
Memorandum

To	Scott Boettcher, Chehalis River Basin Flood Authority	AMEC File number:	3-915-17568-A
From	Ryan Bartelheimer, PE AMEC Environment & Infrastructure	cc	Kevin Varness, Director of Utilities & Development Division, Grays Harbor County
Date	March 11, 2014		

Subject Wishkah Flood Levee Project Update (MP 2.2-2.7)

Kevin Varness, Director of Utilities & Development Division, asked me to provide you an update on the Wishkah Flood Levee Project.

As you likely recall, the project is currently funded through the permit and design phases. This work is scheduled to be completed by April 2015. We are currently finalizing documents for the two parcels that need to be acquired east of Wishkah Road. The documents include appraisals and and Phase I environmental reviews. Acquisition of these parcels is a key milestone in order to provide certainty as we move forward with the permit and design process. The appraisals are expected to be complete this week, and Tom Gray, the Grays Harbor County Surveyor, is poised to begin negotiations in earnest with the property owners once he receives the appraisals.

We are scheduled to begin additional environmental field work in the near future. This work will identify wetlands, fish, fish habitat, ordinary high water marks, and other features of the natural environment that need to be inventoried as part of the permit approval process. We are set to incorporate this work and have a 30% design draft completed in June 2014. By August 2014, we plan to have the 60% design completed and permit submittals made to the regulatory agencies. The 100% designs are due for delivery by April 2015. This deadline assumes that it will take some time to receive input from the regulatory agencies that would be needed to finalize the design. If the regulatory reviews and approvals come quickly, then we could speed up the delivery of the 100% designs.

We also updated the estimated cost for the construction phase of this project. During the feasibility phase of the project, the recommended budget for the project was \$5.4 million.

Since then, this budget has been revised to reflect the currently available information and is shown below.

Engineer's Opinion of Probable Costs

Item No.	Item Description	Qty.	Unit	Unit Price (Thousands)	Total Price (Thousands)
1	Mobilization for Construction	1	LS	\$120	\$120
2	Temporary Erosion and Sediment Control	1	LS	\$25	\$25
3	Site Preparation	1	LS	\$10	\$10
4	Sheet Pile Wall	68	1,000 SF	\$40	\$2,700
5	Regulated Flap Gates, 48"x48" with Drainage Modifications	3	EA	\$60	\$180
6	Site Stabilization & Vegetation	1	LS	\$15	\$15
7	Habitat Mitigation	1	LS	\$395	\$395
8	Construction Management	1	LS	\$190	\$190

Construction Subtotal	\$3,635
Tax (8.4%)	\$305
Construction Subtotal w/Tax	\$3,940
Contingency (20%)	\$788
Total (2014 dollars)	\$4,728

Please contact me if you require additional information.