

Staff Report

for the Regular Meeting of the Board of Directors, March 27, 2019

TO: Board of Directors

FROM: Gary D. King, P.E., PhD, Engineering Manager

DATE: March 20, 2019

SUBJECT: 2019 Bowman Spaulding Canal Liner Replacement (FATR#2230)

ENGINEERING

RECOMMENDATION:

Award a construction contract to Hanson Brothers, Inc. for the replacement of a section of the Bowman Spaulding Canal Liner Replacement in the amount of \$489,819.00, and authorize the General Manager to execute the appropriate documents.

BACKGROUND:

The 2019 Bowman-Spaulding Canal Liner Replacement Project will involve the replacement of 475 linear feet at a cost of \$489,819.00 or \$1031.19 per foot of aged and badly deteriorated concrete canal liner. This segment of the canal will be replaced with a new bottom and sloped walls and connection to the previous replacement work in 2018. Construction will improve the canal section by increasing structural integrity.

In comparison, the 2018 Bowman Spaulding Canal Liner Project (FATR#2146) consisted of replacement of 400 feet of canal liner replacement upstream of this current project. The cost for that work was \$450,456.80 or \$1126.14 per foot and was completed by Hanson Brothers Enterprises. The 2018 project included a stilling well and bridge installation that were needed for that section of canal causing the higher costs per foot. The current section of canal does not have those requirements.

Quotes for the construction of the project were requested from eight qualified contractors (C & D Contractors, Hansen Brothers Enterprises, Gateway Pacific Contractors, Lorang Brothers Construction, McGuire & Hester Construction, Syblon Reid Construction, T & S Construction, and TCB Industrial, Inc.). Quotes were opened on February 21, 2019. Three quotes were received as shown below

and Hansen was the low bidder in the amount of \$489,819.00 or \$1031.19 per foot.

Quoter	Quote
Hansen Brothers Enterprises	\$489,819.00
Gateway Pacific Contractors, Inc.	\$698,700.00
McGuire and Hester	\$718,290.00

The project will not change the character, scope, or size of the canal. Therefore, it is considered a maintenance project and categorical exemption per sections 15301- Existing Facilities and 15302 – Replacement or Reconstruction of the California Environmental Quality Act.

This project directly relates to Strategic Goal 1 of the 2016 -2018 Strategic Plan to strengthen reliability and redundancy of facilities as indicated on the Districts website at https://nidwater.com/wp-content/uploads/2016/04/2016_2018-Strategic-Plan.pdf.

Staff is recommending that the Board award the contract with Hansen Brothers Enterprises in the amount of \$489,819.00.

BUDGETARY IMPACT:

This project is budgeted in the Reservoirs, Dams and Waterways (50112-52921), the budget for 2019 is \$1,700,000. After this commitment, there will remain 1,172,000 in this account.

ATTACHMENTS: (3)

1. 2019 Bowman-Spaulding Canal Liner Replacement - Quote Summary Sheet
2. Small Scale Location Map
3. Large Scale Location Map

