

**City of North Miami**

# **BREEZESWEPT FORCE MAIN & PUMP STATION IMPROVEMENTS**

**Public Informational Meeting**

Thursday, June 27, 2024



**300**  
ENGINEERING GROUP, LLC



# Agenda



Project Background



Anticipated Construction Impacts



Project Description



Project Status and Schedule



Preliminary Design Plan



Questions

# Meet the Project Team



## YADLY ST FORT, CIVIL ENGINEER

*City of North Miami Public Works Department  
City Project Manager*



## NICHOLAS J. FERNANDEZ, PE

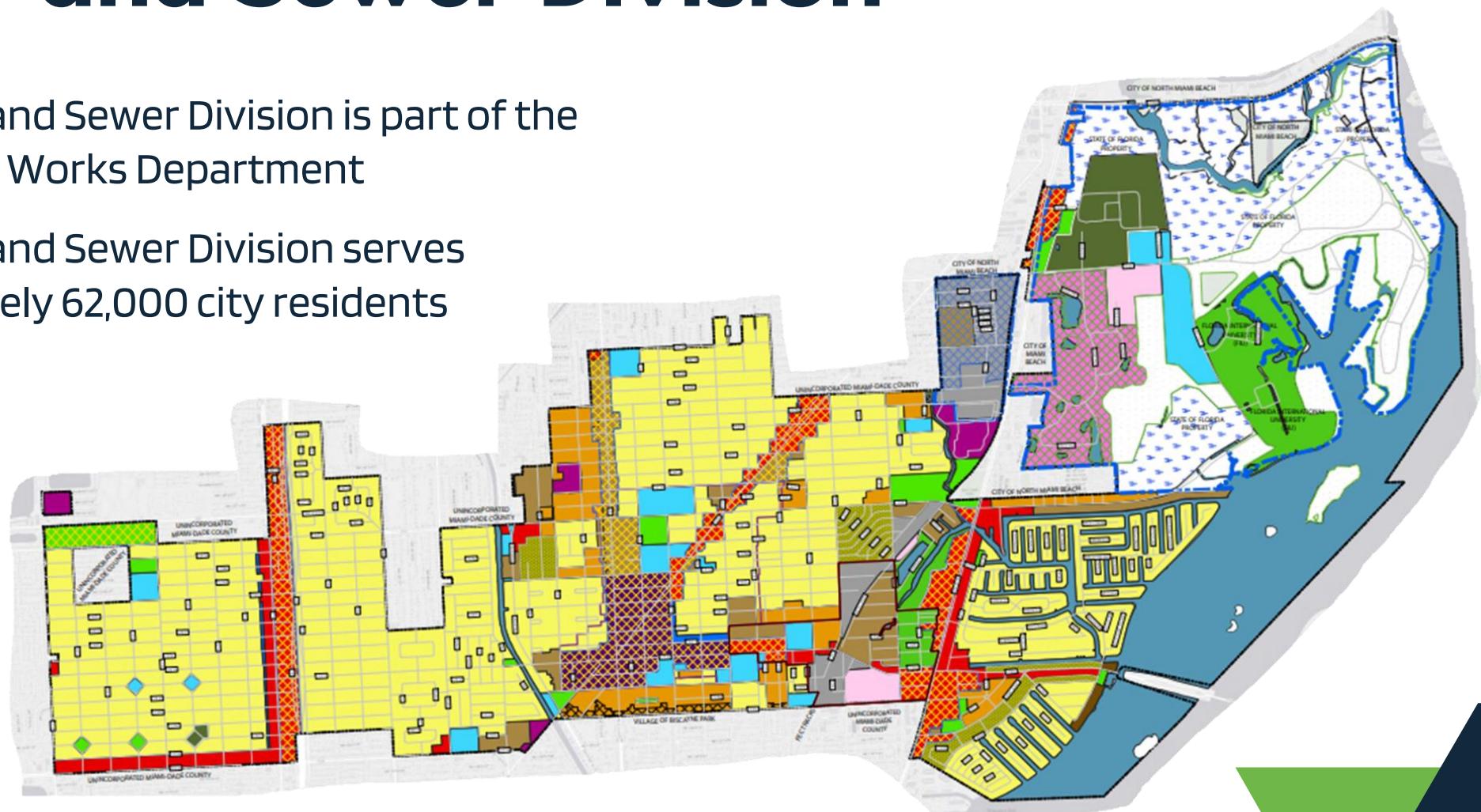
*300 Engineering Group  
Consultant Project Manager*

