



Operations & Administration Committee: ST3 Draft System Plan

April 7, 2016

 **SOUND TRANSIT**

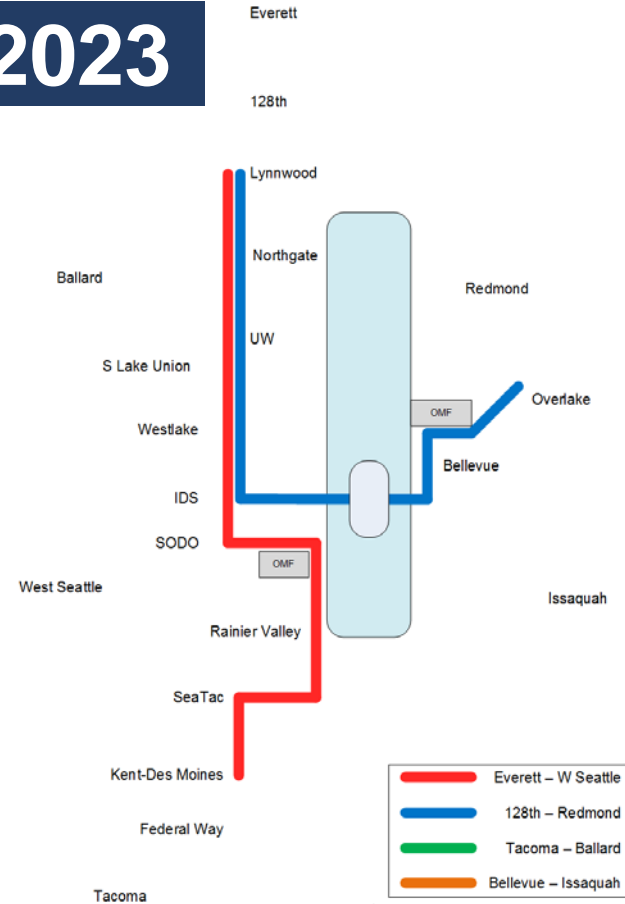
- Review service and Operation and Maintenance Facility (OMF) assumptions
 - Light rail
 - ST Express
 - BRT service
- Building on ST2:
 - Regional assets
- Next Steps

LRT System Operations and OMF Assumptions

ST2 LRT System Operations: 2023

Operation and Maintenance Facilities:

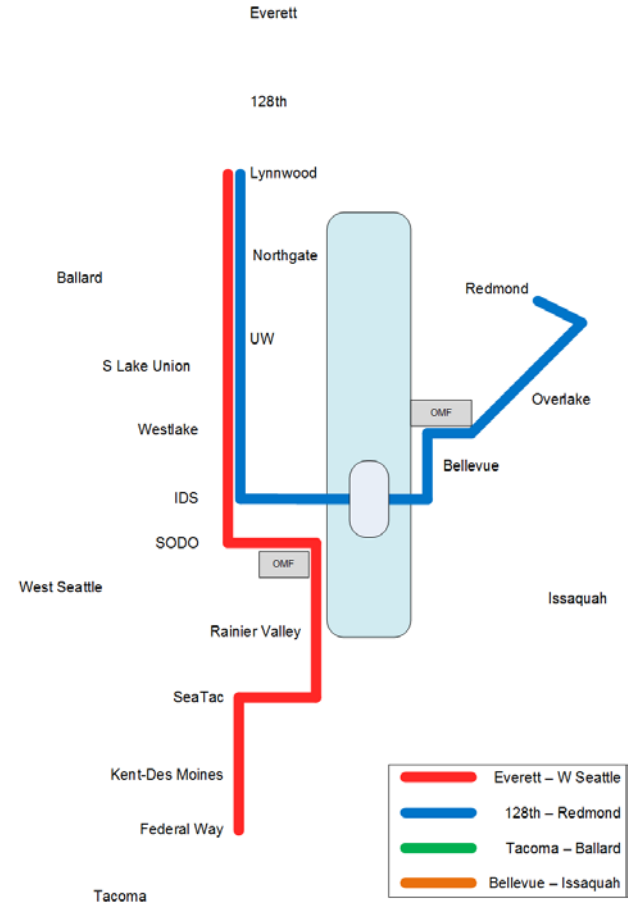
- Forest Street (104 vehicles)
- Bellevue (96 vehicles)



ST3 Draft System Plan: 2028

Operation and Maintenance Facilities:

