



Proposed Freud Sanitary Pump Station

06/26/24

Agenda

- ◆ System Operations & Requirements
 - ◆ System Background
 - ◆ Project Background
 - ◆ Why is GLWA proposing a Sanitary Pump Station?
 - ◆ Why was the location chosen?
 - ◆ Why will Freud be rerouted?
 - ◆ Why is the building this size?
 - ◆ Heavy Equipment
 - ◆ Bypass Pumping
- ◆ Design & Planning Review
- ◆ Questions

A dynamic splash of clear blue water against a light blue background, with numerous bubbles and droplets visible. A semi-transparent blue horizontal band is overlaid across the middle of the image.

System Operations & Requirements

System Background

Conners Pump Station

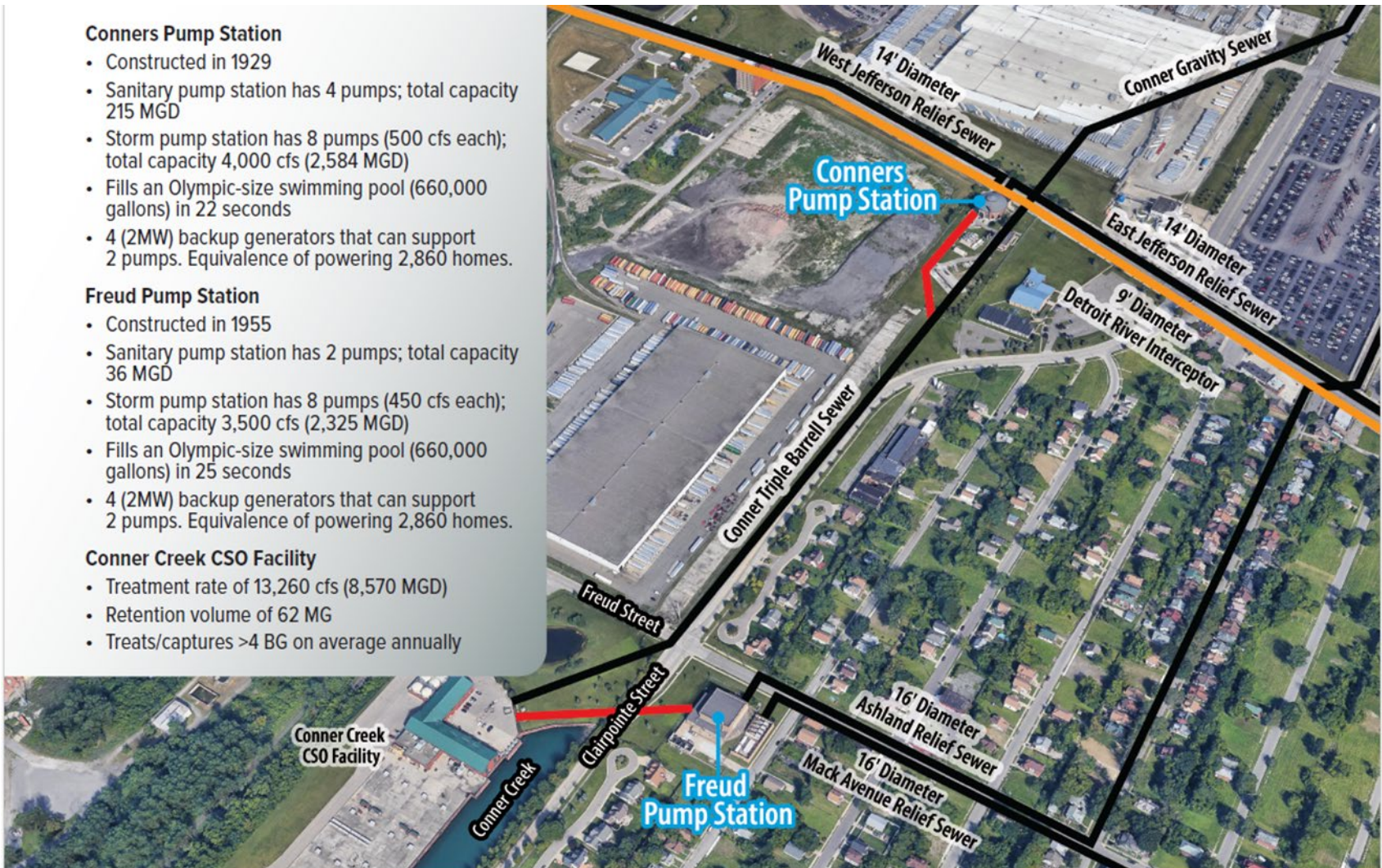
- Constructed in 1929
- Sanitary pump station has 4 pumps; total capacity 215 MGD
- Storm pump station has 8 pumps (500 cfs each); total capacity 4,000 cfs (2,584 MGD)
- Fills an Olympic-size swimming pool (660,000 gallons) in 22 seconds
- 4 (2MW) backup generators that can support 2 pumps. Equivalence of powering 2,860 homes.

