Jan. 29, 2024
- Forecasted track plinths completion slipped from April to July 2024 still within 2025 opening
- Nylon Insert replacement completed on floating bridge

| | Field Data Tracking | | | | | |
|--------------|------------------------------------|--------------------|--------------------|------------------|---------------------|----------------------|
| | Date | 1/29/2024 | | | | |
| Location | Sum of Total Track Feet | As-PLANNED - FIELD | % Complete PLANNED | As-Built | % Complete AS-BUILT | % Actual vs. Planned |
| IDS | 767.47 | 4,036.50 | 56% | 2,678.00 | 37% | 66% |
| D2 | 7,196.11 | | | | | |
| JPS | 4,009.01 | 2,488.00 | 62% | 2,181.00 | 54% | 88% |
| MBT | 7,029.08 | 7,906.50 | 112% | 7,036.00 | 100% | 89% |
| WA | 4,722.28 | 766.00 | 16% | 627.00 | 13% | 82% |
| EA | 4,630.87 | 1,205.00 | 26% | 1,018.50 | 22% | 85% |
| MIT | 5,959.02 | 6,228.00 | 105% | 5,601.50 | 94% | 90% |
| MIS | 2,159.72 | 2,592.50 | 120% | 2,152.00 | 100% | 83% |
| ECB | 5,561.80 | 6,257.50 | 113% | 5,566.50 | 100% | 89% |
| Total | 42,035.36 | 31,480.00 | 75% | 26,860.50 | 64% | 85% |
| | % (Actual VS Project Total) | 64% | | | | |
| | % (Actual VS Planned) | 85% | | | | |

As of January 29, 2024



East Link (I-90 Corridor)

Project risks and mitigations

- Ongoing post-tension cable investigation at floating bridge approaches – 3 of 5 areas complete with no additional strengthening required.
- Completing Polyurea coating on floating bridge this summer.
- Completing power and systems tie-in work at International District / Chinatown Station to connect 1-Line with minimal disruptions to passengers.
- Commitment from contractor to staff and manage work to meet schedule.



Completed Track on East Channel Bridge Looking West

Downtown Redmond Link

Downtown Redmond

Project status

- Overall, 85.4% complete; completed 70% of the OCS pole installations; outfitting systems rooms with equipment.
- Stations & Garage: installed structural elements; constructing finishes (interior and exterior), roofing, and Mechanical/Electrical/Plumbing/Fire Protection.
- Tracking for spring 2025 opening

Project risks and mitigations

- Potential PSE delays for power service tied to storm response priorities- continually monitoring with PSE staff.
- Deferred station tile work to mid-March; mitigate risks of cold weather installation and damage from adjacent construction work.
- Repairing/testing system ductbank on elevated structures – reviewing mitigation options for the installed ductbank.
- Implementing early start to System Integrated Testing.



Federal Way Link

Federal Way

Project status

- 83% complete
- Advancing integrated construction (e.g., trackwork, stations, garages and systems work).
- Achieved substantial completion – LRV storage track on north end of alignment. Available to store up to 16 LRV's.
- Structure C long span bridge – completed both long span pier tables, now constructing the long span.
- Tracking for 2026 opening.

Project risks and mitigations

- Collaboration with WSDOT's SR 509 (interface risk) – close coordination with our partners WSDOT and our respective contractors.
- Achieving all Pre-revenue readiness requirements as planned – coordinating to streamline requirements.
- Advancing Bus Loop Activation in Downtown Federal Way – close collaboration with City of Federal Way.



***Lynnwood Link &
NE 130th Street Infill Station***

Lynnwood and NE 130th Street Infill Station

Project status

- 97% complete
- Tracking for Summer / Fall 2024 opening.
- Commenced System Integration Testing (SIT) – October 2023, planned completion is March 2024.
- Commenced NE 130th Street Infill Station Finishes contract, tracking for 2026 opening.

