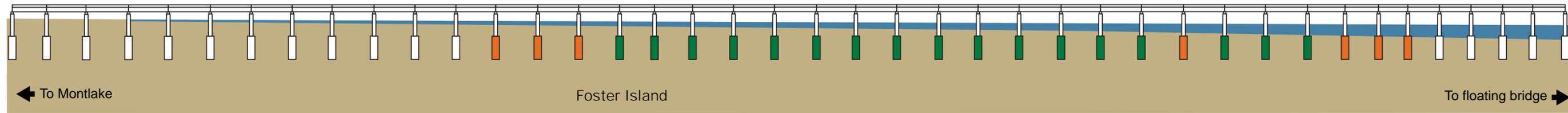


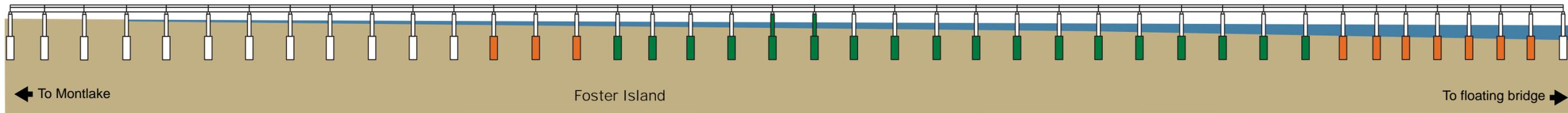
Construction progress on the West Approach Bridge North

November 2015

Beginning of October:



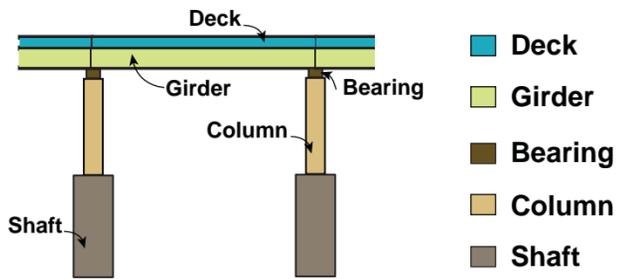
End of October:



PROGRESS KEY: ■ Complete ■ Under construction To be constructed

Note: This graphic is for illustrative and tracking purposes only. It is not to scale and is in profile view.

STRUCTURE LEGEND:



Casings

A bridge casing is a large steel pile that provides the permanent mold for the bridge's concrete foundation. After a casing is fixed into a lakebed, crews drill out soils, place metal rebar inside for strength and then fill the casing with concrete to create the shaft.



Shaft installation

This large machine drills soils out of the casing before crews place metal rebar inside for added strength. Once the rebar is placed inside, crews fill the casing with concrete to create the shaft.



Rebar cage

Rebar cages are used to strengthen the foundation of the West Approach Bridge North (WABN) before concrete is poured to create a shaft. All 99 rebar cages are tied by hand.



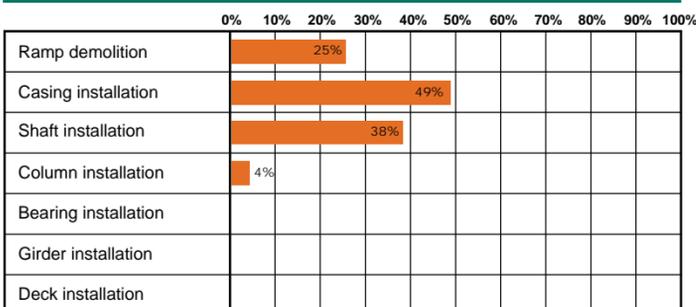
Ramp removal

In order to build the WABN project, crews will remove and replace the westbound SR 520 off-ramp to Lake Washington Boulevard and the westbound SR 520 off-ramp to Montlake Boulevard. Crews will also remove the never-completed R.H. Thomson "Ramps to Nowhere" to restore the Arboretum to a more park-like setting.

BY THE NUMBERS:

- 49 of 99 casings complete
- 38 of 99 shafts complete
- 4 of 95 columns complete
- 0 of 104 bearings complete
- 0 of 353 girders complete
- 0 of 41 sections of roadway deck complete

WABN PROGRESS



Columns

The current west approach bridge's hollow columns are vulnerable to earthquake. All new WABN columns will be strengthened with rebar and filled with concrete. WSDOT also worked with the Seattle Design Commission to incorporate fluted columns into the WABN design for aesthetic appeal.



