






## MEMORANDUM

TO: The Honorable Members of the Whatcom County Flood Control Zone District Board of Supervisors

THROUGH: Jon Hutchings, Public Works Director 

FROM: Paula J. Harris, P.E., River and Flood Manager   
Gary Stoyka, Natural Resources Manager 

RE: Lynden Levee Rehabilitation Project – Cooperation Agreement, Job No. NSK-03-18

DATE: February 16, 2021

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Enclosed please find four (4) originals of a Cooperation Agreement between the Flood Control Zone District (FCZD) and the US Army Corps of Engineers (USACE) for your review and signature.

### Requested Action

Public Works respectfully requests that the County Executive and the County Council, acting as the FCZD Board of Supervisors, enter into a cooperative agreement for repairs to the Lynden Levee at two sites along the right bank of the Nooksack River near the City of Lynden.

### Background and Purpose

High flows on the Nooksack River during November 2017 resulted in scour of the levee slopes and toe, including loss of riprap and embankment material. There are two damage sites: (1) the river scoured the riprap toe and eroded the riverward embankment along 375 feet of the levee, and overtopping damaged the crown and landward slope near the Lynden Waste Water Treatment Plant (WWTP); (2) an additional 275 feet of levee was damaged along the riverward levee toe further downstream. The total length of the repair is approximately 650 feet. The first damage site includes two culvert penetrations through the levee; these culverts will be removed and replaced with a new culvert and flood gate as part of the project. The Lynden levee provides flood protection to the Lynden WWTP, 20 residences and several farms.

The USACE rehabilitation work is being done in conjunction with a stream relocation project led by the FCZD and funded through a Floodplains by Design grant. This project was initially identified during the System-wide Improvement Framework (SWIF) process to resolve levee deficiencies.

### Funding Amount and Source

The construction costs and funding for both the USACE rehabilitation and the FCZD channel relocation projects are included in the following table. The Cooperation Agreement being considered for approval covers only the USACE levee and culvert rehabilitation project, which includes an 80/20 cost-share between the USACE and the FCZD.

<b>PROJECT COSTS</b>	
USACE Levee/culvert rehabilitation	\$1,053,000
FCZD Channel realignment	\$525,000
<b>TOTAL</b>	<b>\$1,578,000</b>

<b>PROJECT FUNDING</b>	
USACE (80% of rehab)	\$842,400
FbD grant (80% of channel)	\$420,000
FCZD	\$270,600
LE Subzone	\$25,000
City of Lynden	\$20,000
<b>TOTAL</b>	<b>\$1,578,000</b>

The FCZD and LE Subzone expenditures are consistent with the adopted 2021 budgets. The LE Subzone Advisory Committee members have been supportive and will be meeting prior to the March 9<sup>th</sup> Council meeting to consider a recommendation for the project. An Interlocal Agreement with the City of Lynden will be brought to the Board of Supervisors at a future meeting.

Please contact Paula Harris at [pharris@co.whatcom.wa.us](mailto:pharris@co.whatcom.wa.us) or extension 6285 if you have any questions or concerns.

Encl.