Freud Pump Station

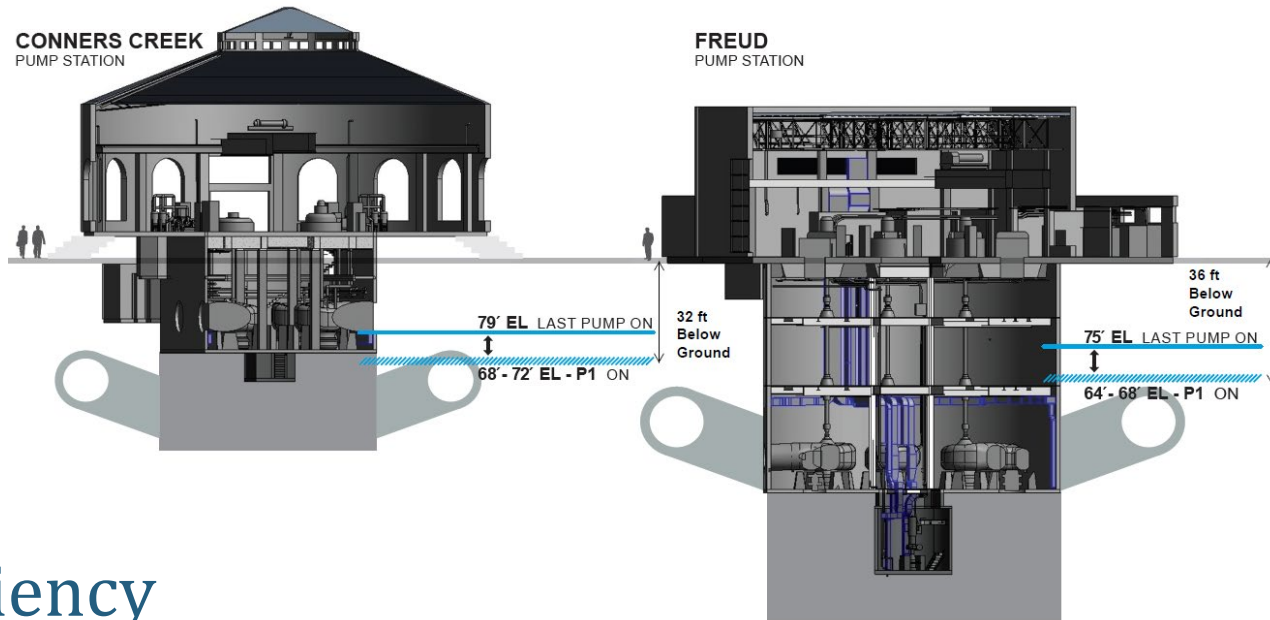
- Constructed in 1955
- Sanitary pump station has 2 pumps; total capacity 36 MGD
- Storm pump station has 8 pumps (450 cfs each); total capacity 3,500 cfs (2,325 MGD)
- Fills an Olympic-size swimming pool (660,000 gallons) in 25 seconds
- 4 (2MW) backup generators that can support 2 pumps. Equivalence of powering 2,860 homes.

