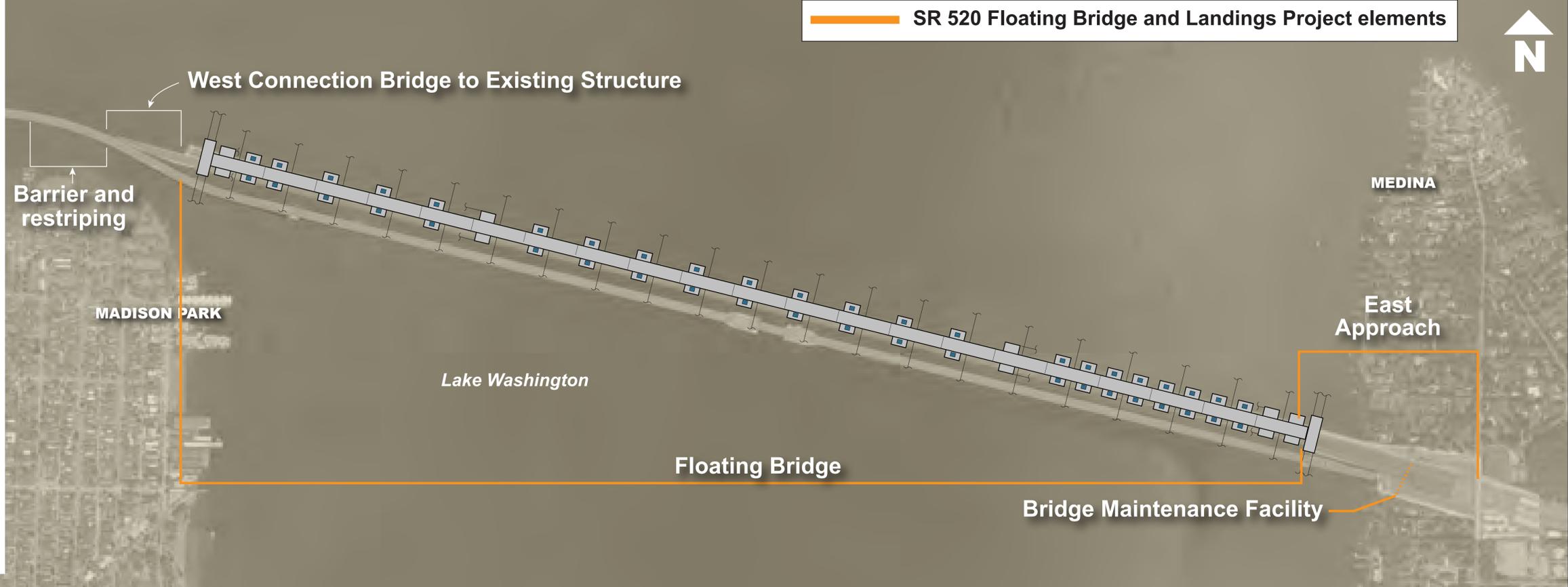


SR 520 Floating Bridge and Landings Project overview

Project elements include:

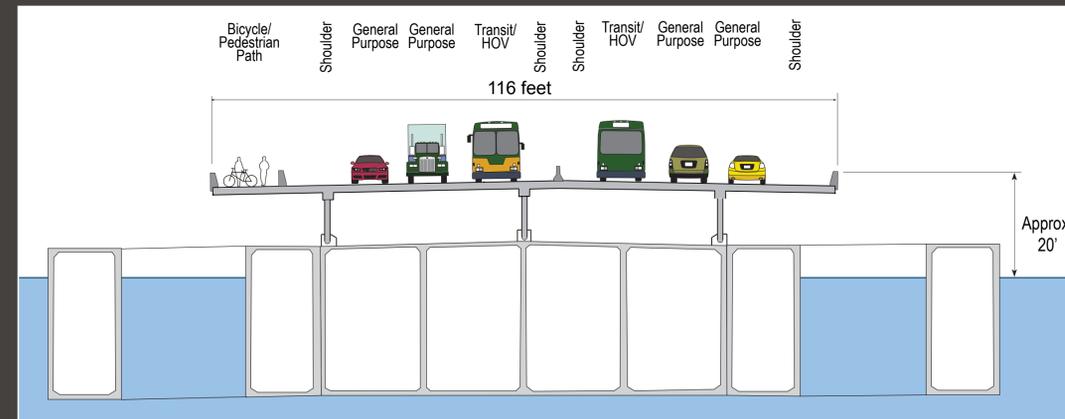
- Design and construction of new six-lane superstructure and roadway, including HOV lanes and a bicycle/pedestrian path.
- Design and construction of supplemental stability pontoons.
- Design and construction of anchors and anchor cables.
- Towing pontoons to Lake Washington.
- Assembly of the new floating bridge.
- Design and construction of permanent East approach with bicycle/pedestrian connection.
- Design and construction of final connection to Evergreen Point Road vicinity.
- Design and construction of transition structures between East and West Approaches and floating bridge.
- Design and construction of new maintenance facility, dock and access.
- Decommission the existing floating bridge.