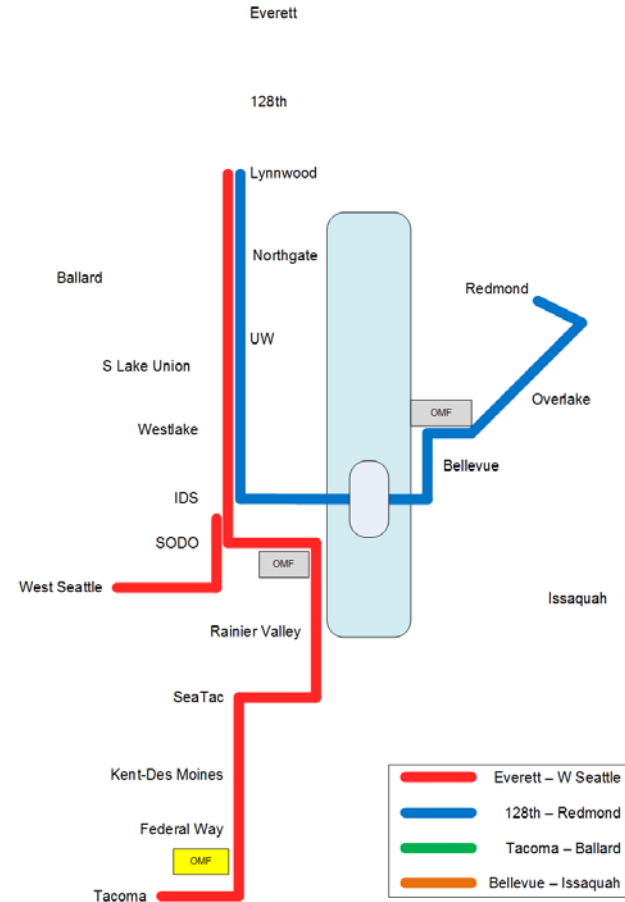
- Forest Street (104 vehicles)
- Bellevue (96 vehicles)



ST3 Draft System Plan: 2033

Operation and Maintenance Facilities:

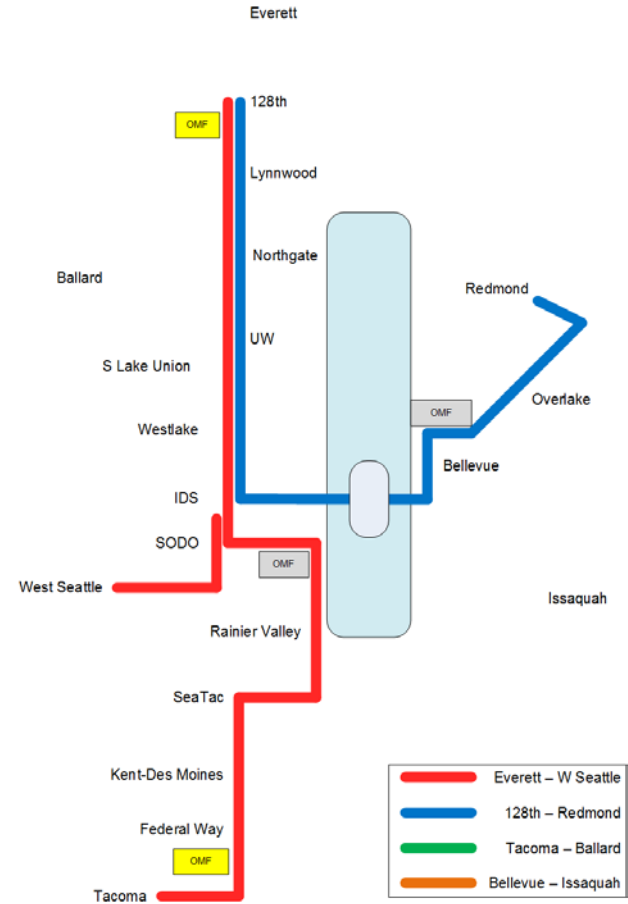
- Forest Street (104 vehicles)
- Bellevue (96 vehicles)
- Connection to Forest Street to provide service for West Seattle
- New facility in the south (~ 152 vehicles)



ST3 Draft System Plan: 2036

Operation and Maintenance Facilities:

