Project:	**C9727 - I-405, Brickyard to SR 527 Improvement Project**
Document Name:	**BY-CRE-02210_009727_SUB_17.01_Package 9 Preliminary Structures - Juanita Creek Fish Passage (FP5) Ea**
Submittal Date:	**3/25/2025**
Due Date:	**4/8/2025** **COB**
Reviewer:	**Gabe Ng, HQ Hydraulics, Jason Pang (JP), Jeff Bruce (JSB), Todd B. Livingston (TBL)**
Document Lead:	

Formal Design Review
Form RCSR (Review Comment Summary and Resolution)

CODES
A = Accept Comment - Correct, Add to, or Clarify document
D = Dismiss Comment - no change needed on document
C = Clarify / Discuss and resolve before next design phase
R = Resolve comment in the next submittal phase
T = Transfer to a different submittal

COMMENT (WSDOT, City, Checker)					RESPONSE TO COMMENT (Skanska, Originator of Document)			RESPONSE TO RESPONSE (WSDOT, City, Checker)		Skanska CLOSE
No.	Report or Sheet No.	Comment By	TR/Spec Section	Comment	Disposition Code	Response By	ACTION TAKEN / Remarks	WSDOT Disposition Code	Comments / Action Items	Final Disposition Code
1	FP5-02	HQH	RFP QC 2.28/QMP	Update Note 4 to: "DRAFT HYDRAULIC REPORT DATED NOVEMBER 2024" - Confirm you are using the most current report and that you finalize your designs with the FINAL HYDRAULIC REPORT, which has yet to be published/stamped. There is a risk completing final structure designs based on a preliminary report that can have an impact on the structure if those preliminary scour numbers change once they are finalized.						
2	FP5-17	HQH	Preference	Not sure why you need to extend Wingwall 3 paralled to stream. Why couldn't you come off at 25-45 degree angle off the headwall? (would stay on right of way, would reduce depth and length of walls, reduce disturbance/impacts, etc.)						
3	FP5-18	HQH	BDM 8.1.10	See BDM 8.1.10 Scour of Retaining Walls These wing walls (both 3 & 4) are parallel to the stream alignment and are subject to total scour along the entire length of the wall. Please confirm bottom of wall is 2 feet below total scour at check flood elevation; including lateral migration (structural).						
4	FP5-21	HQH	BDM 8.1.10	BDM 8.1.10 Scour of Retaining Walls The foundation for all walls constructed along rivers and streams shall be evaluated during design by the Hydraulics Engineer for total scour in accordance with LRFD-BDS and Hydraulic Engineering Circular No. 23 (HEC-23). The bottom of the wall foundation and bottom of wall elements such as, the fascia panel, lagging, leveling pad, footing, pile cap or shaft cap shall be located a minimum of 2 feet below the total scour at the check flood. Also see Figure 8.1.10-2						
5	FP5-22	HQH	Preference	Creek Bed call out is confusing as it's pointing to what appears to be top of footing and the call out to the right calls out Final Ground (Thalweg). Consider revising to be consistent with stream sheets or deleting call out.						
6	Revision Box	JP	2.13.7.3	Some sheets have several revisions listed despite this only being a preliminary submittal to WSDOT. Please reconcile. Every revision shall be assigned a number. The assigned number shall be located both at the location of the change on the sheet and in the revision block of the plan sheet along with an explanation of the change.						
7	Plans	JP	3.7.1.1., 2.28.3.	Show all information required per Preliminary Plan Checklist, including but not limited to: Contours; survey lines, angles, bearings, stations; lane, median, shouder widths; traffic arrows; top of cut, toe of fill; test holes; section, township, range, city; limits of pigmented sealer; water surface elevations; datum; stage constructions; location of temporary barrier; etc. Review could not be completed.						
8	Plans	JP	.1.11.C, 2.13.4.	Show wall drainage requirements - drain mat, underdrain, gutter, weep hole locations. Only seeing a weep hole in section.						
9	FP5-18	JP	15.11.3C	Please clarify what portions of the wall is permanent and what portions of the wall is temporary. Several notes generally point to an element saying it is temporary, but it is unclear what portions will remain in the final condition. Please provide a construction sequence the walls						
10	FP5-18	JP	2.28.3.4.2	Understood this is preliminary. "Proposed" should be "Final Grade Line", as it will be built with this project. Please reconcile gap in grading on left where finish grade in front of wall does not tie in with finished grade behind the wall.						
11	FP5-18	JP	2.15.4.1.3	"Proposed surface" on right side looks steeper than 2:1. Please reconcile						
12	FP5-17	JP	2.13.1.1	What is the exact dimension of the FC limit to the closest point on the backside of the head wall/wing wall? It appears there is insufficient clearance to reasonably fit a barrier required clearances.						
13	FP5-18&21	JP	8.1.5D	Embeddment depth of wall fascia could not be verified for compliance. Please provide dimensions of water elevations, scour, thalwed						
14	FP5-21&22	JP	Question	How is the table supposed to be read? How is the information provided for each anchor?						
15	FP5-22	JP	Question	How is the interface between the tunnel and wall detailed? How is differing deflections of various wall heights and tunnel settlements/deflections accounted for?						
16	FP5-23	JP	Question	How do PGAs perform and are installed in frozen ground?						
17	Plans	JP	11.1.1J	These walls will need to be part of the bridge package with the tunnel. Provide the required bridge information in the title block.						
18	Calc Section 5.2 Table 13	JSB	2.28	Section 6.11 of the geotechnical report recommended a maximum declination of 30 degrees. Do site constraints require a steeper declination or can the design be updated to conform to the geotechnical recommendations?						
19	Calc Section 6.2	JSB	2.6.5.2	Please provide backup for all inputs that are not covered in the Design Package 9 geotechnical report (e.g. E'_ref, E_oed, E'_inc, v, etc).						
20	Appendix B	JSB	2.28	Please provide storyboard output for each Plaxis model so that the staged construction may be reviewed and understood by the State.						
21	FP5-17	TBL	2.10.7.2	Plan does to reflect latest PSE gas main relocation design. Update plans to show accurate utility location						
22	FP5-17, FP5-21	TBL	2.10.7, Appendix U5	Confirm coordination with NUD regarding location of tie-backs relative to existing sewer. Confirm with NUD if any special notes or specifications are necessary with regards to provisions and obligations in Appendix U5 Agreement UTB 1497 regarding design reviews, NUD inspection during construction or other needs such as pipe monitoring when tieback installation is scheduled.						
23	FP5-21	TBL	2.10.6.3, 2.10.9.6	FP5-21 The existing NUD sewer is in a 24" casing, confirm the section details design is accommodating the casing limits / clearance from proposed tiebacks. The size pipe drawn appears to be the 12" dia. carrier pipe only						

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