Construction of a new floating bridge



Floating bridge typical cross section



Towing anchors



SR 520 floating bridge construction around the state

Construction activities are planned at multiple locations in Washington state. pontoons and other bridge components will be towed to Lake Washington for assembly.

A. Grays Harbor (March 2011 – 2014)

- Pontoon construction
- Pontoon moorage

B. Port of Tacoma (Nov. 2011 – mid 2014)

- Pontoon construction
- Pre-cast concrete elements
- Pontoon moorage and outfitting

C. Kenmore (Feb. 2012 – early 2014)

- Anchors
- Deck sections

D. Lake Washington (spring 2012 – 2016)

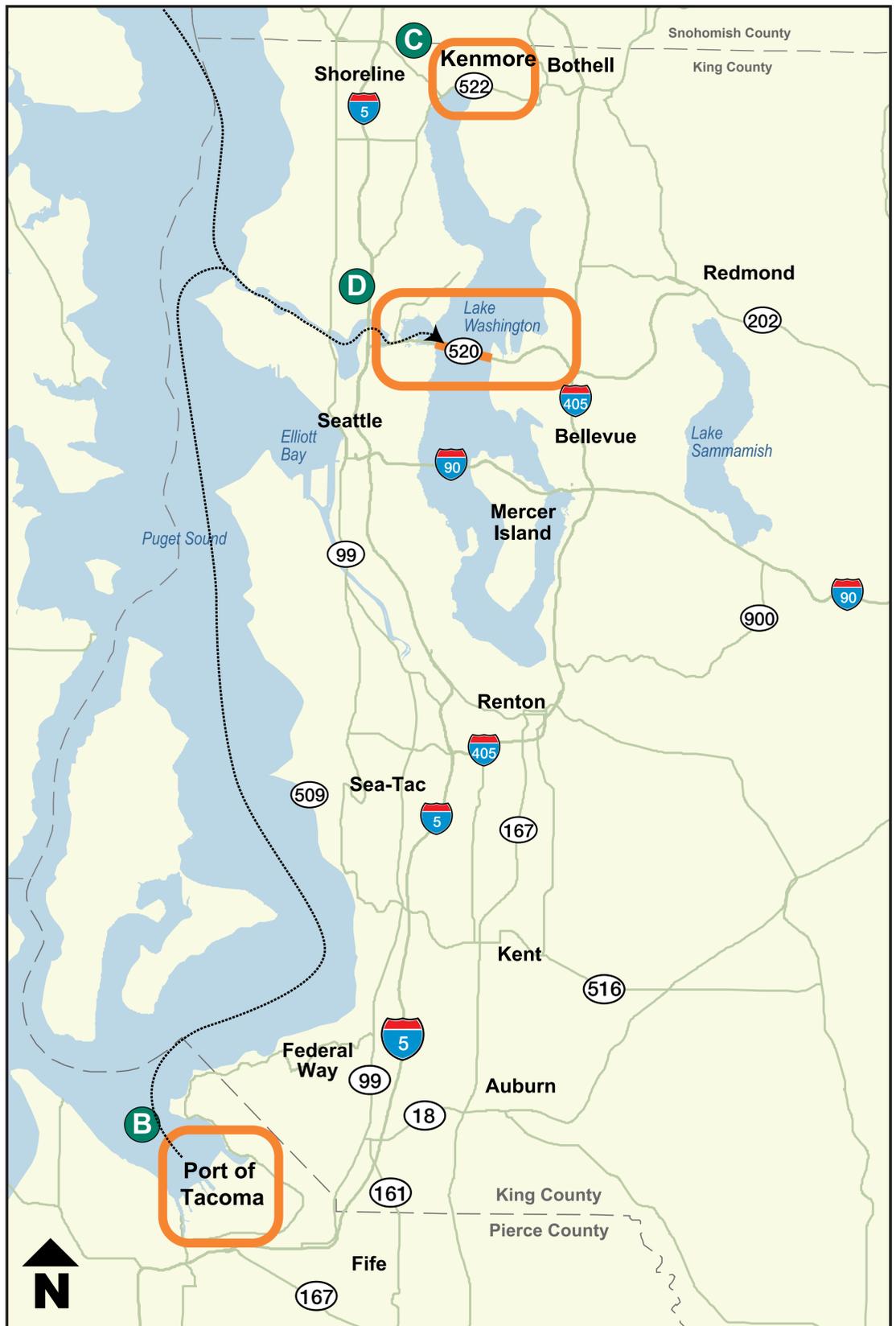
- Pontoon outfitting
- Eastside staging area
- Bridge assembly
- East Approach construction
- Bridge Maintenance Facility
- East and West Approach connections
- Decommission existing bridge



