



FIVE PEAKS CONSULTING
Monthly Engineering Report
Carson Truckee Water Conservancy District

October 6, 2024

MONTHLY ACTIVITIES- September 2024

- 1) Completed bi-annual river inspection. Working to draft the report. Will wait to distribute until debris removal is complete.
- 2) Completed scopes of work for fall debris removal and began scope walks with contractors. Areas to be prioritized are John Champion Park and Mayberry Park.
- 3) Collaborated with TMWA and City of Reno regarding Gold Ranch Fire debris removal and bank stabilization. Working to see if FEMA funds are available to support clean up efforts.
- 4) Executed final permit for RTC's Sierra Street Bridge Geotechnical Boring. Boring is scheduled for the week of October 21st. RTC has requested CTWCD approval to continue work within flood season in case any delays are encountered.
- 5) USACE has completed all reviews for the Arlington Bridges Replacement. They are awaiting receipt of the 401 Water Quality Certification and will issue Notice of Complete Submittal.
- 6) Held a field walk on September 19th with City of Reno and JUB to review the scope of the 14,000 cfs Riverside alternative. All parties agreed that we would split the project into two parts – Riverside downstream of Booth would be done as a maintenance project and the area upstream of Booth would go through USACE permitting effort. JUB has developed a scope of work to continue the design to 30% and develop a more refined cost estimate. We will delay the presentation to request TRFMA's funding of the project until late November/early December.
- 7) Met with USACE on September 17th to review permit status updates. Followed up with project proponents.
- 8) Corresponded with USACE regarding the status of the White Fir project. USACE is no longer requesting a 2D HEC-RAS model but is instead requesting a blockage analysis and a detailed table of WSELs in the existing and proposed conditions.
- 9) Corresponded with project proponents for Sierra Street bridge replacement project and continued to participate in design review meetings.
- 10) Corresponded with project proponents for Keystone Avenue bridge replacement project and participated in design review meetings. Held a pre-application meeting with USACE on August 27th. USACE will require a Drilling & Invasive Program Plan (DIPP) in this area which could impact review times. Guidance to support plan preparation has been passed along from USACE to project proponent. Received CTWCD Board approval during September meeting, but will wait to submit until DIPP is complete.

- 11) Received application from NV Energy for two power line replacements in Verdi. Requesting CTWCD Board approval.
- 12) Corresponded with JUB regarding maintenance on TMWA's Idlewild Pump Station and held informational meeting on September 12th. TMWA has determined that this is emergency work and will not apply for a 408 permit.
- 13) Held a kick-off meeting with TMWA and HDR on September 6th to discuss the Highland Bridge Replacement. They are working to prepare a 408 application.
- 14) Received a phone call from Jones Street condos notifying us of a resident that was building a patio within the 14,000 cfs limits. The owner was contacted and CTWCD provided some guidance to remedy prior to flood season. We have offered to provide an informational session at the next HOA meeting. Letter was sent to the HOA notifying all owners of the 14,000 cfs construction boundary and permit process.
- 15) Received USACE Truckee River field inspection report on June 27, 2023. We received follow up from NV Energy that 1 of the 3 identified powerline crossings pre-dated the Martis Creek agreement. Other 2 crossings will require as-built 408 applications. We had a meeting with the City of Reno on March 15th to discuss additional flap gates required. Continuing to follow up with USACE inspection team.
- 16) Review projects near river for Permit requirements; provide inundation maps for parcels, as required. This included discussions with NVE regarding powerline replacements, upcoming Trout Unlimited J-hook weir structures in Verdi, as well as other various projects/parcels adjacent to the flood channel.

