CIP 2026:

Water Treatment Plant Projects

Wastewater Treatment Plant Projects

March 17, 2026

Agenda

CIP 2026

A. Water Treatment Plant Projects
B. Wastewater Treatment Plant Projects

A. Water Treatment Plant Projects

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1822

WATER Matters

SCWTP Conversion of Caustic Soda to Liquid Lime

Project Scope

- Switch caustic soda system to liquid lime
- Replace existing caustic tanks for new Liquid lime tanks with mixers
- Add phosphoric acid chemical system

Benefits to Residents

- Improve finished water pH control
- Use safer, less toxic chemicals for operators
- Enhance corrosion control to meet regulatory requirements
- Maintain more stable pH throughout the distribution system
- Support local industries relying on DeKalb drinking water

Project Status

- Under construction, Contractor: R2T
- Tank framing and demolition completed
- Temporary caustic system installation in progress
- Chemical tray and electrical systems in progress

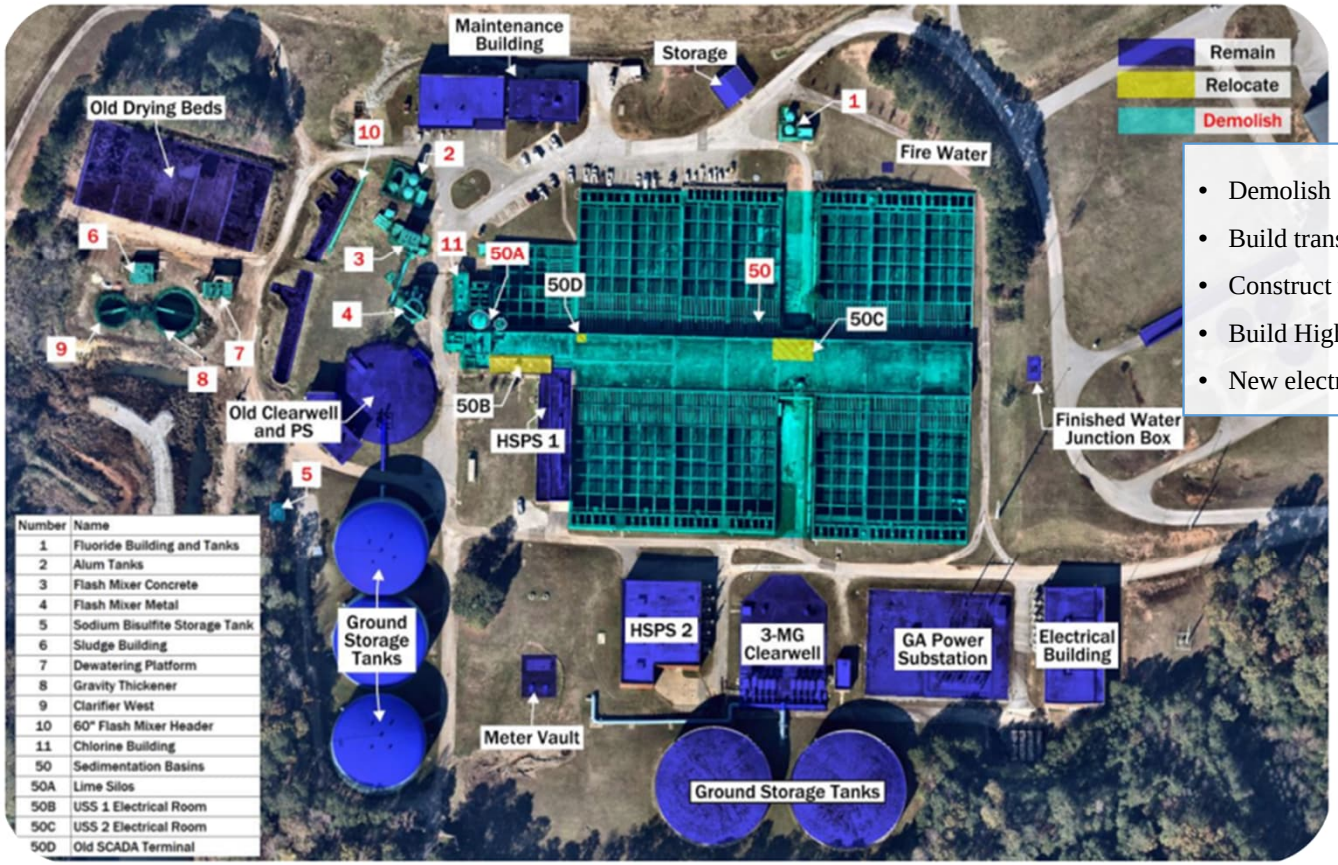
Schedule

- Start: February 13, 2025
- Completion: April 12, 2027

Project Cost

- **$16.57 Million**

SCWTP Clearwells & HSPS Project



Number	Name
1	Fluoride Building and Tanks
2	Alum Tanks
3	Flash Mixer Concrete
4	Flash Mixer Metal
5	Sodium Bisulfite Storage Tank
6	Sludge Building
7	Dewatering Platform
8	Gravity Thickener
9	Clarifier West
10	60" Flash Mixer Header
11	Chlorine Building
50	Sedimentation Basins
50A	Lime Silos
50B	USS 1 Electrical Room
50C	USS 2 Electrical Room
50D	Old SCADA Terminal

Project Scope

- Demolish existing filter plant facilities
- Build transfer pump station (6 × 600-HP pumps, dual wet wells)
- Construct two 10-MG baffled clearwells
- Build High Service Pump Station #3 (5 × 3,000-HP pumps + future unit)
- New electrical/control systems (MCCs, VFDs, I&C, SCADA)