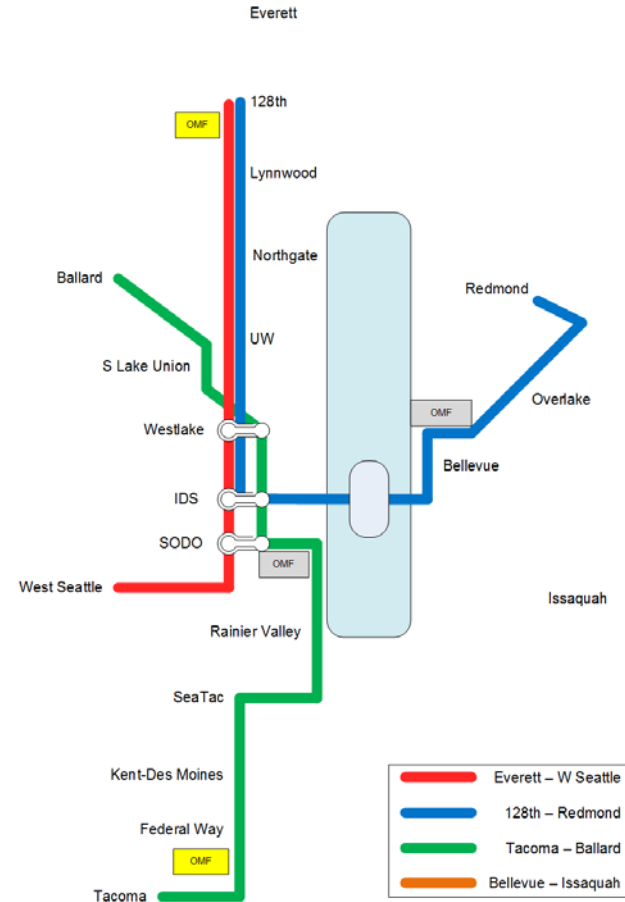
- Forest Street (104 vehicles)
- Bellevue (96 vehicles)
- Connection to Forest Street to provide service for West Seattle
- New facility in the north (~108 vehicles)
- New facility in the south (~152 vehicles)



ST3 Draft System Plan: 2038

Operation and Maintenance Facilities:

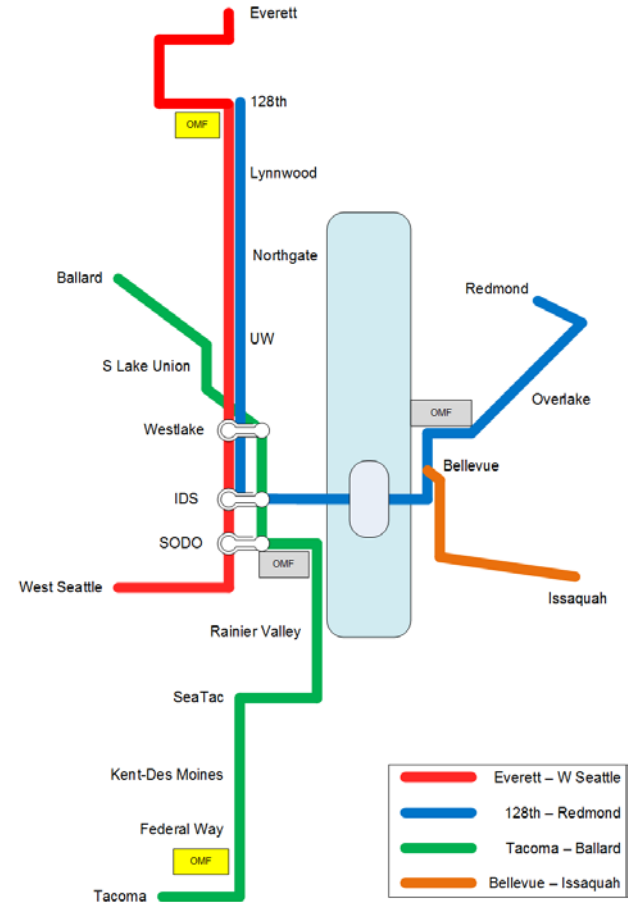
- Forest Street (104 vehicles)
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- Connection to Forest Street to provide service for West Seattle
- New facility in the north (~108 vehicles)
- New facility in the south (~152 vehicles)



ST3 Draft System Plan: 2041

Operation and Maintenance Facilities:

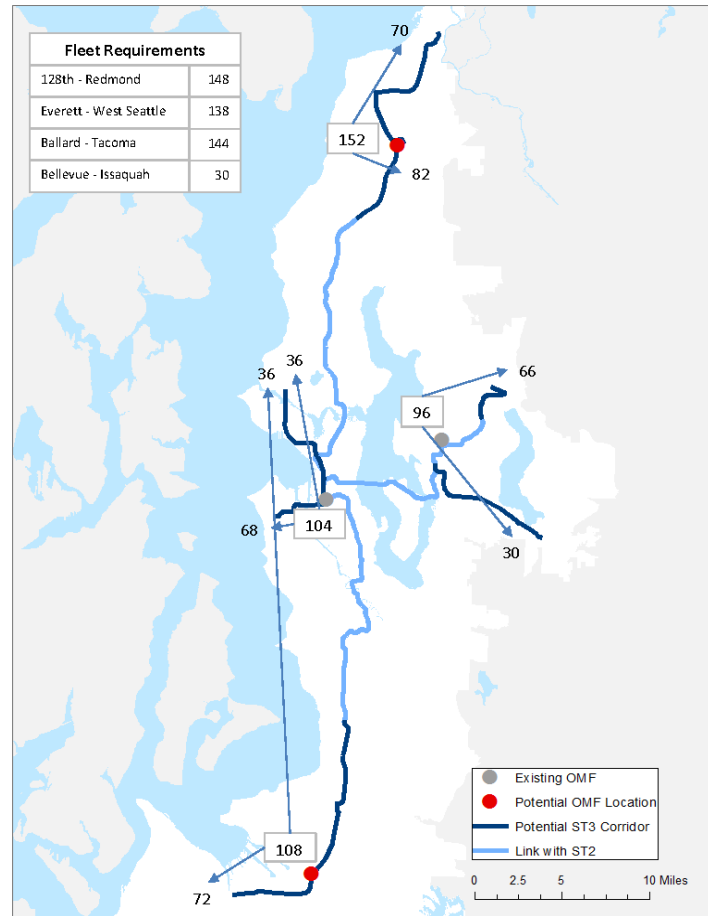
- Forest Street (104 vehicles)
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- Connection to Forest Street to provide service for West Seattle
- New facility in the north (~108 vehicles)
- New facility in the south (~152 vehicles)



ST3 Draft System Plan: Potential LRT Buildout

Operation and Maintenance Facilities:

- ~460 total vehicles
- Four operation and maintenance facilities
- Serve regional LRT system



ST Express/BRT System Operations and OMSF Assumptions

KEY

PROPOSED ST3 PROJECTS

- Link Light Rail
- Bus Rapid Transit
- Sounder Rail
- Proposed shoulder-running buses / speed and reliability improvements
- Environmental study
- Future investment study

CURRENT AND PLANNED SERVICE

- Link Light Rail
- Sounder Rail
- ST Express Bus

STATIONS

- New station
- New station / added parking
- Improved station
- Major rail transfer

NOTE: All routes and stations are representative.

EVERETT



DRAFT ST3 System Plan: BRT and ST Express

Projects	Draft Schedule
<p>ST Express:</p> <ul style="list-style-type: none"> Approximately 600K annual hours to maintain interim express bus service levels in HCT corridors 	On-going
I-405 BRT: Lynnwood to Burien	2024
<p>SR 522 & 145th St. BRT:</p> <ul style="list-style-type: none"> UW Bothell to 145th Light Rail Station Includes service from Woodinville 	2024

ST Express in ST3 | Network Change

- Truncate ST Express service in corridors served by ST2 Link
- Link is the primary connection to Downtown Seattle
- ST Express provides connections to Link Stations at:
 - Lynnwood
 - Kent-Des Moines
 - Downtown Bellevue/South Bellevue
 - University of Washington



ST Express in ST3 | Service Hours

Approximately 600,000 annual platform hours

- Corridor service maintained at existing levels
- Accounts for savings from I-405 and SR-522 BRT.

Expansion of LRT service

- ST Express annual platform hours will decrease over 25 year plan as light rail service increases
- Enables transit partners to repurpose their service hours to meet needs



BRT Platform Hours:

- BRT: I-405 and SR 522: ~ 200,000 annual platform hours

Additional Fleet:

- Approximately 50 total BRT buses to be operated and maintained

Operation and Maintenance Facilities:

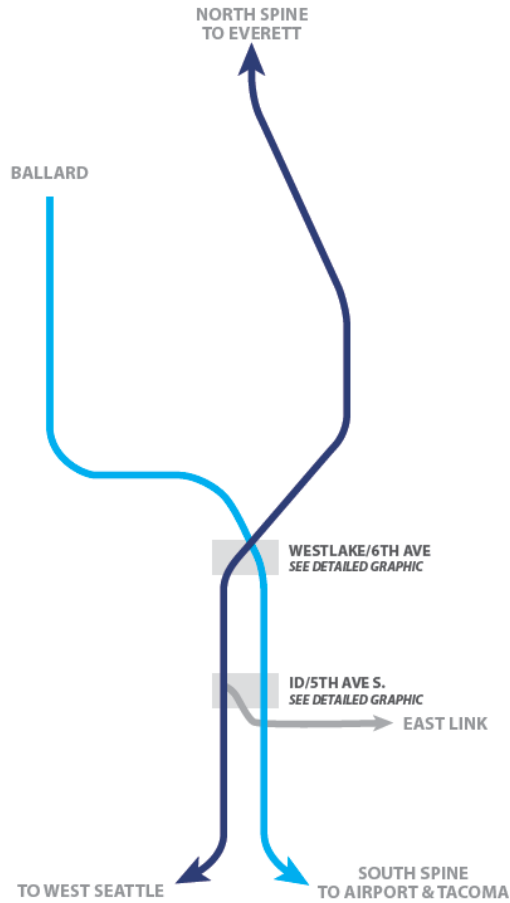
- Flexibility to meet bus maintenance needs during implementation of ST2 and ST3
- Two facilities identified to meet service needs
 - ST2 provides funding for one base
 - ST3 satellite facility sized for BRT services
 - Representative facilities identified at each end of the I-405 BRT corridor to support BRT and ST Express service
- Constructing a BRT bus base addresses ST future capacity needs
- Other transit partners are running out of capacity at transit bases
- ST3 Draft System Plan assumes continued reliance on partners for some ST Express service

- Proceed with assumptions as presented here
- Refine capital costs of OMFs based on representative locations
- Include representative locations within final ST3 Plan

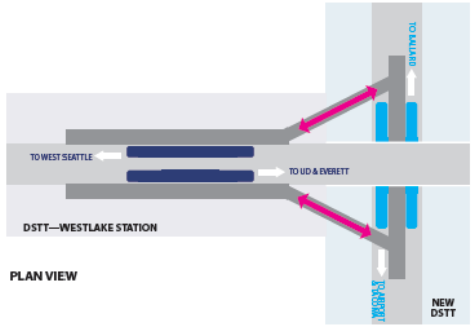
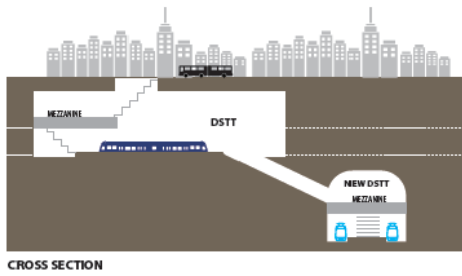


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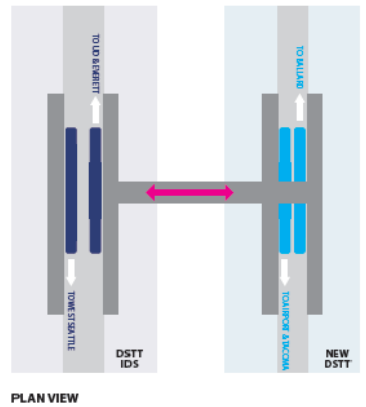
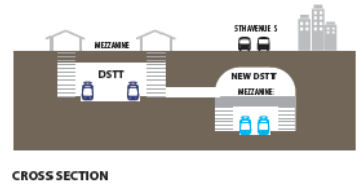
Downtown Seattle Tunnel



WESTLAKE/6TH AVE STATIONS



ID/5TH AVE S. STATIONS



ILLUSTRATIONS NOT TO SCALE

DRAFT ST3 System Plan: Light Rail



Projects	Draft Schedule
Redmond Technology Center to Downtown LRT	2028
Kent/Des Moines to Federal Way LRT	2028
Federal Way to Tacoma Dome LRT	2033
West Seattle to Downtown Seattle LRT	2033
Lynnwood to 128 th St. SW (Mariner) LRT	2036
Infill Light Rail Station: Graham Street	2036
Infill Light Rail Station: Boeing Access Road.	2036
Ballard to Downtown Seattle LRT (with new downtown rail tunnel)	2038
Tacoma Link Extension to Tacoma Community College	2041
128 th St. SW (Mariner) to Everett LRT via Southwest Everett Industrial Center and Evergreen Way	2041
Bellevue to Issaquah LRT	2041