



# UPPER SNAPFINGER TRUNK SEWER UPSIZING PROJECT

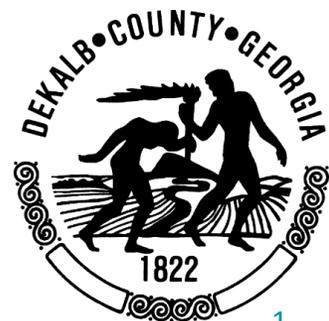
## Public Information Open House

Date: April 22, 2024

*Project Email : [uppersnappingersewer@dekalbcountyga.gov](mailto:uppersnappingersewer@dekalbcountyga.gov)*

*Project Website : [Upper Snappinger Trunk Sewer Upsizing Project](#)*

*DWM Project Hotline : 1-800-986-1108 (M.-F. 8.30 a.m. – 5 p.m.)*



# Upper Snapfinger Trunk Sewer Upsizing Project

## Agenda



### Reasons for Project

- Drivers/Needs
- Problems/Proposed Solutions
- Basis for Upper Snapfinger Trunk Sewer Upsizing Project
- Condition of Existing Trunk Sewers

### Scope Overview

- Upper Snapfinger Trunk Sewer Upsizing Project Scope Background/Overview
- Impact to Private Properties
- Environmental Impact
- Construction Options
- Project Timeline

### Communication Plan

- Virtual Meeting Room/Website
- Method of Communication

# Upper Snapfinger Trunk Sewer Upsizing Project

## Project Background



- DeKalb County - Entered into Modified Consent Decree (MCD) in 2021, Included Specific Projects and Milestones
- Upper Snapfinger Trunk Sewer Upsizing Project - Identified as a Critical Component of MCD
- Completion Milestone Under the Current MCD - December 2027
- Upper Snapfinger Trunk Sewer Upsizing Project - Part of Capital Improvement Program (CIP)
- Sewer Master Plan - Identified Numerous Trunk Sewers that are Required to Carry 2050 Projected Flows

# Upper Snapfinger Trunk Sewer Upsizing Project

## Drivers / Needs



# DRIVERS/ NEEDS

### Mitigate Sanitary Sewer Overflows (SSOs)

- Address Capacity Constraints & Reliability Issues
- Enhance Environmental Resilience & Ensure Long-Term Sustainability

Excessive I/I  
(Inflow/Infiltration)

Aged Infrastructure  
(Installed in 1960s)

Growth - Lack of Capacity

Operational Efficiencies  
(Reverse Slope, Exposed  
Pipe, Stream Bank, etc.)

## Benefits to Our Shared Environment

- ▶ The County understands the connection between a quality sanitary sewer system and a healthy environment.
- ▶ Eliminating sewer spills from the County's rivers and streams is key to improving our aquatic environment
- ▶ The ecological health of our water resources benefits both the environment and our citizens.



# Upper Snapfinger Trunk Sewer Upsizing Project

## Benefits of the Consent Decree



### BENEFITS

#### JOB CREATION

##### Priority Area Rehab and Trunk Sewer Projects will:

- ▶ Create an estimated 1,891 jobs from 2021 through 2026.

#### ALLOW GROWTH AND DEVELOPMENT

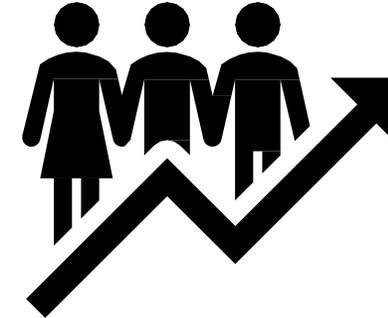
##### New Connections

- ▶ Since 2017, there have been 1,551 requests to connect to the sewer system
- ▶ 379 are pending approval
- ▶ These represent delays to new commercial developments.

#### PLANNED GROWTH

##### By 2050:

- ▶ Population served to be an estimated 900,000
- ▶ Employment in the County's service area to be approximately 640,000.

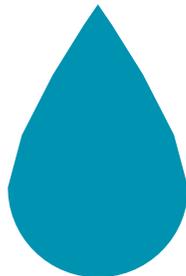


### SUPPORTING GROWTH & DEVELOPMENT

*Sewer connections allow new residents and increased employment*

YEAR	SERVICE AREA POPULATION <sup>(1)</sup>	SERVICE AREA EMPLOYMENT <sup>(1)</sup>
2020	695,282	514,037
2030	755,525	561,264
2040	832,390	585,634
2050	904,379	637,893
2060	972,697	718,974
2070	1,041,015	773,028

(1) Source: DeKalb County Sewer Master Plan (2020)

