



CITY OF
FORT LAUDERDALE

Sanitary Sewer Lift Station A-5

March 19, 2026

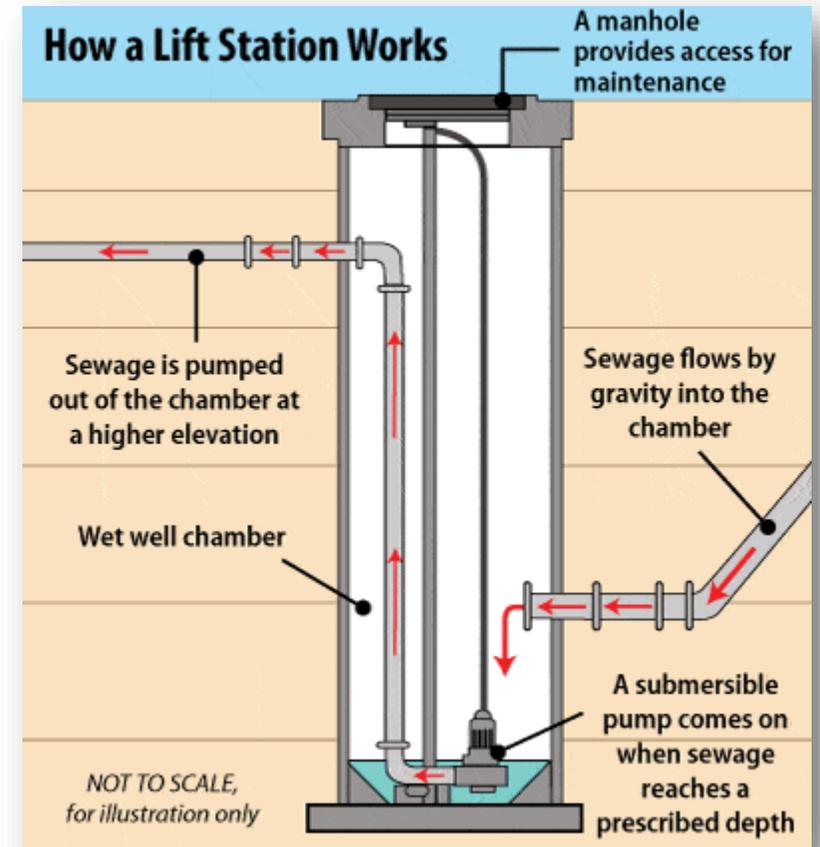
CAM #26-0267

Exhibit 1

Page 1 of 15

Sanitary Sewer Lift Station Overview

- A sanitary sewer lift station is a facility that moves sewage from a lower elevation to a higher elevation when gravity alone cannot accomplish the task.
- Sanitary sewer lift station pumps force sewage (effluent) through a pressurized force main to the G.T. Lohmeyer Wastewater Treatment Plant.
- A sewer basin is a designated area that collects wastewater and directs it to the sanitary sewer lift station.
- Sanitary sewer lift station(s) are located at the lowest point of the sewer basin.



Sanitary Sewer Lift Station Overview

- The City currently has 191 sanitary sewer lift stations.
- The available capacity of a sanitary sewer lift station is determined by the Nominal Average Pump Operating Time (NAPOT). The engineering standard maximum run time is ten (10) hours per day.
- Once pump operations exceed ten (10) hours per day, the sanitary sewer basin should be split to reduce the pump(s) operating time.
- City staff recommends splitting the existing A-7 sanitary sewer basin to create a new sanitary sewer basin (A-5) to increase operational capacity.

