

# Hess Pump Station Site Valve Replacements and Repairs (All Districts)



Public Works & Utilities

February 1, 2022



# Background



- Hess Pump Station (Hess) was constructed in 1974, and utilized existing reservoirs and piping.
- The reservoirs and yard piping are 20 to 80 years old
- There are approximately 21 valves connecting the Water Treatment Plant, Hess, and reservoirs.
- These valves are in need of replacement or repair.
- The Northwest Water Treatment Plant (NWWTP) will be connected to and utilize this piping system.



# Analysis



- Construction is anticipated in 5-phases over multiple years.
- Manufacturing lead times and shipping of large valves are over 1-year.
- To expedite beginning construction and facilitate tying into the NWWTP, purchasing equipment prior to final design is recommended.



84" pipe example

Picture Source: <https://american-usa.com/news/2010/12/01/84-inch-spiral-welded-steel-pipe-installed-to-protect-new-orleans/>



# Analysis



- Requested funding will be utilized to:
  - Pre-purchase Valves
  - Procurement of the final design contract
  - Bidding for construction
- The final design contract and awarding of project construction will be presented as future items for the City Council's consideration.



# Financial Considerations



- On April 14, 2020 City Council approved \$500,000 for design and development of a cost estimate.
- The adopted 2021-2030 Capital Improvement Program includes \$6,400,000 for the WTP & Hess Valves in year 2021.
- Staff requests \$6,400,000 at this time for design, purchasing of equipment, and project construction.
- The revised total budget will be \$6,900,000.



## Recommendations/Actions



- It is recommended that the City Council:
  - Approve the budget
  - Adopt the resolution
  - Authorize the necessary signatures



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