# PROJECT BACKGROUND



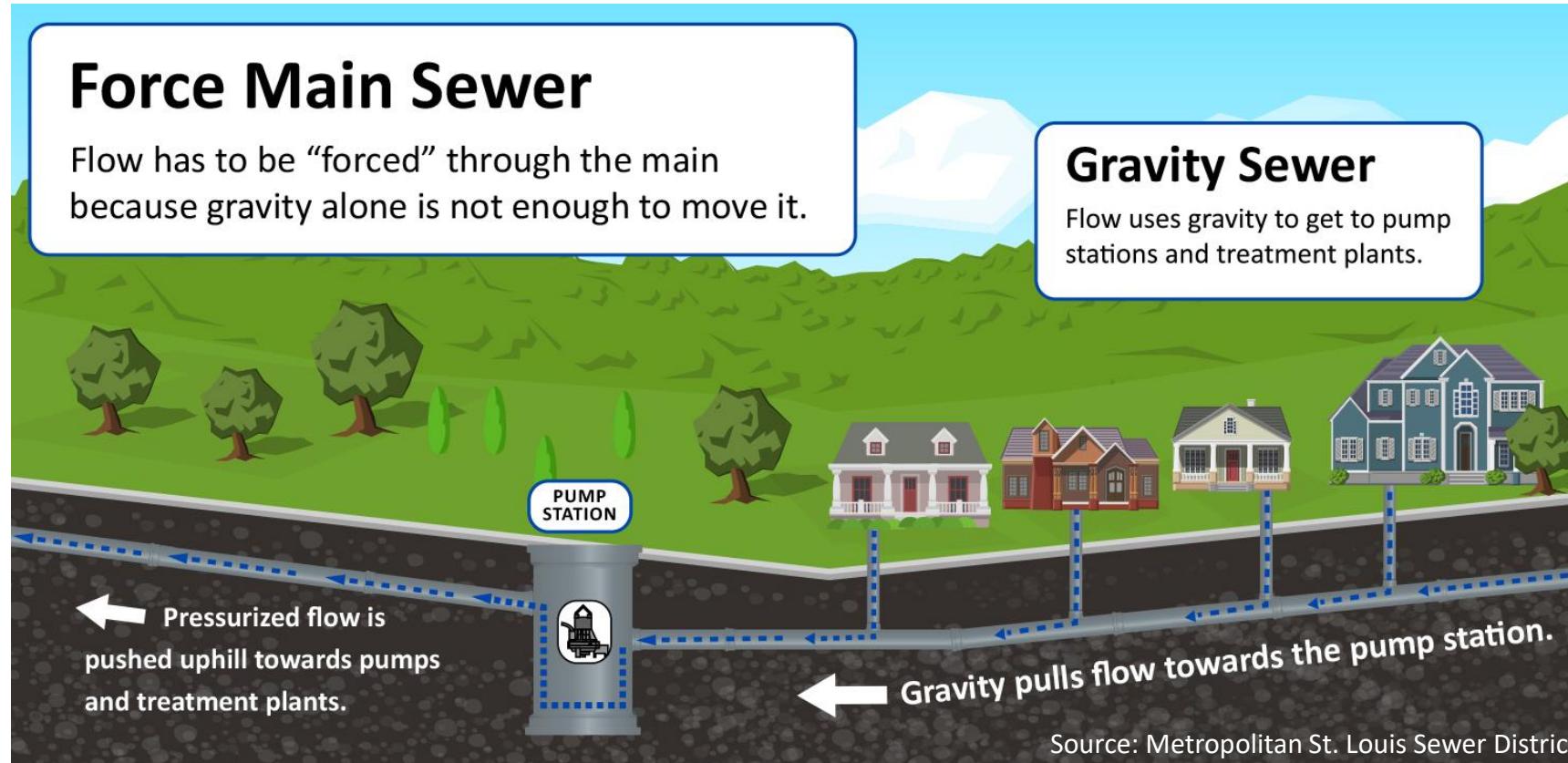
# City of North Miami Water and Sewer Division

- The Water and Sewer Division is part of the city's Public Works Department
- The Water and Sewer Division serves approximately 62,000 city residents



# What is a Force Main?

- A sanitary sewer system is a network of pipes that run underground and collect and transport wastewater from our homes and carry it to treatment plants. There are two main types of sanitary sewer systems: **force main sewers** and **gravity sewers**.



# About Breezeswept



# North District Wastewater Treatment Plant (NDWWTP)

**Breezeswept Service Area covers**  
653 properties  
28,500 LF gravity pipeline  
115 manholes



# Reasons for the Project

- The Breezeswept Pump Station has reached the end of useful service life.
- Upgrades to the force main are needed to support projected growth in the city.
- The poor condition of the pump station and force main is leading to increased maintenance costs.