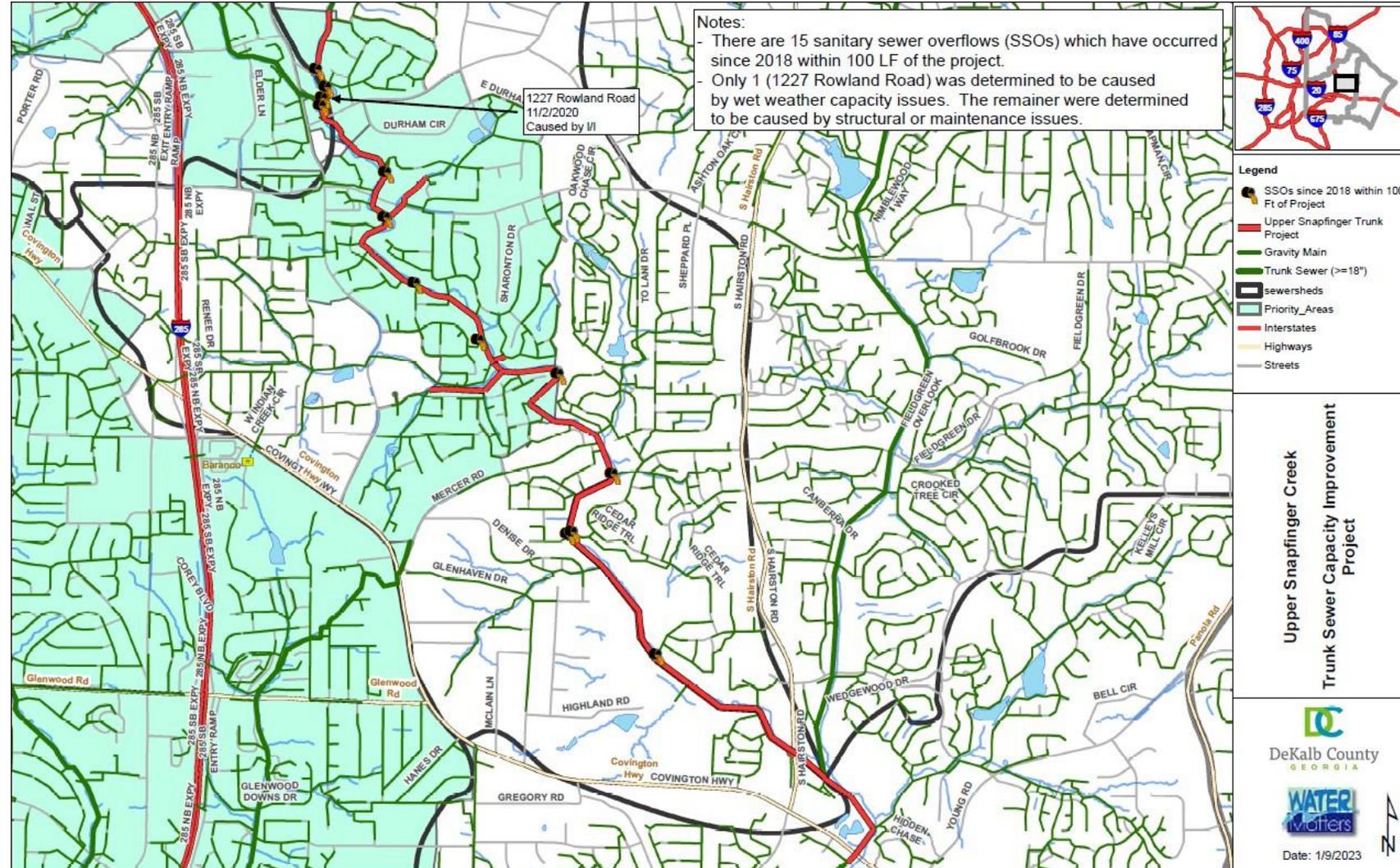


# Upper Snapfinger Trunk Sewer Upsizing Project

## History of Capacity Related Sanitary Sewer Overflows (SSOs)

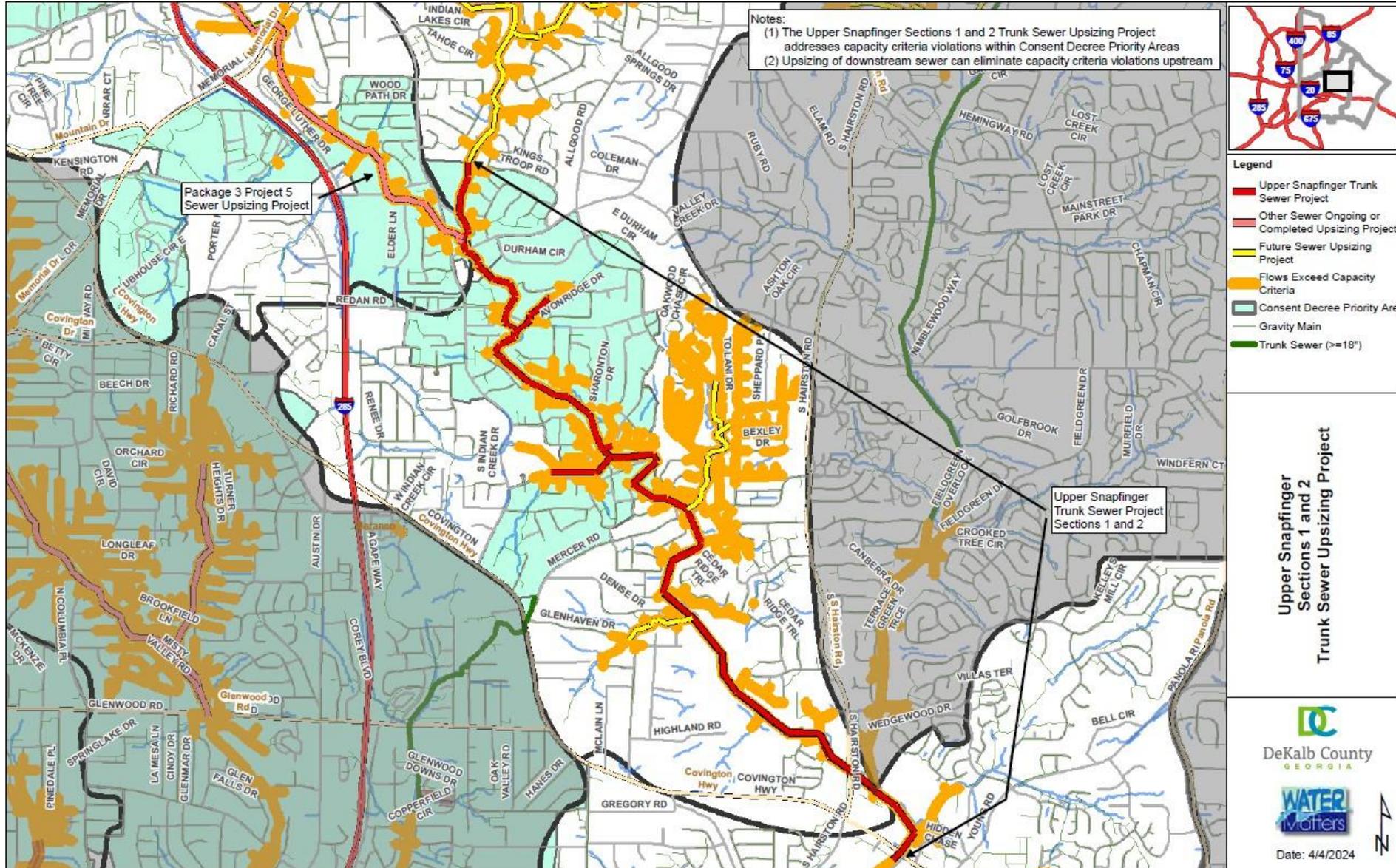


- There were 16 sanitary sewer overflows (SSOs) which occurred between 2018 and 2023 within 100 LF of the project
- Only 1 (1227 Rowland Road) was determined to be caused by wet weather capacity issues
- The remainder were determined to be caused by structural or maintenance issues



# Upper Snapfinger Trunk Sewer Upsizing Project

## Map of Capacity Exceedance Criteria



# Upper Snapfinger Trunk Sewer Upsizing Project

## Basis for Project



### Issues:

- **Existing Sewers** – Poor Conditions – Some Pipes with Reverse/Flat Slope, Aerial Creek Crossings, Located in Streambank / Wetlands
- **Sanitary Sewer Overflows** – There is a history of capacity related SSOs
- **Hydraulic Analysis** – Existing Piping is Not Adequate to Address Capacity Related SSOs in Upper Snapfinger basin without Replacing/Upsizing Piping

### Proposed Solution:

- **Upsizing of Piping** – Installation of New Manholes and Larger Piping
- **Removing** Existing Pipe Segments
- **Abandoning** Some Existing Pipe Segments and Manholes

### Benefits:

- **Reduce I/I, Increase System Capacity** for the next 50-75 Years
- **Delaying** will Result in Continued Spills of Similar or Greater Magnitudes