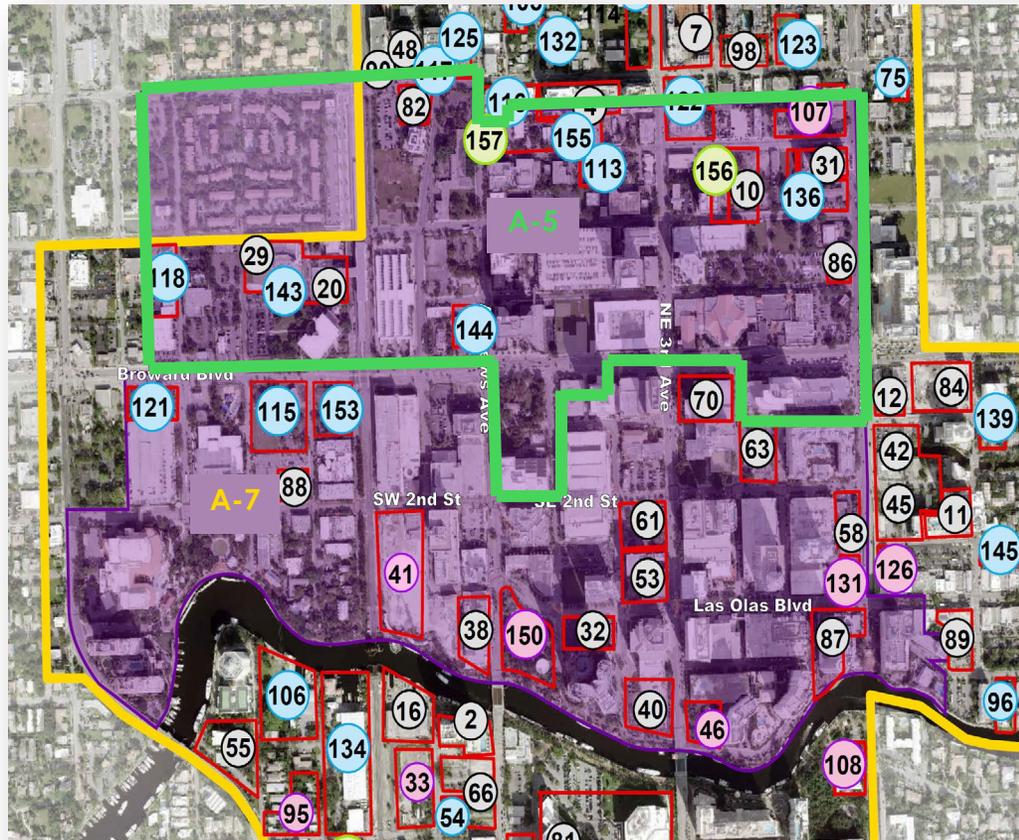
Sanitary Sewer Lift Station Overview Cont.

- Odor control units are highly effective for lift stations, often reducing hydrogen sulfide and odor complaints by over 99%.
- Typical noise levels:
 - Lift station is between 40-50 dB
 - Normal conversation is between 55-65 dB
 - Road traffic is 65 dB or louder

A-7 Sanitary Sewer Basin (Existing)

- The A-7 sanitary sewer basin is primarily within the Downtown Regional Activity Center and serves District 2 and District 4.
- Significant development within the A-7 sanitary sewer basin include:
 - Two (2) developments in review
 - Ten (10) developments approved
 - Four (4) developments under construction
 - Fifteen (15) developments completed
- Developments in review, approved and in construction include:
 - 375 hotel units
 - 7,913 residential units
 - 203,819 sq. ft of commercial space

Proposed Sanitary Sewer Basin Split



- Downtown Regional Activity Center - yellow line
- Existing A-7 sanitary sewer basin – purple area
- Proposed A-5 sanitary sewer basin – green line

- Four (4) development projects require the creation of the A-5 sanitary sewer basin and construction of the lift station to receive a Certificate of Occupancy (CO).
- Any future development, including the City Hall building, within this basin will require the A-5 sanitary sewer basin and lift station to be constructed.
- The A-5 sanitary sewer lift station will reduce the existing A-7 sanitary sewer lift station pump operating times, thus preserving its operational capacity and useful life.
- Staff has begun the preliminary design work; however, site selection is required to finalize the design.
- The design, permitting, and construction of the A-5 sanitary lift station is estimated to take two and one-half (2.5) years.

