



LARIMER COUNTY | ENGINEERING DEPARTMENT

P.O. Box 1190, Fort Collins, Colorado 80522-1190, 970.498.5700, Larimer.org

FLOOD REVIEW BOARD

Date: January 23, 2025

Time: 8:30 AM, MST

Location: Lake Estes Conference Room, 3rd Floor, 200 W Oak St., Fort Collins and via Zoom webinar

Contact: Tina Kurtz, Larimer County Engineering Department

MEETING MINUTES

Staff Present: Tina Kurtz, Traci Shambo

Staff Online: None

Board Members Present: Chad Morris, Jamis Darrow, Travis Rounsaville, Daniel Richardson, John Hunt

Board Members Online: None

Call to Order: Mr. Hunt opened the meeting at 8:38 a.m., MST

Introductions

Item 1: Approval of December 16, 2024, Board meeting minutes

Motion:

Mr. Morris motioned to approve the December 16, 2024, Board meeting minutes.

Mr. Darrow seconded the motion.

Further Discussion:

None

Vote:

Mr. Hunt – Yes

Dr. Thornton – Absent

Mr. Morris – Yes

Mr. Darrow – Yes

Mr. Rounsaville – Yes

Mr. Richardson - Yes

Motion passed [5-0].



Item 2: Election of Board Chair

Discussion on who to nominate for the 2025 Board Chair.

Motion:

Mr. Rounsaville moved to elect Dr. Chris Thornton as the Flood Review Board Chair for 2025.

Mr. Hunt seconded the motion.

Further Discussion:

None

Vote:

Mr. Hunt – Yes
Dr. Thornton – Absent
Mr. Morris – Yes
Mr. Darrow – Yes
Mr. Rounsaville – Yes
Mr. Richardson – Yes

Motion passed [5-0].

Item 3: Announcement of Board Meeting Notice Publication Location

Mr. Hunt read the following statement:

“The Flood Review Board designates www.larimer.gov as the place for posting notice of public meetings, and if exigent or emergency circumstances prevent the online posting at such location, public notice shall be physically posted at the bulletin boards located at the north and south entrances to the Larimer County Administrative Services Building located at 200 W Oak St., Ft. Collins, Colorado in accordance with Colorado’s open meeting laws.”

Discussion Items:

1. A petition filed by Sheri Welch under Section 12.1.6.H of the Larimer County Land Use Code for a Floodplain Project Review for construction of an extension to the 24-inch RCP outfall pipe to convey stormwater from the Ladera Development North Reservoir to the Cache la Poudre River channel within the Cache la Poudre River Zone AE (Floodway) Floodplain Overlay District at the following location to wit: Section 3, Township 6 North, Range 68 West, Larimer County, CO

Applicants Present: Chris Pauley, Allison Maddox - Galloway; Will Welch - Applicant



Ms. Kurtz introduced the project. A minimal portion of this project is within Larimer County, but it includes the river outfall. The project will extend the existing outfall pipe to convey stormwater from the Ladera Development reservoir to the Poudre River. The end of the pipe will be flush with the bank and open-cut trenching will be put back to grade.

Mr. Pauley explained that this is a similar request to the raw water outfall line which was brought before the Board in 2023. This project is a gravity outfall from the north reservoir pump house to the Poudre river. It will be a 24" reinforced concrete pipe (RCP). There is currently an interim outfall. This location has an existing double pipe storm water crossing under County Road (CR) 5. The part of this project that is within Larimer County is the eastern 30 feet of the pipe, bank, riprap, and outfall grading. They will get a Section 404 permit from the Army Corps of Engineers for this project. They already have a wetland delineation and a dewatering permit from the Colorado Department of Public Health and Environment (CDPHE). A Town of Timnath floodplain development permit application has been submitted and is under review by the Town. They are coordinating with the Town on future CR 5 road improvements. They provided a no-rise certification in the application packet. There are very little above ground changes with this project. Those changes include minor grading to tie the outfall into the river, but this work is shown to not cause a rise in the base flood elevation.

Mr. Hunt asked if there was public comment. There was none.

The Board asked if there is a graded lid on the manhole. Mr. Pauley said that there are no details in the plans because the contractor will fine tune the design. The Board asked if there is a concern with water backing up in the pipe. Mr. Pauley said yes, there will be water in the pipe as the pipe is in a syphon condition.

Mr. Hunt asked why the design team is removing the existing cross culverts under CR 5. The answer is that the existing culverts are right in the proposed alignment, and they are dodging a sanitary trunk line. Mr. Hunt asked if there is still a need to accommodate cross drainage of the road. Mr. Pauley explained that they will still accommodate the road and historic drainage. The new crossing is 24" RCP replacing HERCP's and it appears the area is smaller with the new culverts. It was clarified that they are working with Timnath on this design to be sure it works with the new road design. It was noted that the outlet is recessed into the bank line as currently designed.

