

MEMORANDUM

TO: Board of Trustees

THROUGH: Steven J. Pinkerton
General Manager

THROUGH: Joseph J. Pomroy, P.E.
Director of Public Works

THROUGH: Bradley A. Johnson, P.E.
Director of Asset Management

FROM: R. Charles Miller, P.E.
Principal Engineer

SUBJECT: Review, discuss and possibly authorize an Early Opening of the 2017/2018 Capital Improvement Program Budget and Award a Construction Contract for the Sewer Pump Station #8 Improvements Project – 2017/2018 CIP Project: Fund: Utility; Division: Sewer; Project # 2599DI1704; Vendor: K.G. Walters Construction in the amount of \$685,000

STRATEGIC PLAN: Long Range Principle #5 – Assets and Infrastructure

DATE: June 2, 2017

I. RECOMMENDATION

That the Board of Trustees moves to:

1. Authorize an early opening of the 2017/2018 Capital Improvement Program Budget.
2. Award a construction contract to K.G. Walters Construction totaling \$685,000 for completion of the Sewer Pump Station #8 Improvements Project.
3. Authorize Chair and Secretary to execute the contract based on a review by General Counsel and Staff.

4. Authorize Staff to approve change orders to the construction contract for additional work not anticipated at this time of up to 10% of the project bid – \$68,500.

II. DISTRICT STRATEGIC PLAN

Long Range Principle #5 – Assets and Infrastructure – The District will practice perpetual asset renewal, replacement, and improvement to provide safe and superior long term utility services and recreation activities.

- The District will maintain, renew, expand, and enhance District infrastructure to meet the capacity needs and desires of the community for future generations.
- The District will maintain, procure, and construct District assets to ensure safe and accessible operations for the public and the District's workforce.

III. BACKGROUND

The District owns and maintains 18 sewer pump stations in Incline Village and Crystal Bay to transport raw sewage collected from the community to the District Water Resource Recovery Facility on Sweetwater Road. These pump stations were constructed in the 1960s and 1970s and range in size from serving just a few houses up to pumping nearly half of the sewage flow in the District. The larger sewer stations are generally masonry block unit buildings. The smaller stations are generally below grade concrete and metal structures.

Sewer Pump Station (SPS) #8, located adjacent to the Championship Golf Course's 15th Hole near the corner of Country Club Boulevard and State Route 28, is the District's second largest station and collects and transports 25% of the District's sewage flows. Constructed in the early 1970s, this station has provided reliable service to date but the mechanical and electrical equipment within the station has reached the end of its operational life. The age of the equipment, the number of hours of operation, and other equipment analyses such as vibration testing indicate replacement and rehabilitation is necessary to maintain reliable continuous operations of the station.

The proposed contract will complete a comprehensive rehabilitation of SPS #8 that will replace pumps, motors, heating and ventilation equipment, check and isolation valves, instrumentation and control equipment, piping, and other miscellaneous equipment. Station ingress/egress safety improvements will also be completed as part of the contract. The goal of the project is to enhance the condition of aging infrastructure to ensure an additional fifty years of reliable station operations and to complete the work in advance of a major equipment failure.

IV. BID RESULTS

Consistent with the requirements of Nevada Revised Statutes (NRS) Chapter 338, the District publicly advertised this project for bidding and plan sets were acquired by six interested bidders and builders' exchanges. Four bids were received and opened on June 1, 2017. The Engineer's estimate for the project was \$650,000. The bid results are as follows:

Contractor	Bid Amount
K.G. Walters Construction	\$685,000
Resource Development Company	\$782,377
Walker River Construction	Non-responsive
TNT Industrial Construction	Non-responsive

Walker River Construction's bid was deemed non-responsive for failure to meet the requirements of the bidding specifications. The bidding specifications and NRS 338.141 requires all bidders to list first tier subcontractors, equipment, and material suppliers that will supply work totaling more than five percent of the bid amount. Walker River Construction failed to list two material suppliers whose contract value exceeds five percent of the bid amount.