GK

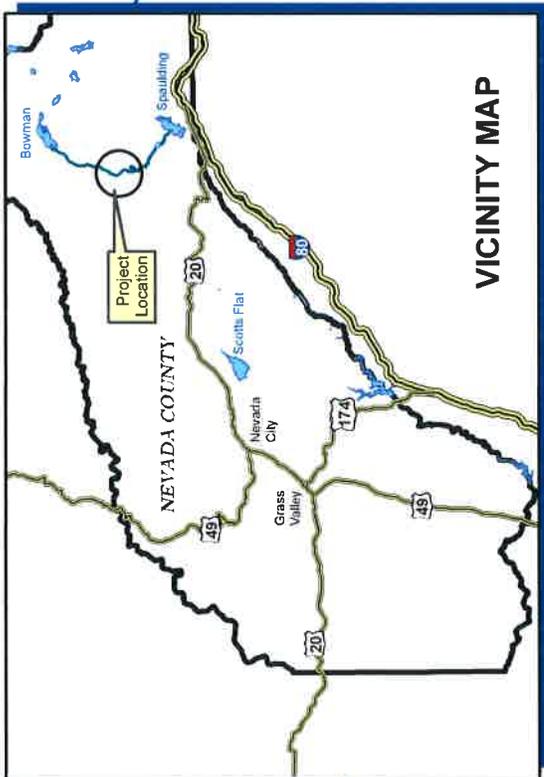
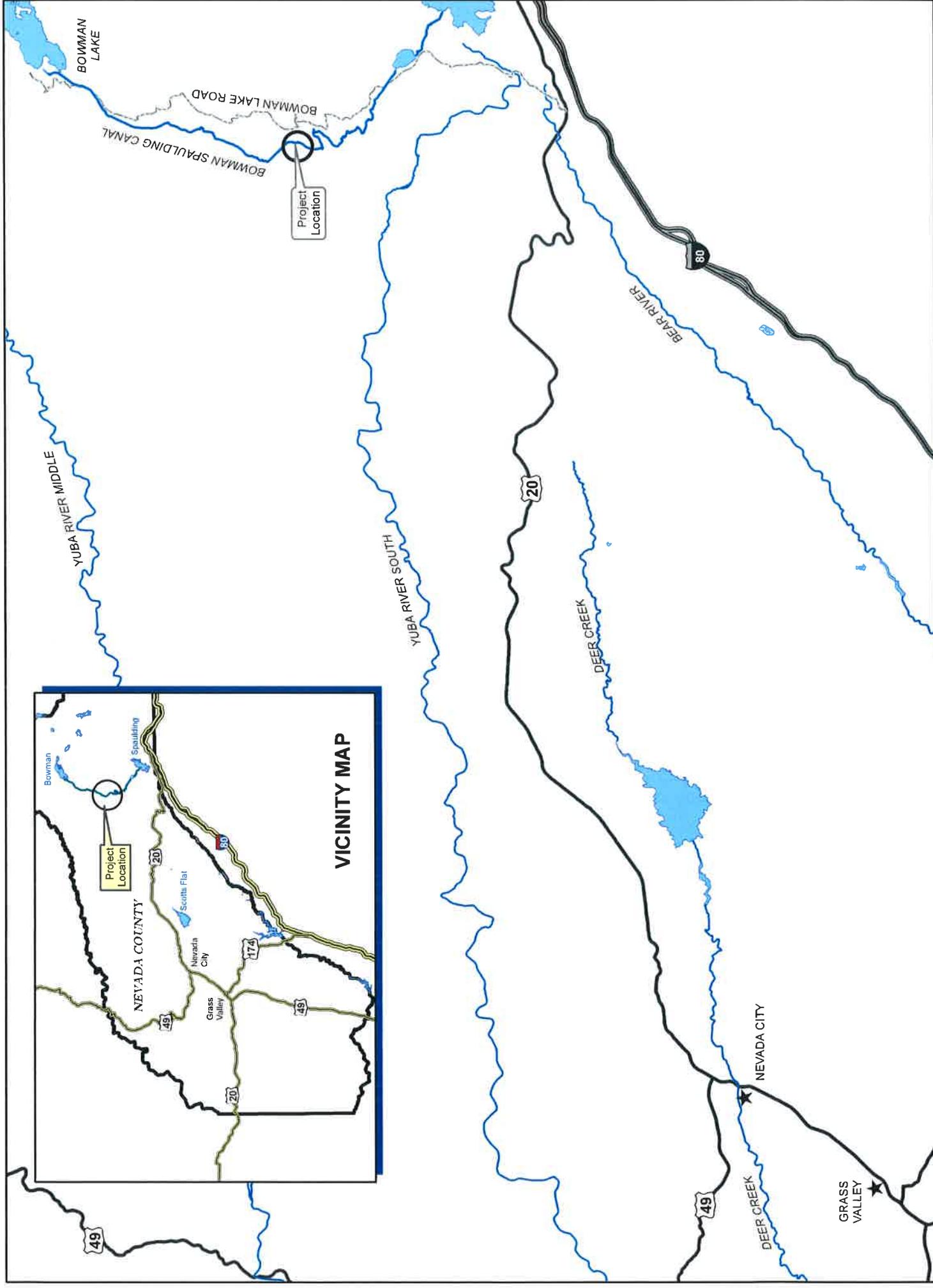


NEVADA IRRIGATION DISTRICT

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**Summary of Bid Response(s)-FATR 2230
 2019 Bowman-Spaulding Canal Liner Replacement**

	Descriptions	Hanson Bros Enterprises Extended Amount	Gateway Pacific Contractors Extended Amount	McGuire and Hester Extended Amount
Item 1	Mobilization	\$35,165	\$20,000	\$55,000
Item 2	Temporary diversion dam (inspectors discretion)	\$11,200	\$2,500	\$5,000
Item 3	Demolition and disposal of existing concrete liner and soil. Disposal shall be offsite	\$35,415	\$75,000	\$81,640
Item 4	Excavation	\$35,335	\$69,000	\$128,000
Item 5	Rock Excavation	\$20,150	\$7,500	\$8,750
Item 6	6-inch concrete slab includes connections to concrete channel	\$152,000	\$260,300	\$218,500
Item 7	6-inch concrete liner (one side) includes connection to concrete channel	\$187,435	\$258,400	\$199,500
Item 8	Weep-hole detail	\$3,282	\$1,000	\$3,400
Item 9	Saturated soil excavation with crushed rock replacement	\$9,837	\$5,000	\$18,500
		Hanson Bros. Enterprises	Gateway Pacific Contractors	McGuire and Hester
		\$489,819	\$698,700	\$718,290
	Total Base Quote Price			



