



UPPER SNAPFINGER TRUNK SEWER UPSIZING PROJECT

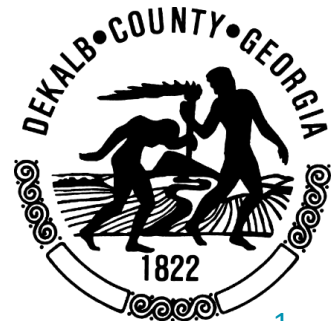
Public Information Open House

Date: April 22, 2024

Project Email : uppersnappingersewer@dekalbcountyga.gov

Project Website : [Upper Snappfinger 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.)

Upper Snapfinger Trunk Sewer Upsizing Project

Benefits of the Consent Decree



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

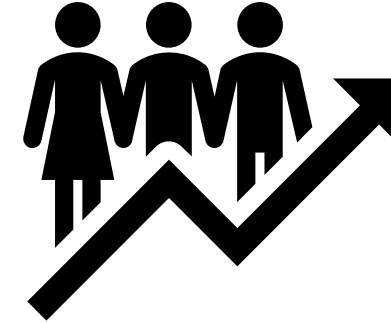
New Connections

- 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.

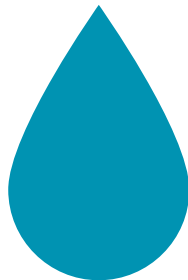


SUPPORTING GROWTH & DEVELOPMENT

Sewer connections allow new residents and increased employment

YEAR	SERVICE AREA POPULATION ⁽¹⁾	SERVICE AREA EMPLOYMENT ⁽¹⁾
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)

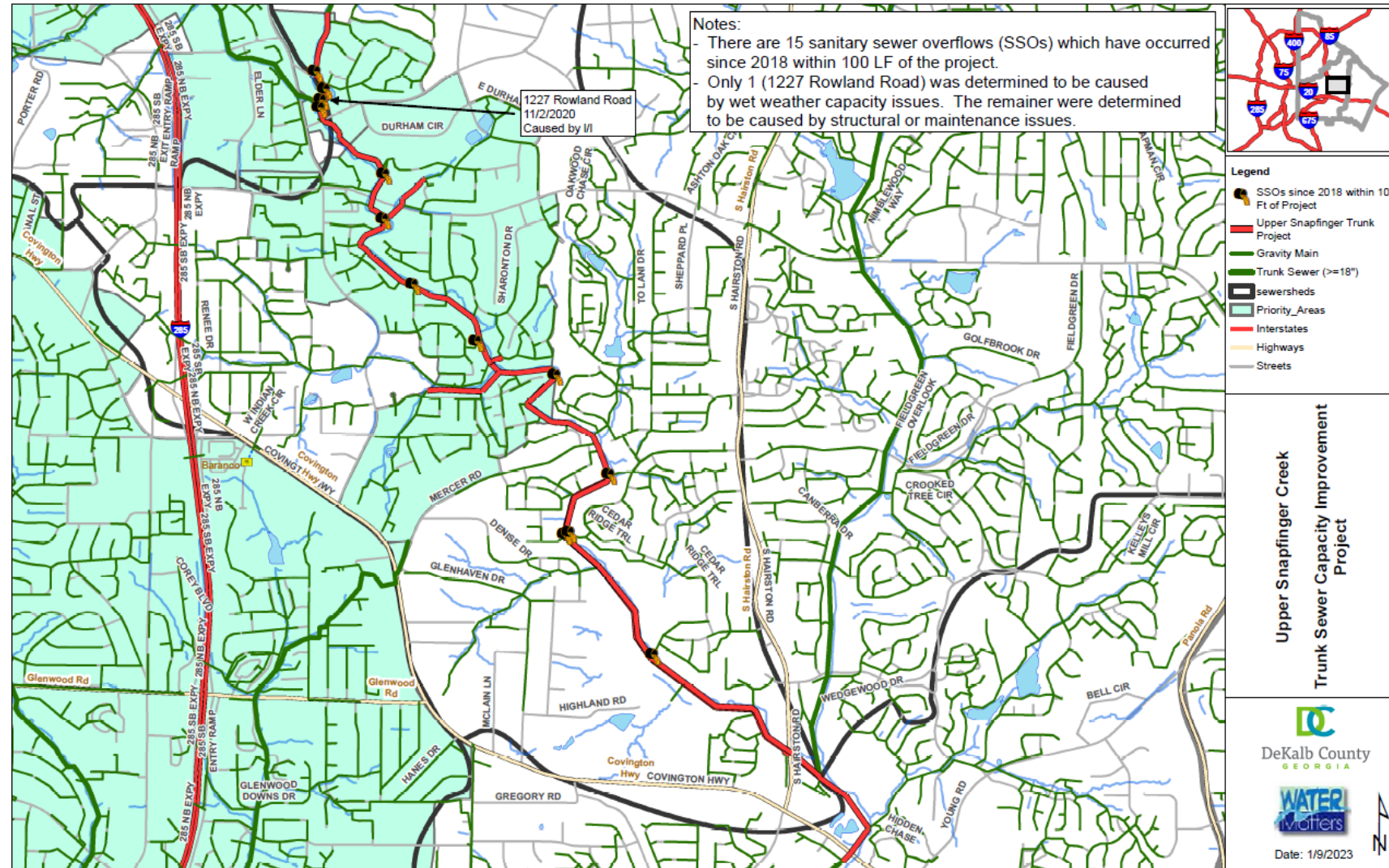


Upper Snapfinger Trunk Sewer Upsizing Project

History of Capacity Related Sanitary Sewer Overflows (SSOs)