# PROJECT DESCRIPTION



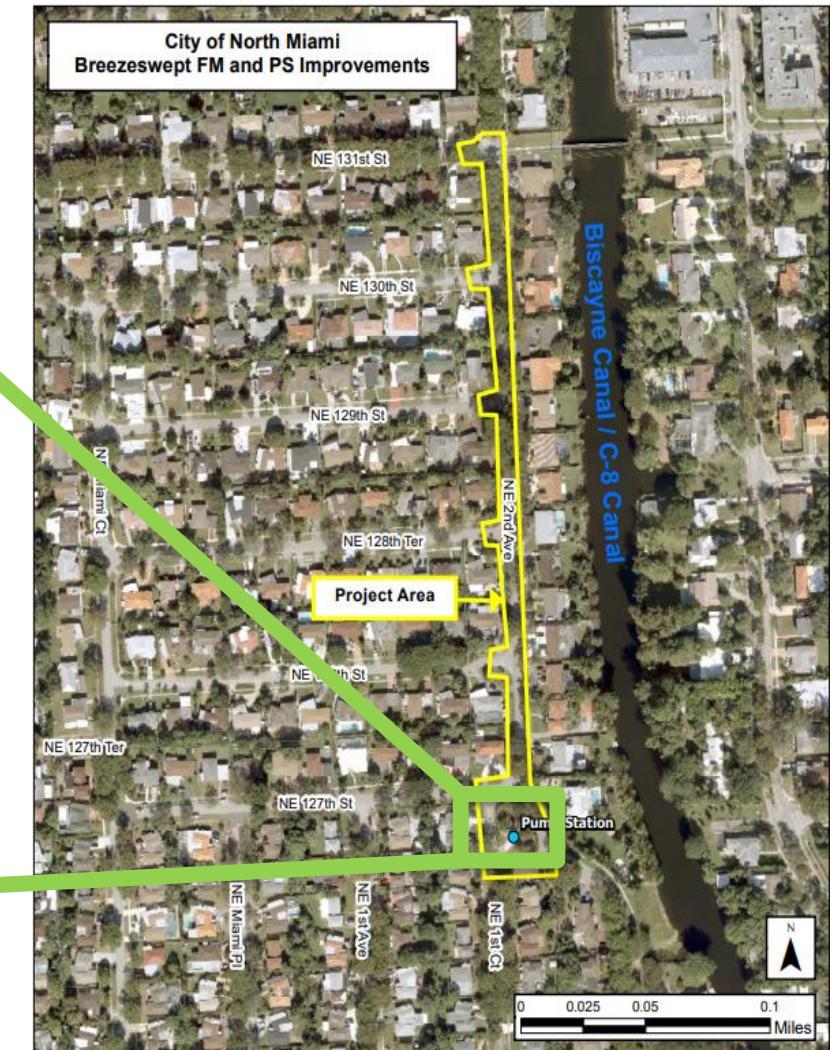
# Project Quick Facts

- Design Start: September 2023
- Design Engineer: 300  
ENGINEERING GROUP, LLC
- Contractor: To Be Determined
- Construction Start: June 2025
- Estimated Completion: March 2026
- Construction cost: \$2,250,000 (30% Design Cost Estimate)

# Breezeswept Force Main & Pump Station



- The project limits are along NE 2nd Avenue from north of NE 131st Street to south of NE 127th Street.



# Proposed Improvements



## DEMOLISH OLD PUMP STATION BUILDING

A new pump station building will be installed to replace the old one.



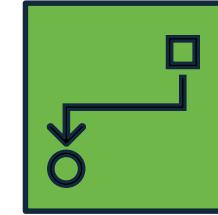
## UPGRADE PUMP STATION COMPONENTS

Replace pumps, motors, valves, piping, electrical/control panel, and instrumentation.



## INSTALL NEW 12-INCH FORCE MAIN

Approximately 1,485 linear feet of new force main will be installed.



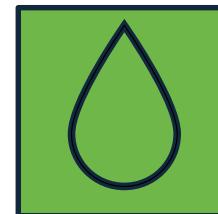
## ABANDON EXISTING 8-INCH FORCE MAIN

Cap and leave the existing force main in place underground.



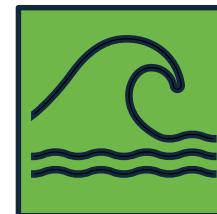
## RESTORE EXISTING DRIVEWAY

Driveway will be restored in its current location



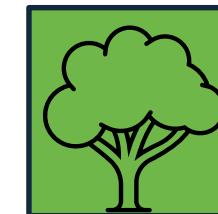
## INSTALL WATER RESISTANT HATCHES

Water-resistant hatches prevent potential water intrusion and damage



## INSTALL ELEVATED CONCRETE SLAB FOR CONTROL PANEL

The elevated control panel will protect the system against flooding and sea level rise.