# Upper Snapfinger Trunk Sewer Upsizing Project

## Existing Conditions



Aerial Crossings



Wetlands



Vegetation Around Manhole

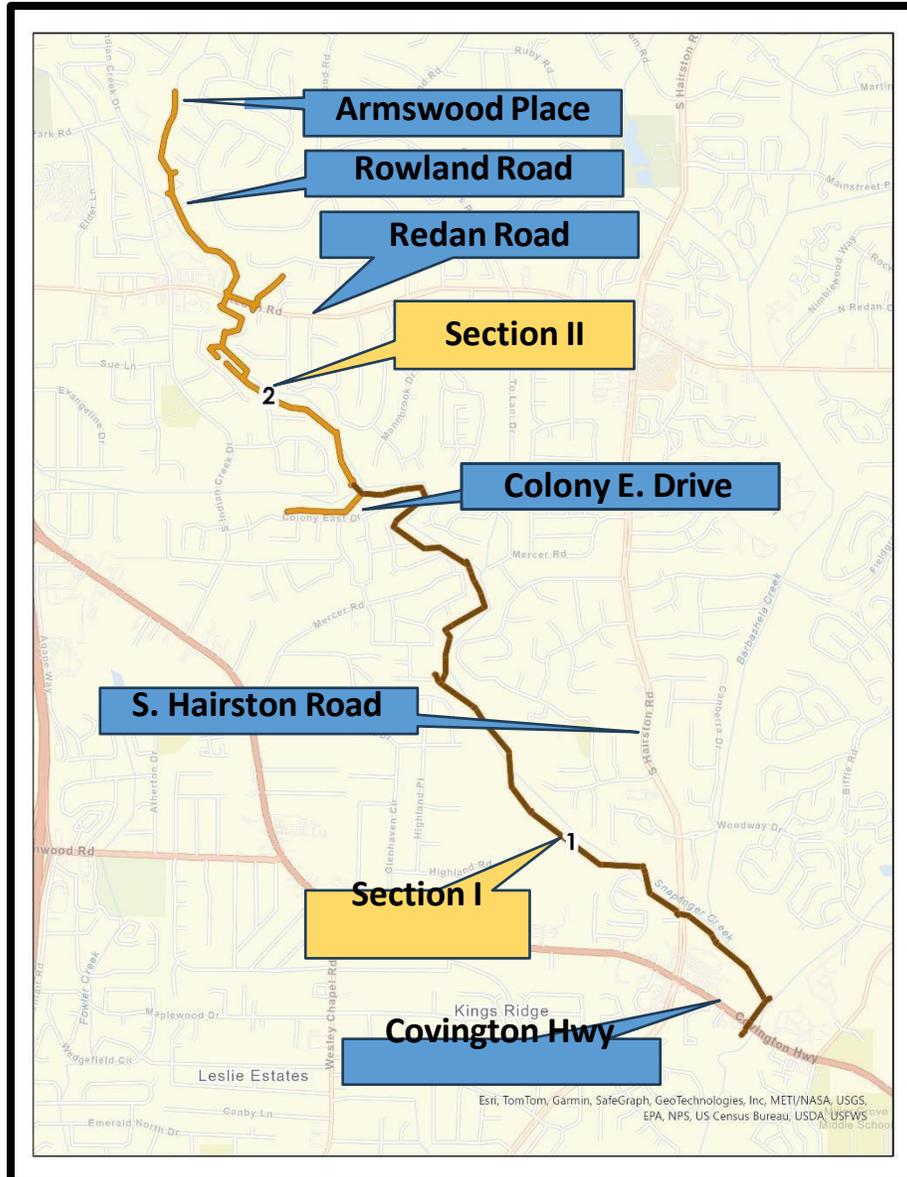


Severe Streambank Erosion



# Upper Snapfinger Trunk Sewer Upsizing Project

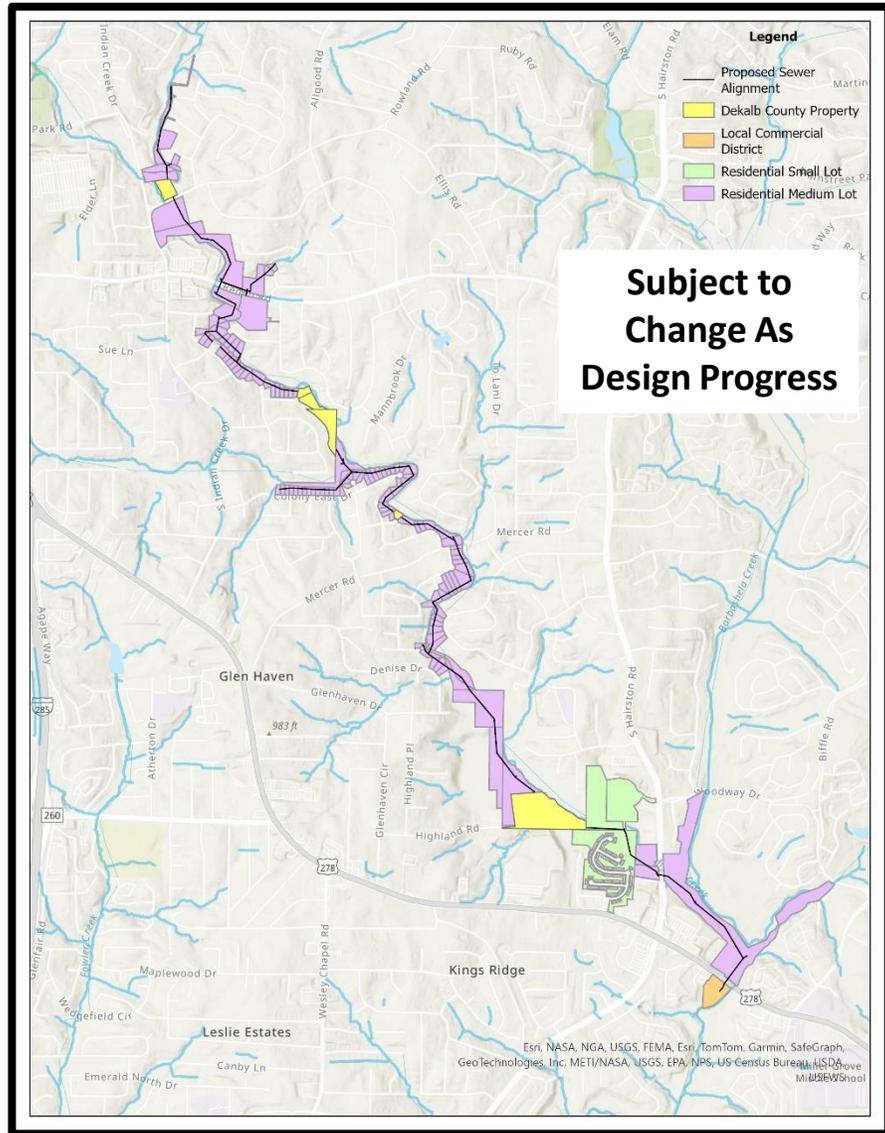
## Scope Overview



- Total of approximately **29,160 LF (~5.52 miles)**
- Design Engineer:
  - Section I : **Stantec**
  - Section II: **Prime Engineering**
- Existing size: **8” - 48”**, Proposed Size: **8” - 60”**
- Consist of 2 Sections:
  - **Section I:** Covington Hwy to Colony E. Drive
  - **Section II:** Colony E. Drive to Armswood Place
- Road crossings underneath Covington Hwy, S. Hairston Rd, Redan Rd, and Rowland Rd
- Commissioner districts **4** and **5**, and super districts **6** and **7**

# Upper Snapfinger Trunk Sewer Upsizing Project

## Impact on Private Properties



Sections	No. of Parcels*	Existing Easement (10-20 LF)**	DeKalb County Properties***	Jurisdiction
<b>Section 1</b>	70	47	2	Unincorporated DeKalb
<b>Section 2</b>	71	65	4	Unincorporated DeKalb
<b>TOTAL</b>	<b>141</b>	<b>112</b>		

