

Water Utilities – Quarterly Update: Water

**Kyle Pedigo – Planning and Engineering Division
Manager**

April 27th, 2026



Current Project Updates

April 27, 2026 - PUB26-071



RRWTP Capacity Re-Rate and Performance Upgrades

Project Manager: Katie Koch

Inspector: Halen Frazier

Status: Construction

Start Date: Q2 2024

Estimated Completion Date: Q4 2028

Project Scope

- Replace electric motor valve operators throughout the plant.
- Rehabilitate solids removal equipment in the sedimentation basin.
- Replace actuated valves in the filters.
- Replace the filter media with Granular Activated Carbon in all 8 filters.
- Construct a backwash storage tank and a new backwash system for filters.
- Construct a new Variable Frequency Drive building to support the replacement of the existing soft starters.

Budget

Design Contract

- \$3,701,547.00

Design Spend

- \$3,128,231.50

Construction Contract

- \$43,994,500.00

Construction Spend

- \$39,746,582.33

Project Milestones

Completed

- Notice to Proceed given 7/24/24
- Chemical containment pit constructed
- Chain and flight system replaced
- VFD building constructed, HSP 2 tested successfully
- Backwash Ground Storage Tank Constructed
- All 64 planned valve and actuator replacements have been completed.
- Filter Upgrades completed on filters 5-8

Upcoming

- Filter upgrades on filters 1-4 are ongoing
- HSP 1 to be returned and tested.
- Project to reach substantial completion when all filter upgrades are completed.
- RRWTP to be Re-Rated by the TCEQ this summer.

RRWTP Capacity Rerate Progress Photos



New 60" piping and valve



Clear well improvements

RRWTP Chemical Improvements

Project Manager: Katie Koch

Inspector: Halen Frazier

Status: Design

Estimated Construction Start Date:
Q4 2026

Estimated Completion Date: Q1
2028

Project Scope

- Convert the existing bulk chlorine gas system to a bulk sodium hypochlorite storage feed system.
- Conversion of the existing anhydrous ammonia system to a liquid ammonium sulfate (LAS) storage and feed system.
- Construct Disinfection Building and LAS containment structure and demolish existing chlorine, ammonia building, and scrubber area.
- Civil and yard piping improvements.
- New catatonia (flocculant aid) polymer system.

