

FLOOD REVIEW BOARD

Date: January 24, 2019

Time: 8:30 AM

Location: Watson Lake Conference Room

Contact: Devin Traff, Larimer County Engineering Department

MEETING MINUTES

Staff Present: Eric Tracy, Tina Kurtz, Devin Traff

Board Members: Chris Thornton, Chris Carlson, Bets Ervin-Blankenheim, Mike Oberlander (via telephone)

Applicant Present: Jason Albert (Anderson Consulting), Lana Millard (Anderson Consulting)

Dr. Thornton opened the meeting at 8:34 A.M.

Introductions

Lions Open Space – Letter of Map Revision (LOMR)

Mr. Tracy gave a brief introduction to the project.

Mr. Albert then presented the project details and modeling efforts. He stated that in fall of 2012, a bank restoration project was constructed on the Cache La Poudre River through the Lions Open Space and subsequently suffered considerable damage as a result of the 2013 Flood and spring runoff in 2014. In 2016, an additional bank stabilization was constructed to provide more robust erosion protection. To analyze the effects of the project on the floodplain boundaries, Anderson completed a hydraulic analysis from Overland Trail to approximately 3,000 feet upstream on the Poudre River. Mr. Albert stated that the study demonstrated a rise in the post-project base flood elevation when compared with the effective condition. However, the rise is not due to the restoration project but to more detailed topography and mapping included in the proposed condition. Anderson is planning to submit results of the study to FEMA in the Letter of Map Revision (LOMR).



Dr. Thornton asked Mr. Albert what he believes to be the cause for the rise upstream of the bridge. Mr. Albert responded that the effective model did not incorporate the area beyond the levee near Overland Trail. Mr. Carlson stated that during the submission of a CLOMR in 2003 FEMA did not want to include the area beyond the levee in the floodplain at that time. Mr. Tracy asked Mr. Albert if he believed that flood waters would overtop the levee and Mr. Albert replied that he believed that flood waters would overtop the levee.

Mr. Carlson asked Mr. Albert why the bridge was not included in the models since it may have a significant impact on the floodplain hydraulics. Mr. Albert replied that not including the bridge in the model might have some impact on the model but did not believe that including the bridge would make a significant difference in the floodplain boundary. Mr. Carlson stated that he recalled in previous modeling efforts that flows transition to critical depth under bridge and the model was sensitive to this. Ms. Ervin-Blankenheim asked if another cross section could be included to model the bridge. Dr. Thornton stated that a half-mile extension to the model would be needed to accurately model the bridge. Mr. Tracy mentioned that he observed bars having formed after the flood on the left bank at the bridge.

Mr. Carlson and Dr. Thornton reviewed the water surface profiles and other report materials in further detail. After reviewing the materials, Mr. Carlson stated that the flow in the area beyond the levee is likely ineffective and would not be significantly affected by bridge hydraulics. Dr. Thornton agreed with Mr. Carlson's assessment.

Mr. Carlson moved to recommend approval of the Lions Open Space LOMR. Ms. Ervin-Blankenheim seconded the motion. Motion passed 4-0.

Dr. Thornton moved to approve the minutes from the November 19, 2018 Flood Review Board meeting. Mr. Carlson seconded the motion. Motion passed 4-0.

Dr. Thornton moved to elect Mr. Greg Koch as Chair of the Flood Review Board for 2019. Mr. Carlson seconded the motion. Motion passed 4-0.

Meeting adjourned at 9:06 A.M.