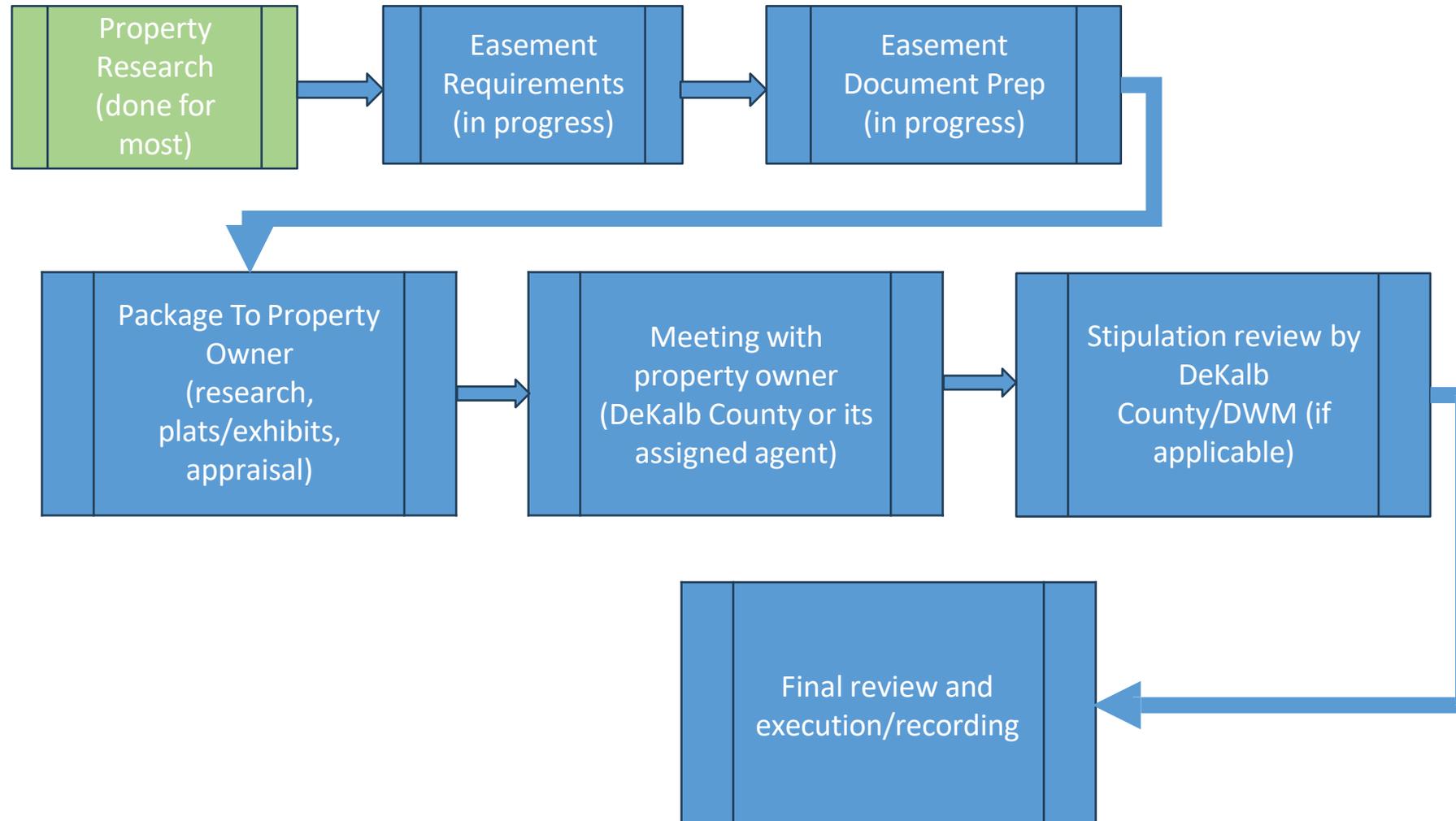
\*Approximate No. of Parcels at 90% Design Stage

\*\*Record of Existing Easement Need Confirmation from Easement Research at Courthouse

\*\*\*Easement Plats and Legals are Required for Board of Education Properties Only

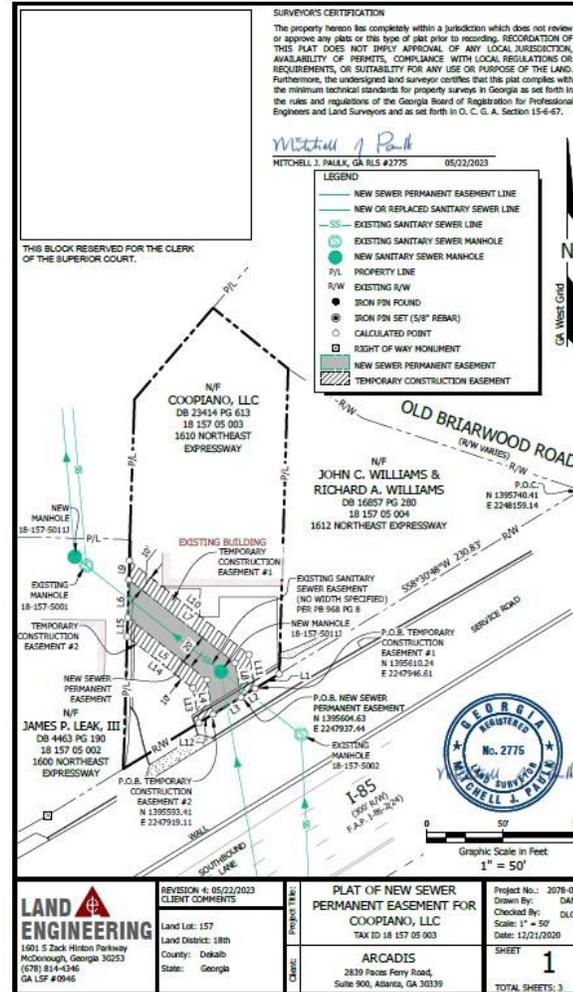
# Upper Snapfinger Trunk Sewer Upsizing Project