Budget

Design Contract

- \$2,233,740.00

Design Spend

- \$1,362,262.79

Construction Contract

- TBD

Construction Spend

- TBD

Project OPCC is \$23,000,000

Project Milestones

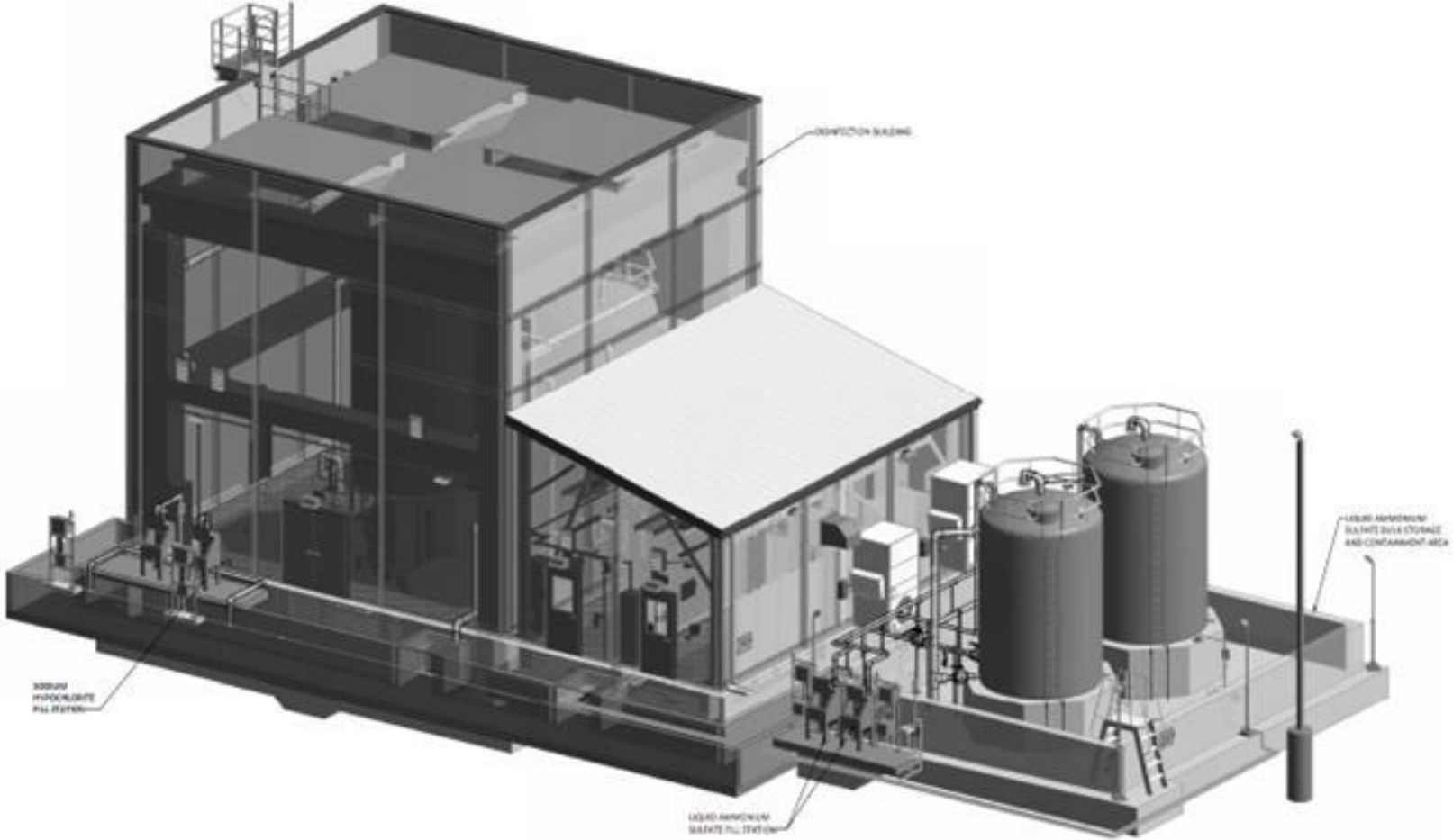
Completed

- Construction Solicited in Sept. 2024
- One bid was received and formally rejected due to the high bid price.
- Project included in the WIFIA application.

Upcoming

- A design contract amendment is being developed to allow for minor design adjustments and add an additional round of bid phase support.

RRWTP Chemical Improvement Building



DEINFECTION BUILDING AND LAS STORAGE
ISOMETRIC VIEW

RRWTP Expansion

CMAR

Project Manager: Katie Koch

Inspectors: Halen Frazier & Michael York

Status: Pre-Construction

Estimated Start Date: Q2 2026

Estimated Completion Date: Q4 2030

Project Scope

- Upgrade the RRWTP with an additional 20 MDG treatment capacity via low-pressure membrane units.
- Install new
 - Parallel raw water pump line
 - Pre-ozone and intermediate contactors
 - Pump diffusion vault and flow separator
 - Flocculation/sedimentation basins
 - Transfer pump station
 - One additional clear well