Conner Creek CSO Facility

- Treatment rate of 13,260 cfs (8,570 MGD)
- Retention volume of 62 MG
- Treats/captures >4 BG on average annually



Project Background

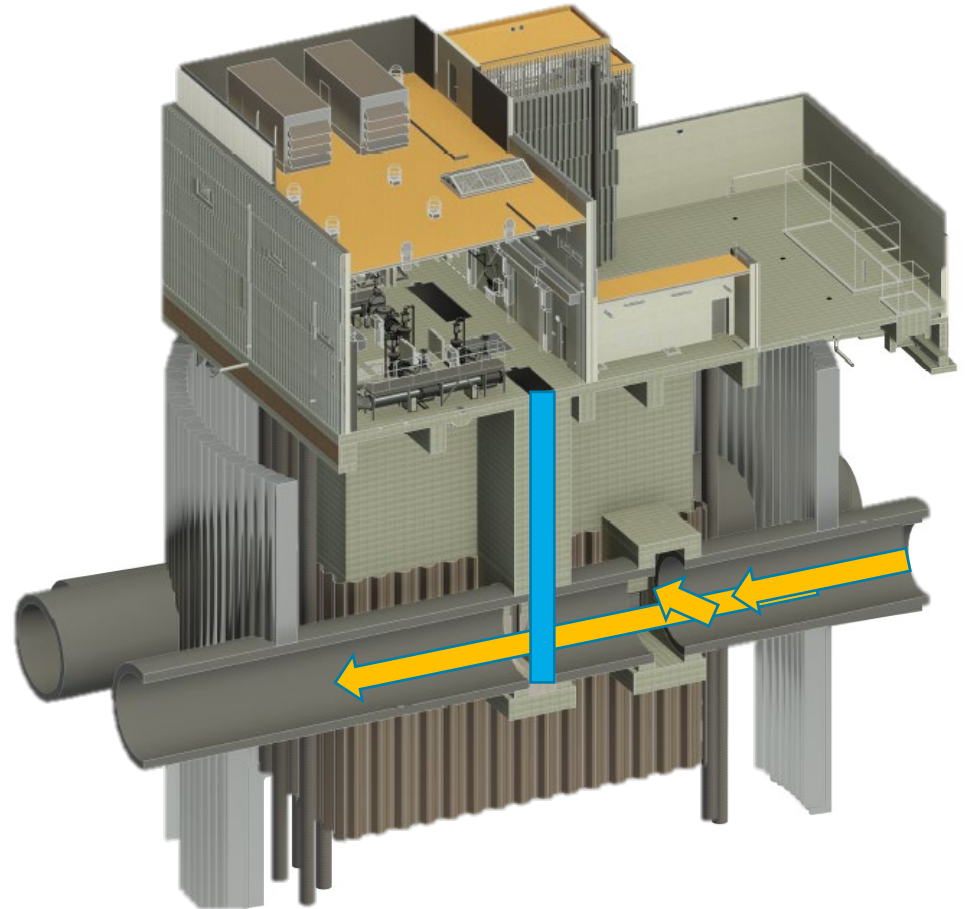


Resiliency

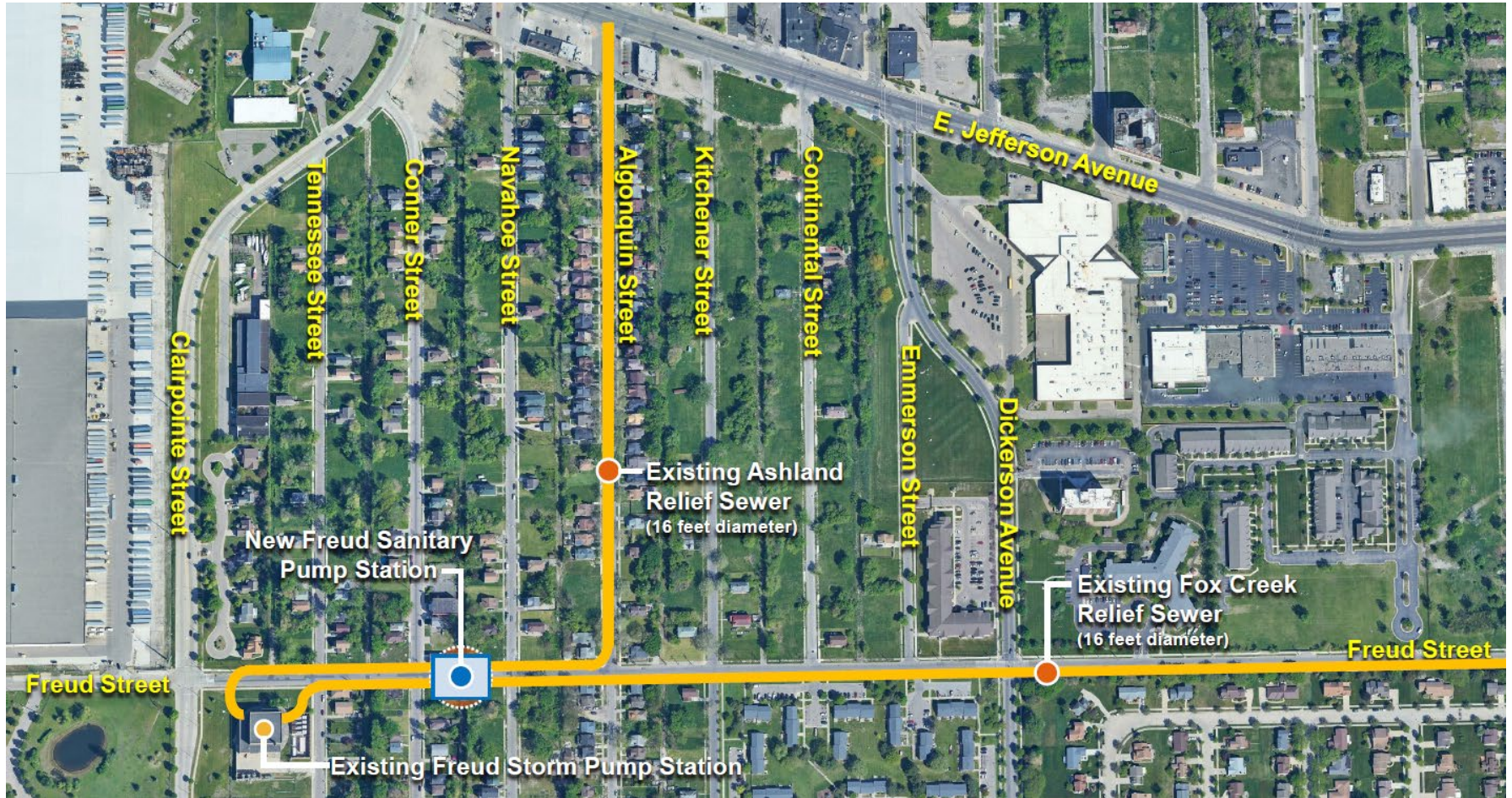
- Power Monitoring and Reliability
- System Access for Routine Maintenance
- Mechanical Upgrades

Why is GLWA proposing a Sanitary Pump Station?

