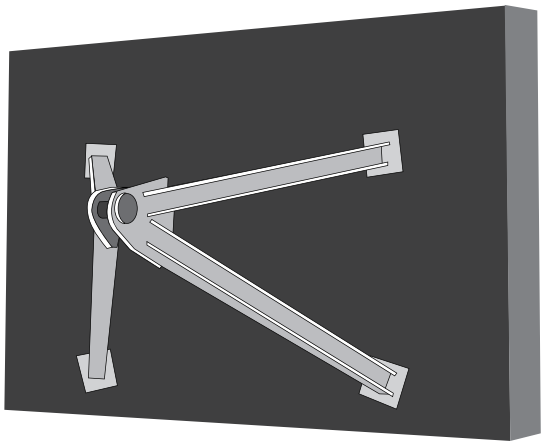
Anchors for the new State Route 520 floating bridge

May 2012

The new State Route 520 floating bridge will be secured to the bottom of Lake Washington by 58 anchors.

FLUKE ANCHORS



Dimensions: 35’ X 26’ X 17.5’

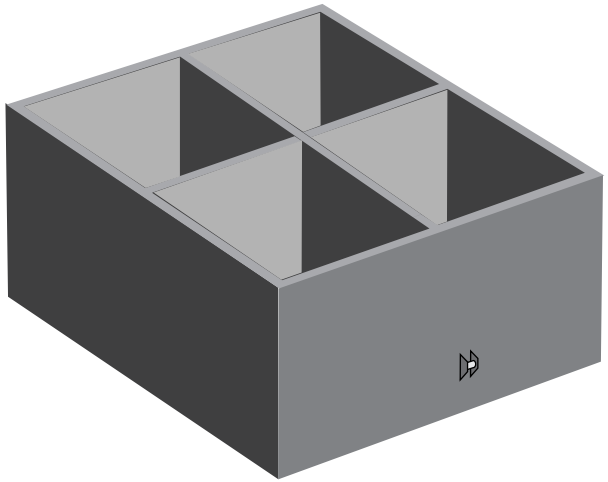
Weight: 100 tons

Quantity: 45

Locations: Deep, soft soils of the lakebed and flat areas.

Manufactured: Kenmore

GRAVITY ANCHORS



Dimensions: 40’ X 40’ X 23’

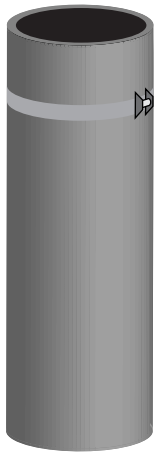
Weight: 420 tons as built;
587 tons fully loaded

Quantity: 8

Locations: Solid soils with sloped topography, typically near shore. Underwater grading and installation of gravel creates a level footing for anchor placement.

Manufactured: Kenmore

DRILLED SHAFT ANCHORS



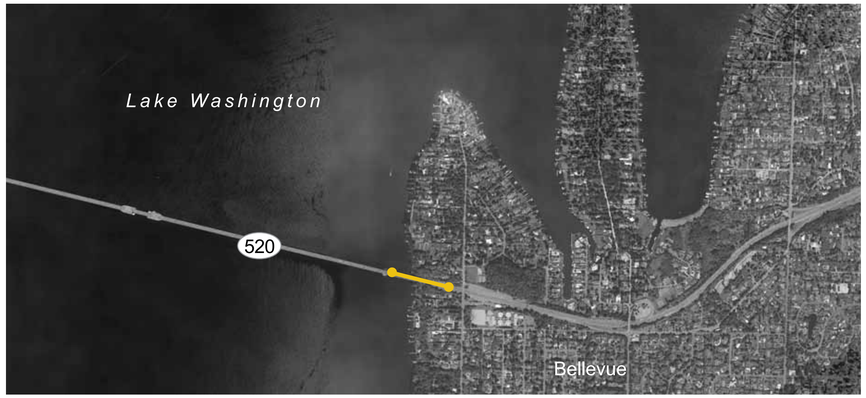
Dimensions: 10’ diameter drilled shaft, 79’-92’ long

