



Legislation Details (With Text)

File #: 2020-007 **Version:** 1 **Name:**
Type: Resolution **Status:** Passed
File created: 1/6/2020 **In control:** Board of Directors
On agenda: 1/22/2020 **Final action:** 1/22/2020
Title: Contract No. 1900516
Energy Management: Freeze Protection Pump Installation at Imlay Pumping Station
CIP# 132007 / BCE 37.6
Sponsors: Cheryl Porter, Grant Gartrell
Indexes: Water Operations
Code sections:
Attachments: 1. 1900516 Procurement Report, 2. 1900516 Cost Tabulation, 3. 1900516 Vendor Survey, 4. 1900516 CIP Attachment, 5. 2020-01-15 Imlay Freeze Memo to Board

Date	Ver.	Action By	Action	Result
1/22/2020	1	Board of Directors	Approved	Pass
1/8/2020	1	Operations and Resources Committee	Referred	Pass

Contract No. 1900516

Energy Management: Freeze Protection Pump Installation at Imlay Pumping Station

CIP# 132007 / BCE 37.6

Agenda of: January 22, 2020

Item No.: **2020-007**

Amount: \$4,994,000.00

TO: The Honorable
Board of Directors
Great Lakes Water Authority

FROM: Sue F. McCormick
Chief Executive Officer
Great Lakes Water Authority

DATE: January 6, 2020

RE: **Contract No. 1900516**
Energy Management: Freeze Protection Pump Installation at Imlay Pumping Station

Vendor: Commercial Contracting Corporation

MOTION

Upon recommendation of Cheryl Porter, Chief Operating Officer - Water and Field Services, the Board of Directors (Board) of the Great Lakes Water Authority (GLWA), authorizes the Chief Executive Officer (CEO) to **enter into Contract No. 1900516 “Energy Management: Freeze Protection Pump Installation at Imlay Pumping Station” with Commercial Contracting Corporation, at a cost not to exceed \$4,994,000.00 for a duration of 820 days;** and authorizes the CEO to take such other action as may be necessary to accomplish the intent of this vote.

BACKGROUND

This proposed Contract No. 1900516 is a design-build contract that involves the design and construction of a new pumping unit at Imlay Water Pumping Station (Imlay Station). Imlay Station was constructed in the early 1970s and houses eight 75 million-gallon-per-day (MGD) pumping units and an 18 million-gallon (MG) finished water reservoir. Imlay Station receives pressure and flow from the Lake Huron Water Treatment Plant. Imlay Station boosts water system pressures to member partners served both south and west of Imlay Station. Member partners served west of the station include the Imlay City, Flint, Mayfield Township, and Lapeer. Member partners served south of the station include numerous communities in northern Oakland and Macomb counties.

JUSTIFICATION

Installation of the new pumping unit at Imlay Station will involve removing an existing pump, motor, variable frequency drive (VFD), and associated pipes, valves, and mechanical and electrical appurtenances; and providing new. The new pumping unit will be 22.5 MGD whereas the existing unit is 75 MGD. The smaller capacity pumping unit is sized to better match current as well as projected future water system demands. Operation of the new, smaller sized 22.5 MGD pumping unit will reduce long-term energy costs and therefore provides energy management opportunities at this pump station. Furthermore, the 22.5 MGD pumping unit will avoid the risk of damaging station equipment because of more frequent pump cycling and potential large pressure swings that are associated with the existing larger, 75 MGD pumping unit. Additionally, the new 22.5 MGD pumping unit will allow the operations team to run the pump longer during the winter months to cycle water into and out of the finished water reservoir at the station. This action will reduce the potential for water freezing inside the reservoir during winter months and improve water quality by reducing water age.

FINANCIAL PLAN IMPACT

Summary: Sufficient funds are provided in the financial plan for this project.

Funding Source: Water Construction Bond

Cost Center: Water Engineering

Expense Type: Construction (5519-882411.000-616900-132007)

Estimated Cost by Year and Related Estimating Variance: See table below.

Fiscal Year

FY 2020 Budget	\$ 646,000.00
FY 2021 Budget	4,153,000.00
FY 2022 Budget	<u>195,000.00</u>
Financial Plan Estimate	\$ 4,994,000.00

Proposed Contract Award		<u>4,994,000.00</u>	
Estimating	Variance	\$	0.00

Please note that the amounts above are per the DRAFT 2021 - 2025 CIP.

SAVINGS, COST OPTIMIZATION, AND REVENUE ENHANCEMENT IMPACT

The cost savings are not determinable at the time of award.

COMMITTEE REVIEW

This item was presented to the Operations and Resources Committee at its meeting on January 8, 2020. The Operations and Resources Committee unanimously recommended to refer this item to the full Board of Directors without a recommendation.

SHARED SERVICES IMPACT

This item does not impact the shared services agreement between GLWA and DWSD.