- 💧 Improve the Reliability of Freud Storm Pump Station
 - 💧 Cleaning
 - 💧 Inspection
 - 💧 Maintenance
 - 💧 Rehabilitation
- 💧 Maximize GLWA's ability to keep sewer water levels low during rain events
- 💧 Help prevent basement backups



Why was the location chosen?



Why will Freud be rerouted?



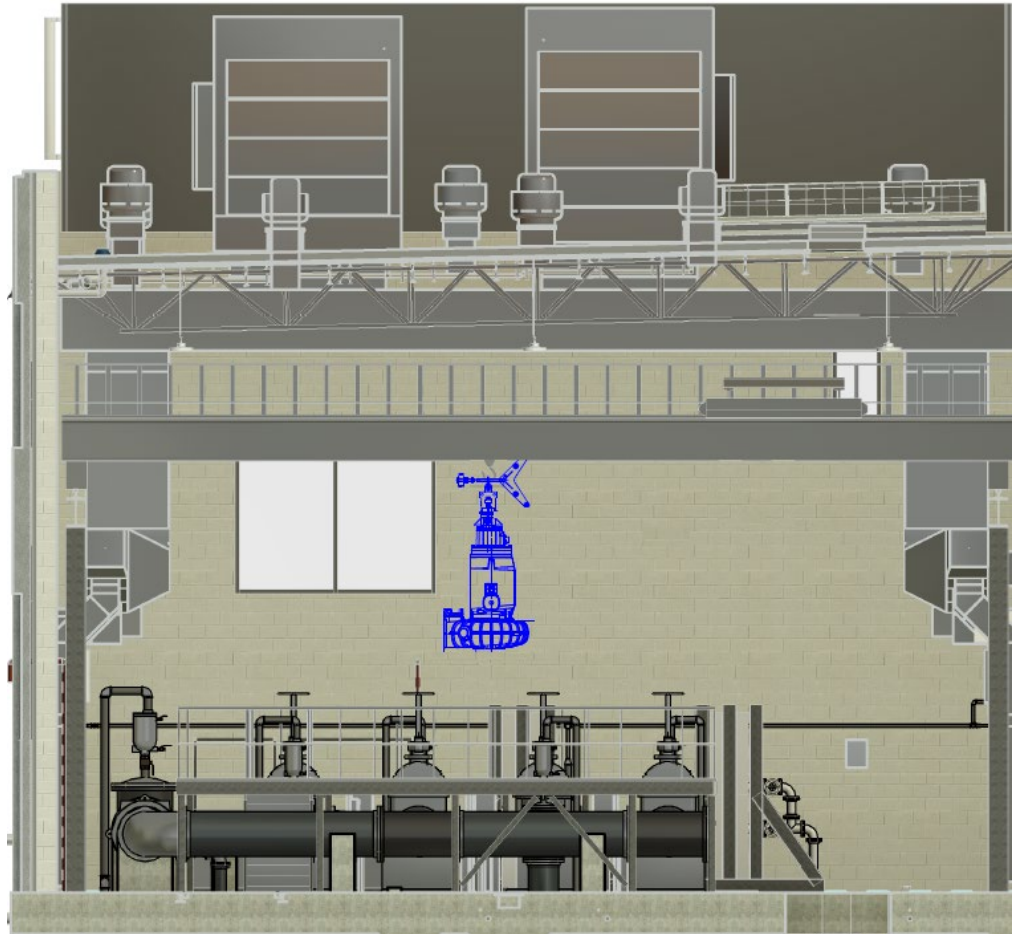
Why is the building this size?