Benefits to Residents

- Ensure continuous treated water service
- Remove SCWTP single point of failure
- Lower boil water advisory risk
- Increase system resilience and redundancy
- Allow future capacity expansion (+20 MG)

SCWTP Clearwells & HSPS Project

Project Status

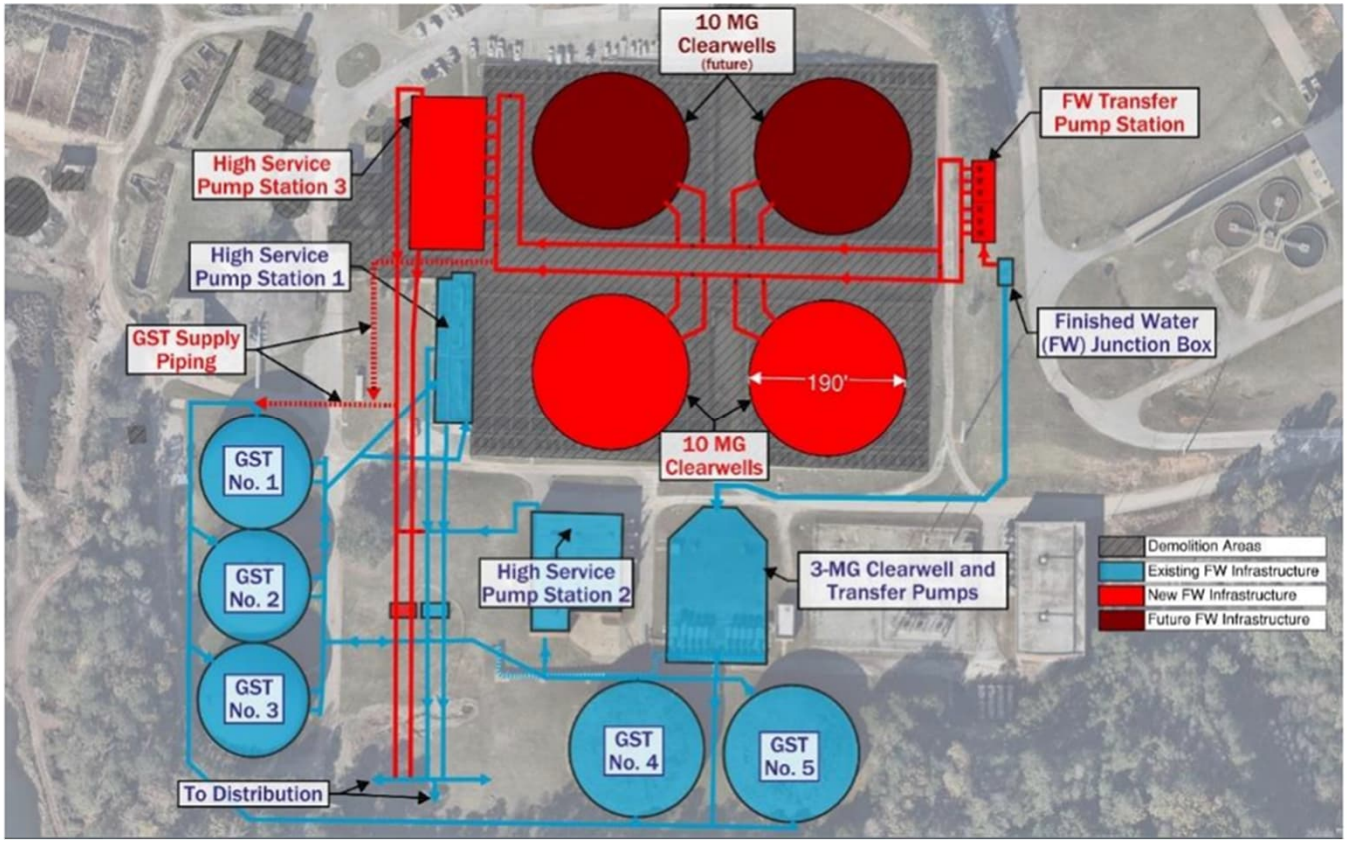
- Under procurement
- Received proposals from 2 proposers
- Conceptual design engineer : Brown and Caldwell

Schedule

- Start: 2026
- Completion: 2030

Project Cost

- TBD



SCWTP Clearwells & HSPS Project CM Services

Project Scope

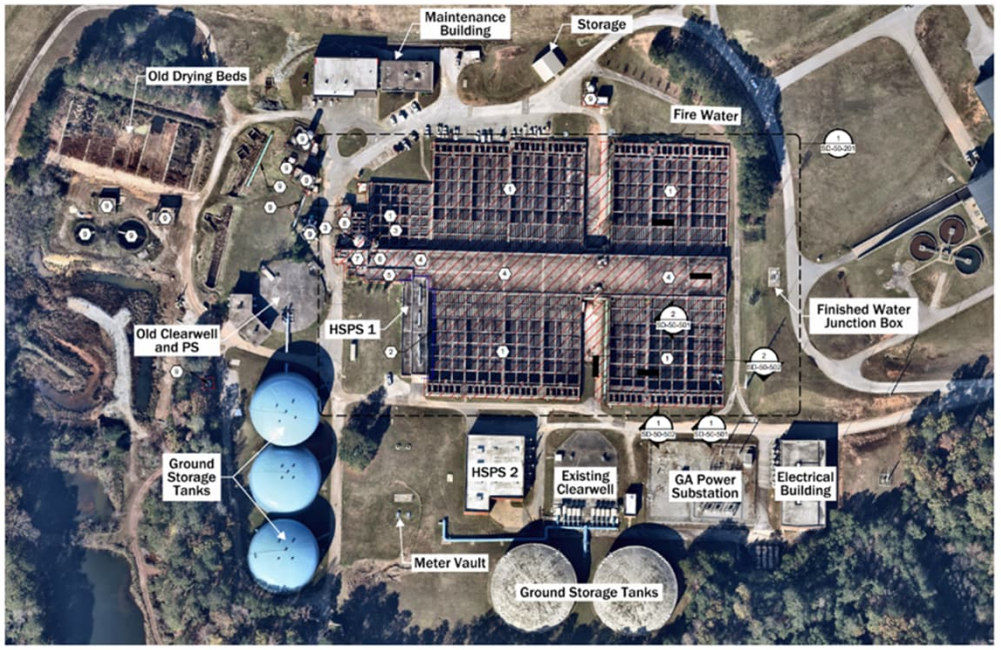
- Full-time CM oversight (all phases)
- Pre-construction support & design monitoring
- Construction inspection & PMIS management
- Risk, quality, safety, and compliance oversight
- Closeout and warranty support

