

Staff Report

TO: Board of Directors

FROM: Doug Roderick, PE, Director of Engineering
Tonia M. Tabucchi Herrera, PE, Senior Engineer

DATE: October 11, 2023

SUBJECT: Hemphill Diversion Fish Passage Project (Project #7032)
(Consent)

ENGINEERING

RECOMMENDATION:

Adopt Resolution No. 2023-45 approving:

1. Amendment of the 2023 Annual Budget to increase the budget for the Hemphill Diversion Fish Passage Project in the amount of \$259,493.
2. Approve a construction contract with C&D Contractors, Inc in the amount of \$116,232 plus a 40% contingency (\$46,493).
3. Approve change order for Westcon Construction in the amount of \$52,168

BACKGROUND:

The instream construction of the roughened rock ramp portion Hemphill Diversion Fish Passage Project (Project) was completed on November 1, 2022. Throughout the winter season, several large rain events brought high flows to Auburn Ravine with a significant event occurring in December 2022. As a result of these high flow events, a scour hole began to form immediately downstream of the installed sheet pile wall within the roughened ramp.

The engineer of record, Jon Burgi of McMillen Jacobs Associates (McMillen) visited the site on May 18, 2023 to evaluate the scour hole. McMillen reviewed the design of the passage as it pertains to the United States Bureau of Reclamation (USBR) Rock Ramp Design Guidelines and determined that the rocks were adequately sized, but that more of the class A and B rocks were needed immediately upstream and downstream of the sheet pile to minimize the potential for scouring under high flows. McMillen has developed a plan to repair the scoured area.

Staff has obtained all necessary approvals from the permitting agencies to complete the repair work under the existing permits with no additional fees. The work is planned to be completed immediately after irrigation season when the flows with Auburn Ravine are historically the lowest.

The repair works consists of cleaning up the scour area and then placing rock material back into the area and on both sides of the sheet pile wall. Staff anticipates this work taking 5-10 days. Material cost will be paid by the District directly to the supplier. The contract with C&D Contractors Inc. will be a time and material contract for placing of the rock. Other costs include fish exclusion, biological and water quality monitoring.

Staff is recommending that the Board award a sole source contract with C&D Contractors. This recommendation is due to several factors, including that the contractor has been to the site and is aware of the conditions for construction, can mobilize quickly and is available to start construction on October 16th, and that this work is going to be paid on a time and material basis.

Staff is also recommending a 40% contingency for the potential for additional rock material, equipment and labor once the site is dewatered and full extent of the repair area can be determined.

Staff has confirmed that up to forty (40) percent of the cost for the repairs will be reimbursable under the Wildlife Conservation Board Grant that the District received for this project.

Additionally, Staff has received multiple change order requests from Westcon Construction. After reviewing the change order requests, staff has determined that portions of the requests for addition engineered stream bed material, excavation and cement treatment is warranted. Staff is recommending that a total of \$52,168 for this additional work.

Staff is recommending that the Board adopt Resolution 2023-45 awarding a construction contract with C&D Contractors Inc., approving change order for Westcon Construction in the amount of \$52,168 for the Hemphill Diversion Fish Passage Project, and amending the 2023 Annual budget in the amount of \$259,493.

BUDGETARY IMPACT:

The approved 2023 budget for this project is \$715,000 to complete construction that was started in 2022. The costs identified above were not anticipated and exceed the budget amount for the project. A budget amendment is requested in the amount of \$259,493 is to be funded by Fund 15.

This amendment will pay for the following items:

- Construction contract with C&D Contractors w/contingency: \$162,725
- Westcon Construction change order: \$52,168
- Purchase of materials w/contingency: \$32,200
- Environmental: \$12,400

Attachments: (1)

- Resolution 2023-45



RESOLUTION NO. 2023-45

OF THE BOARD OF DIRECTORS OF THE NEVADA IRRIGATION DISTRICT

APPROVAL OF 2023 FUND 15 CAPITAL BUDGET AMENDMENT, APPROVAL OF A CONSTRUCTION CONTRACT AND APPROVING A CHANGE ORDER FOR THE HEMPHILL DIVERSION FISH PASSAGE PROJECT NO. 7032

WHEREAS, the Nevada Irrigation District (District) budget for the 2023 fiscal year reflects resources to meet the essential needs of the District and the District's customers; and

WHEREAS, the Board of Directors adopted the 2023 Annual Budget on December 14, 2022; and

WHEREAS, the Hemphill Diversion Fish Passage Project was constructed and placed into service; and

WHEREAS, Westcon Construction was awarded a contract to construct the Hemphill Diversion Fish Passage Project; and

WHEREAS, the roughened ramp that was installed as part of the Hemphill Diversion Fish Passage Project was affected by multiple winter storms.

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of Nevada Irrigation District:

1. The Board of Directors hereby approves amending the 2023 Annual Budget to increase funding of the Hemphill Diversion Fish Passage Project No. 7032 in the amount of \$259,493 to be funded by Fund 15.
2. The Board of Directors hereby approves change orders in the amount of \$52,168 to Westcon Construction for additional work necessary for constructing the Hemphill Diversion Fish Passage Project.
3. The Board of Directors hereby awards a construction contract in the amount of \$116,232 plus a 40% contingency (\$46,493) with C&D Contractors, Inc. for repair work for the roughened ramp that was installed as part of the Hemphill Diversion Fish Passage Project.
4. The Board of Directors hereby authorizes the General Manager to execute the documents necessary to cause the actions contemplated by this resolution.

PASSED AND ADOPTED by the Board of Directors of the Nevada Irrigation District at a regular meeting held on the 11th day of October, 2023, by the following vote:

AYES:	Directors:
NOES:	Directors:
ABSENT:	Directors:
ABSTAINS:	Directors:

President of the Board of Directors

Attest:

Secretary to the Board of Directors