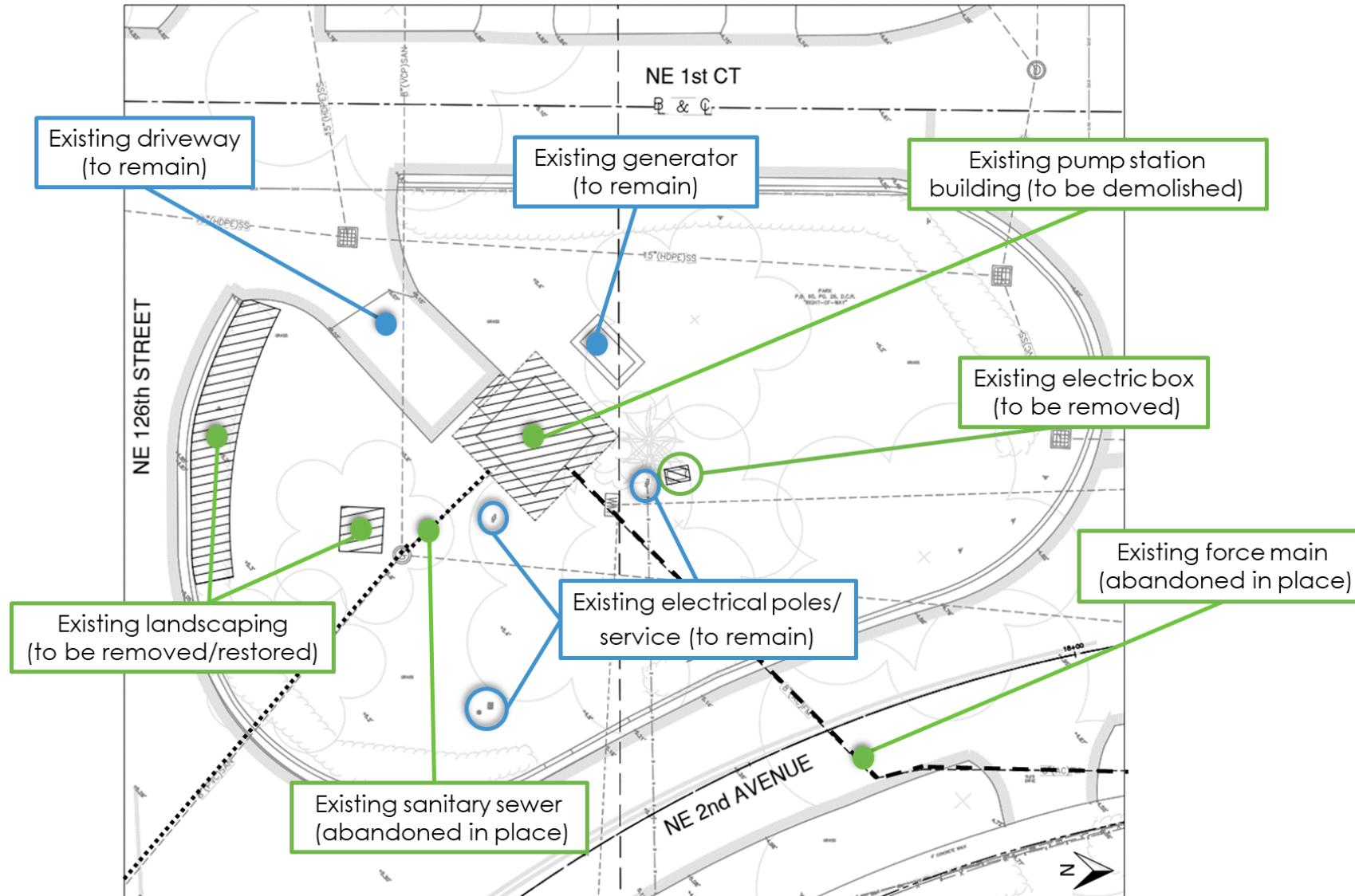
## LANDSCAPING

Upgrade and restore landscaping within the roundabout median

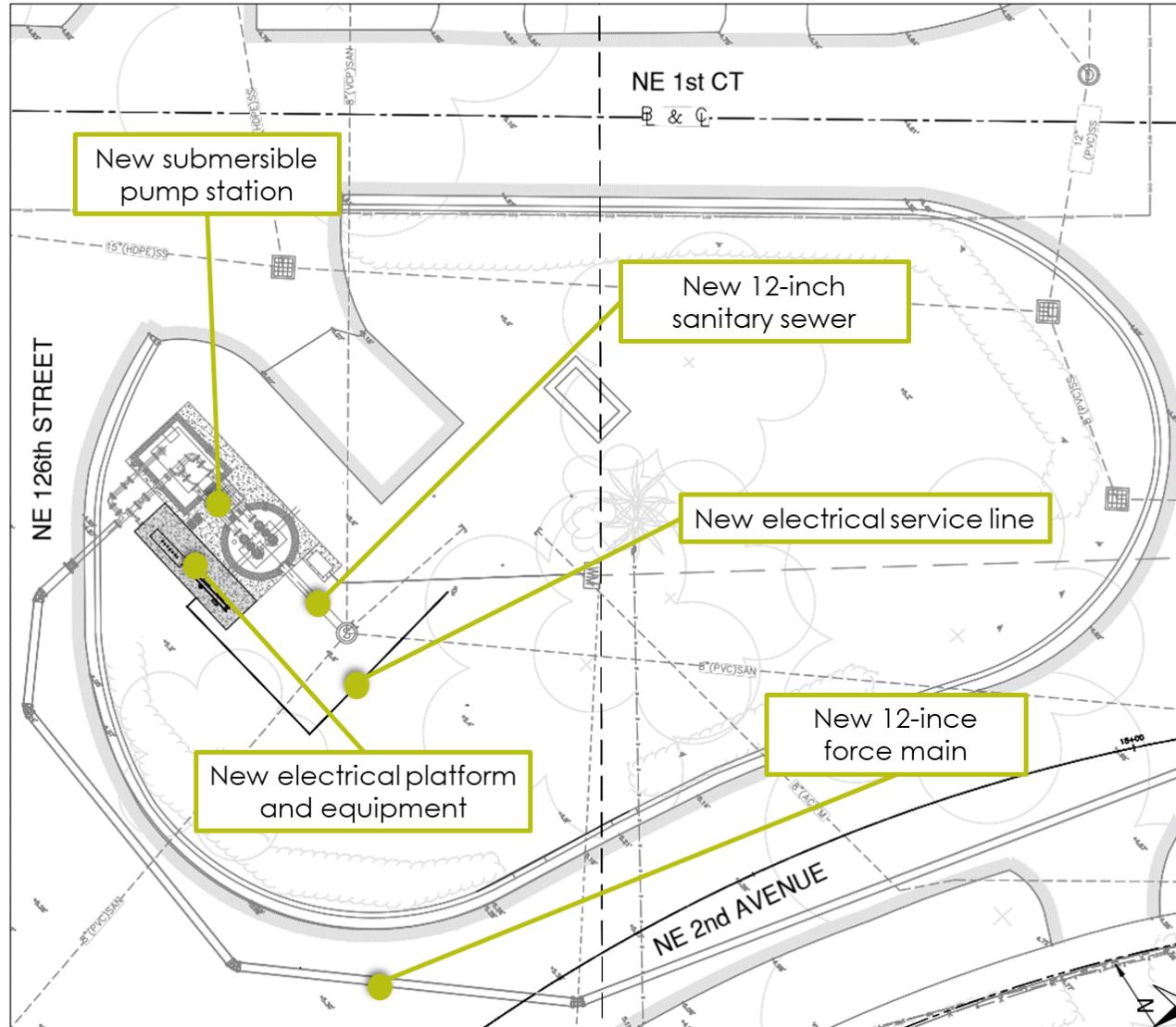
# PRELIMINARY DESIGN PLAN



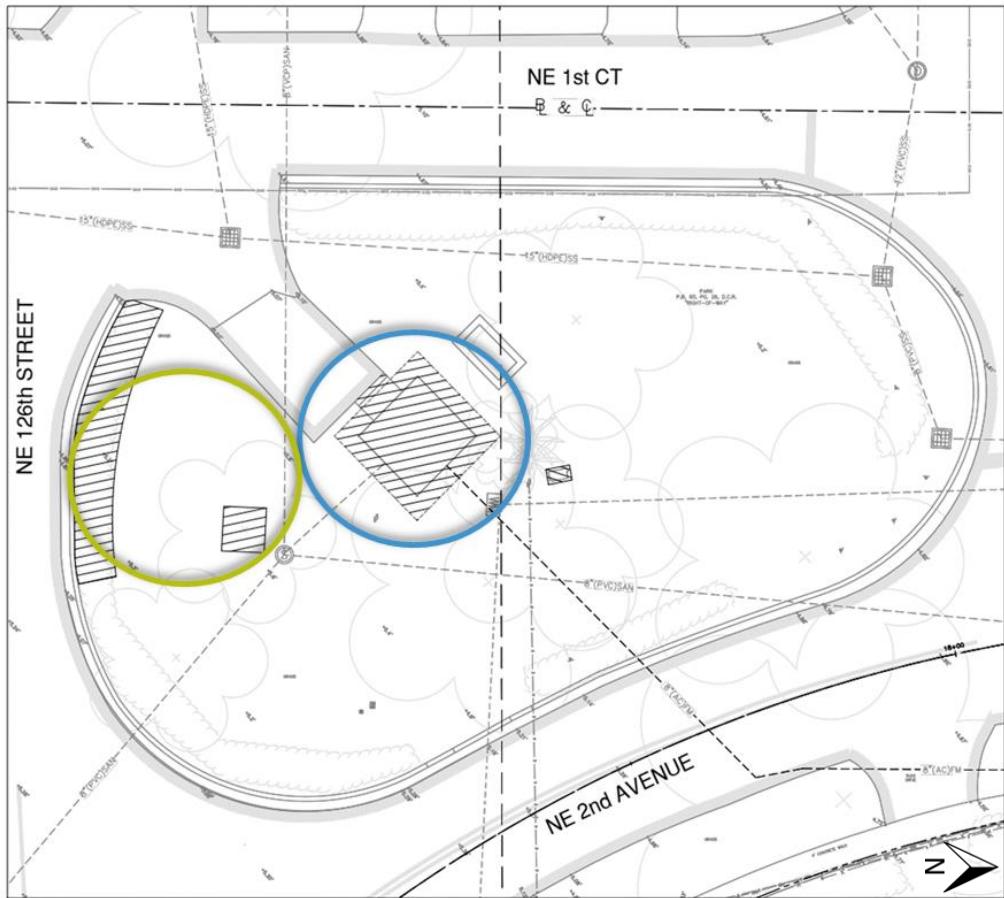