Benefits to Residents

- Ensure project completion on schedule
- Ensure scope is delivered per County specifications
- Provide project administration to control expenditures

Project Status

- Procurement stage page turn meeting



DEMO FLOOR PLAN

Project Cost

- $22,000,000

Schedule

- TBD

SCWTP Transfer Pump System Upgrades

Project Scope (long term)

- Replace 8 pumps to maintain 150 MGD firm capacity
- New piping, structural upgrades, and shade canopies
- New MCCs, monitoring, and grounding improvements
- PLC integration with SCADA and upgraded instruments
- Site grading and stormwater drainage improvements

Project Status

- Completed 100 % of design by Brown and Caldwell
- Completing ITB solicitations.

Benefits to Residents

- Lower risk of service disruptions and environmental hazards
- Reduce boil water advisory risk
- Faster response with enhanced monitoring and controls
- Reduced flooding risk through improved drainage
- Support current demand and future growth

Schedule

- Advertisement planned by 5/12/26
- NTP planned by 11/15/26

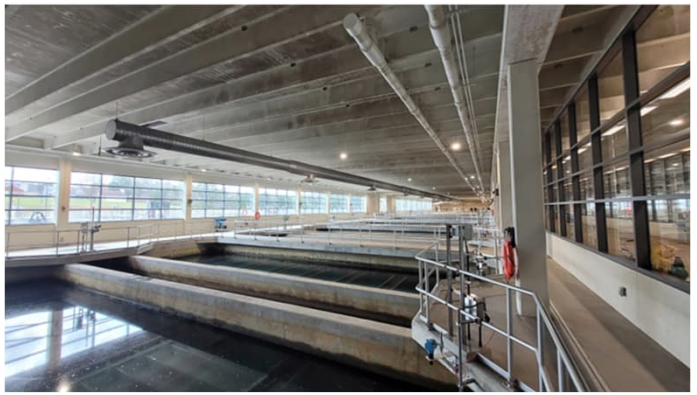
Project Cost

- $12.7 Million

SCWTP Filters Assessment and Media Replacement

Project Scope

- Install new windows and improve structural access
- Remove existing filter media
- Inspect and repair basins and underdrains
- Install new filter media



Benefits to Residents

- Improve plant reliability and safety
- Ensure PFAS-compliant drinking water quality
- Reduce service interruption risk
- Strengthen reliable water service for the community

Project Cost

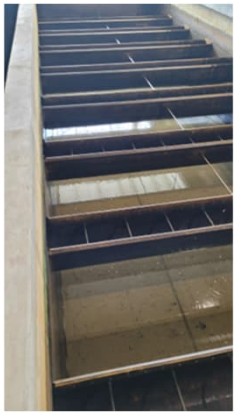
$30,947,860

Project Status

- 100% Design complete by F&N
- Procurement stage

Schedule

- Advertisement 5/12/26
- NTP 10/12/26
- Final completion 4/12/27



SCWTP Diesel Generators Backup

Project Scope

- Backup power via emergency generators
- Enhance reliability, resiliency, and operational control: 3 generators: replace 1, add 2 new
- Replace 2 diesel GST and two new above ground tanks
- Modernize controls and protective relays
- SCADA integration with PLC verification
- Training simulator for operational support

Project Status

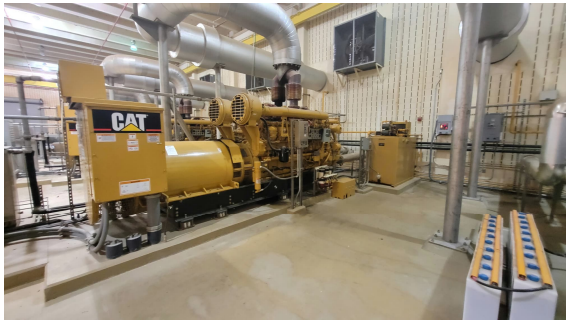
- Conceptual design completed by Arcadis
- Acquiring PLCs for process control
- Looking for generators quote

Benefits to Residents

- Improve water reliability during outages
- Upgrade generator system, controls, and fuel storage (EPA-compliant)
- Reduce service interruptions and avoid boil water advisories
- Enhance emergency response and weather resilience