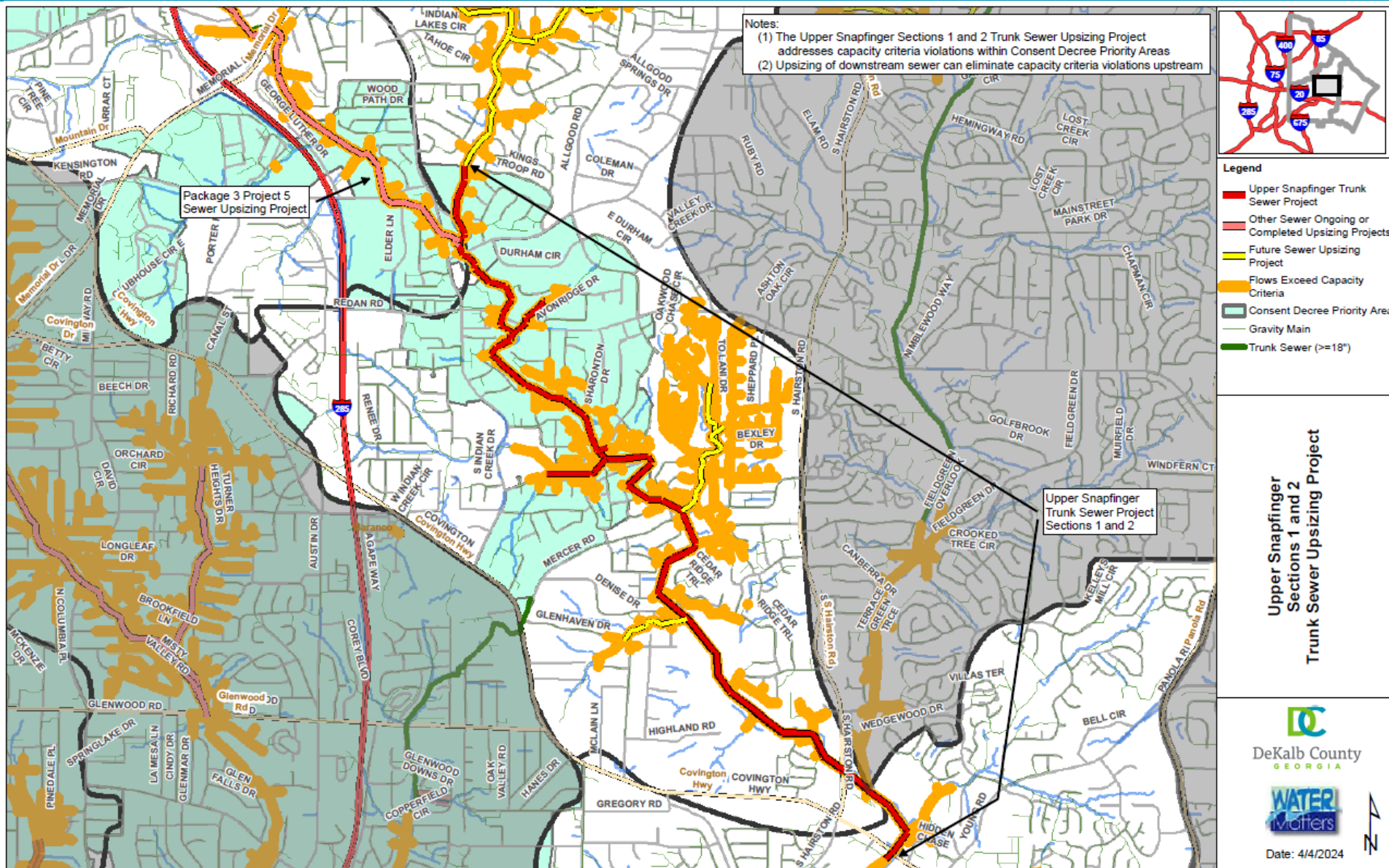


- There were 16 sanitary sewer overflows (SSOs) which occurred between 2018 and 2023 within 100 LF of the project
- Only 1 (1227 Rowland Road) was determined to be caused by wet weather capacity issues
- The remainder were determined to be caused by structural or maintenance issues