VICINITY MAP

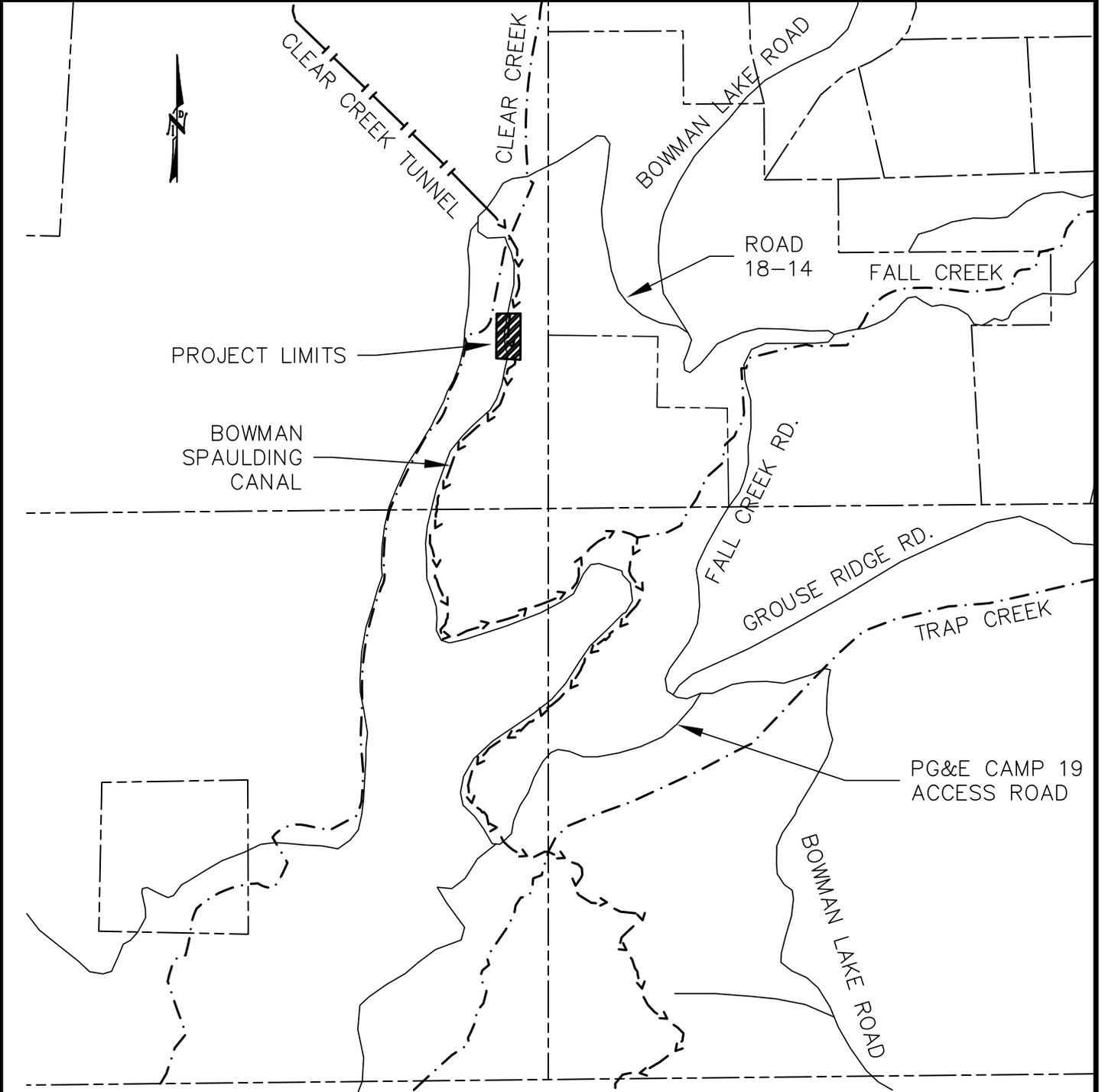
**2019 BOWMAN SPAULDING CANAL LINER REPLACEMENT
VICINITY MAP**

NEVADA IRRIGATION DISTRICT

NEVADA AND PLACER COUNTIES, CALIFORNIA

PROJECT FOR 2019 Bowman Spaulding Canal Liner Replacement

SCALE: Not to Scale



TO HWY 20