◆ Contain Operations

◆ Crane

◆ Noise

◆ Odor



Heavy Equipment

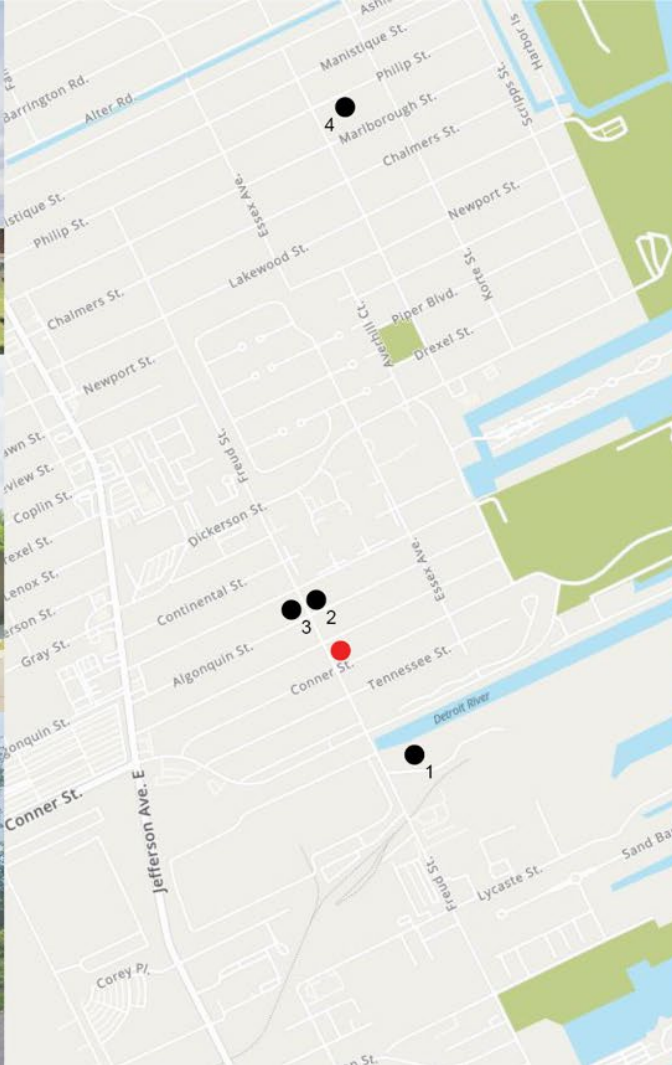


Bypass Pumping



A dynamic splash of water in shades of blue, with bubbles and ripples, set against a light blue background. The water is captured in motion, creating a sense of freshness and movement.

Design & Planning Review













A high-speed photograph of water splashing, creating a dynamic, blue-toned background. The water is captured in mid-air, with numerous droplets and bubbles visible. A semi-transparent blue horizontal band is overlaid across the middle of the image, serving as a backdrop for the text.

Questions