Sanitary Sewer Lift Station Considerations

- The current budget for the A-5 Sanitary Sewer Lift Station is \$11.5M
- Property ownership
- Adequate footprint requires a fifty-foot by fifty-foot area (50' x 50')
- Proximity to existing sanitary sewer system
- Vertical clearance
- Service access
- Ease of flow reversal
- Vehicular sight triangle
- Space for screening / landscape buffer

Potential A-5 Sanitary Sewer Lift Station Sites

City Hall



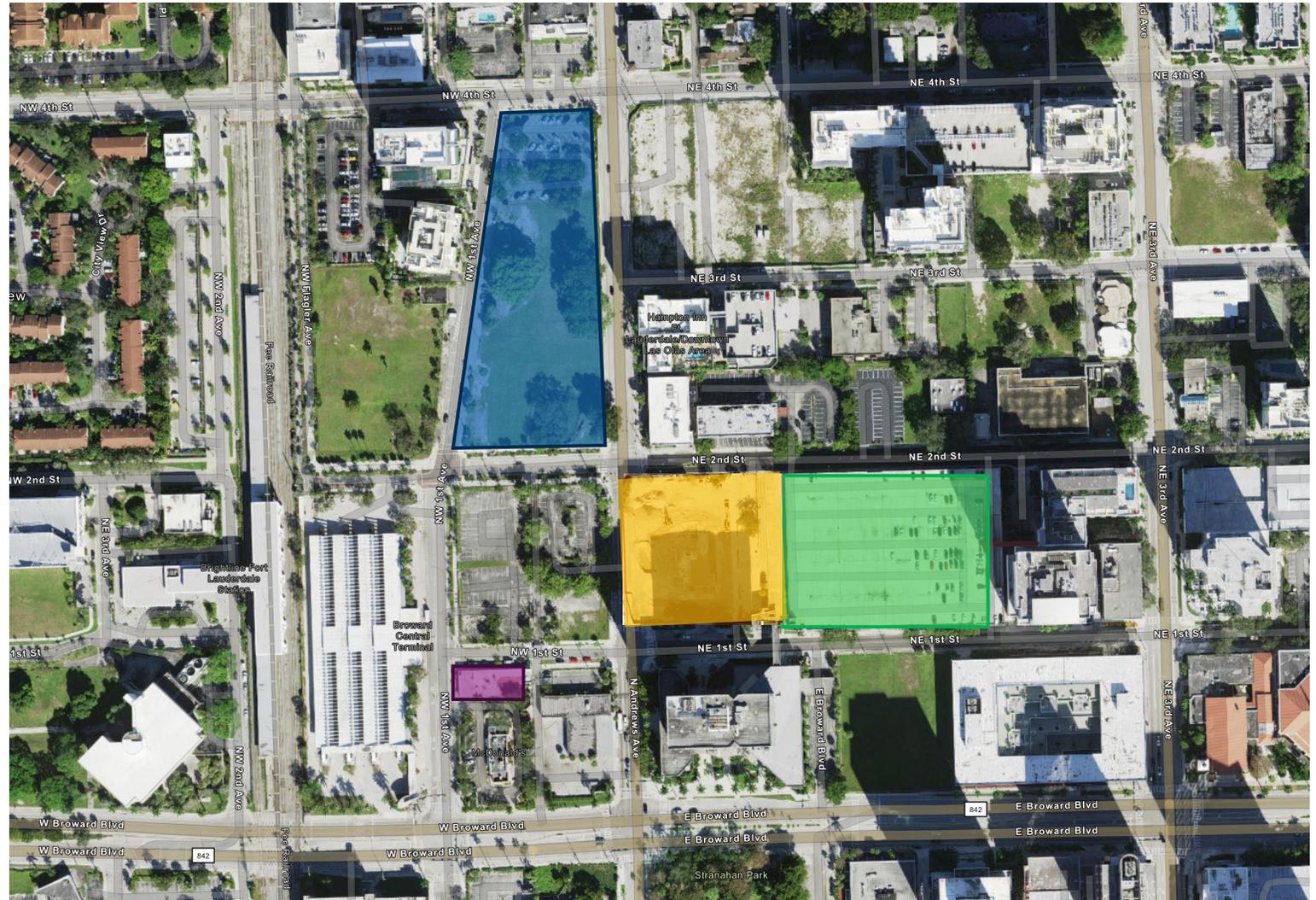
City Hall Garage



One Stop Shop

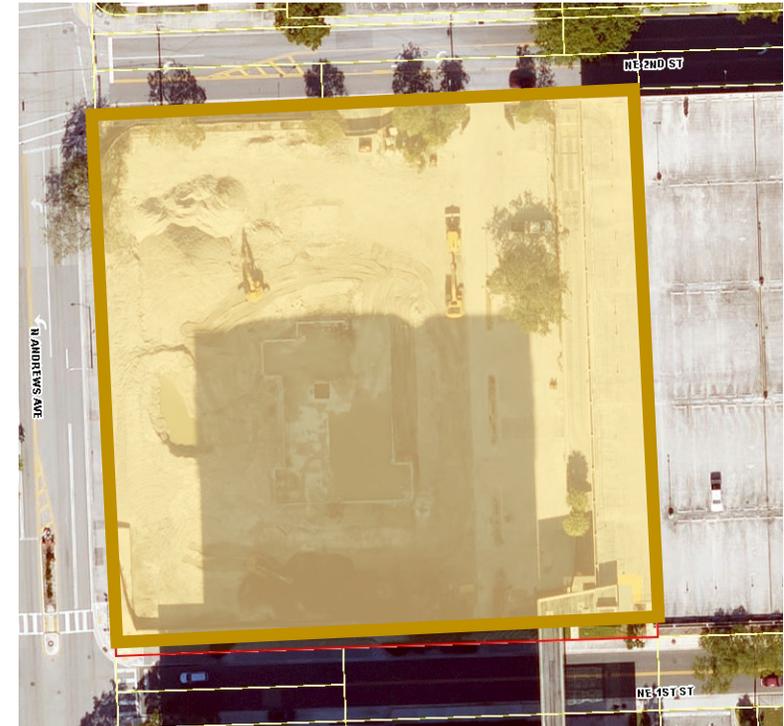


Community Court



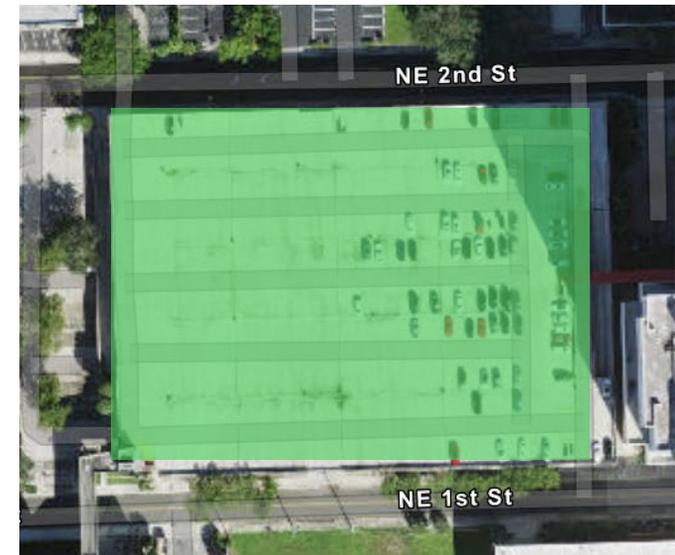
City Hall Site

- Owned by the City (Approximately 1.70 acres for City Hall building site plan)
- Adjacent to the proposed force main along NE 2 Street
- Vacant site but requires coordination with City Hall development
- The City Hall developer's initial assessment indicates there may not be adequate space
- Gravity sewer reversing will be challenging
- Financial impacts are unknown at this time and may require additional funding allocation



City Hall Garage Site

- Owned by the City
- Adjacent to the proposed force main along NE 2 Street
- Gravity sewer reversing will be challenging
- Vertical clearance of sixteen feet (16') may not readily allow for pump service needs
- Loss of parking spaces
- Limited construction area
- Requires structural analysis for viability
- Financial impacts are unknown at this time and may require additional funding allocation