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

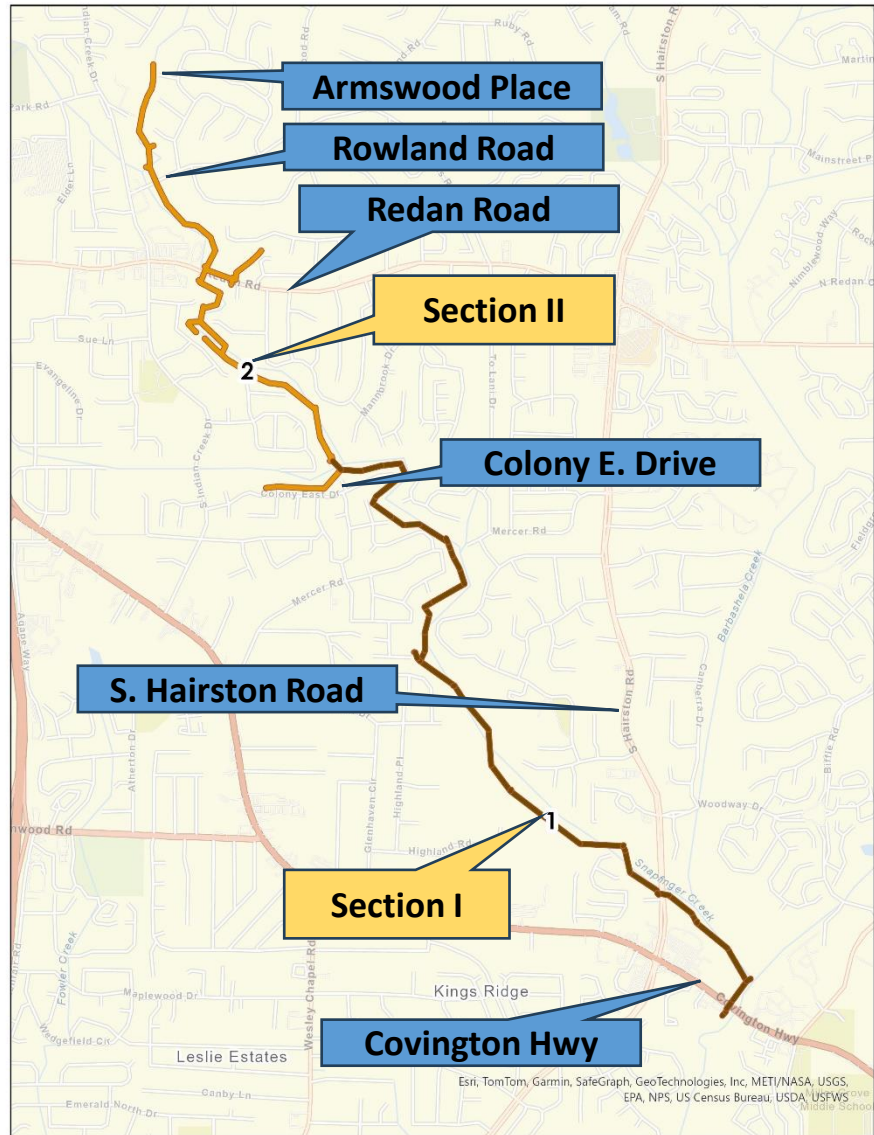


Severe Streambank Erosion



Upper Snapfinger Trunk Sewer Upsizing Project

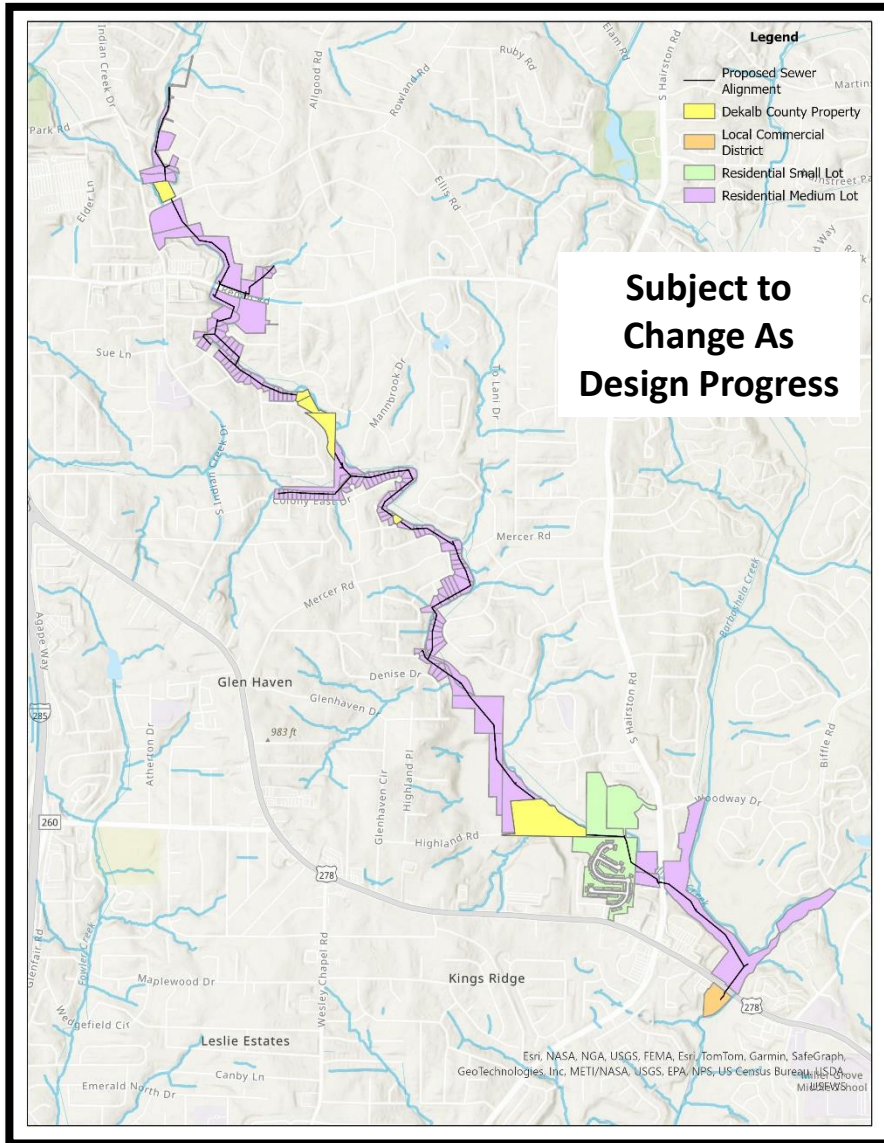
Scope Overview



- 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
Section 1	70	47	2	Unincorporated DeKalb
Section 2	71	65	4	Unincorporated DeKalb
TOTAL	141	112		

