TO: Mayor Shaun Sipma  
Members of the City Council

FROM: Dan Jonasson, Director of Public Works

DATE: August 10, 2020

SUBJECT: ONE MILLION GALLON TANK DEMO - ENGINEERING AGREEMENT  
(PROJECT NUMBER 4530)

I. RECOMMENDED ACTION
   1. Recommend council approve the plans and specifications for the tank demolition and piping improvements and authorize the project to be bid.

II. DEPARTMENT CONTACT PERSONS

   Dan Jonasson, Director of Public Works  857-4140
   Jason Sorenson, Asst. Director of Public Works  857-4768

III. DESCRIPTION

   A. Background
      In 2014, Public Works staff began analyzing the one million gallon storage tank on 3rd St NE. Initially the tank appeared to be in relatively good condition considering it was constructed in 1946. However, upon further analysis it was decided to hire a coatings consultant to fully inspect the tank to determine the extents of modifications and repairs that are needed. Results of that study showed a tank in need of complete interior and exterior coating replacement and multiple repairs needed to bring the tank up to current OSHA regulations and AWWA standards as well as structural deficiencies and leaks. Estimated costs for this work were in excess of $800,000.

      Around the same time as the tank inspection, the City was in the process of expanding water infrastructure around the NE side of Minot. During some of these construction projects, the one million gallon tank was shut down and it was determined the tank had minimal impact on the City distribution system. The storage component this tank was providing was accounted for when the new tank was constructed in NW Minot along 16th Street NW.

   B. Proposed Project
      This project consists of modeling the interconnects between the three pressure zones along 3rd St NE. Based on modeling information, distribution piping modifications designed to ensure the different pressure zones continue to work together along this corridor once the one million gallon tank is eliminated from the system. Piping improvements, valve replacements and a pressure reducing valve installation, along with the demolition and foundation removal are all part of this project.

   C. Consultant Selection
      Houston Engineering was competitively selected in April of 2019 for a master water services engineering agreement and approved by Council in May of 2019 to provide general water
system design, modeling and construction services on water related projects in Minot. They have completed the plans and specifications for this work and it is ready to go out for bid.

IV. IMPACT:

A. Strategic Impact:
   N/A

B. Service/Delivery Impact:
   N/A

C. Fiscal Impact:

   Project Costs

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost (estimate)</th>
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<tbody>
<tr>
<td>Demo and Improvements</td>
<td>$394,960</td>
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<tr>
<td>Consultant design/observation</td>
<td>$ 98,000</td>
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<td>TOTAL</td>
<td>$492,960</td>
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   Project Funding
   $750,000 in funding has been allocated in the 2020 Water Distribution budget.

V. ALTERNATIVES

VI. TIME CONSTRAINTS
   N/A

VII. LIST OF ATTACHMENTS

   A. P#4488 engineers estimate of probable cost.
   B. Plans are available in the PW Directors office for review