Crews on site in Kenmore.



Pontoon progress in Tacoma.



All towing will occur in designated shipping lanes.

SR 520 floating bridge pontoons

The new SR 520 floating bridge will be supported by three types of concrete pontoons:

Longitudinal pontoons (21) – These are the largest pontoons at approximately 360 feet long. They form the backbone of the bridge and support the roadway superstructure.

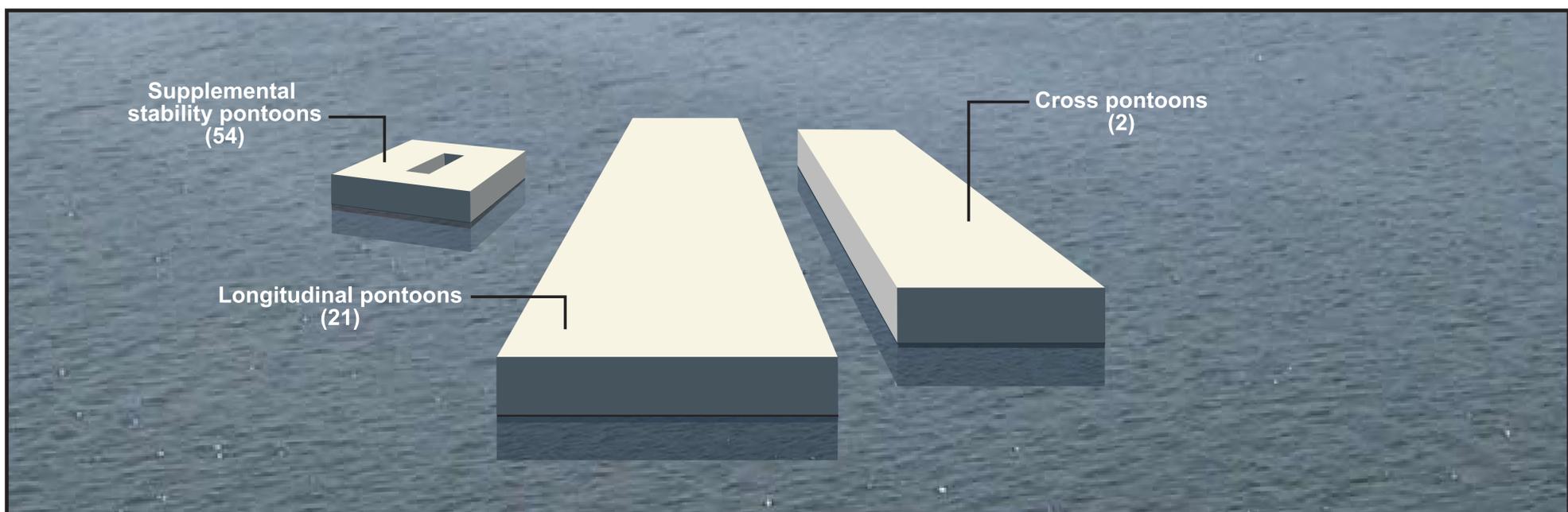
- Constructed in Aberdeen facility

Cross pontoons (2) – These mark the ends of the floating bridge section and the transition to the East and West Approach structures.

