

**From:** "Berriz, Sonia (Consultant)" <Sonia.Berriz@consultant.wsdot.wa.gov>

**Sent:** Tue, 16 Jun 2026 22:37:09 +0000

**To:** "Pao, Evelyn C." <evelyn.pao@wsdot.wa.gov>, "Holmquist, Dan (Consultant)" <Dan.Holmquist@consultant.wsdot.wa.gov>, "Archer, Zach (Consultant)" <zach.archer@consultant.wsdot.wa.gov>

**Subject:** Juanita Lateral Migration Timeline and Snips

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- July 8, 2024 – Preliminary Juanita Creek Hydraulic Design Report submitted.
- January 28, 2025 – Final Juanita Creek Hydraulic Design Report submitted.
- March 25, 2025 – Preliminary Juanita Creek East Portal design submitted.
- April 2, 2025 - Preliminary Juanita Creek West Portal design submitted.
- July 15, 2025 – Fish Passage Task Force minutes state that the Contract definition of low lateral migration would be followed.
- July 28, 2025 – WSDOT Comments on lateral migration were closed consistent with Contract terms: lateral migration at Juanita Creek is defined as low and shall be followed, otherwise need a DBIC from Design Builder.
- September 16, 2025 – Final Juanita Creek East Portal submittal included updated pile depths. The submittal occurred after the Fish Passage Task Force meeting and WSDOT comment closure on lateral migration on July 28, 2025.
- September 17, 2025 - Preliminary Juanita Creek West Portal design submitted.
- December 31, 2025 – RFC Juanita Creek East Portal submittal contained no changes relative to the final design regarding pile depth.
- February 23, 2026 - RFC Juanita Creek West Portal

Preliminary Report

## 7.1 Lateral Migration

The risk of lateral migration within the project reach was assessed based on the variables and evaluations described in this section and on the conditions described in **Section 2.7.4**. The assessment shows that there is **low to moderate** potential for lateral migration within the project reach.

Historical aerial imagery available through the King County GIS Spatial Data Warehouse and Google Earth Pro was reviewed for potential evidence of bend meander or channel widening. The available imagery dates from 1990 to the present. The resolution of available imagery is not refined enough to document small to moderate changes in the Juanita Creek channel and does not show any significant realignment of the channel.

Although the risk for lateral migration **is considered low to moderate**, the risk in relation to the structure is assumed to occur for the purposes of scour analysis and estimation of total scour. The geotechnical data available at this time **are not sufficient to exclude the risk of lateral migration from the scour analysis until detailed geotechnical data** (i.e., competent bedrock,

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geotechnical evaluation for soil erodibility, stream power versus soil erodibility, etc.) **is available** to support the assessment of no lateral migration being anticipated over the life (75+ years) of the proposed structure.

Slash material will be layered into the lifts of streambed sediment to provide channel stability.