Bearings

The current west approach bridge structure does not use bearings, which makes it vulnerable to earthquakes. The new WABN structure will use isolation bearings to allow each section of the bridge to move independently as needed during an earthquake.



Girders

More than 350 girders will be set in place before the bridge deck is poured to create a new roadway for drivers.



Roadway deck

Crews will pour 41 sections of roadway deck to complete the 1.2-mile-long WABN structure. After the deck has been poured, crews will grind, pave and stripe the deck before opening the bridge to traffic.

Construction progress on the West Approach Bridge North

November 2015

Key local work completed

- Energized traffic and pedestrian signals at E Lake Washington Boulevard and Montlake Boulevard intersection.
- Placed shelters at northbound and southbound Montlake Boulevard bus stops.
- Installed fencing by E Park Drive E.

Key local work remaining

- Construct median and install traffic barriers along the eastbound SR 520 on- and off-ramps.
- Pave additional lane on eastbound SR 520 off-ramp.
- Restore bike lockers by E Hamlin Street.
- Install fencing by E Roanoke Street, and E Hamlin Street.
- Grind and pave lanes along Montlake Boulevard and E Park Drive E.



Crews install traffic signals at the Montlake Boulevard intersection.



New bus shelter along Montlake Boulevard.

Construction progress on the West Approach Bridge North

November 2015

Upcoming local work

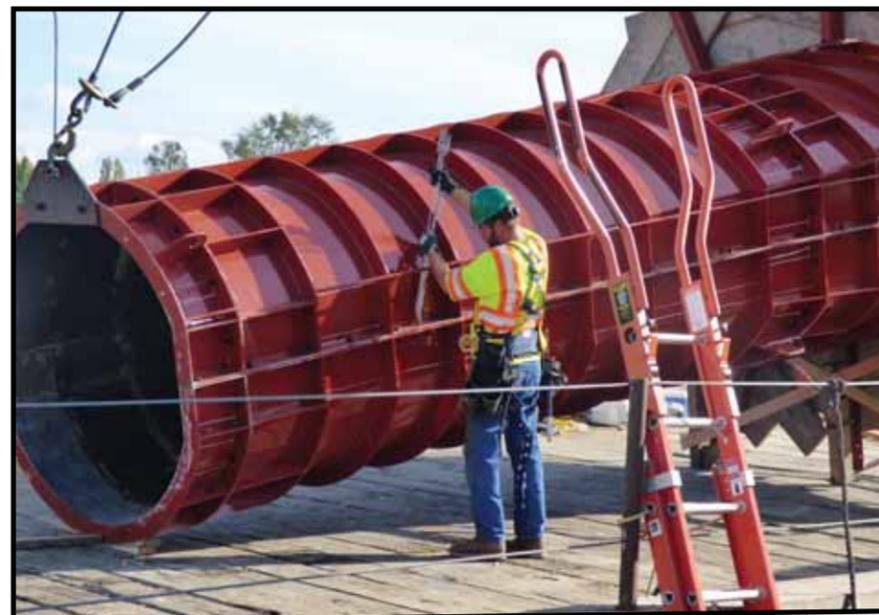
- Potential full SR 520 highway closure on Nov. 20 - 23. Check the SR 520 Orange Page for more updates.
- Open new lane on the eastbound SR 520 off-ramp to Montlake Boulevard.
- Continue constructing the westbound SR 520 off-ramp at 24th Avenue East.

Upcoming in-water work

- Continue demolishing old westbound off-ramp to Montlake Boulevard.
- Continue constructing permanent bridge foundation:
 - Tie rebar cages
 - Install and drill out casings
 - Pour concrete for shafts and columns
- Neighbors may hear and feel vibrations from daytime and nighttime activities.



Crews tie rebar for the foundation of the westbound off-ramp at 24th Avenue East.



Crews prepare forms, used as a mold for the new bridge columns.

Key improvements to Montlake Boulevard East and 24th Avenue East



Note: Curb ramps and pedestrian refuge islands updated to meet ADA standards.



Vicinity map

Bicycle and pedestrian detour during 24th Ave E bridge closure



Key: ■ Bicycle/pedestrian path closure ■ Bicycle/pedestrian path detour ■ Existing bicycle/pedestrian path