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June 6, 2012

Chehalis River Basin Flood Authority  
Lewis County – Community Development  
2025 NE Kresky Avenue  
Chehalis, WA 98532

Re: Request for Project Approval per ESB 5127 for the Airport Levee

Dear Flood Authority Members:

Over the past few years the Chehalis-Centralia Airport has been working towards a "shovel ready" project for enhancing the Airport Levee. This enhancement project is designed to provide protection against a 100 year flood event for the Airport and to a lesser degree I-5. Civil plans for this project have been completed by RB Engineering and involve raising the existing 2.3 miles of earthen levee to an elevation three feet above the 100 year flood level as recently identified by FEMA. This is accomplished by widening the base of the levee and constructing it higher as to maintain existing side slopes. In addition to the existing levee improvements, this project would involve elevating Airport Road along the south side of the Airport including the replacement of all utility infrastructures. The cost estimate for this project is approximately \$3.2 million with the roadway improvements responsible for the majority of the cost. The Airport has not had a chance to complete the hydraulic analysis to identify any potential impacts caused by this project, so we are proposing a scaled version of this project that we believe will not have any measurable change to any other area in the basin in the available hydraulic model and will fit within the Engrossed Senate Bill 5127 budget.

Representatives from Lewis County, City of Chehalis, Chehalis-Centralia Airport, and WSDOT recently met to discuss a project that could be proposed to the Flood Authority and the Chehalis Tribe as outlined in Senate Bill 5127. We all agree that a project elevating the Airport Levee is not practical within the timeframe set by ESB 5127 because it does not allow for the identification and mitigation of potential impacts. However, it is agreed that improving the existing levee by completing the required width expansion, but not causing an increase in elevation, could be completed within the narrow timeframe to create jobs. This project would enhance safety by providing a sounder levee for the protection of the Airport and I-5. It would also allow for future enhancement at a reduced cost, and would fit within the appropriations of ESB 5127 including the consideration of the levees protecting the Adna and Bucoda areas. This improvement project would not involve any work on Airport Road, would not create any new levees, and it is assumed that it would not cause any measurable impacts beyond the impact of placing the required material for the base expansion on the inside of the levee. A detailed cost estimate is enclosed showing an estimated construction cost of \$1,240,000 along with a cross section illustrating the enhancement of the levee versus the proposed base improvement.

900 NW Airport Road  
Chehalis, WA 98532

Mr. John Spears, Chairman  
Mr. Dan Foster, Vice Chairman  
Mr. Jim Janson, Treasurer  
Mr. Jim Buzzard, Member  
Dr. John McCord, Member  
Mr. Rick Smith, Member  
Mr. Harry Sumrok, Member