## Easement Negotiation Process Workflow



# Upper Snapfinger Trunk Sewer Upsizing Project

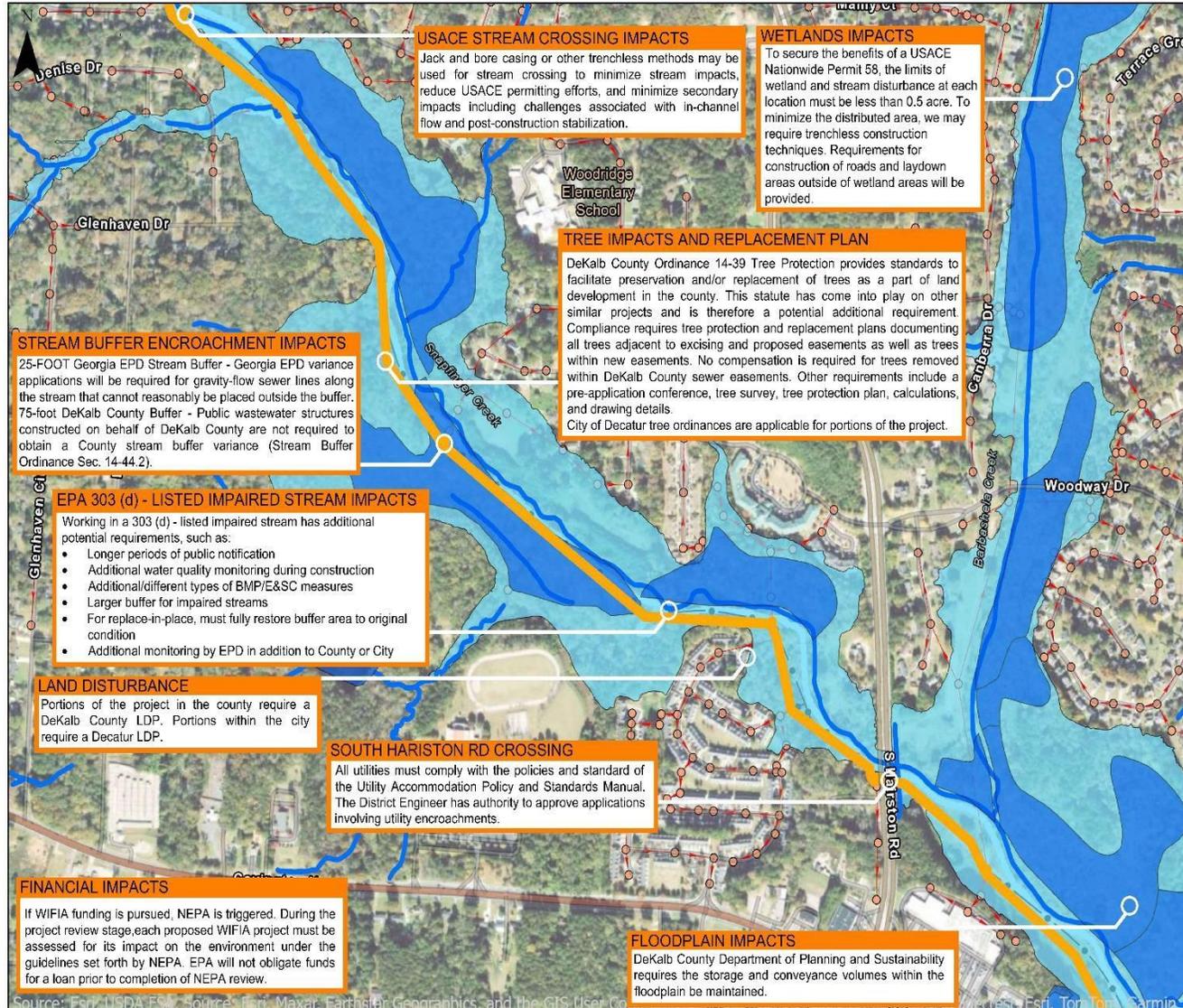
## Example of Easement Plat



Example of Easement Plat

# Upper Snapfinger Trunk Sewer Upsizing Project

## Environmental Impact



### List of Permits

- US Army Corps of Engineers (USACE)
- EPD Stream Buffer Variance
- GDOT
- DeKalb Land Disturbance Permit (LDP)
- City of Decatur LDP
- City of Avondale LDP

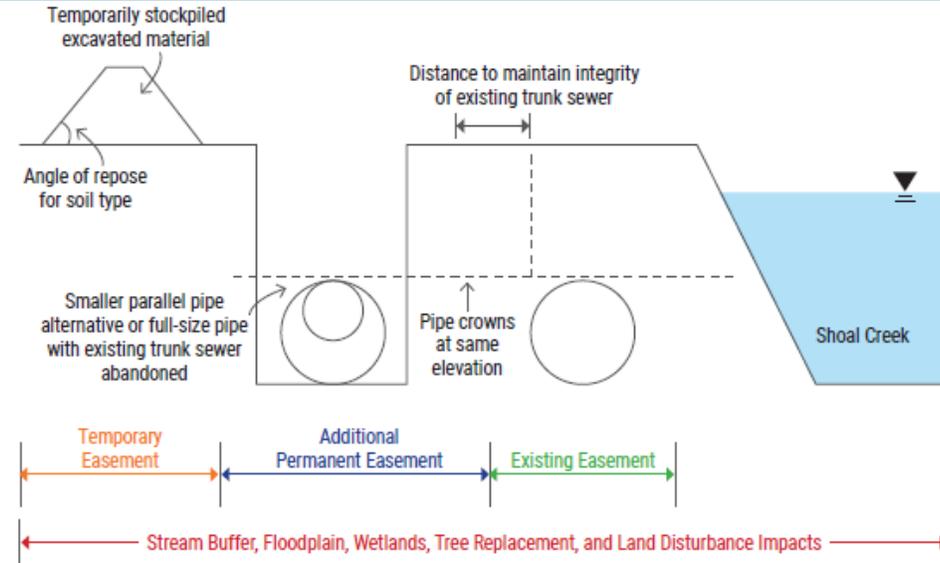
# Upper Snapfinger Trunk Sewer Upsizing Project

## Replacement Options

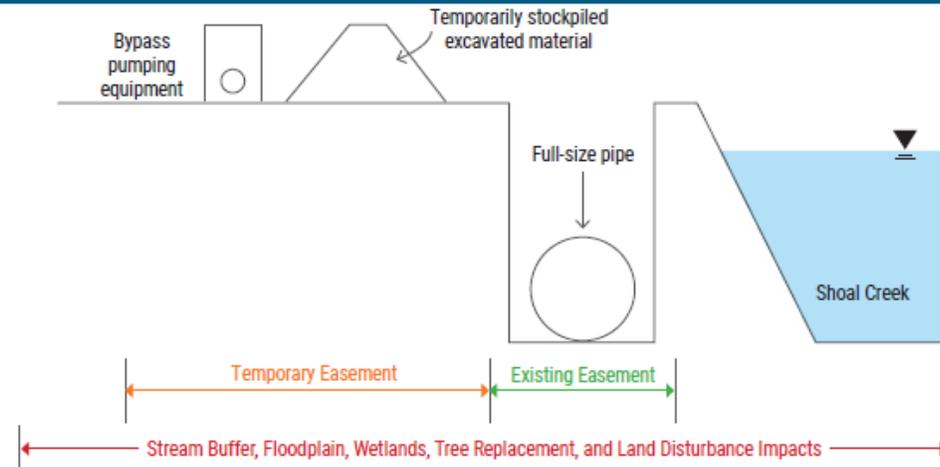


- Replace Pipe in Same Trench
- Parallel Relief Sewer (partial flow)
- Relief Sewer (full flow)/Abandon Existing Sewer
- Future Rehabilitation of Existing Pipe