Schedule

- TBD



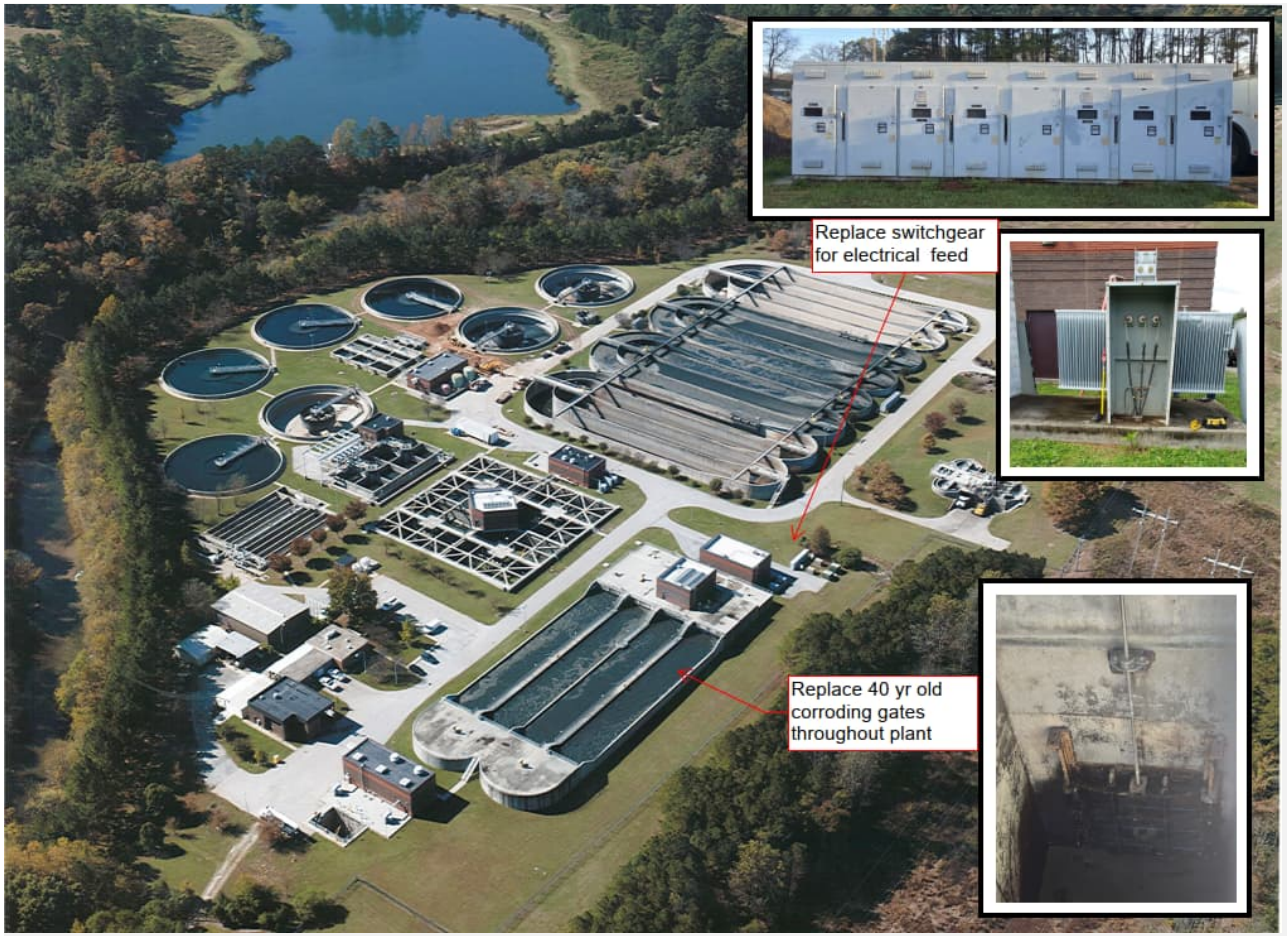
Project Cost

- TBD

Photo from Archer Western April 2024

B. Wastewater Treatment Plant Projects

Pole Bridge AWTF – Electrical & Gates



Benefits to Residents

- Improve reliability of electrical feed
- Provide power for future UV disinfection
- Maintain ability to isolate flow

Project Scope

- Replace plant switchgear
- Replace corroding gates and add actuators

Project Status

Planning

Project Cost

TBD

Snapfinger AWTF – Phase 2

Benefits to Residents

- Expansion/Upgrade
- From 36 MGD to 44 MGD
- Tankage for future 54 MGD
- Ensure permit compliance

Project Scope

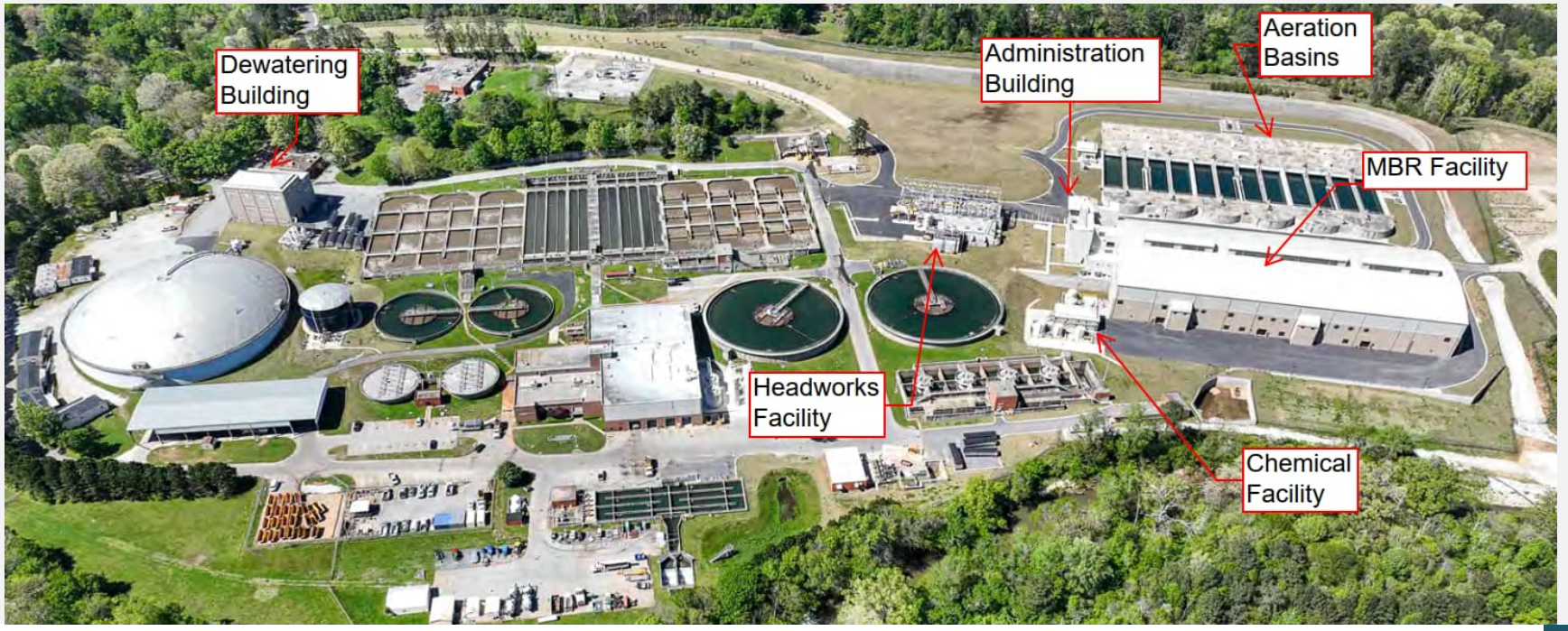
- Replace “liquid” side of >40 yr old plant
- Convert to membrane bioreactor process

