

# Executive Summary Facilities Committee Meeting

DATE: July 20, 2021 TOPIC: IMEG's Analysis of the HVAC Piping in Lincoln Hall PREPARED BY: Courtney Whited

# **Recommended for:**

□ Action

⊠ Discussion

⊠ Information

# Purpose/Background:

The District's engineering firm, IMEG, confirmed the findings of United Building and Energy Services. After mapping out the HVAC piping in Lincoln Hall and analyzing the system as a whole, the following recommendations were proposed:

- VFDs could be installed to serve pumps 3 and 4 to reduce pump energy during low load operation.
  The triple duty valves would need to be fully opened with the addition of the VFDs.
- Controls must be updated so that pumps 3 and 4 and pumps 7 and 8 run in lead lag operation because the piping serving each set of pumps will be sized for one pump operating at its full capacity GPM.
   The second pump was intended for redundancy.
- Piping serving pumps 3 and 4 must be increased from 3" to 5" to accommodate the pump capacity of 340 GPM. Contractor to size new CV 7 to provide a pressure drop at 440 GPM of 1 to 4 PSI.
- Piping for pumps 7 and 8 can remain 3" as this fits the 100 GPM capacity when one pump is set up for total flow.
- Install bridge gauges across the strainer and pump for pumps 3 and 4.
- Change the bypass line to pumps 3 and 4 from 3" to 5" and install a new bypass valve.
- The 3" pipe size downstream of pumps 3 and 4 is questionable for the 340 GPM capacity.

# **Fiscal Impact:**

Unknown

# **Recommendation:**

This summary is for informational purposes. The Administration requests direction from the Facilities Committee on next steps.