UPCOMING ACTIVITIES

- 1) Meet with One Truckee River to review 90% plans for Brodhead Park Restoration and provide guidance on whether a 408 permit will be required. Also provide guidance on their Urban Tree Workforce Program to ensure work does not require permitting.
- 2) Work with JUB to complete the 30% design for the Riverside Drive 14,000 cfs alternative and prepare presentation to be presented to TRFMA.
- 3) Work with City of Reno to determine potential projects for Conserve Nevada Grant.
- 4) Follow up with City of Reno on the meeting that was held on June 29th to confirm that West Street Plaza is included in their Flood Response Action Plan (FRAP) and pursue a final encroachment permit.
- 5) Continue to participate in monthly check in meeting with USACE. These are scheduled for the third Tuesday of every month.
- 6) Draft letter to Waste Management regarding their responsibility to keep the river bank that they own to OHWM secure and clear of encroachments and hazard trees.
- 7) Finalize work on guidance document and installation details for rip rap placement for erosion repairs within the 14,000 cfs flood channel.
- 8) Continue to collaborate with the City Forester for the removal of hazard trees within the 14,000cfs flood channel if budget dollars permit.

- 9) Continue working with project proponents for encroachment permit applications for One Truckee River Brodhead Park, USFWS fish passage projects, NDOT I-80 Verdi Bridge Replacement Project, Keystone/Sierra Bridges replacement project, NV Energy powerline rebuilds, TMWA maintenance projects and other projects within the 14,000cfs flow channel.
- 10) Schedule informational meetings with potential entities with river crossings to inform them of CTWCD maintenance activities/capabilities and 408 Encroachment Permit requirements for projects along and across the river. Communicate changes to the 408 Permit process with likely applicants including the City, and utilities; update on Categorical Permission review and differences. Communicate updated fees and Fee Policy for 408 Permit Review.
- 11) Continued coordination with City of Reno for 1) Flood Response evaluation and incorporation of Interim Risk Reduction Measures into their Flood Response Plan for West Street Plaza, Oxbow Park Platform and Riverside Drive, and 2) Flap-gate Installation Phase 2 needs assessment and installation project.

SUMMARY REPORT

The 408 application for 25 White Fir was finalized and sent to USACE on January 23rd, along with CTWCD's Statement of No Objection. We received initial comments from USACE on February 21st. Comments included requested additions to the Section 106 cultural report, real estate verification and request for categorical permission checklist. These comments were provided to the project proponent to address. The project proponent provided a complete response and the updated files were sent to USACE on May 8th. We received additional environmental and cultural comments on June 14th and provided a response on June 24th. We had a long discussion with USACE on September 17th and explained why we didn't think a 2D model should be required for this review. USACE indicated that they are seeing WSE increases beyond the threshold which is in conflict to what our modeling shows. They have now requested a blockage analysis, as well as a detailed table illustrating WSELs in existing and proposed models.

RTC and Jacobs has completed the design for the Arlington Avenue Bridges Replacement Project. RTC is hoping to receive USACE permission for the project in 2024 to allow construction to start in early 2025. FHWA is the lead federal agency so they are completing the overall NEPA decision and have issued a Categorical Exclusion. The hydraulic modeling shows that the bridge deck is not inundated at 14,000cfs which is important for USACE. Other benefits of the project include removal of the sediment deposits in the kayak park, as well as a maintenance agreement with the City of Reno to keep the park free of future deposition. Additionally, the project includes an equipment access ramp from Island Avenue to support future maintenance access to the kayak park. The application was originally submitted to USACE in March 2023. There were many rounds of comments from USACE, mostly involving the need for a 100% submittal that included the kayak park design. This was originally scheduled to be complete in October 2023, but was not received until March 19th, 2024. There were extensive modeling comments and these were discussed with RTC and Jacobs on April 1st. We received

a revised submittal on April 11th. The team met again on April 25th to review modeling concerns and plan set inconsistencies in more detail with a follow up meeting between the hydraulic modelers. We received a final submittal on May 6th and JUB subsequently approved the set to be submitted to USACE for review. The CTWCD Board agreed to resubmit the application to USACE to continue their review of the project. This was packaged and sent to USACE on June 10, 2024. At the request of RTC, USACE received emails from Congressman Amodei's and Senator Cortez Masto's offices regarding USACE's delays and impacts on the overall project. We have emailed RTC asking for a meeting to discuss why congressional support was requested. USACE is ready to issue permission as soon as they receive the 401 WQC, which is being handled by RTC.