Project Status

Construction 99.97% complete

Project Cost

$200M w/ approved CO’s



Snapfinger AWTF – Phase 3A

Benefits to Residents

- Continue expansion/ upgrade for growth
- Handle 2-yr/24-hr storm per Modified CD

Project Scope

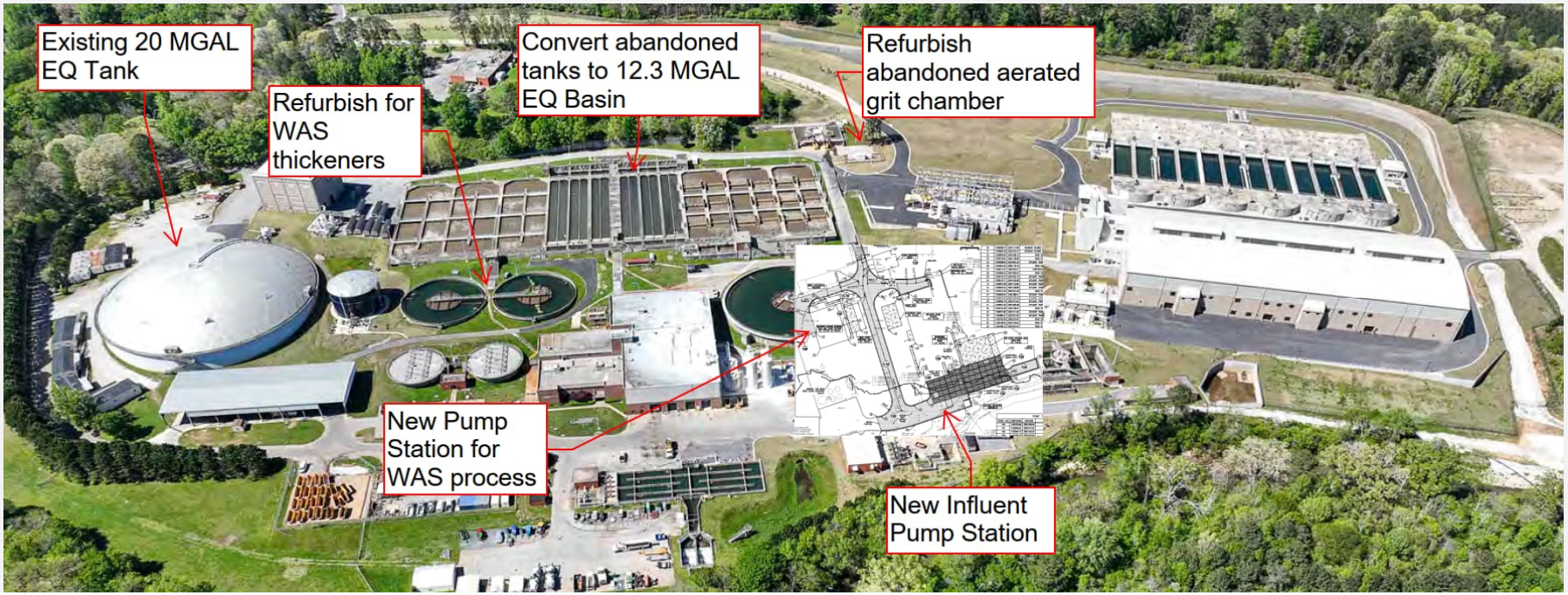
- Replace influent PS (75 MGD to 160 MGD)
- Upgrade WAS facilities
- Add influent EQ capacity

Project Status

Construction bids due 4/9/26

Project Cost

TBD



Snapfinger AWTF – Phase 3B

Benefits to Residents

Eliminate risks with:

- Gaseous chlorine
- Permit non-compliance as chlorination facilities sized for 36 MGD plant

Project Scope

Install ultraviolet (UV) disinfection equipment within UV channels constructed in the Phase 2 MBR Building

Project Status

Ongoing Design/Build

Project Cost

$6.3M w/ approved CO1

Snapfinger AWTF – Phase 3C

Benefits to Residents

- Reliably achieve Phase 2 peak treatment capacity
- Meet Modified CD with temporary pumping to EQ