Budget

Design Contract

- \$21,184,000.00

Design Spend

- \$4,358,588.31

CMAR Contract

- \$2,815,293.00

CMAR Spend

- \$332,193.68

Construction Contract

- TBD

Construction Spend

- TBD

Project Milestones

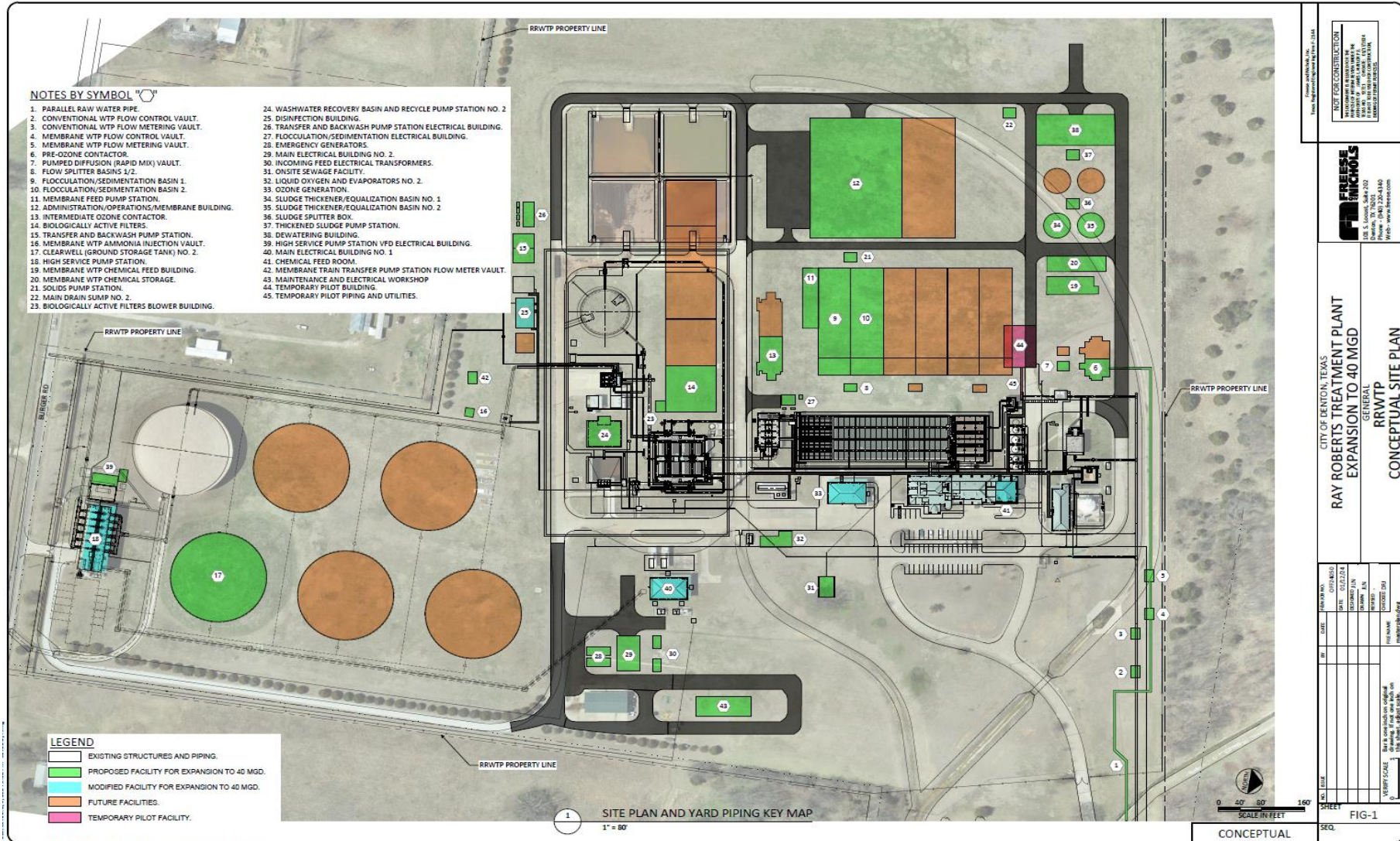
Completed

- SWIFT Loan finalized on December 3, 2024.
- Project Kick-Off with CMAR and Engineer held on October 6, 2025.
- 30% plans received in late February 2026

Upcoming

- 30% cost model
- Membrane pilot study to begin April 2026
- GMP 1 anticipated in Q4 2026

RRWTP Expansion Layout



April 27, 2026 - PUB26-071



LLWTP Dewatering Improvement Project

Project Manager: Katie Koch

Inspector: Colton Garrett

Status: Initiation

Design estimated to begin: Q4 2024

Estimated Completion Date: Q1 2028

Project Scope

- Separate the sedimentation underflow from the filter backwash stream.
- Construct a solids holding tank and an accompanying sludge pump station.
- Construct a second gravity thickener.

Budget

Design Contract

- \$958,760.00

Design Spend

- \$463,351.14

Construction Contract

- TBD

Construction Spend

- TBD

Project OPCC is \$18,700,000

Project Milestones

Completed

- Design Services contract with Carollo Engineers approved by City Council on April 15, 2025
- Project kick-off meeting May 5, 2025
- 60% plans received in February 2026

Upcoming

- 90% Plans to be received in April 2026
- Application for the TWDB Water Supply and Infrastructure Grant due in July.
- Construction contract anticipated by Q4 2026.

