

ADMINISTRATIVE REPORT

TO: Environment and Infrastructure Committee

FROM: B. Newell, Chief Administrative Officer

DATE: August 4, 2022

RE: **West Bench Booster Station – Variable Frequency Drive Supply and Installation Contract Award**

Administrative Recommendation:

THAT the contract for the West Bench Booster Station Variable Frequency Drive Supply and Installation project be awarded to Keldon Electric Ltd in the amount of \$ 61,615 and;

THAT \$13,385 for costs associated with programming the new equipment and to provide a contingency be authorized.

Purpose:

To replace the existing pump controls at the West Bench booster station to address an issue causing street lights in the area to burn out and turn off, as requested by Fortis.

Reference:

FortisBC Commercial Energy Assessment Program Report – West Bench Water System, November 11, 2021

Business Plan Objective: *(Tie to current RDOS Business Plan)*

Background:

Since the West Bench pedestrian pathway lighting was installed in 2016, the lights in the system have been burning out sooner and at a higher rate than noted in the suppliers specifications. A Commercial Energy Assessment to analyze the electrical demand in the area was conducted to determine cause.

The report determined that the high energy demand at the West Bench booster station was causing the lights to burn out. Because two of the stations booster pumps are on soft starts, when the pumps turn on there is short period of high electrical demand which causes the street lights to overload and burn out. To reduce the peak electrical demand, Variable Frequency Drives (VFDs) which lower this peak demand will be installed to improve the overall energy efficiency of the booster station.

In June 2022 the RDOS released a Request for Quotes (RFQ) to hire a contractor to procure and install the new VFDs. The RFQ was open to all contractors from June 7th, 2022 to July 7th, 2022 and one quotation was received.

Analysis:

One quotation was received by the closing time on July 7th, 2022.

Proponent	Proposal Price Provided
Keldon Electric Ltd.	\$ 61,615.00

The price provided by the contractor was higher than originally estimated in the 2021 report, however with the recent price increases in materials and labour as a result of global inflations, the pricing provided by Keldon Electric Ltd. has been determined to present fair value.

In addition to the supply and installation costs for the project there will also be programming work associated with the installation of the new equipment. The programming work will be completed by MPE Engineering who helped develop the Regional District's Supervisory Control And Data Acquisition (SCADA) system to insure the new equipment is integrated properly. MPE has provided a quote for \$8,680 to complete the work. The total cost for the project will be about \$75,000 + GST, this price includes a contingency of about \$4,700.

This project is funded by the Area "F" Community Works Program. Upon completion, this project is eligible for a Fortis rebate of up to \$9,600.

Alternatives:

The board may choose to not award, and cancel the project.

Communication Strategy: Water users will be informed of any disruptions to service, as a result of the work.

Respectfully submitted:

Liisa Bloomfield

L. Bloomfield, Engineering Manager