Project Scope

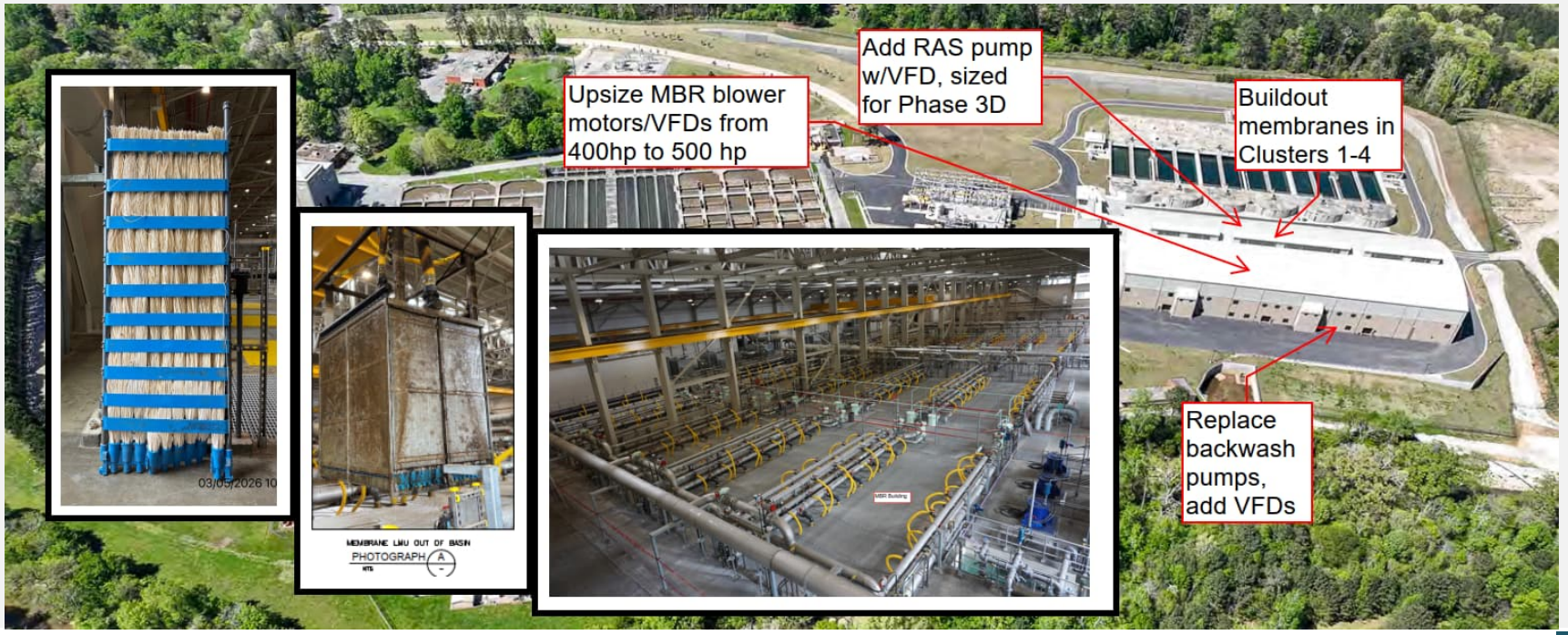
MBR improvements to optimize Phase 2 facilities

Project Status

Construction bids due 3/26/26

Project Cost

TBD



Snapfinger AWTF – Phase 3D

Benefits to Residents

- Reduce need for influent EQ to meet Modified CD
- Prepare plant for treatment buildout to 54 MGD

Project Scope

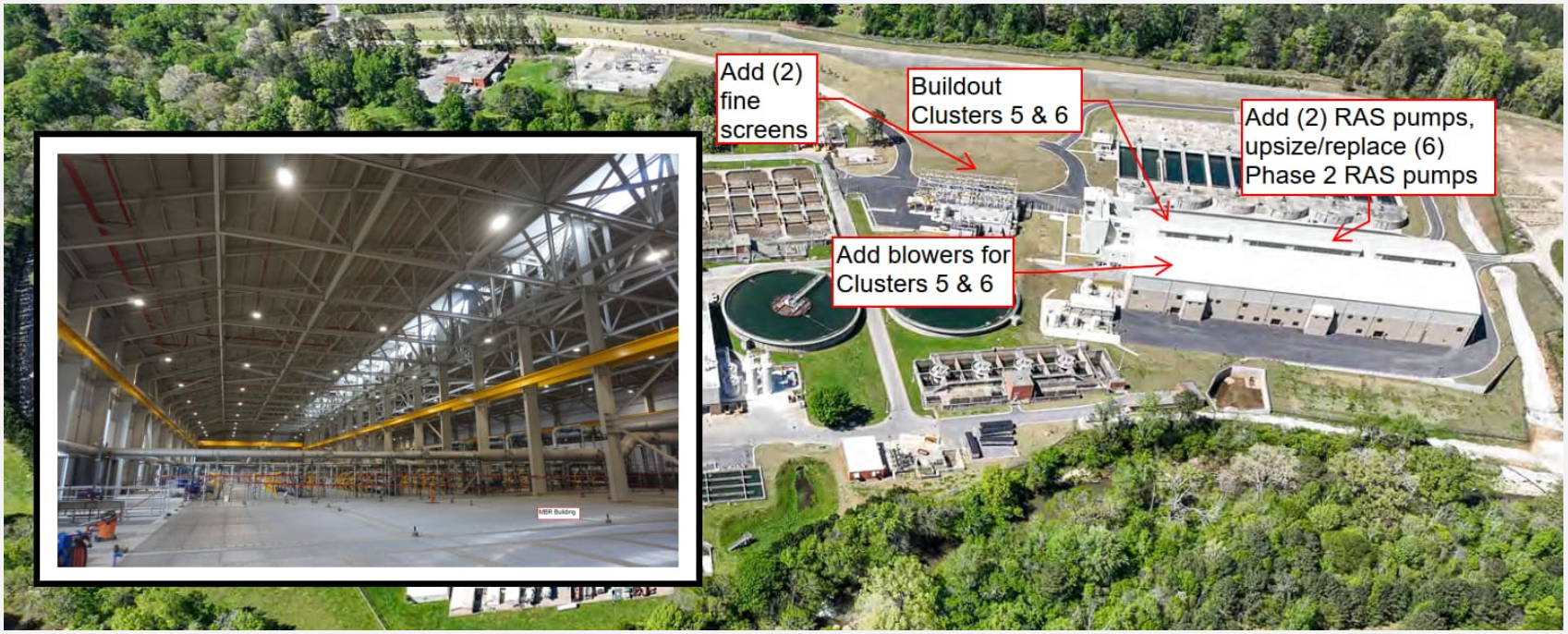
Hydraulic buildout (100 MGD) of Phase 2 facilities

