

STAFF REPORT

Date: May 22, 2024

To: Mayor and City Council

Through: Doug Thornley, City Manager

Subject: Staff Report (For Possible Action): Award of Construction Contract to F. W. Carson Co. for the Chalk Creek Channel Restoration and Stabilization Project in an amount not to exceed \$689,389. (Sewer Fund)

From: David Lake, Associate Civil Engineer

Department: Utility Services

Summary:

The Chalk Creek Channel Restoration project construction contract with F.W. Carson Co. will provide stabilization of the Upper Chalk Creek channel, from the intersection of Sapphire Ridge Way and Robb Drive to West Seventh Street. This section of Chalk Creek requires channel stabilization improvements to mitigate channel erosion, and steep head cuts from impacting adjacent private and public properties. The project was bid on April 2024 and F. W. Carson Co. submitted the best bid pursuant to the requirements established in Chapter 338 of the Nevada Revised Statutes (NRS). Staff recommends Council award the construction contract to F. W. Carson Co. for the Chalk Creek Channel Stabilization and Restoration Project in an amount not to exceed \$689,389 (Sewer Fund).

Consent Review	Yes	No
1. Is this item an annual or standard item that comes before Council for regular approval?		X
2. Is this item an agreement required based on an item previously approved by Council?		X
3. Is this item included in the current budget approved and adopted by Council?	X	
Other Considerations		
What percent of the total City budget does this item represent?	0.08%	

Alignment with Strategic Plan:

Infrastructure, Climate Change, and Environmental Sustainability

Previous Council Action:

December 13, 2023: Council approved an amendment for the Environmental Protection Agency (EPA) 319(h) Grant issued by the Nevada Division of Environmental Protection (NDEP) for the Chalk Creek Channel Stabilization and Erosion Control Project to extend the grant through December 31, 2024.

June 9, 2021: Council approved a Consultant Design Agreement with CDM Smith for the Chalk Creek Channel Restoration and Stabilization Project in the amount of \$223,880.

June 9, 2021: Council approved the Acceptance of the One Truckee River Grant to the City of Reno for the Chalk Creek Channel Restoration and Stabilization Project, in the amount of \$10,000.

June 9, 2021: Council approved the EPA 329(h) Grant issued by the NDEP for the Chalk Creek Channel Restoration and Stabilization Project in the amount of \$125,000.

Background:

The City of Reno is responsible for maintaining the Chalk Creek Channel. Chalk Creek has numerous channel sections that are unstable, have eroding banks, and are beginning to encroach into adjacent private properties and publicly owned improvements.

Watershed assessments for Chalk Creek, conducted by the Stormwater Permit Coordinating Committee (SWPCC) since 2003, have categorized Chalk Creek as a “functional-at-risk” stream, meaning that unchecked channel bed incision and bank erosion is degrading the proper functioning of the stream. Implementing stabilization measures is an essential component of rehabilitating this Truckee River tributary.

Chalk Creek is also listed as an impaired surface water on the NDEP’s impaired waters 303(d) list for various nutrients, dissolved solids, and suspended solids. While some of these constituents are naturally occurring, increased runoff from urbanization has altered the natural flow of water through this area, leading to severe erosion at some sites, and contributing to increased suspended solids concentrations.

Discussion:

Approximately 1,500 feet of Chalk Creek, along Sapphire Ridge Way, has been steadily eroding, threatening homeowner properties and public infrastructure. Project location and limits are shown in Figure 1 below.

Figure 1. Location Map



In the early 2000s, the Sapphire Ridge Phase I and II developments were constructed, and modification and relocation of Upper Chalk Creek occurred to accommodate residential and public infrastructure. Constructed facilities including roadways, recreation trails, single-family homes, utilities, and other infrastructure confined to the Chalk Creek channel.

These modifications have destabilized the Chalk Creek channel through hydro-modification, resulting in vertical and lateral channel realignment. The ongoing erosion has encroached into private property, undermined the originally installed stabilization measure of geotextile turf reinforcement mat and rock check dams, and undermined existing storm drain culverts and vegetative plantings, resulting in up to six-foot-deep channel incisions. The eroded sediments travel downstream and settle in flatter sections of channel and at culverts, reducing storm conveyance capacity and resulting in increased maintenance costs. Smaller fines can make their way to the Truckee River, further degrading its water quality. Figure 2 below shows one section of the channel for reference.

Figure 2. Channel Erosion



CDM Smith was hired in June of 2021 to design stabilization measures, develop contract documents, and obtain necessary United States Army Corps of Engineers (USACE) and NDEP permitting to construct the project.

Staff received and opened six bids for the Chalk Creek Channel Restoration and Stabilization Project on April 25, 2024. F. W. Carson Co. submitted the best bid pursuant to the requirements

established in Chapter 338 of the NRS. Bid results, which include a \$125,000 contingency, are summarized below in Table 1 – Bid Summary.

Table 1. Bid Summary

	Chalk Creek Channel Restoration and Stabilization Project Bidders	Total Bid
1	F. W. Carson Co.	\$689,389.00
2	M4 Engineering	\$859,081.00
3	Cruz Construction Co., Inc.	\$960,028.30
4	Aspen Developers Corporation	\$991,117.00
5	Sierra Nevada Construction, Inc.	\$1,014,007.00
6	Bighorn Contractors LLC dba Taurus Construction	\$1,075,027.00
Engineer Estimate		\$1,284,270.85

Table 2. Recommended Bid Award

Chalk Creek Channel Restoration and Stabilization Project – Base Bid	\$564,389.00
Contingency	\$125,000.00
Bid Award	\$689,389.00

Further erosion and damages to adjacent homeowner property fences, along with higher future bids, are the likely consequences if this project is not awarded today, increasing risk to the City.

Financial Implications:

Funding for this project will be provided from the Sewer Fund as identified in the fiscal year (FY) 24 Capital Improvement Program.

Legal Implications:

This contract was competitively bid in accordance with Chapter 338 of the NRS. NRS 338.147 provides that a local government shall award a contract for a public work for which the estimated cost exceeds \$250,000 to the contractor who submits the best bid pursuant to the requirements of the chapter. F. W. Carson Co. maintains the proper licenses to construct the project and submitted the best bid pursuant to City procedures and Nevada Law.

Recommendation:

Staff recommends Council award the construction contract to F. W. Carson Co. for the Chalk Creek Channel Stabilization and Restoration Project as described in the attached scope of work in an amount not to exceed \$689,389 (Sewer Fund).

Proposed Motion:

I move to approve staff recommendation.

Attachments:

F. W. Carson Co. Contract