## 7.2 Long-term Degradation of the Channel Bed

Final Hydraulic Report

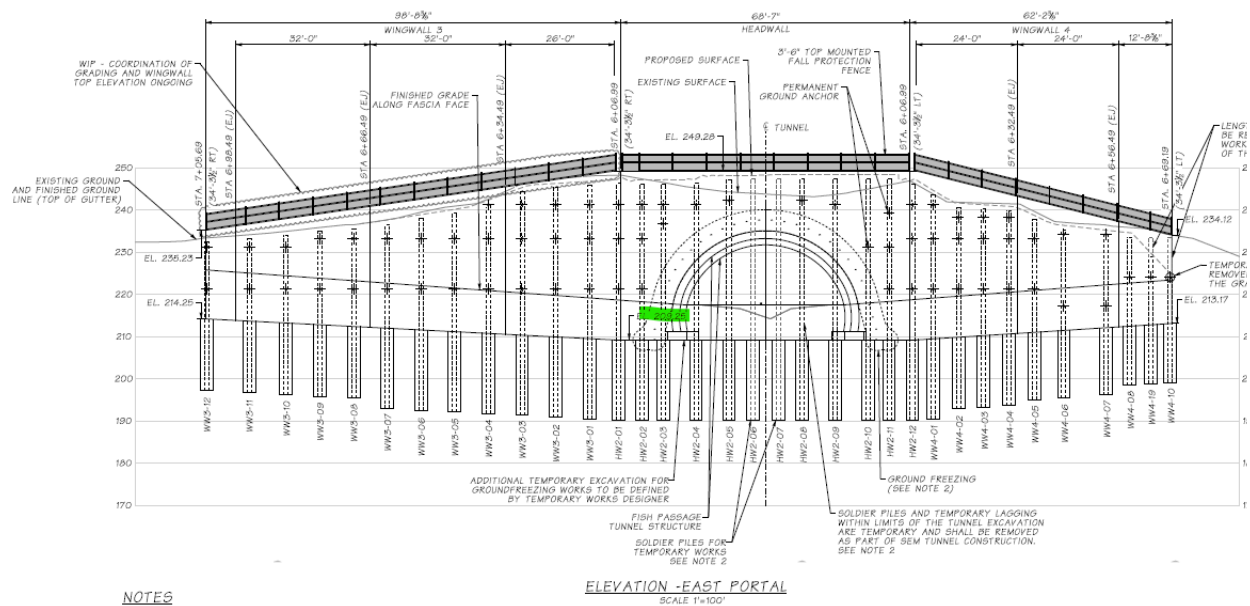
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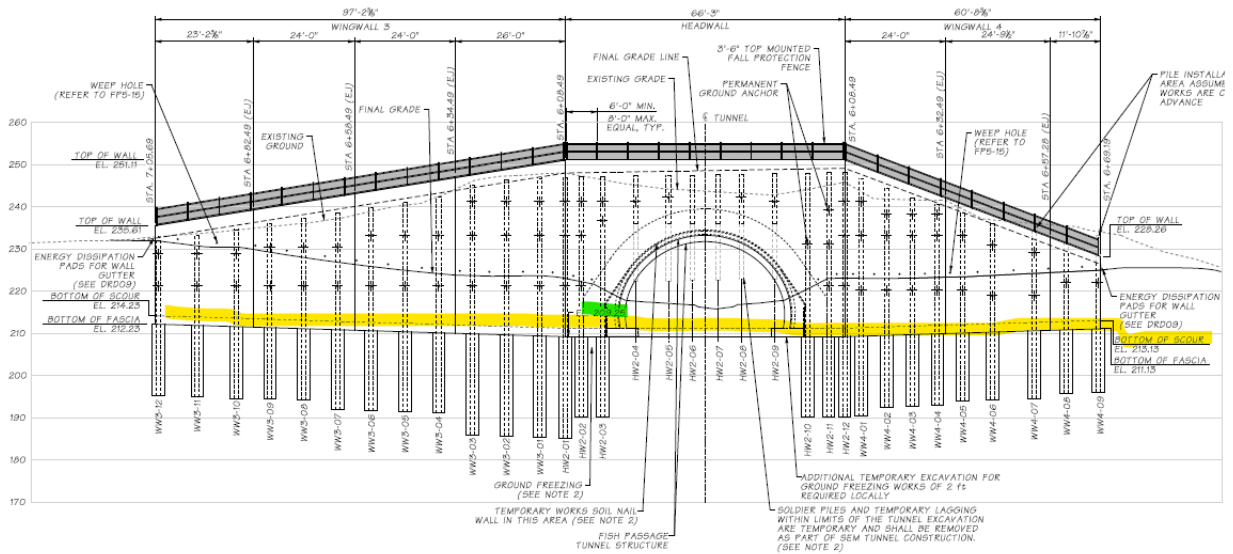
East Portal  
Prelim:



### NOTES

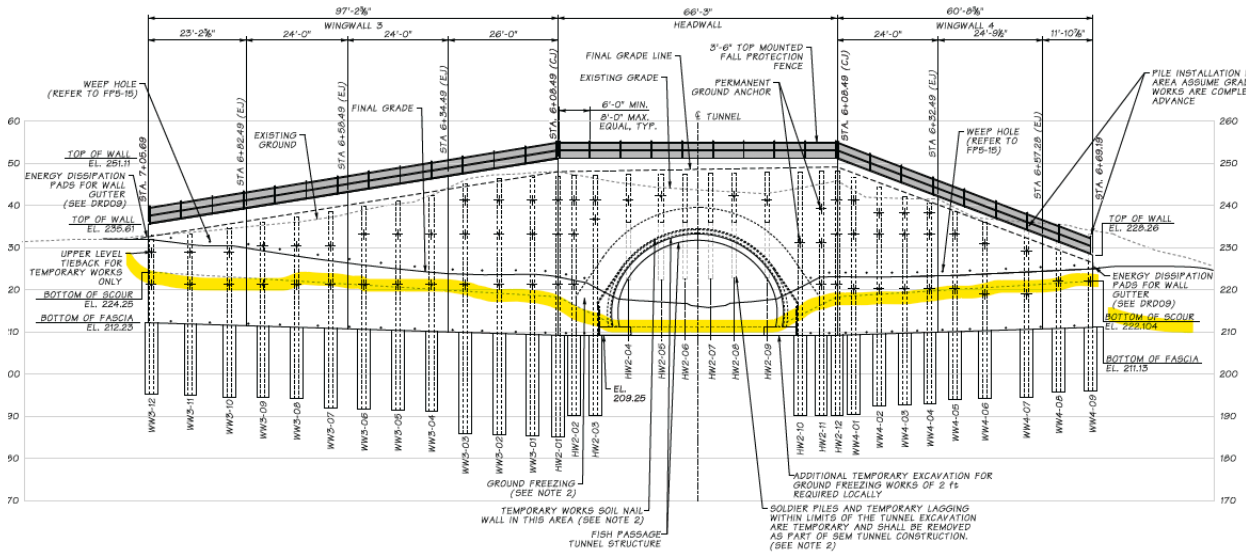
1 UNLESS OTHERWISE NOTED, THE SOLDIER PILES, TIEBACKS, WALKER BEAMS AND REINFORCED CONCRETE FASCIA WALL SHOWN ON THIS SHEET REPRESENT THE