Project Status

Pre-Design

Project Cost

Nominal $100M



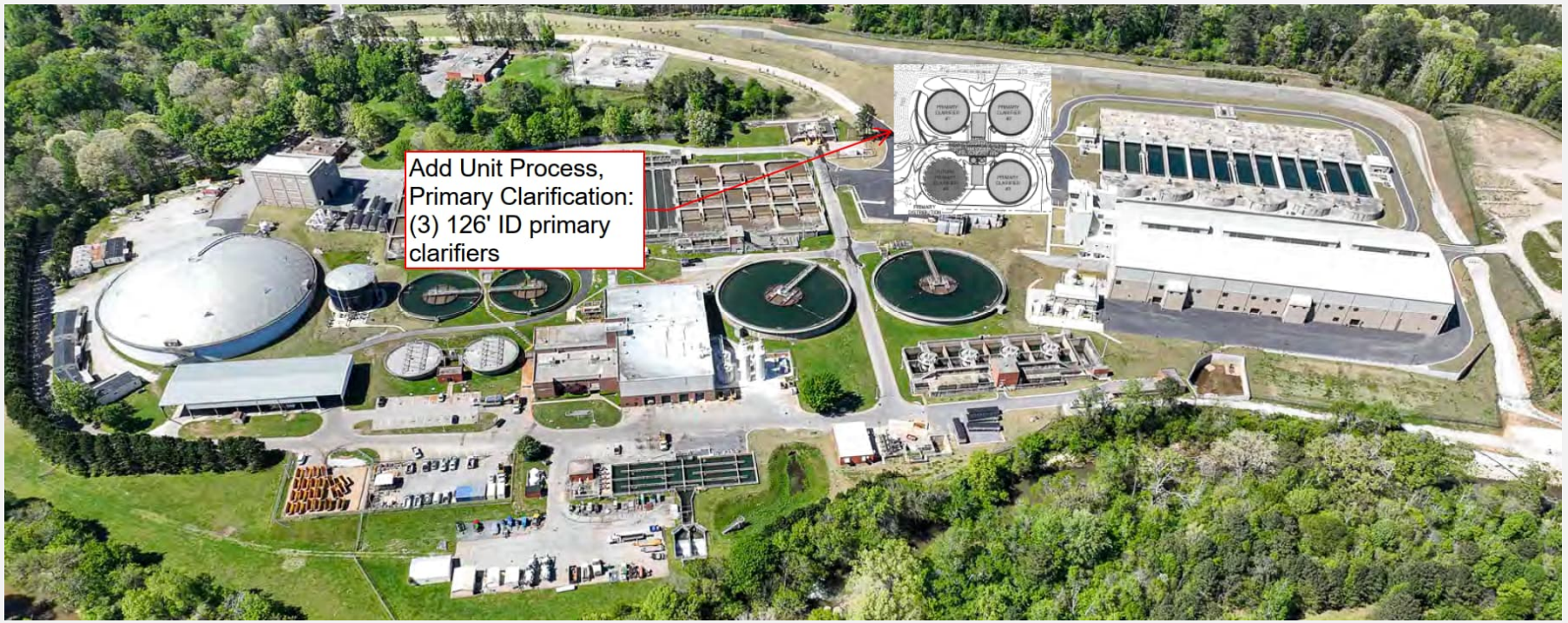
Snapfinger AWTF – Phase 3E

Benefits to Residents
- Improve plant efficiency
- Plant treatment buildout to 54 MGD
- Improve membrane life