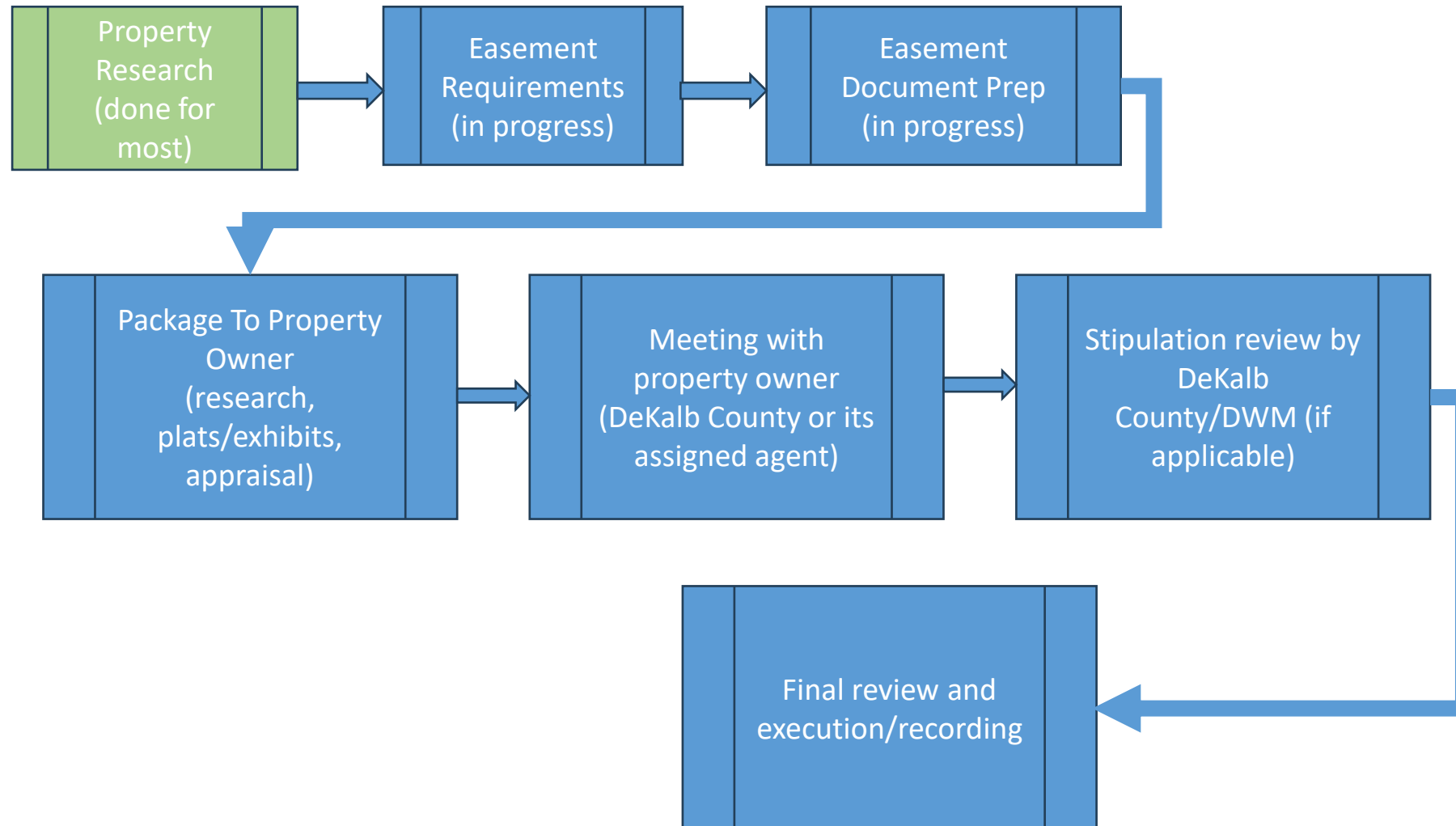
**Approximate No. of Parcels at 90% Design Stage*

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

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

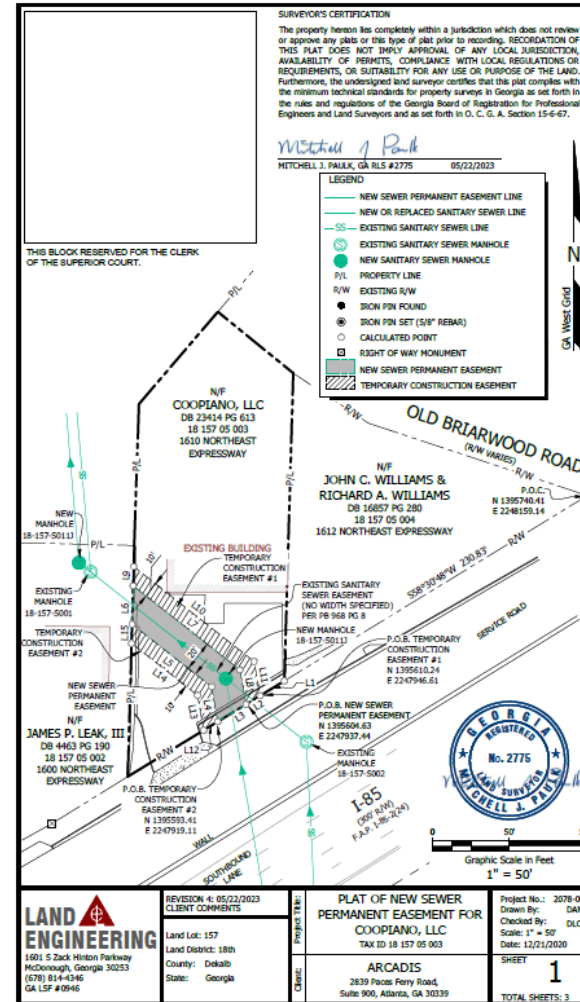
Upper Snapfinger Trunk Sewer Upsizing Project

