

Moab City Council Agenda Item
Meeting Date: April 26, 2022

Title: Birch and Tusher Area Sewer Improvements Projects Task Orders

Disposition: Discussion and possible action

Staff Presenter: Chuck Williams, City Engineer

Attachment(s): Attachment No. 1 – Task Order No. 22-03 Birch Sewer

Attachment No. 2 – Task Order No. 22-04 Tusher Sewer

Recommended Motion: “I move to approve the Birch and Tusher Area Sewer Improvements Projects Task Orders in the amount of \$129,502 and \$144,767 respectively, and authorize the Mayor to sign the attached Task Orders.”

Background/Summary:

The City Council adopted a first time ever Sanitary Sewer Master Plan in early 2018. The Master Plan included identification of Capital and Maintenance needs for the City’s sanitary sewer system. These needs have been reviewed, revised, and updated as necessary. Most recently, the updated sanitary sewer capital projects list was brought to Council as a part of a sewer rates workshop in late 2021. Council approved sewer rates in an amount to fully fund the updated capital projects list through bonding, which totals \$6.5 million in 2022. The City’s on-call engineering consultant, Bowen, Collins & Associates (BC&A) wrote the original Sanitary Sewer Master Plan and have worked with the City’s debt servicer, Zions Public Finance, to incrementally update the sewer rate structure. BC&A was chosen by staff to design the two highest ranked sewer projects, which are described below.

City staff has identified pipelines in the southwest portion of the City near Birch Ave and Kane Creek Blvd to be in critical condition based on video inspections. City staff has also witnessed periodic back-up and blockages in this area due to failing pipe conditions. A significant portion of existing sewer pipe in this area is also documented as 6-inch diameter or smaller which is not in compliance with current City and State of Utah standards. To resolve these issues, City staff prepared a preliminary design and BC&A prepared a design analysis technical memorandum dated March 2022 that proposes to install approximately 2,000 feet of new 8-inch diameter PVC sewer located in Mountain View Drive and Birch Avenue to Kane Creek Boulevard (see Figure 1 in Attachment No. 1). The figure also shows a new sewer pipe in Apache Circle connected to the new sewer improvements. Part of the scope of this project will be to evaluate the feasibility of connecting the homes in Apache Circle to the new sewer improvements and abandon the existing sewer behind the cul-de-sac. If it is feasible, this segment of sewer in Apache Circle will be included in the project. If it is not feasible, the existing sewer in Apache Cir will remain as shown in the figure.

Sewer pipelines within 200 South Street from 400 East Street to Tusher Street as being in critical and severe condition and recommended replacement. Video inspection identified pipe deficiencies ranging from broken joints and excessive root growth to critical concrete pipe wall corrosion with exposed rebar or cracks in the barrel of the pipe. In addition to the

pipe condition concern, significant development is planned for the Lionsback area that will add sewer flows to these pipelines. The development will include a lift station and force main that will discharge in batch flows, resulting in intermittent higher flows in the project area. To address these issues, the City desires to replace 2,860 feet of existing 8-inch sewer pipe with 12-inch sewer (see Figure 1 in Attachment No. 2).

Both projects are scheduled for bid in fall of 2022 and construction in 2023.