Project Scope
Reduce solids in plant process

Project Status
Planning

Project Cost
TBD



Snapfinger AWTF – Phase 4

Benefits to Residents

- Address increasing difficulty and cost to landfill sludge

Project Scope

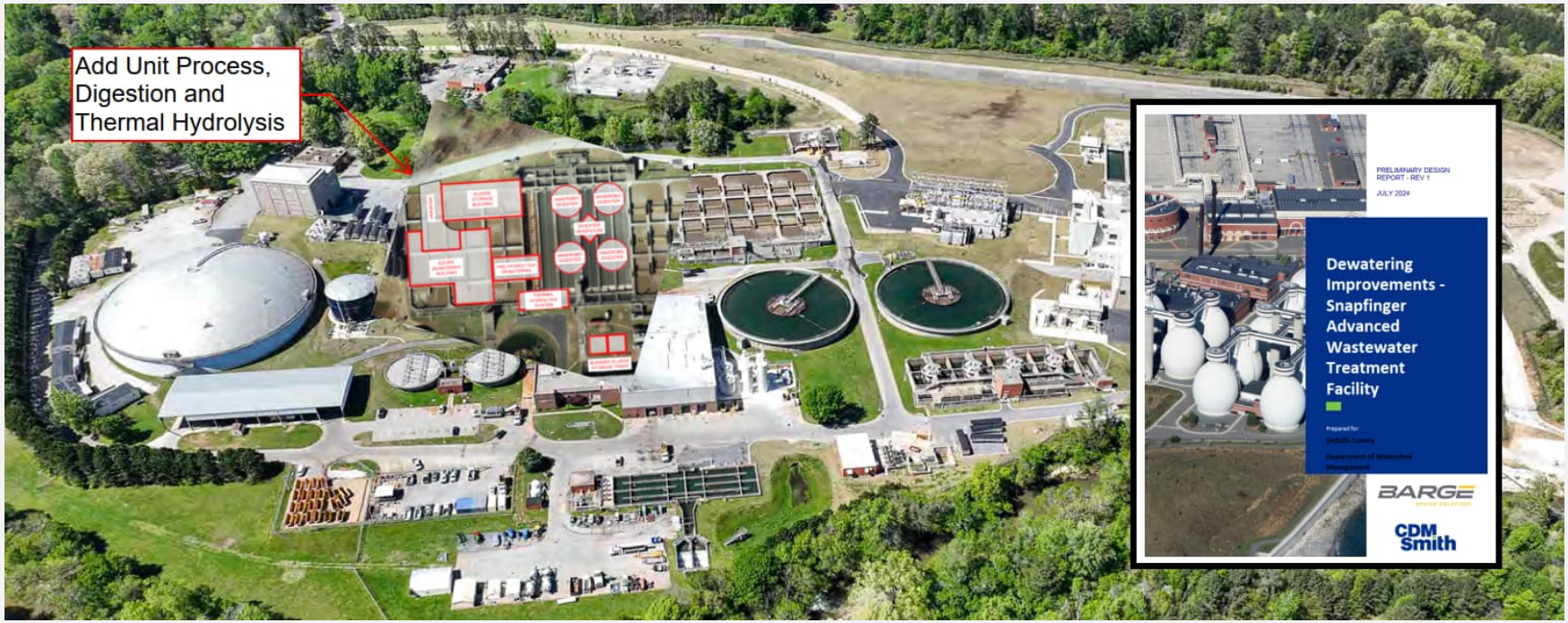
Reduce quantity and improve quality of sludge going to landfill

Project Status

Pre-Planning

Project Cost

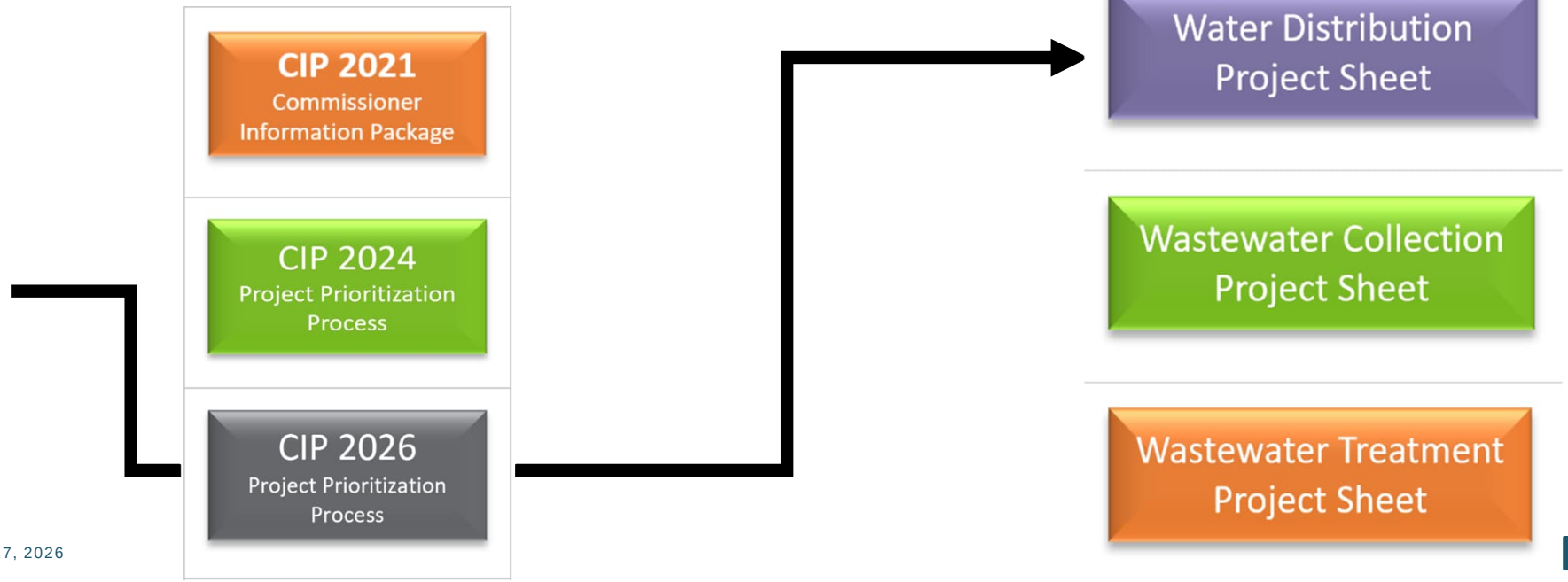
$414M (7/2024)



CIP 2026 SHAREPOINT SITE FOR COMMISSIONERS INFO

All use common tools for file storage:

- https://dekalb.sharepoint.com/sites/DWMCIP/CIPPM/SitePages/CIP%202026.aspx



Thank you