

# Bridge Seismic Program Update

Levy Oversight Committee

January 9, 2024

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# Key Takeaways

- Timely delivery on Levy commitments, including on the Bridge Seismic Program, is a top priority
- SDOT is making **accelerated but careful progress** on remaining bridge seismic reinforcement projects to meet the Levy ordinance goal of 16 total bridge seismic projects
- In April 2023, SDOT informed LOC that 5 bridges (including 4 pedestrian bridges) were added to the bridge seismic program workplan
  - These bridges are vulnerable to seismic events
  - Completing seismic reinforcements on pedestrian bridges aligns with goals of improving pedestrian safety, ensuring safe access to transit
  - Projects will also reduce impacts if an earthquake occurs to arterial corridors that are critical for all modes of travel

# Key Takeaways continued

- The 5 bridges added to the bridge seismic program workplan were as follows:
  - 45th Ave NE Pedestrian Bridge
  - 13th Ave NW/Holman Rd NW Pedestrian Bridge
  - Rainier and MLK Jr Way Pedestrian Bridge
  - N 102nd and Aurora Pedestrian bridge
  - Lower Spokane St Swing Bridge Silt Removal
- To prepare for unexpected issues, SDOT advanced three extra bridge seismic reinforcement projects to concept design phase, including McGilvra Blvd Bridge
- Due to findings during Rainier/MLK Ped Bridge design phase and their impacts on project schedule, SDOT will now construct seismic reinforcements on McGilvra Blvd Bridge instead of Rainier/MLK Ped Bridge as part of the Levy to Move Seattle
- SDOT has advanced several bridge seismic reinforcement projects in the design phase to be ready when funds become available, including Ballard Bridge, Fremont Bridge, and Rainier/MLK Ped Bridge



# Rainier/MLK Way Pedestrian Bridge

- In design phase conducted detailed evaluation of the project area
- Identified high risk elements:
  - Contaminated soils
  - Metro route and OCS impacts
  - Sound Transit Link Light Rail structure foundation
- Unlikely approval of environmental permits to start construction in 2024
- Will continue to advance design and pursue the necessary third party approvals



Rainier/MLK Way Pedestrian Bridge



# Status of Bridge Seismic projects as of January 2024:

BRIDGE SEISMIC PROJECTS	STATUS
SW Andover Ped Bridge	<b>Completed</b>
8th Ave NW/NW 133rd St Bridge	
Cowen Park Bridge	
W Howe St Bridge	
McGraw St Bridge	<b>Construction planned to begin in January</b>
Lower Spokane St Swing Bridge Silt Removal	
15th Ave NW/Leary Way Bridge	<b>Design complete;</b> preparing for advertising and construction as part of 15th Ave NW AAC project
Admiral Way N Bridge	
Admiral Way S Bridge	<b>Design complete;</b> preparing for advertising and construction
McGilvra Blvd Bridge	
N 102nd and Aurora Pedestrian Bridge	
15th Ave NE/NE 105th St Bridge	<b>Advertised,</b> awaiting bid opening and Notice to Proceed for construction
13th Ave NW/Holman Rd NW Pedestrian Bridge	
45th Ave NE Pedestrian Bridge	
N 41st St Ped Bridge	
Delridge Way Ped Bridge	