Project risks and mitigations

- Securing Certificates of Occupancy from the multiple jurisdictions – conducting frequent meetings with each jurisdiction to minimize potential delay impacts.
- Remaining station finishes on NE 130th Street Infill Station adjacent to active rail traffic. Installing physical barriers at platform level.



Light rail vehicle fleet expansion

Series 2 Light rail vehicle fleet expansion

Project status

- Manufacturing and assembly approx. 88% complete.
- 124 Series 2 vehicles delivered, 103 conditionally accepted for revenue service.
- Series 1 vehicle Automatic Train Protection retrofit implementation completed in 25 out of 62 Series 1 LRVs. Expected completion for all 62 LRVs is Dec 2024.

Current risks and mitigations

- Warranty issues limiting vehicle availability. Warranty issues was managed to less than 10% fleet size in Q4 2023.
- OMF Central storage capacity constrains pace of commissioning work until mainline access to OMF East is available.
- Operational risk of not having enough vehicles and storage to support planned service levels – balancing work on warranty items with commissioning time to optimize LRV availability and planning for alternate overnight storage locations.



***Sumner, Kent, and Auburn
Stations Parking and
Access Improvements***

Sumner, Kent, and Auburn Station Parking and Access Improvements

Project status

- Sumner final design progressing to 100%, start of construction Q1 2024.
- Kent design-build contract Notice to Proceed (NTP) issued December 21, 2023.
- Auburn Notice to Proceed (NTP) issued January 16, 2024.

Project risks and mitigations

- City permitting may take longer than expected and include unanticipated conditions – continue coordination with City jurisdictions to identify process efficiencies and reach alignment on conditions.
- Complex property acquisition in Auburn delayed notice to proceed - schedule and cost impact in review.