# Existing Pump Station



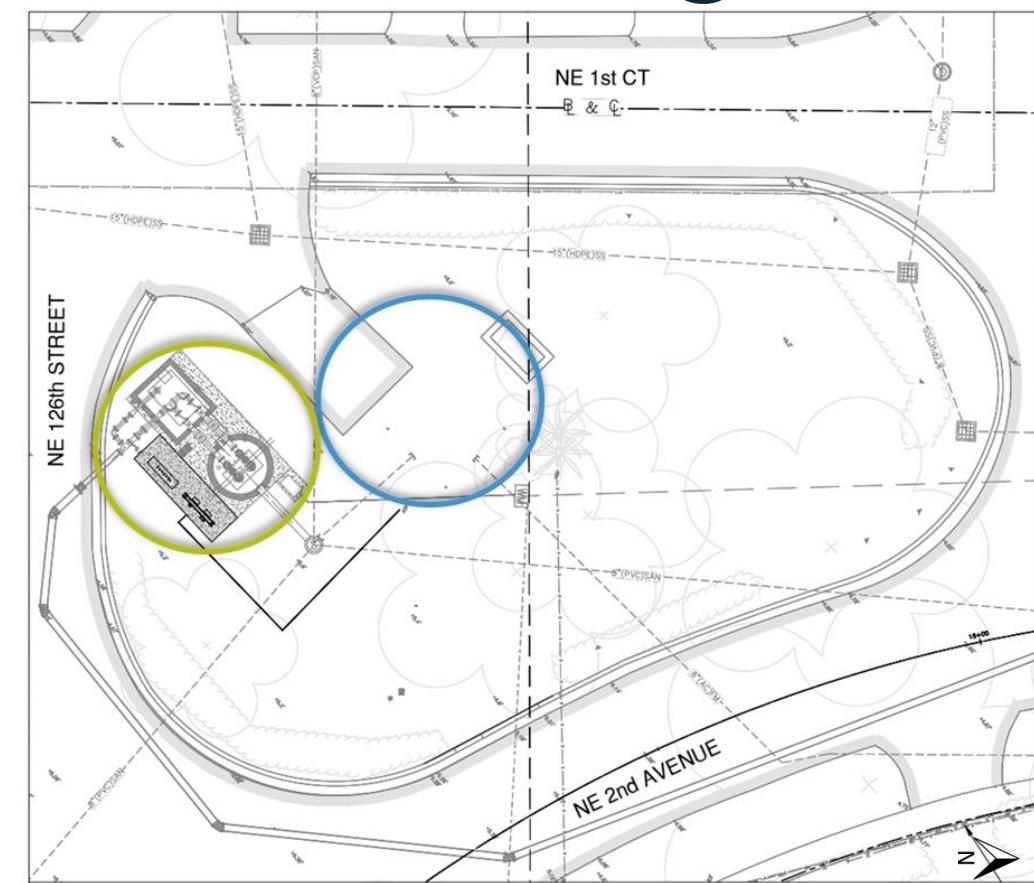
# New Pump Station Design



# Existing Pump Station



# New Pump Station Design



# New Force Main Design

- Existing 8-inch force main (**shown in red**) will be abandoned in place.
- Approximately 1,485 linear feet of new 12-inch force main will be installed (**shown in blue**).
- The new force main will be installed by open cut trenching.