### PARALLEL PIPE INSTALLATION (not to scale)

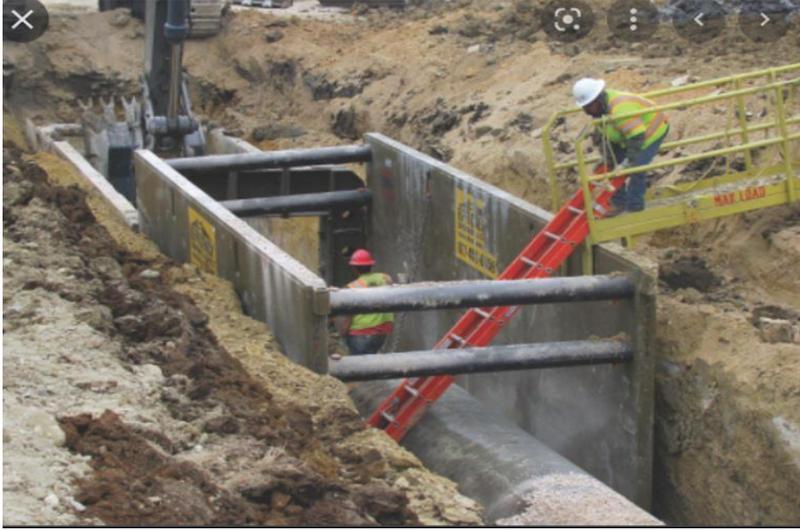


### REPLACE IN-PLACE (not to scale)



# Upper Snapfinger Trunk Sewer Upsizing Project

## Method of Construction



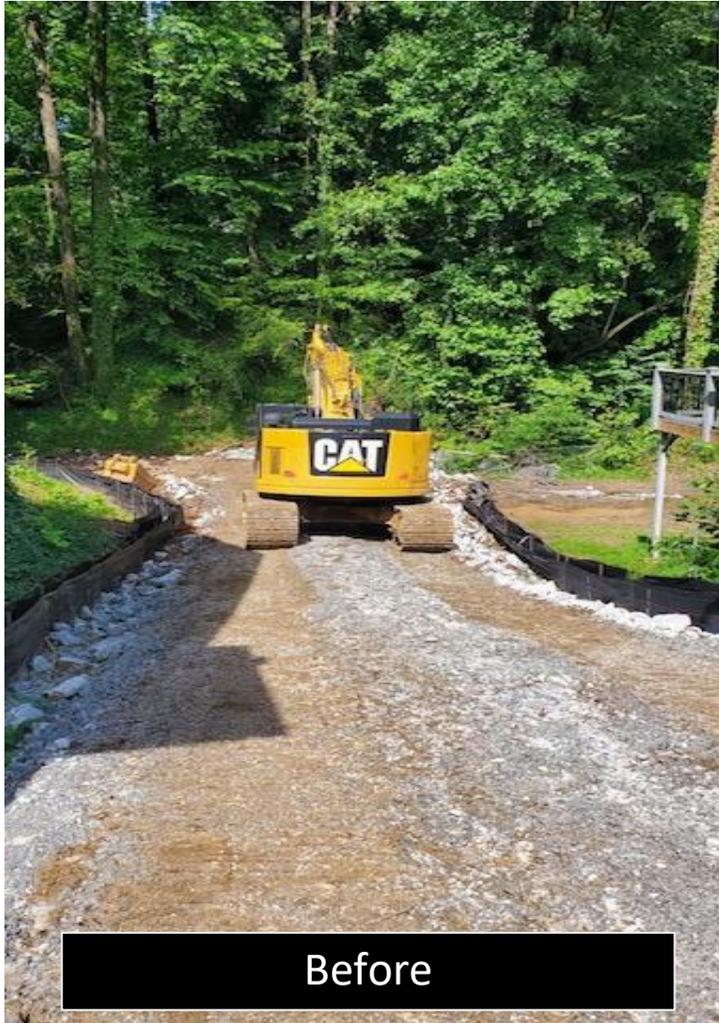
**Open Trench Excavation –  
Majority of Upper  
Snapfinger Trunk Sewer  
Project**



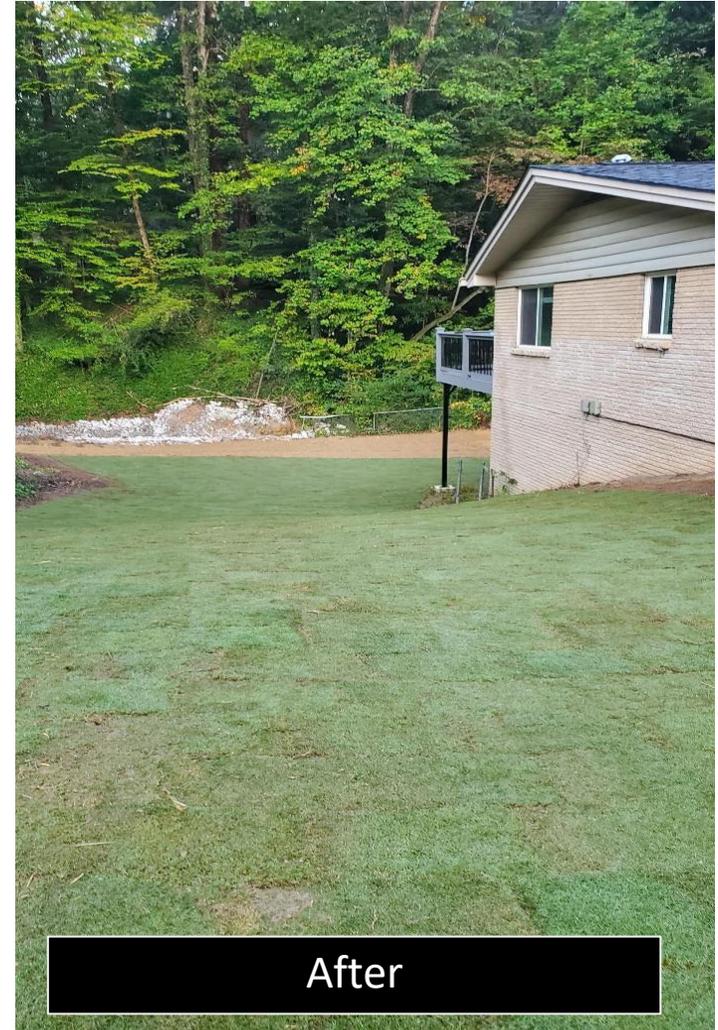
**Jack and Bore and Micro  
Tunneling Under Major  
Highway/Interstate/GDOT  
Crossing**

# Upper Snapfinger Trunk Sewer Upsizing Project

## Site Restoration



Restore In Kind



# Upper Snapfinger Trunk Sewer Upsizing Project

## Project Timeline



### Design Phase

### Bid Phase

### Construction Phase

### Post Construction Phase

- **NTP: 03/14/2023**
- **Field Investigations, Basis of Design Report and 30% Design:**
  - Start: April 2023
  - End: October 2023
- **60% Design:**
  - Start: October 2023
  - End: January 2024
- **90% Design:**
  - Start: January 2024
  - End: March 2024
- **100% Design:**
  - Start: April 2024
  - End: May 2024
- **Easement Acquisition**
- **Permitting**
- **Total Duration: Up to 24 months**