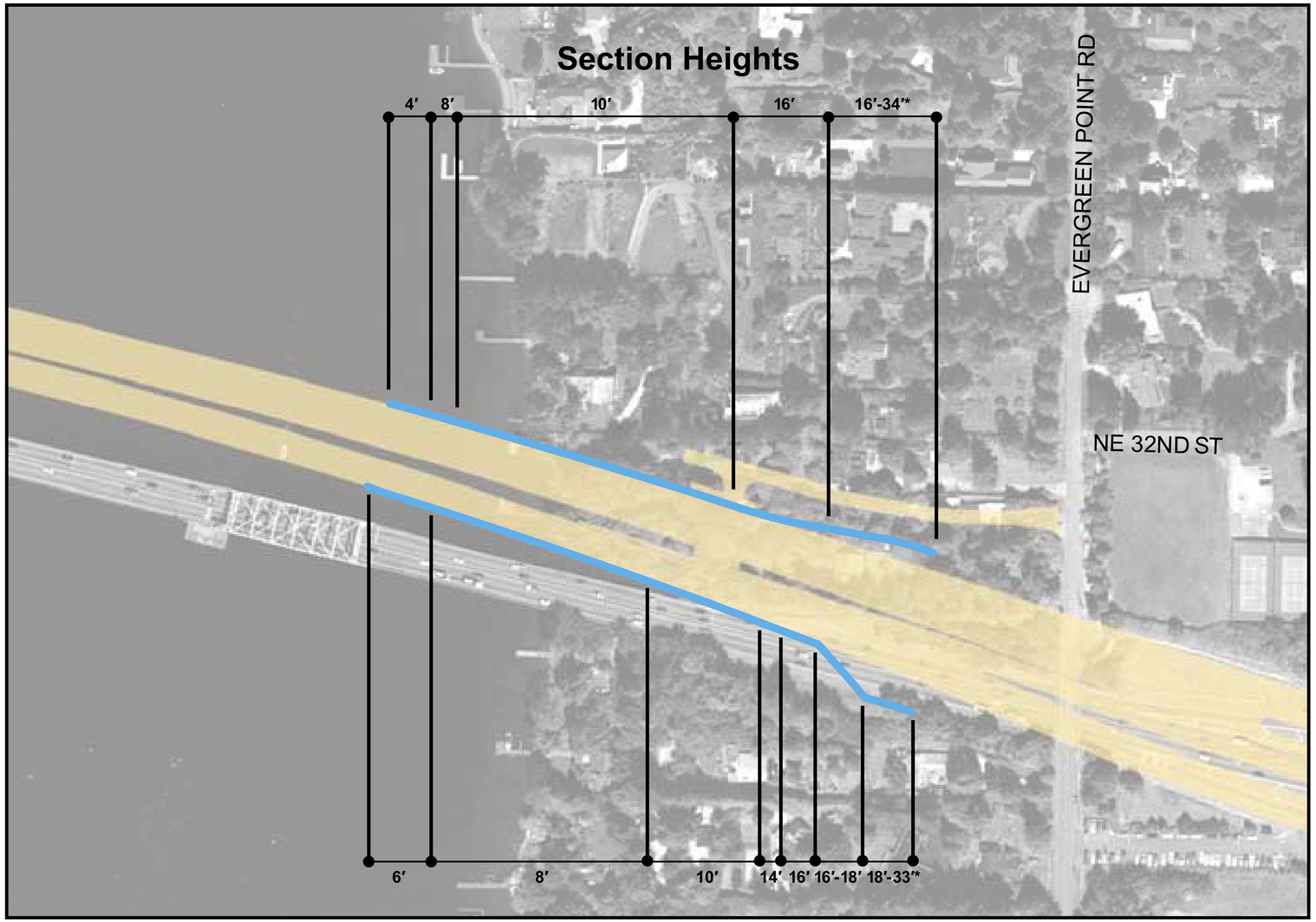
Quantity: 5

Locations: Solid soils near shore where gravity anchors may cause navigation hazard.

Manufactured: Concrete cast in place from a barge on Lake Washington

Noise Wall Locations and Heights





Proposed Noise Wall

Proposed noise wall alignment as measured from the edge of the roadway.

Noise walls east of Evergreen Point Road not shown; they are included in the Medina to SR 202: Eastside Transit and HOV Project

*Represents combined noise wall and retaining wall heights