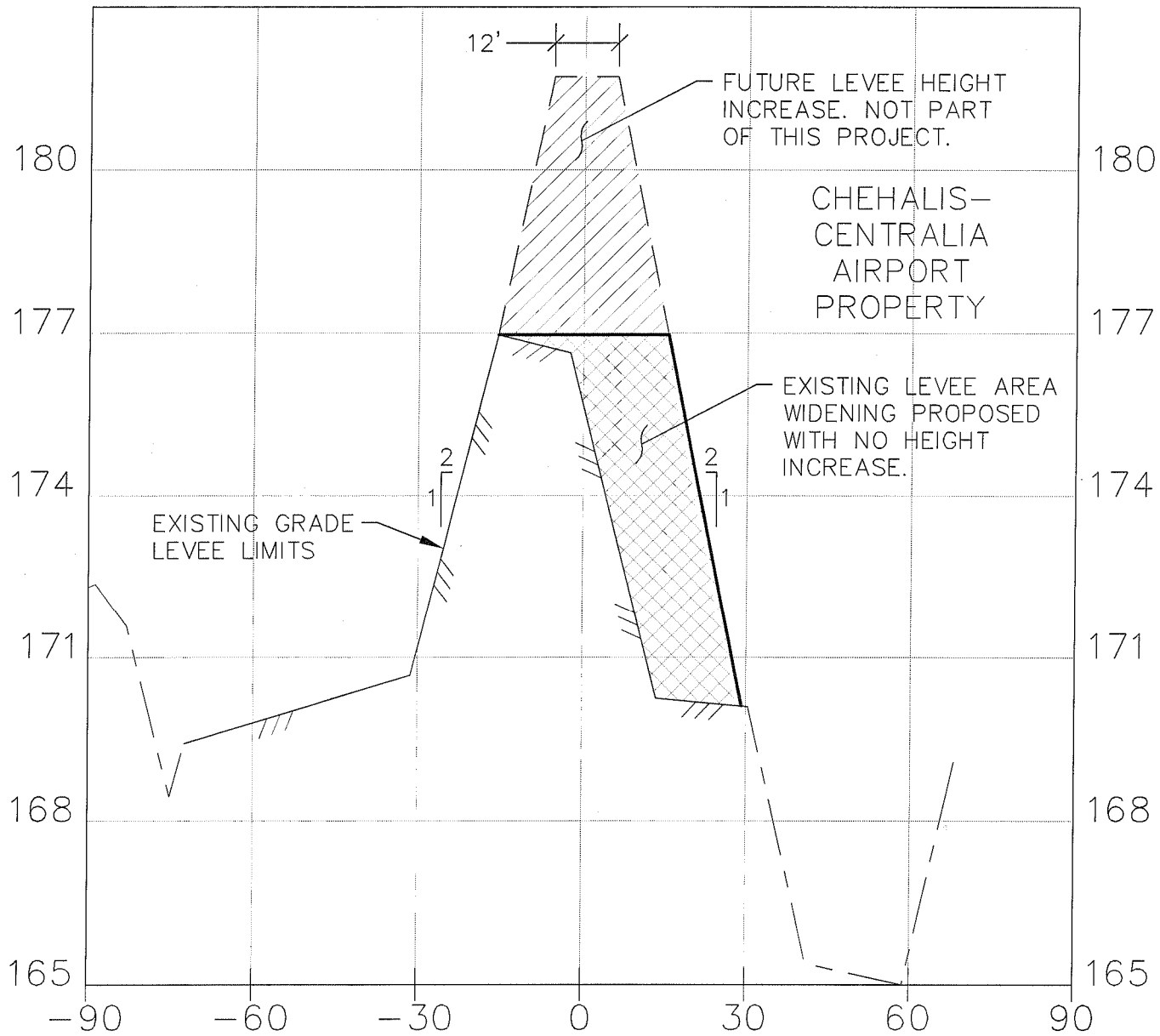


## Chehalis - Centralia Airport - Levee Improvement Project

### Engineers Preliminary Construction Estimate

Item #	Item	Unit	Qty.	Unit Price	Total Cost
	<b>MOBILIZATION/EROSION CONTROL</b>				
	Mobilization	LS	1	\$30,000.00	\$30,000.00
	Construction Entrance	EA	1	\$1,000.00	\$1,000.00
	Silt Fence	LF	7,500	\$2.50	\$18,750.00
	Temporary Hydroseeding	AC	5	\$2,500.00	\$12,500.00
	Dust Control	LS	1	\$10,000.00	\$10,000.00
	<i>Sub-Total Mobilization/Erosion Control:</i>				\$72,250.00
	<b>TRAFFIC CONTROL</b>				
	Traffic Control Labor	HR	640	\$36.00	\$23,040.00
	Traffic Control Signage	LS	1	\$5,000.00	\$5,000.00
	<i>Sub-Total Traffic Control:</i>				\$28,040.00
	<b>PREPARATION/REMOVAL</b>				
	Clearing and Grubbing	AC	5.5	\$2,000.00	\$11,000.00
	<i>Sub-Total Preparation/Removal:</i>				\$11,000.00
	<b>GRADING</b>				
	Existing Drainage Ditch Re-grading - 1100 lf	CY	6,300	\$12.00	\$75,600.00
	<i>Sub-Total Grading:</i>				\$75,600.00
1	<b>LEVEE CONSTRUCTION</b>				
	Embankment grading along Levee	CY	18,500	\$3.00	\$55,500.00
	Import and Compact Levee Fill Material	CY	55,000	\$9.00	\$495,000.00
	Hydroseeding Levee Sideslopes	AC	5	\$2,500.00	\$12,500.00
	Levee Access Road - 3" CSTC	TN	2,000	\$18.00	\$36,000.00
	Levee Access Road - 8" Ballast	TN	5,300	\$28.00	\$148,400.00
	<i>Sub-Total Levee Construction</i>				\$747,400.00
2	<b>MISC. PROJECT EXPENSE &amp; O/H</b>				
	Misc Equipment Rental	LF	1	\$10,000.00	\$10,000.00
	Bonds / Insurance	LF	1	\$30,000.00	\$30,000.00
	Temporary Office	LS	1	\$5,000.00	\$5,000.00
	Project Management	LS	1	\$30,000.00	\$30,000.00
	Construction Meetings / Minutes Weekly	LS	1	\$12,000.00	\$12,000.00
	Construction Staking	LS	1	\$15,000.00	\$15,000.00
	Compaction Testing - Third Party	LS	1	\$15,000.00	\$15,000.00
	<i>Sub-Total Misc.:</i>				\$117,000.00
	<b>ENGINEERING</b>				
	Survey, Design Engineering and Bidding	LS	1	\$58,300.00	\$58,300.00
	Construction Engineering, Inspections, Asbuilts	LS	1	\$38,400.00	\$38,400.00
	<i>Sub-Total Engineering:</i>				\$96,700.00
<i>Subtotal Project:</i>					\$1,147,990.00
<i>Sales Tax (8.0%):</i>					\$91,839.20
<b>TOTAL PROJECT COST:</b>					<b>\$1,239,829.20</b>

- 1 Work includes widening the existing 9700 linear feet of levee with no height increase.
- 2 Estimated Contractor Expenses and Overhead Items



**RB Engineering**

CIVIL ENGINEERING - LAND PLANNING - UTILITIES

P.O. Box 923  
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## CHEHALIS-CENTRALIA LEVEE IMPROVEMENTS

### LEVEE CROSS SECTION

SCALE: 1" = 30' (PROFILE H=30' V=3')

JOB NUMBER  
10050

DRAWING NAME  
10050\_BRMEX

FIGURE

1



June 6, 2012

Chehalis River Basin Flood Authority  
Lewis County – Community Development  
2025 NE Kresky Avenue  
Chehalis, WA 98532

Re: Request for Project Approval per SB 5127 for the Airport Levee

Dear Members of the Chehalis River Basin Flood Authority:

Please accept this letter of support for the Chehalis-Centralia Airport Levee Improvement Project. We believe this vital project fits within the parameters of SB 5127.

As outlined in Airport Manager Allyn Roe's request, the project will create jobs, enhance safety by providing a sounder levee for the protection of the Airport and I-5, will allow for future enhancement at a reduced cost, and fits within the appropriations of SB 5127. It will not involve any work on Airport Road, will not create any new levees, and it is assumed that it will not cause any measurable impacts beyond the impact of placing the required material for the base expansion on the inside of the levee.

Thank you for your consideration.

Sincerely,

F. Lee Grose, Chair  
Board of Lewis County Commissioners

Merlin G. MacReynold, City Manager  
City of Chehalis

cc: Board of County Commissioners  
Chehalis City Council