TNT Industrial Construction's bid was also deemed non-responsive for failure to meet the requirements of the bidding specifications. The bidding specifications and NRS 338.141 requires all bidders to list the type of work and percentage of the bid amount that will be self-performed. TNT Industrial Construction failed to list the work and percentage of the bid amount they intended to self-perform.

The low responsive bidder is K.G. Walters Construction. District Staff reviewed the bid, checked references, and recommends award of this project to K.G. Walters. K.G. Walters Construction has successfully completed numerous projects for the

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 Construction in the amount of \$685,000

District in the past including the 2011 Burnt Cedar Water Disinfection Plant Improvements Project and the 2012 Spooner Pump Station Project. If awarded, the project is scheduled to mobilize as early as September 5, 2017 and be complete and ready for final payment no later than January 5, 2018.

V. FINANCIAL IMPACT AND BUDGET

This work is included in the 2017/2018 Capital Improvement Program Budget under the Sewer Pump Station #8 Improvements Project (Project # 2599DI1704 – see attached data sheet). Additionally, the Sewer Pump Stations Improvement Project (Project # 2599DI1104) has additional funds carried forward and available from previous fiscal years. The following table outlines the total available project budget.

Total Available Project Budget

Description	Amount
2599DI1104 – SPS Improvements – FY16/17 Funds	\$325,105
2599DI1704 – SPS #8 Improvements – FY17/18 Funds	\$500,000
Total Available Budget	\$825,105

The total available budget to complete the proposed work is \$825,105.

The estimated project construction budget is presented in the following table.

Project Construction Budget

Description	Amount
Construction Contract	\$685,000
Construction Contingency at 10%	\$68,500
Design Services During Construction	\$20,000
Construction Inspection Services	\$25,000
District Staff Time	\$20,000
Estimated Project Total	\$818,500

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VI. ALTERNATIVES

None. The District must move forward with the infrastructure improvements at SPS #8 in order to ensure reliable sewer collection operations and avoid a sewer overflow to the environment.

VII. BUSINESS IMPACT

This item is not a "rule" within the meaning of Nevada Revised Statutes, Chapter 237, and does not require a Business Impact Statement.



Project Summary

Project Number:	2599DI1704	
Title:	Sewer Pump Station #8 Improvements	
Asset Class:		
Division:	99 - General Administration	
Budget Year:	2018	
Scenario Name:	Main	Active: Yes
Budget Status:	Data Entry	
Locations:		
Project Something:	DI - Distribution Infrastructure	

Project Description				
<p>The District owns 18 sewer pumping stations in Incline Village and Crystal Bay. Sewer Pump Station #8 collects and transports 25% of the raw sewage and transport to the wastewater treatment plant on Sweetwater Road. Constructed in the early 1970s this station has provided reliable service. The station contains the mechanical and electrical equipment to pump sewage to the wastewater treatment plant. The equipment in the station to be replaced includes pumps, motors, grinders, motor soft starts, variable frequency drives, air exhaust, motor control cabinets, check valves, isolation valves, instrumentation equipment, ingress/egress safety improvements, piping and other miscellaneous equipment. Our mission is to maintain the excellent condition and reliability of our aging infrastructure to collect and pump sewage to the wastewater treatment plant and to protect the environment.</p>				
Project Internal Staff				
Staff involvement is the coordination and contracting of the removal, procurement, and replacement of equipment with rebuilt or new equipment.				
Project Justification				
<p>This project funds the replacement of the equipment listed above at sewer pumping station #8. The age of the equipment, the number of hours of operation and other equipment analyses such as vibration testing dictate replacement or rehabilitation of the equipment to maintain this reliability to provide continuous service. Sewer pump station #8 was designed and constructed for a larger population build out in Incline Village. Our current and future anticipated resident population is considerably lower than the prediction in 1970. The design and construction of sewer pump station #8 will include smaller pumps commensurate with that population.</p>				
Forecast				
Budget Year	Total Expense	Total Revenue	Difference	
2018				
Construction	500,000	0	500,000	
Year Total	500,000	0	500,000	
	500,000	0	500,000	
Year Identified	Start Date	Project Partner	Manager	Est. Completion Date
2017	Nov 28, 2016		Principal Engineer	Dec 31, 2017