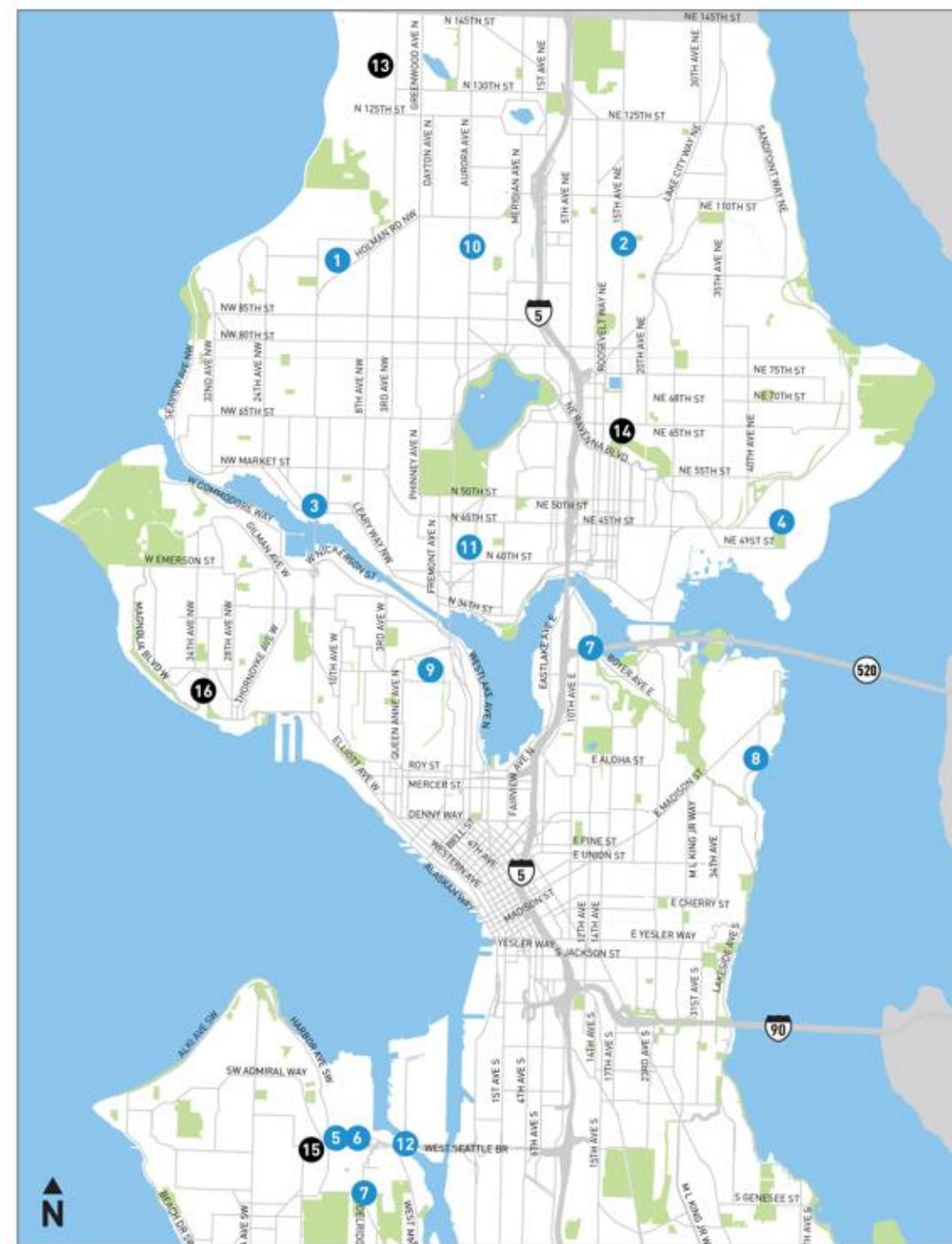
# Map of Bridge Seismic projects with status as of January 2024:

## Active Seismic Retrofit Projects:

- 1 13th Ave NW/Holman Rd NW Pedestrian Bridge
- 2 15th Ave NE/NE 105th St Bridge
- 3 15th Ave NW/Leary Way Bridge
- 4 45th Ave NE Pedestrian Bridge
- 5 Admiral Way North Bridge
- 6 Admiral Way South Bridge
- 7 Delridge Way Pedestrian Bridge
- 8 McGilvra Blvd E Bridge
- 9 McGraw St Bridge
- 10 N 102nd St/Aurora Ave N Pedestrian Bridge
- 11 N 41st St Ped Bridge
- 12 Lower Spokane Street Swing Bridge Silt Removal

## Completed Seismic Retrofit Projects:

- 13 8th Ave NW/NW 133rd St Bridge
- 14 Cowen Park Bridge
- 15 SW Andover St Pedestrian and Bicycle Bridge
- 16 W Howe St Bridge



# Reminder: West Seattle Bridge Seismic Reinforcement



West Seattle Bridge

- Significant bridge repair effort occurred concurrently with bridge program Levy deliverables
- Not Levy-funded, yet was a significant investment in the structure's seismic resiliency
- Strengthening improved structure seismic performance; Pier 18 bearing modifications restored thermal movement

# Questions?



From the entire SDOT Team:  
**Thank you!**