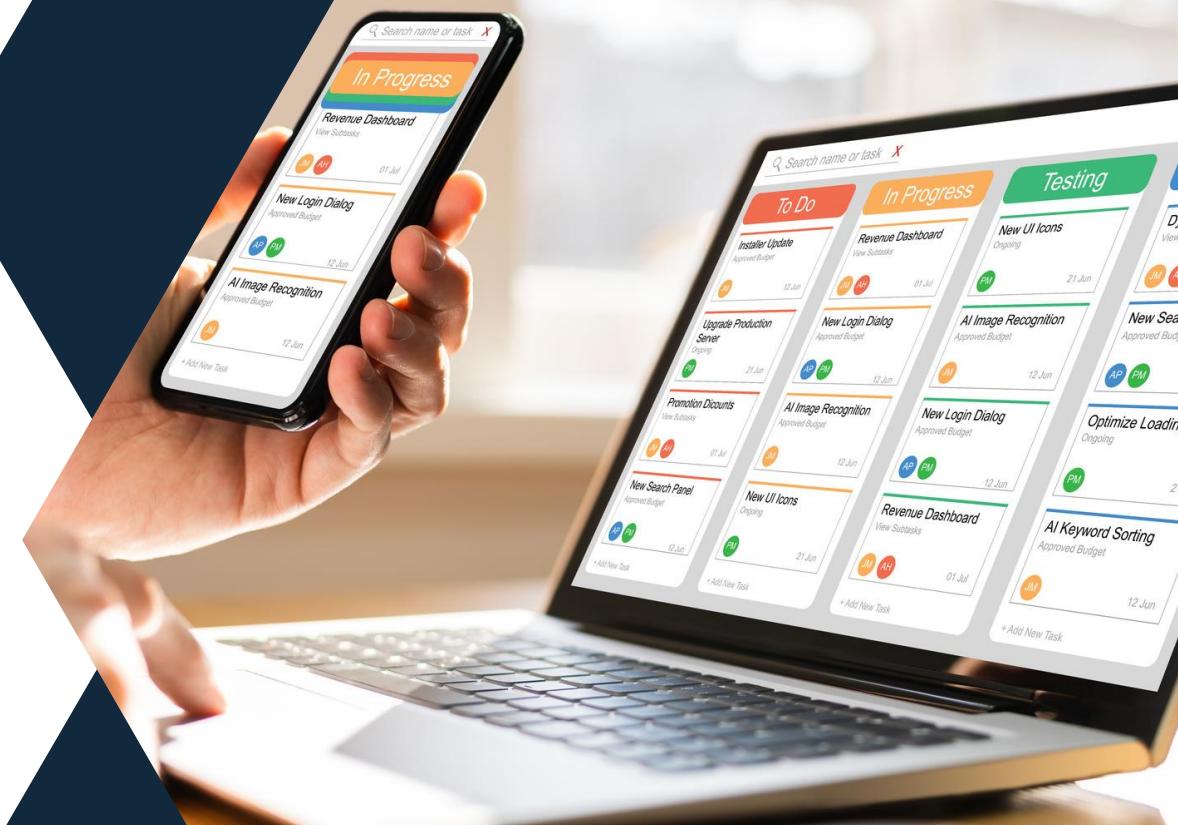
# ANTICIPATED CONSTRUCTION IMPACTS



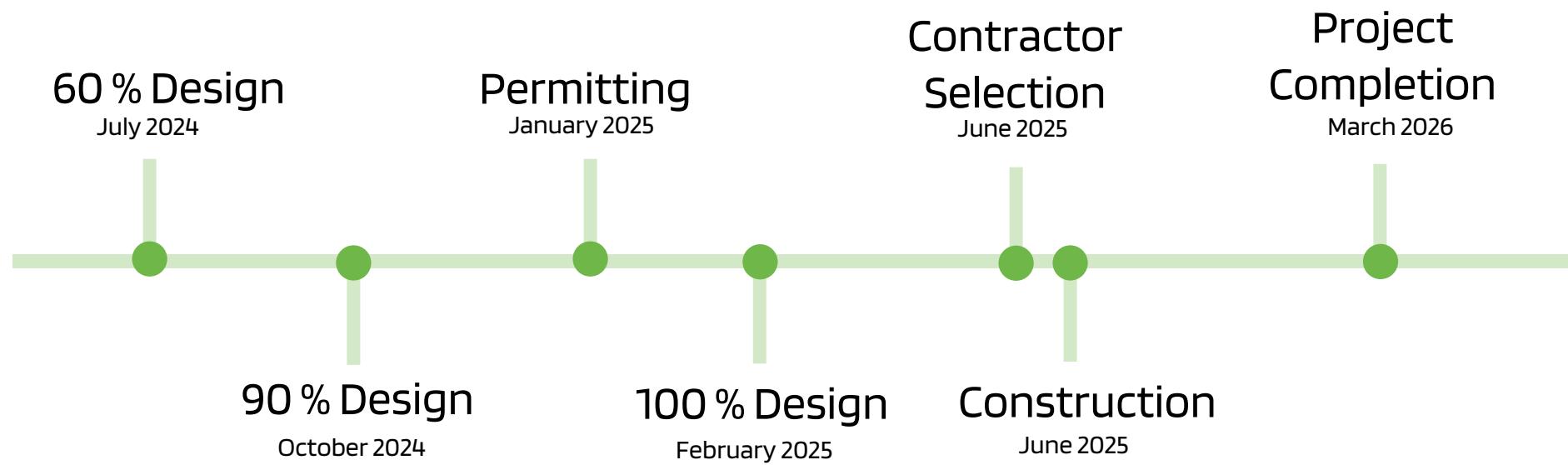
# What to Expect During Construction

- Construction will be contained within the city's right-of-way.
- Open cut trenching involves the use of heavy machinery to excavate trenches in the ground.
- Temporary lane closures and detours will be necessary to facilitate installation of the new force main. The force main installation will be staged, and road restoration will be performed as the stages are completed.
- The contractor will be required to maintain access to homes within the construction area. They will also maintain access for solid waste collection, mail services, and emergency vehicles.
- Noise related to construction activities can be expected. The contractor will be required to comply with the city's noise control ordinances.
- Dust and debris during construction may be observed. The contractor will be required to minimize dust by applying water and replacing the road pavement as soon as practical. They will also remove extraneous construction debris daily.
- Minimal interruption in sanitary sewer services may be expected.