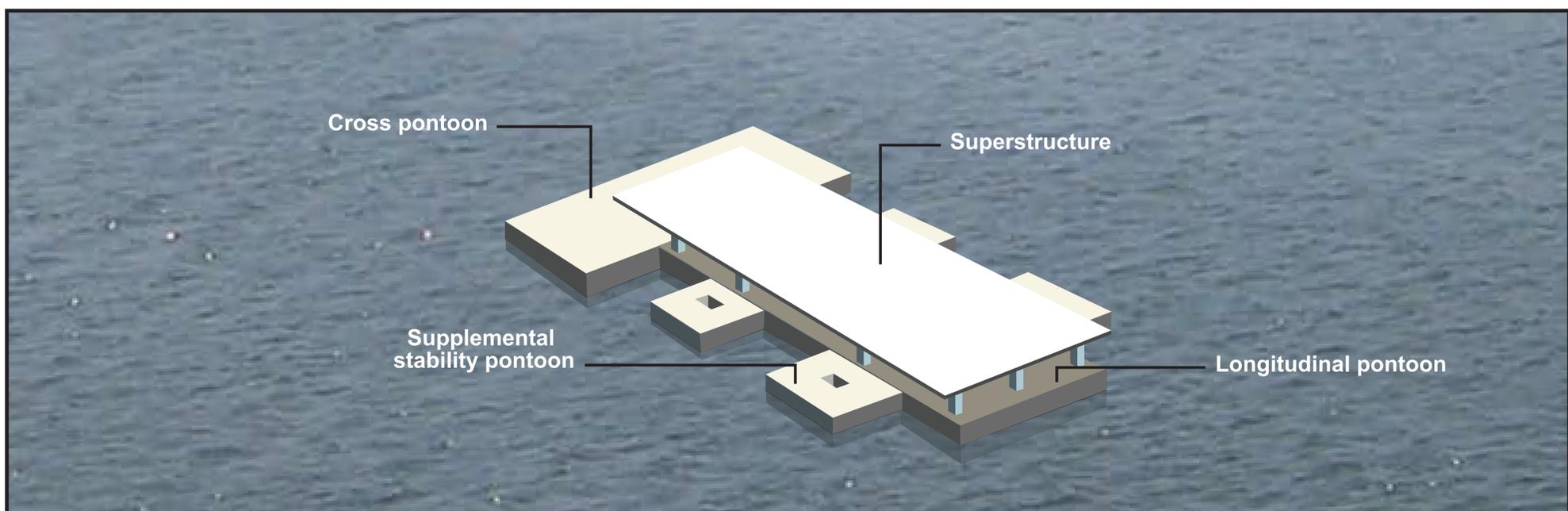
- Constructed in Aberdeen facility

Supplemental stability pontoons (54) – These smaller pontoons help stabilize and support the weight of the new floating bridge.

- Constructed in Aberdeen facility (10) and Tacoma facility (44)

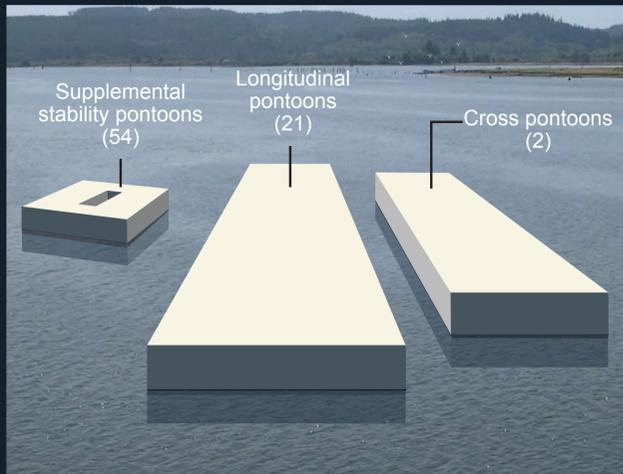


The three types of pontoons that will support the new SR 520 floating bridge.