Easement Negotiation Process Workflow



Upper Snapfinger Trunk Sewer Upsizing Project

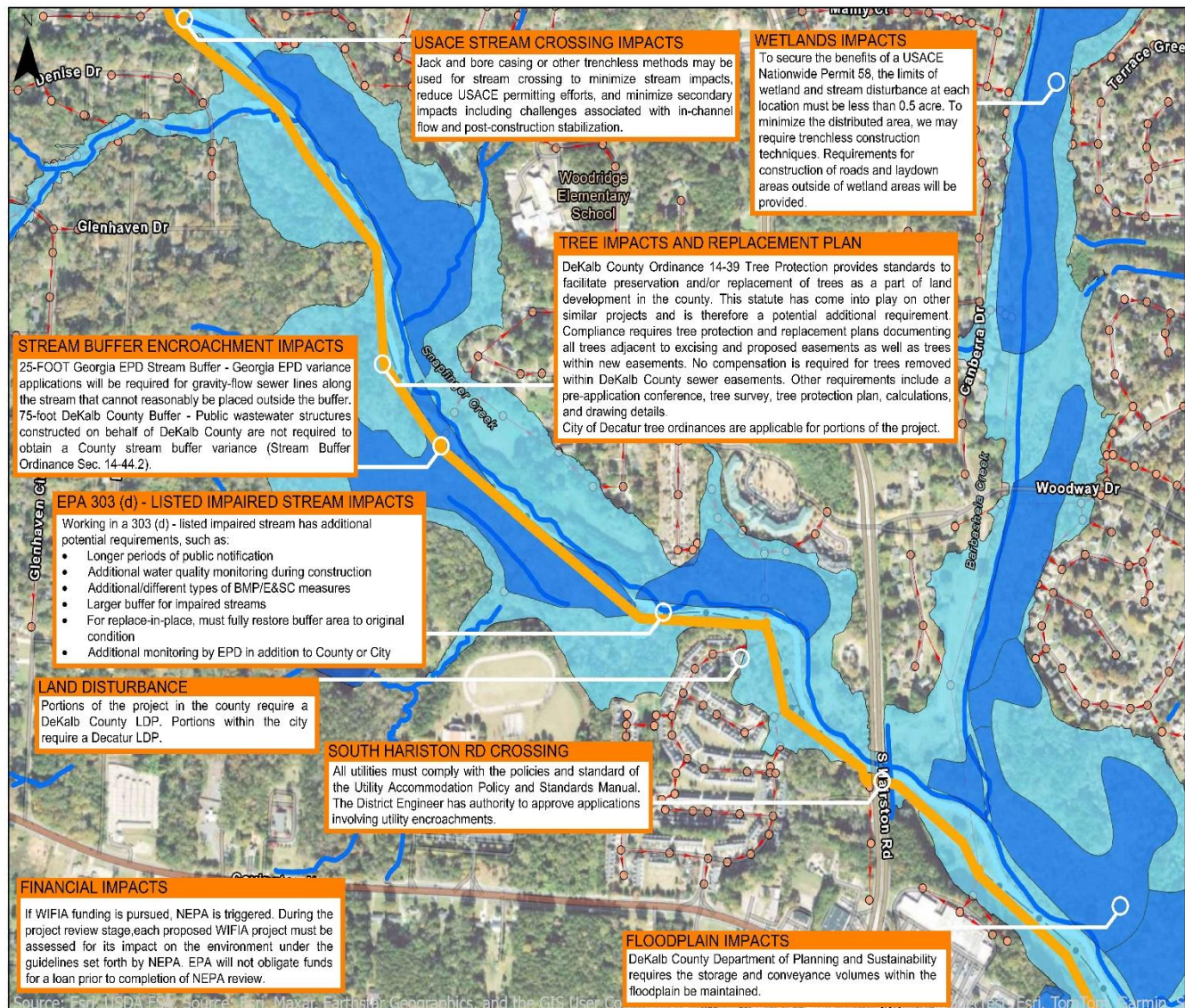
Example of Easement Plat



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

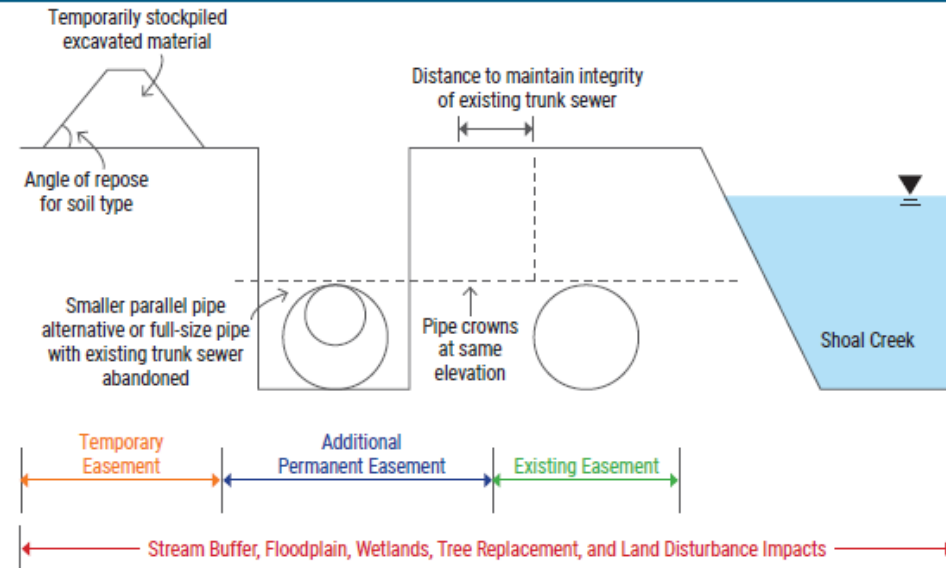
Upper Snapfinger Trunk Sewer Upsizing Project

