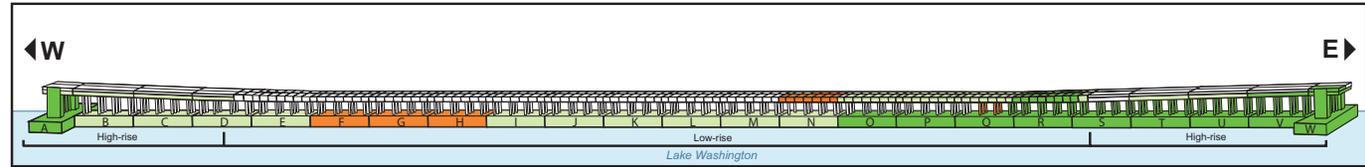


Floating bridge and pontoon construction



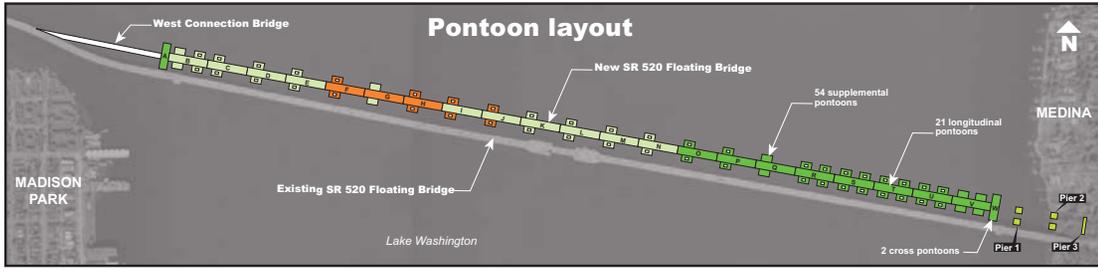
Orange box: Floating bridge construction sites

Floating bridge assembly



GRAPHIC KEY AND FACTS

- 776 low-rise roadway deck sections
 - 23 high-rise roadway deck spans
 - 331 girders
 - 772 columns
 - 21 longitudinal pontoons + 2 cross pontoons
- In Final Location
■ Construction Complete
■ Under Construction
 Future Construction



- Updated: Sept. 25, 2014**
- Current number of pontoons on Lake Washington: 57
 - Total number of pontoons constructed to date: 66
 - Pontoons currently under construction: 11
- Low-rise roadway deck includes pre-cast deck panels being constructed in Kenmore.
- 266 out of 776 pre-cast deck panels have been constructed.
- High-rise roadway deck includes girders and cast-in-place deck.
- 2 out of 23 cast-in-place deck spans have been constructed.
 - 201 out of 331 girders have been constructed. 61 of 331 have been placed.
- The number of columns shown is a representation of the total number of columns.
- 185 out of 772 columns have been constructed.

Note: not to scale, for illustrative purposes only



Aerial view of floating bridge construction on Lake Washington, looking east. Photo taken Aug. 27, 2014



View of floating bridge assembly on Lake Washington, looking east. Photo taken Sept. 8, 2014

How is WSDOT building the new SR 520 floating bridge?

- 1** Build the necessary pontoons, anchors and roadway sections in Aberdeen, Tacoma and Kenmore. Labels: Supplemental stability pontoons (54), Longitudinal pontoons (21), Cross pontoons (2).
- 2** Begin constructing staging area near Medina with construction barges and cranes. Drive temporary piles. Labels: Existing SR 520 floating bridge, Temporary piles.
- 3** Install anchors for the floating bridge. Labels: Crane, Fluke anchor, Gravity anchor, Barge.
- 4** Tow pontoons to Lake Washington.
- 5** Install cofferdams to build bridge piers for East Approach structure. Labels: Longitudinal pontoon, Cross pontoon, Cofferdam.
- 6** Build bridge piers in cofferdams and begin pontoon assembly in staging area. Join supplemental pontoons to longitudinal pontoons at staging area. Labels: Longitudinal pontoon, Supplemental stability pontoon, Cross pontoon, Bridge piers.
- 7** Begin joining longitudinal pontoons with cross pontoon. Labels: Longitudinal pontoon, Supplemental stability pontoon, Bridge piers.
- 8** Begin installation of superstructure on pontoons. Labels: Longitudinal pontoon, Superstructure.
- 9** Continue assembling pontoons and begin construction of the east approach. Labels: Transition span girders.
- 10** Complete roadway superstructure.
- 11** Shift traffic to new floating bridge. Labels: Existing floating bridge to be decommissioned.
- 12** Decommission the existing bridge and remove from Lake Washington. Labels: New SR 520 floating bridge open to traffic.

Note: Images for illustration purpose and are not to scale

Floating Bridge and Landings construction

Construction activities on Lake Washington began in April 2012; the new floating bridge is expected to open to traffic spring 2016.



Final anchor setting on Lake Washington. Photo taken Mar. 15, 2013.



Pier 1 construction for east approach of new floating bridge, looking northwest. Photo taken Jan. 16, 2014.



View of Pontoon N from the Montlake Bridge as it travels into Lake Washington. Photo taken May 4, 2014.



Aerial view of construction activities in Medina and around the east navigation channel, looking south. Photo courtesy of Aequalis Photography. Photo taken May 30, 2014.

Kenmore

From 2012 to 2013 in Kenmore, WSDOT constructed 53 of the 58 anchors needed for the new floating bridge. Today, crews are constructing 776 pre-cast concrete roadway deck sections that will carry traffic on the low-rise section of the new floating bridge.



Completed gravity anchors on a barge in Kenmore. Photo taken April 3, 2012.



Aerial view of the Kenmore site, looking west. Photo courtesy of Aequalis Photography. Photo taken June 30, 2014.

Tacoma

In November 2014, WSDOT will finish constructing 44 supplemental stability pontoons in Tacoma. Crews have completed five construction cycles and are currently working on the sixth and final cycle of pontoon construction in Tacoma.



Steel frame attached to a "T-pontoon" provides additional flotation needed to float supplemental stability pontoons from the casting basin in Tacoma. Photo taken June 2, 2014.



Aerial view of the Tacoma site. Photo courtesy of Aequalis Photography. Photo taken June 30, 2014.

West connection bridge – construction complete

Construction of the new West Connection Bridge was completed in September 2014. This new bridge will link the new SR 520 floating bridge to the highway's existing roadway in Seattle.



Aerial view of SR 520 prior to West Connection Bridge construction, looking east. Photo courtesy of Aequalis Photography. Photo taken Mar. 29, 2013.



Aerial view of West Connection Bridge construction activities, looking east. Photo courtesy of Aequalis Photography. Photo taken Feb. 1, 2014.



Aerial view of West Connection Bridge nearing completion, looking east. Photo courtesy of Aequalis Photography. Photo taken May 30, 2014.



View of West Connection Bridge under construction in Seattle, looking east. Photo taken Apr. 13, 2014.



West Connection Bridge complete. Photo taken Sept. 20, 2014.