The CTWCD board voted at the March meeting to approve funding a Riverside Drive alternatives analysis by JUB. We received the draft report on May 10th that included conceptual designs for all three alternatives, as well as cost estimates. The report was shared with City of Reno and TRFMA on July 2nd. On July 16th, we had a preliminary discussion with USACE. They consider Alternative B to be a substantial alteration to the federal flood project that could entail major permitting effort. After further discussion with CTWCD Board, City of Reno and TRFMA, we all agree that Alternative A (14,000cfs) is more suitable for everyone's needs as the majority of this alternative would fall under maintenance activity. We did a site walk with JUB and City of Reno on September 19th to better refine the scope. We will move forward with requesting funding from TRFMA to support this project. The following roles/responsibilities have been proposed:

1. CTWCD – Fund and manage final design of 14,000 cfs containment. This could be via floodwall, revisions to channel bank grading or a mixture of these solutions.
2. City of Reno – Fund and manage design of pedestrian path and landscape restoration, manage public outreach, issue bidding and construction documents, manage project construction.
3. TRFMA – Design review and construction funding.

Design review committee meetings are ongoing for RTC's Sierra Street (2028) and Keystone Avenue (2030) bridge replacements. We received an application from RTC/Jacobs to support 408 permitting for the geotechnical borings for the Sierra Street Bridge. We had a pre-application meeting with USACE on April 15th and received a revised application on April 23rd. The CTWCD Board voted to approve the application the May meeting and the package was submitted to USACE on May 29, 2024. We received a Notice of Complete Submittal from USACE on July 17th and received permission on August 28th. A final permit was executed on October 4th. Work is scheduled for the week of October 21st.

We received a draft application from RTC/Parametrix to support 408 permitting for the geotechnical borings for the Keystone Bridge. A pre-application meeting with USACE was held on August 27th. USACE has determined that a Drilling & Invasive Program Plan (DIPP) will be required in this location due to the dike included in the original federal project. RTC received NEPA determination from NDOT/FHWA on September 9th. CTWCD Board approved the project at the September Board meeting, but will not be submitted until the DIPP is completeP.

USACE has issued their permission for the City of Reno's Booth Street Sewer Siphon project. The project proponent requested a meeting on April 16th to discuss the possibility of sleeving the existing pipe instead of boring a new pipe. We discussed implications with the permit. They are completing further due diligence and will follow up with a final decision. We have not yet issued the 408 permit.

Tri Sage accompanied USACE on a field inspection of the Truckee River during the week of June 13th. Federal projects are supposed to be completed every 5 years, but the last inspection of the Truckee River was in 2013. The inspection kicked off on Monday, June 13th at Idlewild Park continuing east to the East 2nd Street bridge. The inspection continued on Tuesday, June 14th at Glendale Bridge to John Champion Park to inspect east end of the CTWCD jurisdiction. A draft report was received via email on June 27th. Five Peaks has provided comments to USACE. We are also working on developing an action/follow up plan for the "unacceptable" ratings and maintenance items.

The river flow model work is completed and the inundation maps for the entire jurisdictional reach are now available. The new inundation maps have been a very helpful tool in all of the engineering work required to support the District. Five Peaks has recently shared the model with several project proponents including Parametrix (Verdi and Keystone bridge replacements) and NVENV (Trout Unlimited J-hook weir structures). We will continue to work with TRFMA on coordination of our HEC-RAS models. JUB recently received a version of the TRFMA model that was used to develop the FEMA Physical Map Revision (PMR). Preliminary review indicates that CTWCD's model is more conservative and TRFMA's model is more accurate because it is a full 2D model. We had an in depth discussion with JUB to review the pros and cons of merging the CTWCD and TRFMA models from Mayberry Park to Glendale. This would be a substantial effort as the models have two different purposes.

The section that pertained to the USACE April 2013 Inspection report has been eliminated from this report; we expect that this section will be added in again to address maintenance items in the USACE June 2022 inspection report.