Replacement Options

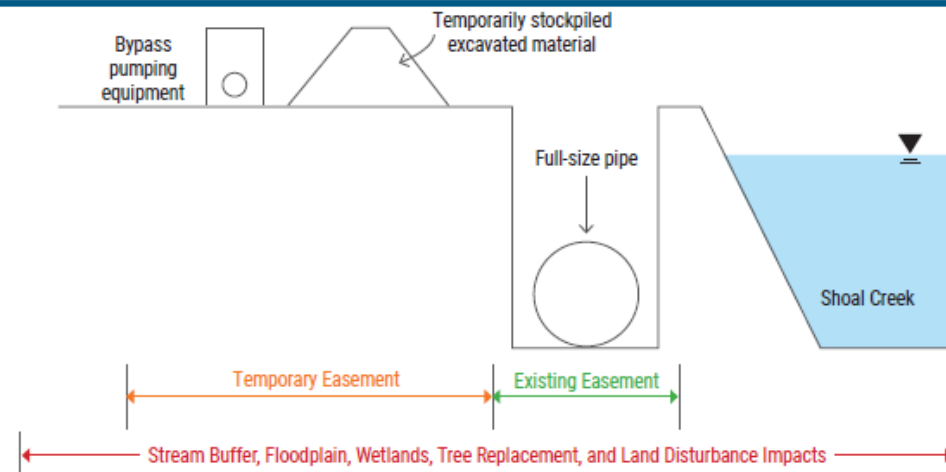


- **Replace Pipe in Same Trench**
- **Parallel Relief Sewer (partial flow)**
- **Relief Sewer (full flow)/Abandon Existing Sewer**
- **Future Rehabilitation of Existing Pipe**

PARALLEL PIPE INSTALLATION (not to scale)

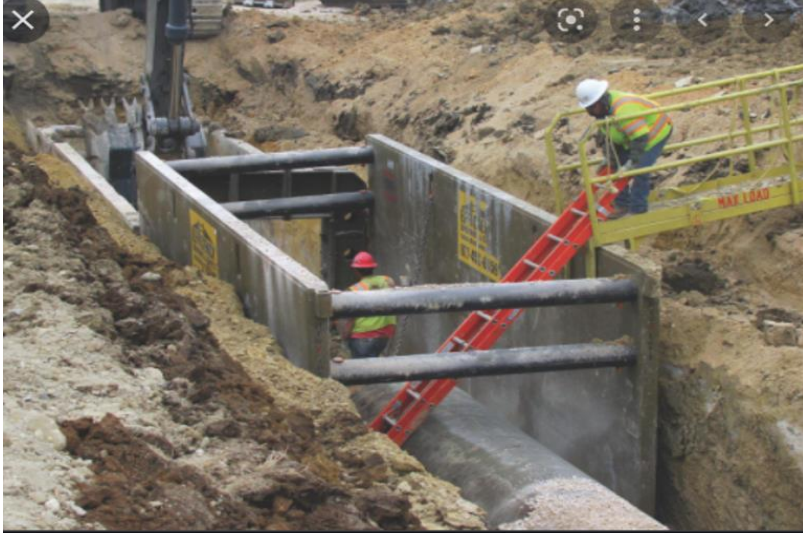


REPLACE IN-PLACE (not to scale)