- **Bid Phase: Late 2024**
- **Bid Duration: Up to 12 months**

- **Construction Start: 2032**
- **Duration: Approx. 3 years**

- **Warranty Period**
  - 12 months

*\*Estimate Schedule*

# Upper Snapfinger Trunk Sewer Upsizing Project

## Website and Virtual Meeting Room



- Interactive Web Access for Project Information
- Resides on DWM Website
- Downloadable Documents

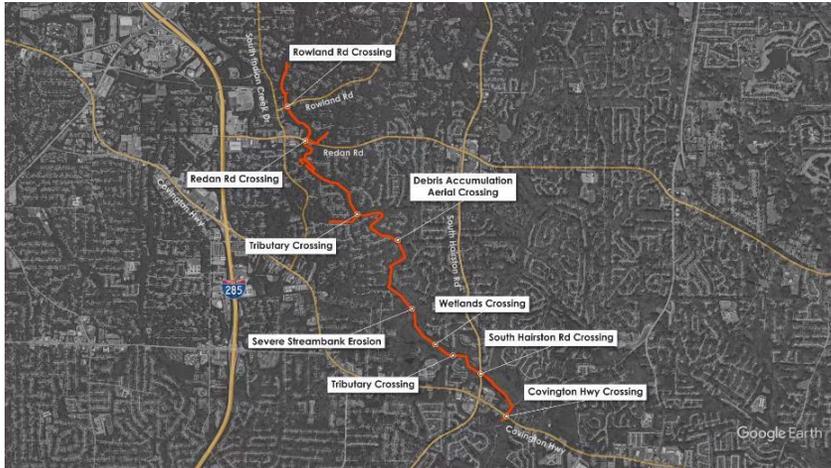


Link to Virtual Room: [Virtual Meeting Room](#)

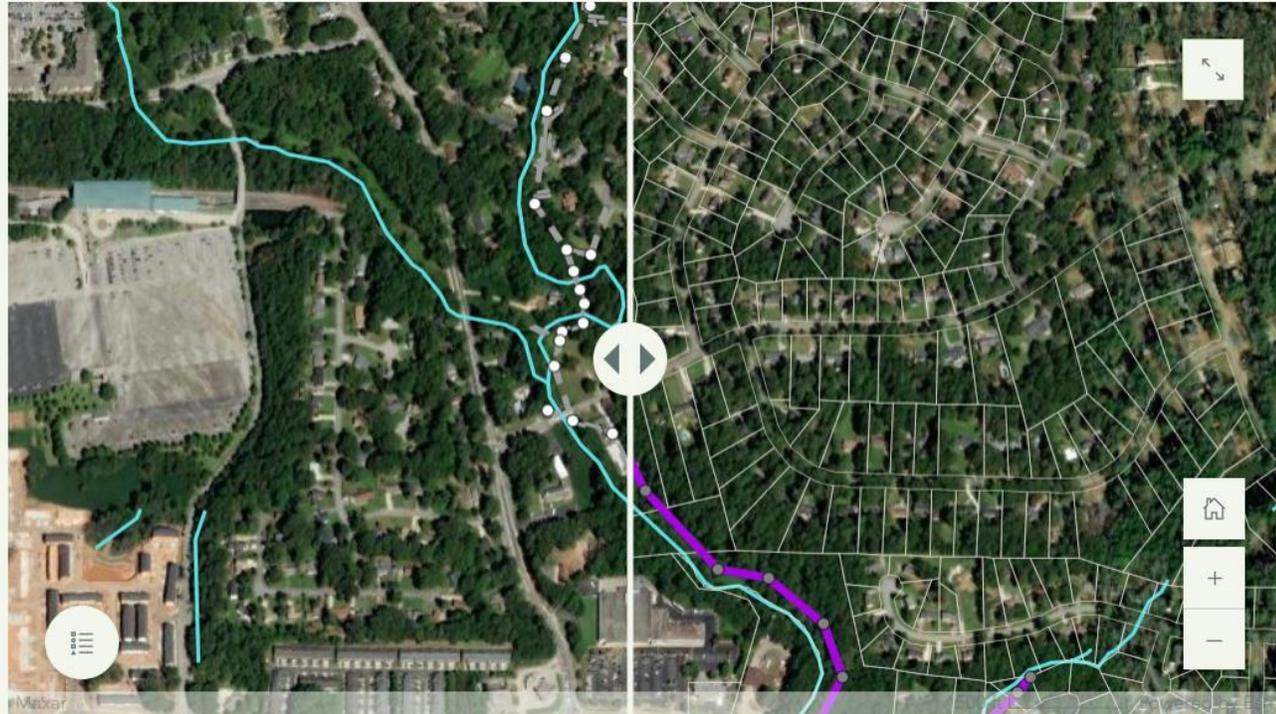
# Upper Snapfinger Trunk Sewer Upsizing Project Visualization Capabilities (Available on Website)



## Flyover Video



## Slider Tool – Existing vs. Proposed



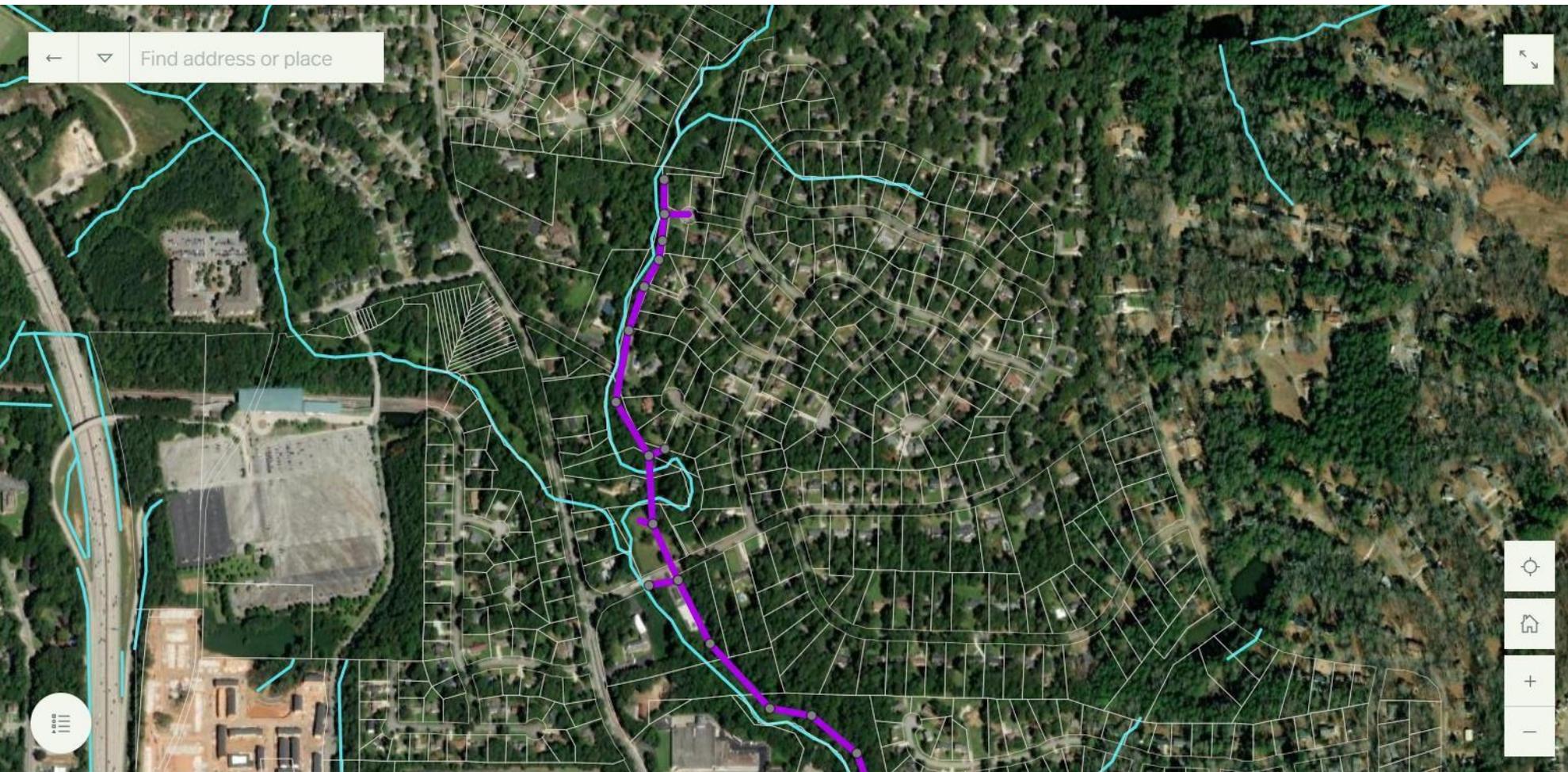
Slide map from existing alignment to the proposed alignment

