Alan:

I have reviewed the plan set that was submitted as a part of the JARPA.  As you and I discussed, we have some requested changes that may be significant to the submitted design.  Public Works will perform a more in-depth review following a more complete packet submittal.

1. Design should be based on the HL-93 live load using the LRFD method.
2. We have concerns regarding the abutment design.  Please provide the hydraulics report (indicating the scour analysis) and the geotechnical report.  Typically the abutment walls are buried to a specific depth and contain a spread footing for stability.
3. For the deck, more detail is needed for Central Pre-Mix Prestress to provide a design and for Public Works to approve.  We will need a WSDOT certification stamp on the decking to indicate that the slabs were built according to plan.
4. All materials and work shall be in accordance with the requirements of the WSDOT, *Standard Specifications for Road, Bridges and Municipal Construction*, dated 2012 and amendments.  This means that the Contract documents shall conform this format and incorporate the amendments, General Special Provisions (GSP) and any additional Special Specifications.  (I can forward you the 90% DRAFT Chikamin Specs if this would help.)
5. The JARPA states that this will be a design-build contract.  To utilize his type of contract there are state laws with which you must comply.  From what I see this is not a design-build contract, but instead the county is supplying specific materials for the contract, which is acceptable if noted appropriately in the specifications.

The above are the more notable comments for the current design stage.  Additional comments include missing plan and contract elements which I anticipate seeing when you get to that point in design.  At this point, some of these comments are:

1. Bridge plan/profile
2. Roadway plan/profile
3. Bridge rail / transition / guardrail run / terminals – documents should indicate that you want Type 31 and perhaps weathering steel (PW is not requiring weathering)
4. Abutment and footing details including materials, girder pads, reinforcement requirements, embankment/backfill material to name a few.
5. Survey control, as well as who is performing the survey

If you have any questions, please let me know.  If not, I look forward to the next submittal.

Thank you,

Paula

**Paula H. Cox, P.E.**

**Chelan County Public Works**

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