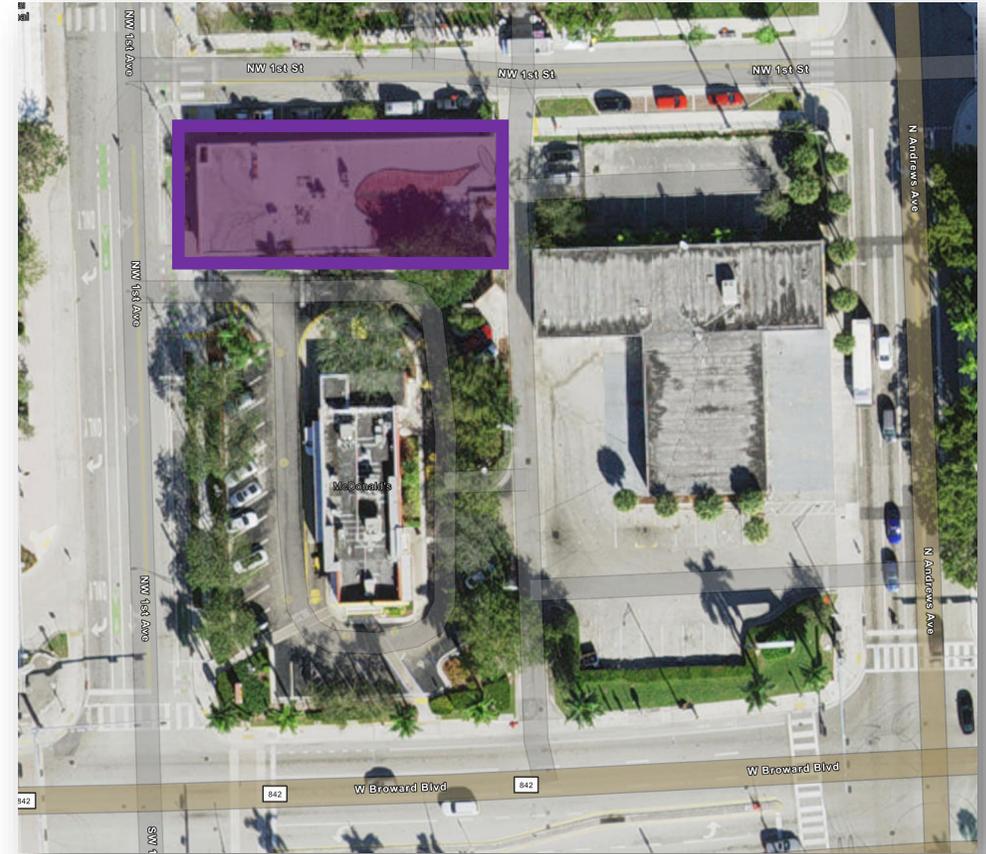
One Stop Shop Site

- Owned by the City (Approximately 2.75 acres)
- No vertical clearance limitation
- Reversing of gravity sewer along SW 1 Avenue has the least existing utilities in corridor (easier constructability)
- Lift station can be placed outside of sight triangle
- Adjacent to the proposed force main along NE 2 Street
- Potential impacts to future site plan considerations
- Lift station noise level is less than both road traffic and normal conversation
- Odor control units remove 99% of hydrogen sulfide and other odors



Community Court Site

- Not owned by the City – requires purchase by the City
- Reversing of gravity sewer along SW 1 Avenue has the least existing utilities in corridor (easier constructability)
- Lift station can be placed outside of sight triangle
- Adjacent to the proposed force main along NE 2 Street
- Existing Building Use Considerations
 - Community Court would need to be relocated
 - Convenience Store lease expires on October 2, 2027
- The purchase of the property exceeds the current funding allocation. The 2024 City appraisal was \$2.5M. The property asking price was \$3M.



A-5 Potential Site Location Matrix

	City Hall	City Hall Garage	One Stop Shop	Community Court
City Owned Property	✓	✓	✓	✗
Adequate Footprint	🔍	✓	✓	✓
Vertical Clearance	🔍	✗	✓	✓
Service Access	🔍	✗	✓	✓
Flow Reversal	✓	✓	✓	✓
Vehicular Sight Triangles	✓	✓	✓	✓
Fiscal Impacts	🔍	🔍	✓	✗

Lift Station Screening Examples