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**

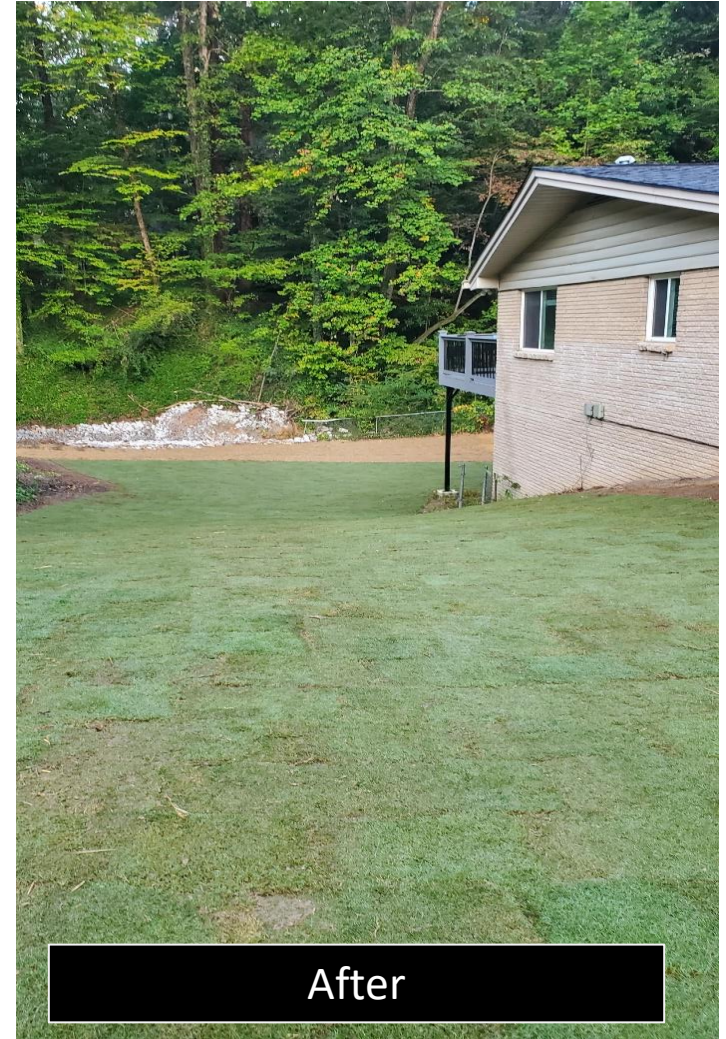


Upper Snapfinger Trunk Sewer Upsizing Project

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: 2026**
- **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



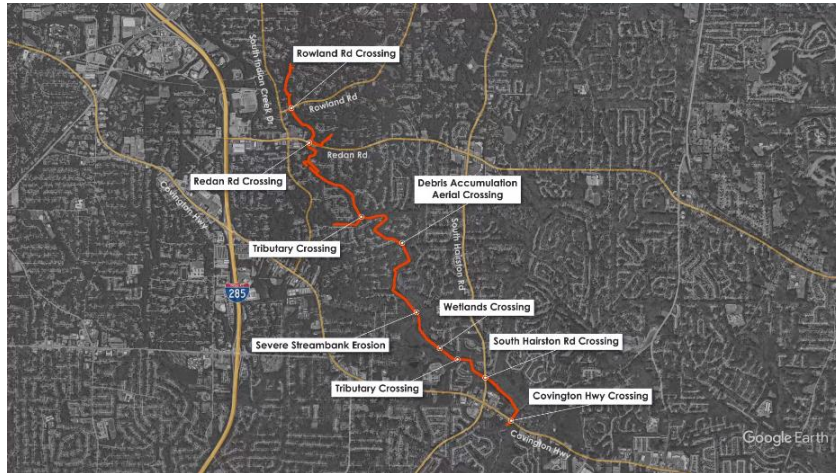
Link to Virtual Room: [Virtual Meeting Room](#)

Upper Snapfinger Trunk Sewer Upsizing Project

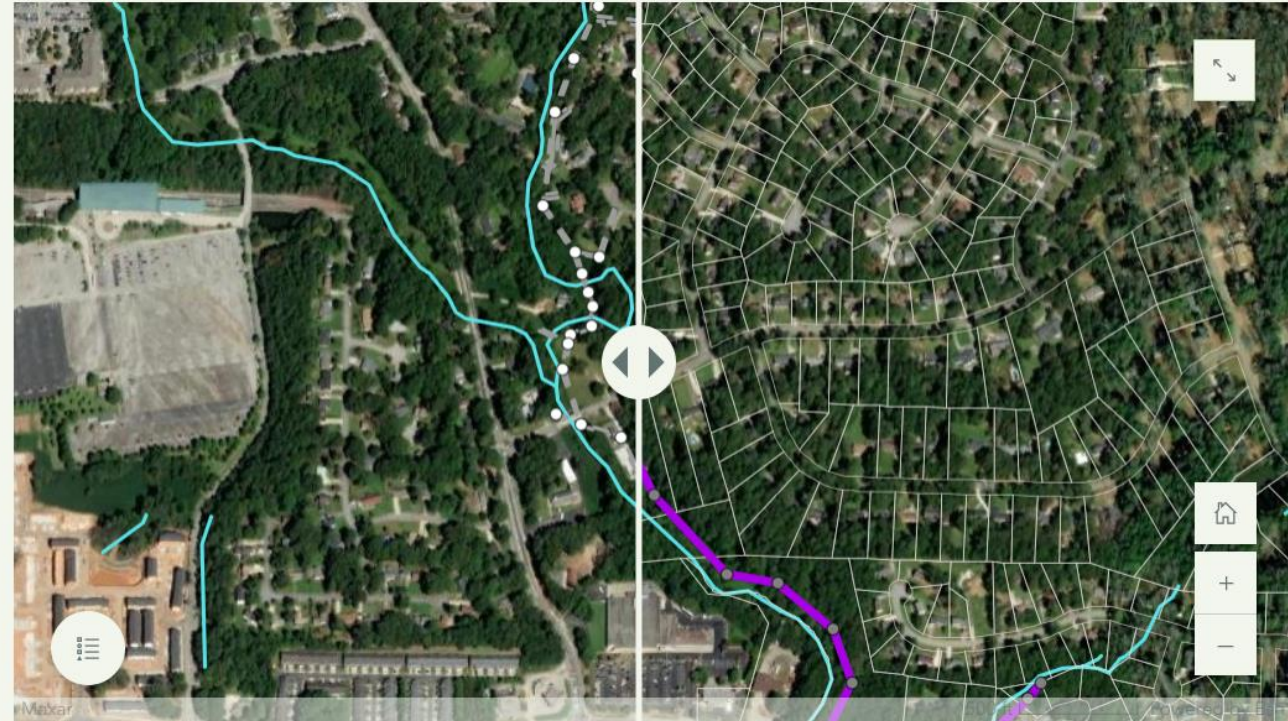
Visualization Capabilities (Available on Website)