Sumner design-builder's proposal rendering



Auburn design-builder's proposal rendering

Stride Bus Rapid Transit

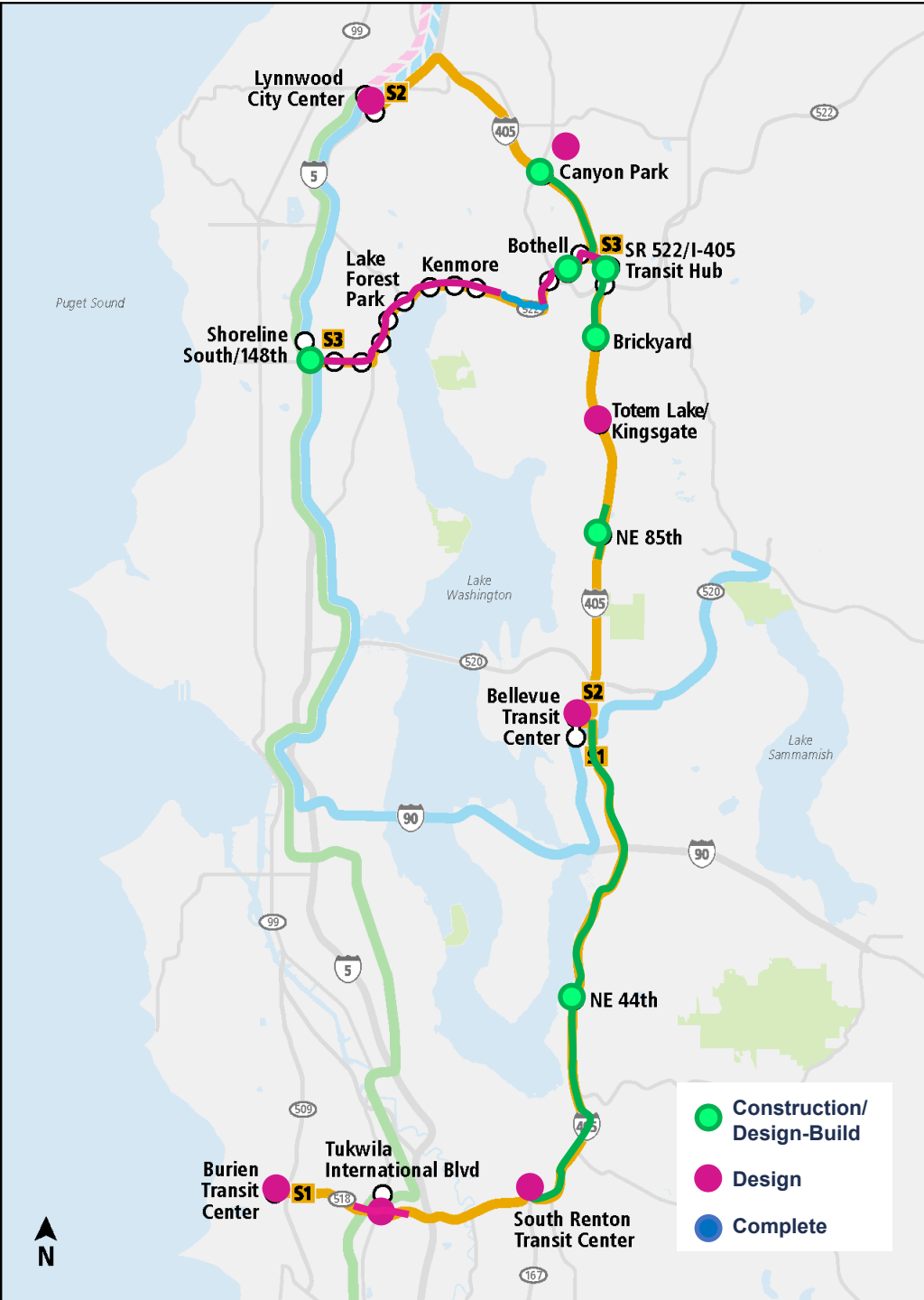
Stride BRT Program status

Construction

- S1 Burien-Bellevue
 - NE 44th design-build underway
 - South Renton Transit Center: Complete design and advertise for construction in 2024
- S2 Bellevue-Lynnwood
 - NE 85th and design-build Brickyard-SR522-Canyon Park design-build underway
- S3 Bothell-Shoreline
 - Complete design and advertise for construction in 2024
 - Bothell-Kenmore BAT lane: completed 2022
- Bus Base North: complete design and award construction contract in 2024

Fleet and Systems:

- Fleet ordered
- Systems to be awarded Q1 2024
- Contracted Service Provider procurement Q1-Q3 2024



Stride Bus Rapid Transit Program

Current risks and mitigations

- Permitting may take longer than expected due to the capacity of partner agencies and the unique nature of projects.
 - Continuing to collaborate closely and resolve issues as they arise, including providing resources to partners to accelerate permitting.
- Right of way acquisition may not progress as quickly as planned
 - Ensuring needed resources are available and moving forward with urgency, while following established processes.
- Market conditions continue to drive cost escalation
 - Tracking market conditions closely and repackaging construction contracts to maximize efficiency.

***S**Tart Program*

Start Program

Project Status

- **East Link:** 15 artworks in 8 stations
 - Final artwork at Wilburton installing now.
- **Lynnwood Link:** 7 artworks at 4 stations
 - North & South Shorelines Stations installing Q3.
- **Downtown Redmond Link:** 12 artworks at 2 stations
 - Artwork installation targeted for Q3.
- **Federal Way Link:** 8 artworks at 3 stations
 - Federal Way Downtown garage art installation Q2.
- **Souder garages:** 4 artworks at 3 stations
 - Auburn Souder platform art installation Q3.

Project risks and mitigations

- **Weather Delays:** Heated canopy over scaffolding for curing glass adhesives.
- **Permits from AHJs & KCM:** Close communication and Subject Matter Experts on call.



South Bellevue Stations' acoustic panels



Hummingbird and Kitchen Curtin installation at Lynnwood City Center Stations

Summary

Next steps for projects in construction

- Continue to advance projects as safely and efficiently as possible.
- Meet quality expectations.
- Focus on resources needed for opening of each line.
- Keep Board apprised of progress and issues.
- Next update in Q2 2024.

Thank you.



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