Mr. Hunt asked if they have, or need, a CDPHE Discharge Permit as well as the dewatering permit. Mr. Pauley noted that they do have a CDPHE dewatering permit and they are not aware that they need a discharge permit. Ms. Shambo, with Larimer County, stated that the County considers that it is the applicant's and Engineer's responsibility to ensure that they have all necessary Federal & State Permits for the project.

Mr. Rounsaville discussed the tailwater elevations used and the resultant riprap design. He noted that he agrees with the 12" riprap sizing they have.

Motion:



Mr. Morris moved to recommend approval for the extension to the 24-inch RCP outfall pipe to convey stormwater from the Ladera Development North Reservoir to the Cache la Poudre River channel to the County Engineer.

Mr. Rounsaville seconded the motion.

Further Discussion:

None

Vote:

Mr. Hunt – Yes
Dr. Thornton – Absent
Mr. Morris – Yes
Mr. Darrow – Abstain
Mr. Rounsaville – Yes
Mr. Richardson – Yes

Motion passed [4-0], 1 abstention.

2. A petition filed by the Tri-Neighbor Bridge Association, Inc. under Section 12.1.6.G of the Larimer County Land Use Code for a Letter of Map Revision for the completed construction of a culvert within the West Creek FEMA and Best Available Zone AE (Floodway) Floodplain Overlay District at the following location to wit: Section 34, Township 6N, Range 72W

Applicants Present: Frank Roberts - Van Horn Engineering; Mark Sward - applicant

Ms. Kurtz introduced the project. This culvert is designed to pass the 25-year event. A Conditional Letter of Map Revision was issued in 2021 for the culvert. The as-built culvert design matches the proposed culvert, and the as-built modeling matches the proposed condition.

Mr. Roberts discussed the details of the project and that the design needed a CLOMR/LOMR process because it caused a rise on a neighboring property but also noted there are no rises on existing structures. The as-built condition matched almost exactly to the design. He showed pictures of the finished project and images of the as-built survey and annotated FIRM, FIS profiles, floodway data tables, base flood elevation comparison table and the map-model agreement table.

Mr. Richardson discussed that he found a discrepancy on the roughness value unit used for the riprap and abutment scour and noted that the report calls out the roughness value in “inches”, but it is supposed to be in “feet”. Travis Rounsaville also noticed the same thing but noted that he ran the calculations and found that the 0.6 coefficient that was used still seems appropriate but recommends Van Horn makes the edits in the report before sending it to FEMA. Other members added that they agree that the value of 0.6 is reasonable and may even be conservative.



Mr. Hunt asked if easements were recorded for the rise on the other property that was not part of the three owners involved. It was clarified that easements were not dedicated in this case and Van Horn also noted that the horizontal component of the vertical rise encumbers very little area. The owner representative in attendance noted that they have not heard concerns recently from the property owner with the rise.

Mr. Darrow discussed the requirements in the Larimer County Rural Area Road Standards and notes that it appears that the Standards indicate that the erosion control should be designed for the 100-year event. Mr. Morris was also reviewing the Standards and reviewed the Board meeting minutes from when the CLOMR was heard before the Board to verify what was agreed upon with the CLOMR approval. The minutes noted that, since this is a private roadway, passing the 10-year flow is acceptable per the Standards but the Board, when approving the CLOMR, required the design to be for the 25-year design to improve capacity and stability of the crossing.

Mr. Rounsaville noted that FEMA may comment on the upstream and downstream ineffective flow areas since it appears that Van Horn may need to change the upstream and downstream, permanent and non-permanent ineffective flow area markers that were used. The Board recommended that Van Horn check the input data for the ineffective flow areas since they anticipate that FEMA may have a comment on this. Several Board Members ran the model with swapping the upstream and downstream ineffective flows area markers and they found that changing the markers did not result change in significant changes to the result.

Mr. Darrow recommended that they edit the submittal documents to primarily refer to the LOMR to minimize confusion with CLOMR submittal and that it would also be helpful if they included an exhibit that clearly shows the structures in the area.

They concluded the discussion noting that the Board comments that have been made are recommendations to the Applicant and that the Flood Review Board does not have any specific conditions of approval that need to be added.

Motion:

Mr. Hunt moved to recommend approval to sign the MT-2 form for the Tri-Neighbor Bridge Association, Inc. for a Letter of Map Revision for the completed construction of a culvert within the West Creek FEMA and Best Available Zone AE Floodway Floodplain Overlay District.

Mr. Rounsaville seconded the motion.

Further Discussion:

None

Vote:

Mr. Hunt – Yes

Dr. Thornton – Absent



Mr. Morris – Yes
Mr. Darrow – Yes
Mr. Rounsaville – Yes
Mr. Richardson – Yes

Motion passed [5-0].

Item 6: Annual Board Training

A presentation of the annual training for Board members was reviewed.

Item 7: Other Business:

Discussed upcoming agendas

Meeting adjourned at 10:02 a.m., MST.