Flyover Video



Slider Tool – Existing vs. Proposed



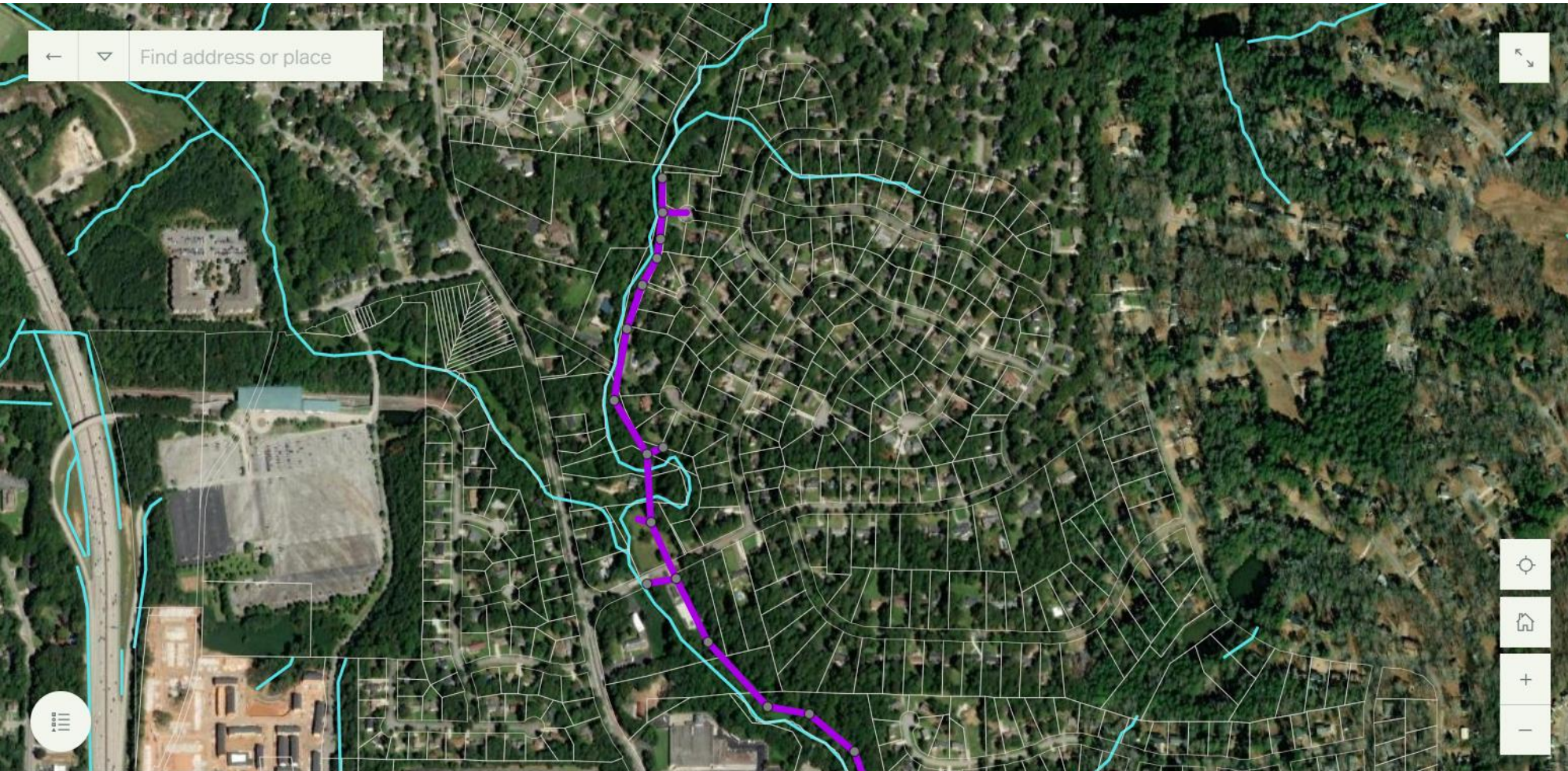
Slide map from existing alignment to the proposed alignment

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:

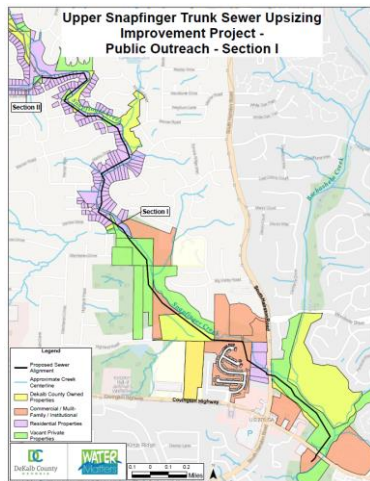
Tuesday, April 22, 2024
East Central DeKalb Community and Senior Center - Room 108
4885 Elam Road
Stone Mountain, GA 30083

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.

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



DOOR HANGERS/FLYERS



770.621.7206 (o)
770.621.7271 (f)
DeKalbCountyga.gov

Watershed Management
1590 Roadrunner 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
Mercede Davis Johnson

District 6
Edward "Ted" Terry

District 7
Lorraine Cochran-Johnson

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.

MEDIA RELEASE



DeKalb County
GEORGIA

Department of
Communications
www.dekalbcountyga.gov

MEDIA CONTACTS:

- Andrew Cauthen, Chief Communications Officer, acauthen@dekalbcountyga.gov, 470-553-4408 (c)
- Alicia Pennie, Public Relations Manager, 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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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**.

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.

- 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