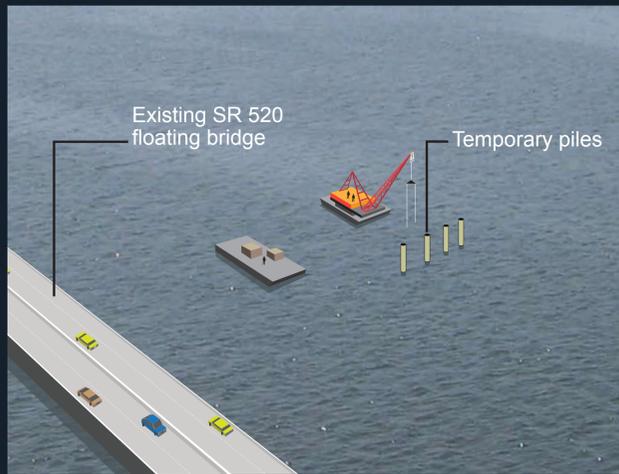


A representation of pontoons being assembled on Lake Washington.

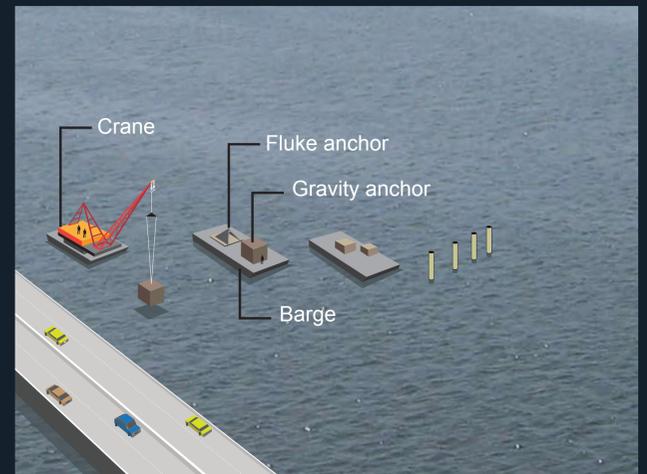
How will WSDOT build the new SR 520 floating bridge?



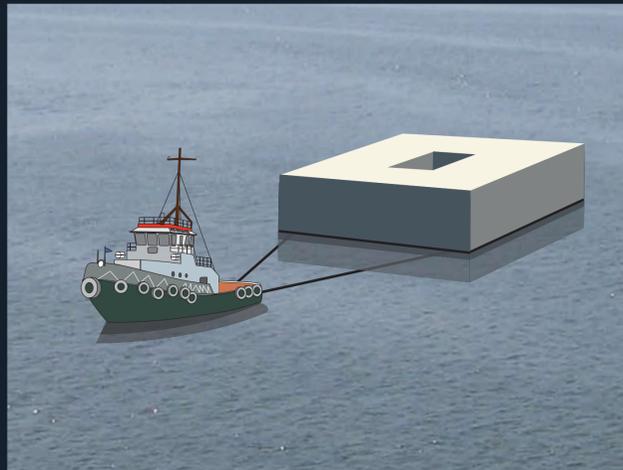
1 Build the necessary pontoons, anchors and roadway sections in Aberdeen, Tacoma and Kenmore.



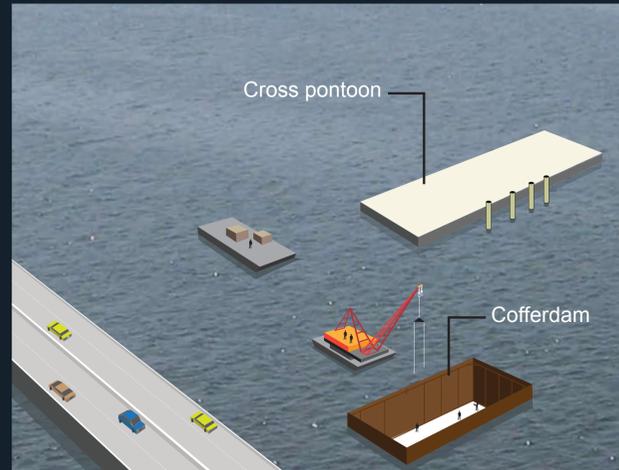
2 Begin constructing staging area near Medina with construction barges and cranes. Drive temporary piles.