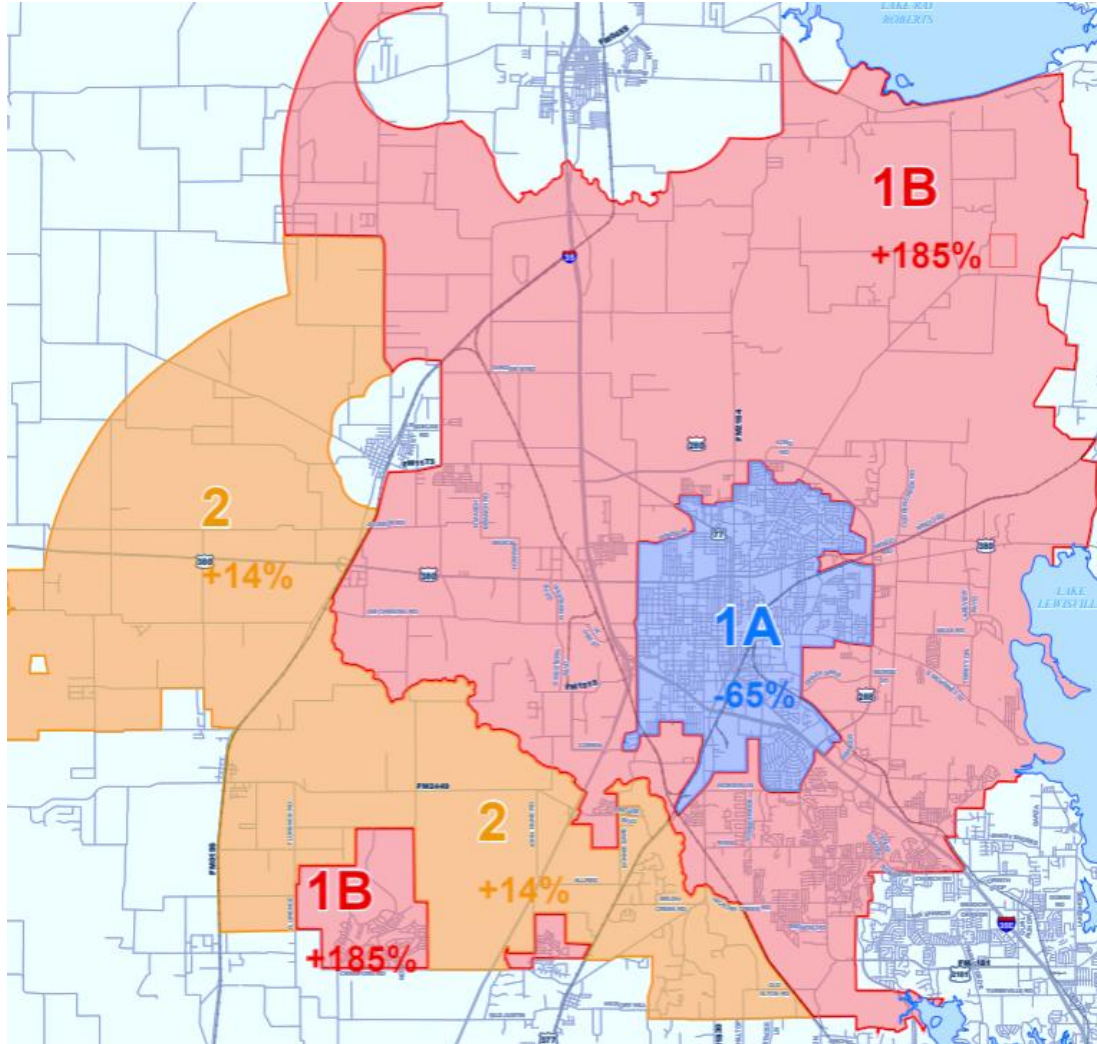
Upcoming CIP Projects




April 27, 2026 - PUB26-071



April 27, 2026 - PUB26-071

Growth Trend Heat Map



- Development trends between 2018 and today:
 - Infill is occurring more slowly than projected
 - Overall population and growth in the outer regions are occurring much faster than projected
 - Additional treatment capacity & conveyance infrastructure to accommodate the population growth
- Color Key
 -  Below Projections
 -  Above Projections
 -  Far Above Projections

Capital Improvement Plan: Upcoming Projects

- AMI Program 2026-28
- Lake Lewisville Raw Water Station: 2026-27
- Pipe Lining Program: 2027-29
- WMP #30: Ray Roberts Secondary Transmission Line: 2026-31
- Elevated Storage Tank Repairs: 2026-27
- WMP #24: Robson Ranch Transmission Line: 2027-29
- WMP #27: US 380 Water Line: 2027-29
- WMP #39: 16" Milam Road Water OPA: 2027-30
- WMP #9: 42" Jim Christal Transmission Main: 2028-31
- WMP #10: Jim Christal 3.0 MG EST: 2028-30

