



Board of Aldermen Request for Action

MEETING DATE: 1/16/2024

DEPARTMENT: Public Works

AGENDA ITEM: Resolution 1302 , authorizing the purchase of a pump at the North Booster pump station.

REQUESTED BOARD ACTION:

A motion to approve Resolution 1302, authorizing the emergency purchase of a pump at the North Booster Pump Station from Mid-America Pump in the amount of \$17,797.68.

SUMMARY:

The Purchasing Policy outlines the spending authority of the City Administrator at \$15,000. From time to time, it is necessary for the administrator to authorize purchases exceeding that authority in order to address an immediate need. When this occurs, the Board is notified of the emergency need and that the administrator has authorized the necessary purchase.

Due to a significant leak last September, water pressure to the pump at the North Booster Pump Station was lost causing damage to the pump's impeller. Pumping capacity has been reduced necessitating the replacement of the pump. Delivery for this equipment is 15 -20 weeks.

On 9/27/23, there was a significant water break on North Main near 180th Street. The water break was significant enough to drain the Northwest water tower on 188th Street and the northern sector of Smithville within 30 minutes. Utilities staff responded to the break quickly but were unable to shut off pumps at the North Booster station until they arrived on site at the water treatment facility. During that time, North Booster pump #1 was running with a suction at 0 psi indicating there was no water pressure in the suction line. This creates the potential for cavitation and damage to the pump impeller, greatly reducing its life and pumping capacity.

Water treatment staff see a reduction in the pumping capacity of this pump indicating damage to the impeller from the water break and the lack of water pressure in the suction line feeding the pump.

Unfortunately, the existing pump is obsolete, and a replacement pump is dimensionally larger. Installation requires additional costs for new piping and flanges to fit the new pump dimensions and a new concrete foundational support for the pump.

The existing pump can still be used, but the life of the impeller and pumping capacity has been greatly reduced. The new pump has an expected lead time of 15-20 weeks.

Additionally, a SCADA alarm is scheduled to be programmed through the city's SCADA contractor to disable the North Booster pumps should a low suction or discharge psi level be detected. This can prevent pump damage in the future should a similar situation occur.

PREVIOUS ACTION:

none

POLICY ISSUE:

Facility / infrastructure maintenance

FINANCIAL CONSIDERATIONS:

The 2024 CWWS maintenance budget has sufficient funds for this expense.

ATTACHMENTS:

- | | |
|---|-----------------------------------|
| <input type="checkbox"/> Ordinance | <input type="checkbox"/> Contract |
| <input checked="" type="checkbox"/> Resolution | <input type="checkbox"/> Plans |
| <input type="checkbox"/> Staff Report | <input type="checkbox"/> Minutes |
| <input checked="" type="checkbox"/> Other: Proposal | |

RESOLUTION 1302

A RESOLUTION AUTHORIZING THE EMERGENCY PURCHASE OF A PUMP FOR THE NORTH BOOSTER STATION IN THE AMOUNT OF \$17,797.68

WHEREAS, the City of Smithville operates a water distribution system providing drinking water to residents; and

WHEREAS, one of the pumps at the North Booster Station is not operating properly; and

WHEREAS, replacement of pump is necessary and essential for continued service of drinking water; and

WHEREAS, Mid-America Pump has provided a quote in the amount of \$13,564.60.

NOW THEREFORE BE IT RESOLVED BY THE BOARD OF ALDERMEN OF THE CITY OF SMITHVILLE, MISSOURI, AS FOLLOWS:

THAT the Board authorizes the emergency purchase of a new pump from Mid-America Pump in an amount of \$17,797.68.

PASSED AND ADOPTED by the Board of Aldermen and **APPROVED** by the Mayor of the City of Smithville, Missouri, the 16th day of January, 2024.

Damien Boley, Mayor

ATTEST:

Linda Drummond, City Clerk



5600 Inland Drive
Kansas City, Kansas 66106
Phone 913-287-3900
Fax 913-287-6641

REPAIR PROPOSAL

SKP: 8026

Customer PO #:

Installation only: \$7,178.93

Prepared By #: Brad Saul

Replacement Pump only: \$10,618.75

Date: 1/4/2024

Estimated Delivery:

Customer Information

Bill To:

Contact Info:

Ship To:

Company Name: City of Smithville
Address: 107 W. Main Street
City: Smithville
State/Zip Code: Missouri 64089-

First Name: Bob
Last Name: Lemley
Phone: (816) 532-0070
Fax: (816) 532-8331

Company:
Address:
City:
State/Zip Code:

Description of Problem

This is quote for a new booster pump at the north booster station. The existing pump is now obsolete and the replacement is dimensionally larger than the old pump, so install will be more involved.

Pump Information

Pump Make: Aurora
Model: 382B-CC 6X6X11
Style: Vertical centrifugal pump
Pump RPM:
Motor RPM: 1800
☒ Seal
☐ Packing
Serial No:
HP: 30
Voltage:
Coupling:

Repair Description

Repair proposal for installation and supplies needed to install:

1ea - gasket for una-flange
2ea - 4" full face gaskets
2ea - 4" SS bolt packs
Labor to unwire and remove the old pump and concrete base
Labor to install the new pump, build concrete form and pour a new concrete base
Labor to wire motor, set rotation and test run
Truck and MLS charges

Does not include freight or anything else not listed above, please see terms and conditions

Repair proposal for pump and motor assembly only:

1ea - new AURORA 382B-CC 6X6X11 VERTICAL END SUCTION PUMP with a WEG 30HP 3/230/460 1800RPM TEFC 286JM

lead time is 15-20 weeks

Does not include freight or anything else not listed above, please see terms and conditions

Application Information

Pumpage:
Head:
Flow:
Temp:
Viscosity:
Specific Gravity:
☐ Hazardous ☐ Rotation Left
☐ MSDS ☐ Rotation Right

Terms and Conditions

1 Freight Charges Not Included
2 Taxes Not Included
3 Expedite Fees Not Included
4 Payment Terms - Net 30
5 Warranty Period - 90 Days
6 Proposal Valid for 30 Days
7 Teardown/Inspection/Field Service Hours/MLS will be charged if Equipment is Not Repaired or Replaced through Mid-America Pump