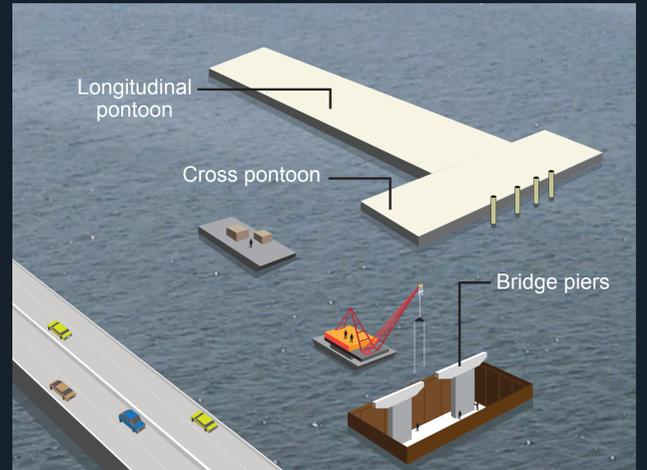
3 Install anchors for the floating bridge.



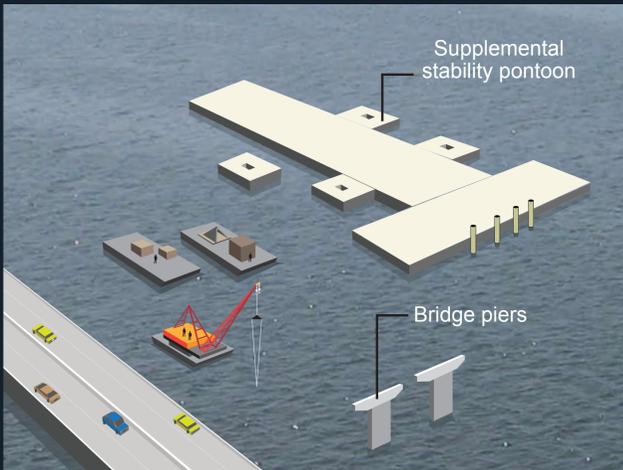
4 Tow pontoons to Lake Washington.



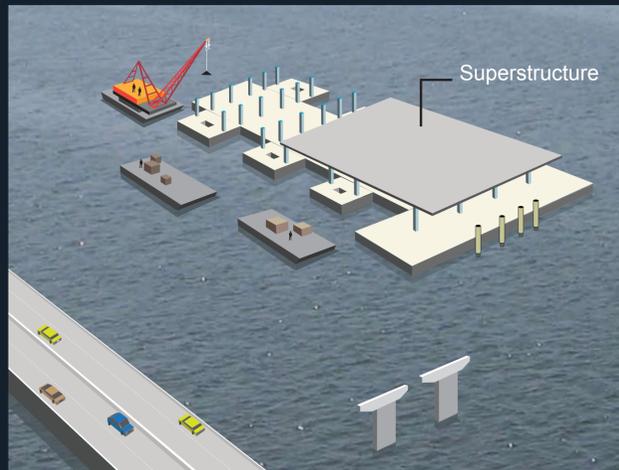
5 Install cofferdams to build bridge piers for East Approach structure. Move cross pontoon into staging area.



6 Build bridge piers in cofferdams and begin pontoon assembly in staging area.



7 Join supplemental pontoons to longitudinal pontoons at staging area.



8 Begin installation of superstructure on pontoons at staging area.



9 Move completed pontoons into position on Lake Washington. Continue assembling pontoons in staging area.



10 Move completed pontoons into position on Lake Washington and complete roadway superstructure.



11 Connect new floating bridge to completed East Approach and west transition span.



12 Shift traffic to new floating bridge. Decommission the existing bridge and remove from Lake Washington.

Note: Images for illustration purpose and are not to scale