**Chelan County PUD**

**Salmon Habitat Restoration Scope**

1. ***Project Description***

HDR Engineering, Inc. – Power Delivery (HDR) has been requested by Chelan County PUD (PUD) to provide engineering services for a feasibility study to relocate/rebuild a section of the XXX to XXX 115kV T-line for a Salmon Habitat Restoration project.

The following sections discuss project tasks required, assumptions associated with the project scope, data needed from the PUD for commencement of engineering work, listing of engineering tasks and deliverables, and proposed budget and schedule.

1. ***Project Tasks***

Engineering work for this project will include four (4) phases and is anticipated to include the following:

PHASE 1. Project Initiation and Data Gathering

* Data Gathering and review of existing drawings and PLS-CADD model of 115kV T-Line.
* Acquire survey data from Jennifer with Chelan County.

PHASE 2. Identify Eight to Ten Alternatives

* Prepare intial report identifying 8-10 alternatives.
* Provide fatal flaws and/or pros of each alternative.
* Provide relative costs of each option.
* Submit report to “committee” for their ranking of the alternatives and pair down the list to 2-4 for further analysis.

PHASE 3. Further Develop Two to Four Alternatives

* Provide more detailed information on the pros and cons of each option.
* Provide +/-30% estimate for the options.
* Provide construction schedule and timeline for each option.
* Submit Final report summarizing the two to four alternatives.

PHASE 4. Deliverables

* Initial report identifying 8-10 alternatives
* Final report detailing 2-4 alternatives

1. ***Primary Assumptions***

*Survey:*

HDR will be supplied survey data of the impacted area.

*Construction Documentation:*

No construction drawings will be provided, only the deliverables listed above in Phase 4 will be provided.

*Construction Support:*

It is assumed that no construction support will be required.

*Site Visits:*

It is assumed that no site visits will be needed.

1. ***Data Needed from Chelan County PUD***

The following information is required prior to commencement of engineering activities:

1. Existing structure information on line.
2. Existing wire data including size, stranding and design tensions.
3. Existing PLS-CADD model of line
4. ***Project Schedule***

October 2011 Notice to Proceed

December 2011 Provide Initial Report for 8-10 Alternatives

March 2012 Provide Final Report for 2-4 Alternatives

1. ***Project Budget***

The estimated not to exceed engineering fee, which includes labor and expenses for the project is $52,000. This work will be billed per HDR’s hourly rate schedule, based upon the 2011 rate schedule. For the work that takes place beyond 2011, the rates will be based on HDR’s current year rate schedule.