# PROJECT STATUS AND SCHEDULE



# Project Timeline

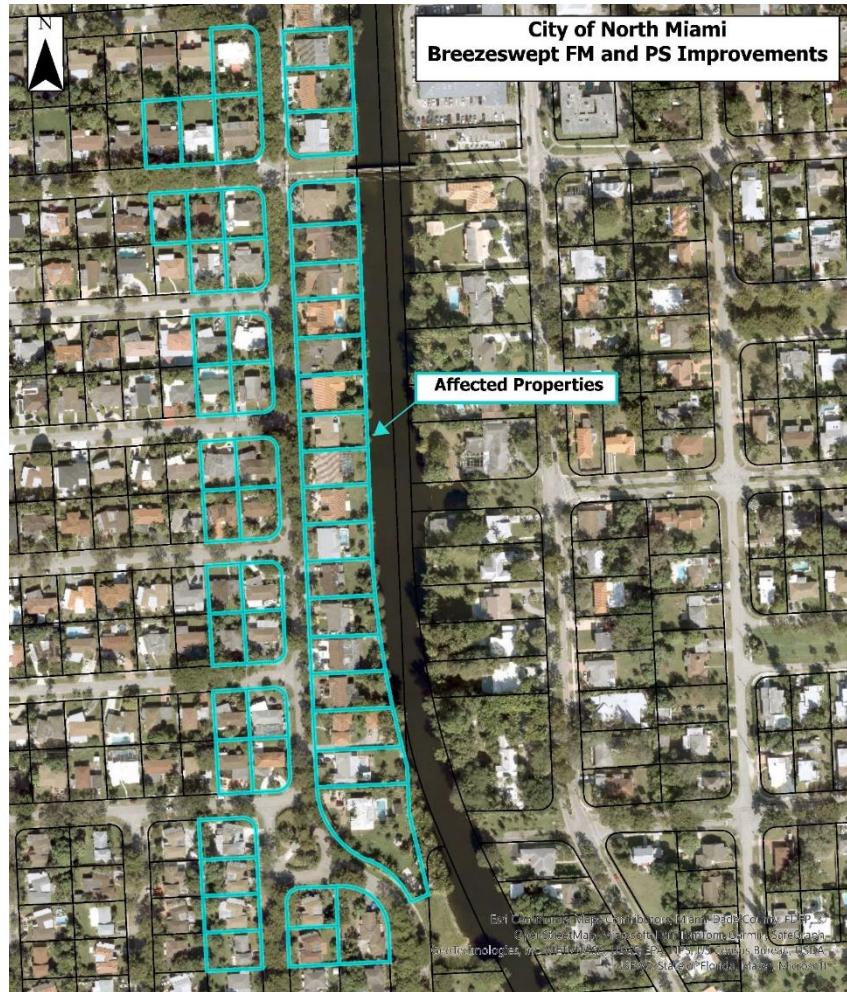


# How to Stay Informed

- Mailers will be sent to property owners within the project area with details related to construction.
- An additional public information meeting will be held at a date closer to construction (date to be determined).
- Visit NorthMiamiFL.gov and follow North Miami on Facebook and Instagram for project updates.



The screenshot shows the North Miami, Florida website. The header features the city logo with a sunburst and the text 'NORTH MIAMI FLORIDA'. Social media links for Flickr, Facebook, X (Twitter), Instagram, and YouTube are present, along with a search bar. The main navigation menu includes 'GOVERNMENT', 'DEPARTMENTS', 'RESIDENT SERVICES', and 'DOING BUSINESS'. A sidebar on the left highlights '135 Street Force Main Replacement' and 'Northwest 12 Avenue Force Main Improvements'. The main content area shows a breadcrumb trail: Home > Government > Capital Improvement Projects > Infrastructure. The 'Infrastructure' section title is displayed, with a subtext: 'Visit the infrastructure project pages in this section to find project-specific details such as:'. The footer contains the city's address: 1000 NE 135th Street, Miami, Florida 33161, and a copyright notice: '© 2023 City of North Miami. All rights reserved. City of North Miami, Breezeswept FM and PS Improvements'.





We welcome your input and questions!

# QUESTIONS?

## Contact

**Yadly St Fort**  
City Project Manager

Submit questions/comments  
through August 1, 2024



 305-893-6511, Ext. 15011

 [ysaintfort@northmiamifl.gov](mailto:ysaintfort@northmiamifl.gov)



## Breezeswept Pump Station Public Information Meeting

THURSDAY, JUNE 27, 2024

**SIGN IN HERE**



PLEASE SCAN QR CODE TO SIGN IN