



ENGINEERS

SURVEYORS

PLANNERS

## MEMORANDUM

March 14, 2024

Randy Smith  
Director of Forward Planning  
Fieldstone Homes

Subject: Mina Creek Water, Pressurized Irrigation, and Sewer Service by Payson City

Dear Randy,

At your request we have reviewed the water, pressurized irrigation, and sewer memorandum(s) provided by Hansen, Allen, and Luce (HAL). The following is a summary of our findings and recommendations.

### Water:

The study by HAL identifies the requirements for Source, Storage, and Delivery for the project. Many of these required improvements are also identified in Payson city's drinking water master plan. It appears that the Mina Creek project can be serviced by Payson City with the improvement projects identified by HAL.

### Pressurized Irrigation:

The study by HAL identifies the requirements for Source, Storage, and Delivery for the project. Many of these required improvements are also identified in Payson city's pressurized irrigation master plan. It appears that the Mina Creek project can be serviced by Payson City with the improvement projects identified by HAL.

### Sewer:

The Payson city master plan identifies three lift stations being required in this area of town. Based on the current master plan, the Mina Creek project area would need to install lift station #1 to service the project. We considered an alternate plan for this area that would allow 602 ERU's that currently flow to Salem city's treatment plant to be diverted to Payson city. We have discussed this with HAL's representatives as well and Payson city staff and received favorable feedback to continue more detailed analysis of this option. The attached exhibit shows generally this alternative which includes a sewer line being installed from the Arrowhead development to the west into future lift station #2. This would divert 243 ERUs from Arrowhead Park and 359 ERUs from Arrowhead Ranch developments. In addition, the current plan for Arrowhead Ranch is for a private lift station to service the east portion of the project. By installing lift station #1 on the southeast corner of Mina creek we could potentially eliminate a lift station that would be required in the area.

In summary, in review of the HAL memorandums, Payson City Master Plans, and the additional alternative to the sewer plan discussed above it would be beneficial for the property to be serviced by Payson city.

- Civil Engineering
- Structural Engineering
- Surveying
- Land Planning
- Landscape Architecture