Final:



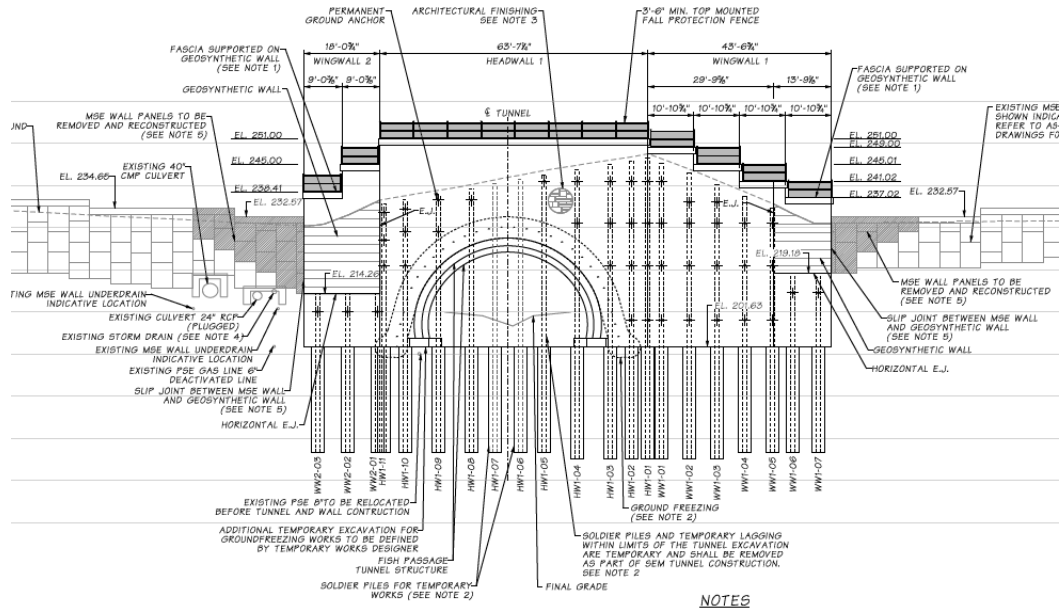
ELEVATION - EAST PORTAL

RFC:



ELEVATION - EAST PORTAL

West Portal  
Prelim:

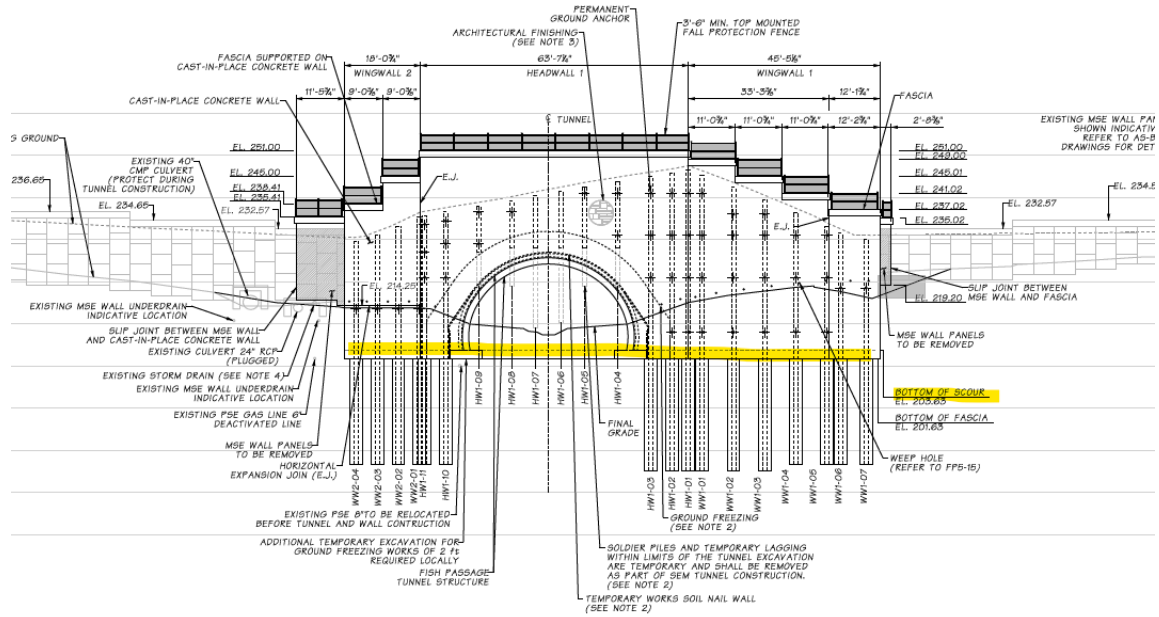


ELEVATION - WEST PORTAL  
SCALE 1"=20'

NOTES

1. UNLESS OTHERWISE NOTED, THE SOLDIER PILES, TIEBACKS, AND REINFORCED CONCRETE FASCIA WALL SHOWN ON THIS SHEET REPRESENT THE PERMANENT (FINAL) CONDITION FOR GEOSYNTHETIC WALL DETAILS. REFER TO DRAWING FFS-28.
2. REFER TO PLANS PREPARED BY BIERLEY ASSOCIATES FOR THE SEM TUNNEL.

Final

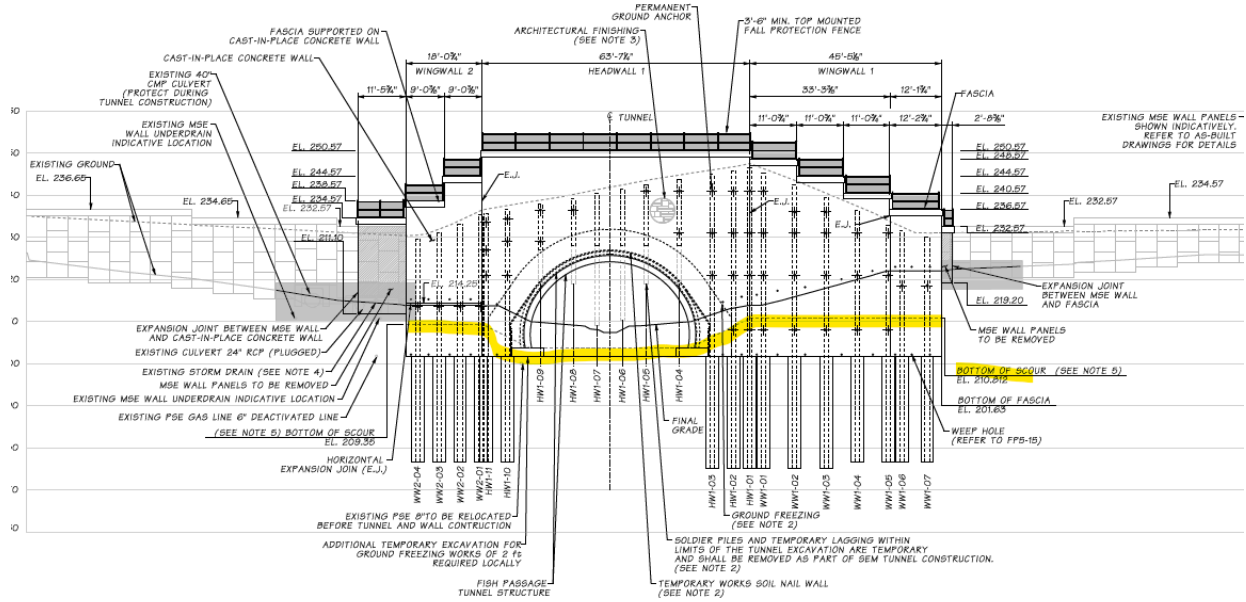


ELEVATION - WEST PORTAL

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1. UNLESS OTHERWISE NOTED, THE SOLDIER PILES, TIEBACKS, AND REINFORCED CONCRETE

RFC



ELEVATION - WEST PORTAL

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