# Upper Snapfinger Trunk Sewer Upsizing Project

## Address Lookup (Available on Website)



### Address Lookup Tool



# Upper Snapfinger Trunk Sewer Upsizing Project

## Method of Communication



### NEXTDOOR

STONE MOUNTAIN GA

As part of DeKalb County's \$2.4 billion capital improvement program, the Department of Watershed Management (DWM) will be improving the capacity and service of the Watershed systems serving your community. The **Upper Snapfinger Trunk Sewer Upsizing Improvement Project** is being designed to improve the watershed system in your community.

Please join the department to learn more about the **Upper Snapfinger Trunk Sewer Upsizing Improvement Project**, interact with the project team and provide feedback.

The county confirms and will host **one (1) Public Information Open House (PIOH)** events about this project. Both events will present the same information.

**Meeting Dates & Time:**

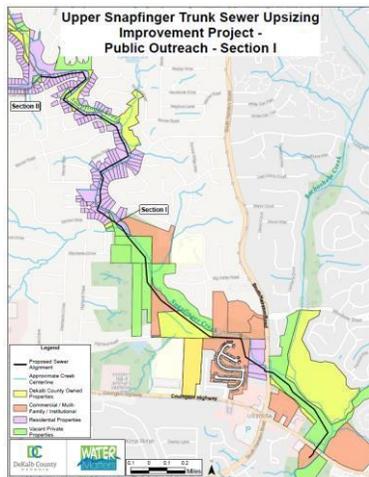
**Tuesday, April 22, 2024**  
**East Central DeKalb Community and Senior Center - Room 108**  
**4885 Elam Road**  
**Stone Mountain, GA 30083**

The **Upper Snapfinger Trunk Sewer Upsizing Improvement Project** will address repeat sanitary sewer overflow areas and help meet future sewer demands for the next 50 years.

**Construction is expected to begin in 2026 and last approximately three years (2026 to 2029), barring any unforeseen circumstances and weather delays.**

**Stantec Consulting Services, Inc.**, working on behalf of DeKalb County, is the engineering and design company for the **Upper Snapfinger Trunk Sewer Upsizing Improvement Project**. Should you have any questions or concerns about this project, please contact the DWM Project Information line at 1-800-986-1108 or email [uppersnapfingersewer@dekalbcountyga.gov](mailto:uppersnapfingersewer@dekalbcountyga.gov).

DWM looks forward to your attendance and appreciates your support as we work diligently to improve DeKalb County's watershed system.



### DOOR HANGERS/FLYERS



April 8, 2024

**Subject: Upper Snapfinger Trunk Sewer Upsizing Improvement Project - Public Information Open House Event**

Dear Resident/Homeowner,

As part of DeKalb County's \$2.4 billion capital improvement program, the Department of Watershed Management (DWM) will be improving the capacity and service of the Watershed systems serving your community. The **Upper Snapfinger Trunk Sewer Upsizing Improvement Project** is being designed to improve the watershed system in your community.

This letter serves as a formal invitation to learn more about the **Upper Snapfinger Trunk Sewer Upsizing Improvement Project**, interact with the project team and provide feedback.

The county will host **one (1) Public Information Open House (PIOH)** event about this project.

**Meeting Date & Time:**

**Monday, April 22, 2024**  
**4:30 - 6:30 p.m.**  
**East Central DeKalb Community and Senior Center - Room 108**  
**4885 Elam Road**  
**Stone Mountain, GA 30083**

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**The construction is expected to begin in 2026 and last approximately three years.**

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We look forward to your attendance and appreciate your support as we work diligently to improve DeKalb County's watershed system.

770.621.7200 (o)  
 770.621.7371 (c)  
 DeKalbCountyga.gov

Watershed Management  
 1550 Roadways Drive  
 Stone Mountain, GA 30083

**David E. Hayes, Director**

Chief Executive Officer  
 Michael Thurmond

Board of Commissioners  
 District 1  
 Robert Patrick

District 2  
 Michelle Long Spears

District 3  
 Larry Johnson

District 4  
 Stephen Bradshaw

District 5  
 Mereda Davis Johnson

District 6  
 Edward "Ted" Terry

District 7  
 Lorraine Cochran-Johnson

### MEDIA RELEASE



**MEDIA CONTACTS:**

- Andrew Cauthen, Chief Communications Officer, [acauthen@dekalbcountyga.gov](mailto:acauthen@dekalbcountyga.gov), 470-553-4408 (c)
- Alicia Pennie, Public Relations Manager, [alpennie@dekalbcountyga.gov](mailto:alpennie@dekalbcountyga.gov), 678-858-9488 (c)

**FOR IMMEDIATE RELEASE**

April 17, 2024

#### Public Information Open House Event for Upper Snapfinger Trunk Sewer Project On April 22

**STONE MOUNTAIN, Ga.**— Efforts to improve the watershed system throughout DeKalb County continues with the design of Upper Snapfinger Trunk Sewer.

The county will host a **Public Information Open House (PIOH)** event about this project.

**Meeting Date & Time:**

**Tuesday, April 22**  
**4:30 - 6:30 p.m.**  
**East Central DeKalb Community and Senior Center - Room 108**  
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For more information about the **Upper Snapfinger Trunk Sewer Upsizing Improvement Project** and its **upcoming open house event**, contact the DWM Project Information Line at 1-800-986-1108 or email [uppersnapfingersewer@dekalbcountyga.gov](mailto:uppersnapfingersewer@dekalbcountyga.gov).

- Notification Letter/Doorhanger
- News Release
- Website
- Next Door – to targeted stakeholders
- Media Relations
- Social Media
- Project Fact Sheet (English and Spanish version)
- Frequently Asked Questions, FAQ (English and Spanish version)

# Questions

