

CAPITAL ENGINEERING

Capital Improvement Program Update

Randy Morrison, PE , Director of Capital Engineering March 24, 2025



Capital Engineering Update

- **Capital Engineering** is a new City Department (est. 2024) created to deliver Capital Projects for the City of Burleson and to manage the City's Capital Improvement Program (CIP)
 - Actively recruiting for Deputy Director and Capital Project Engineer

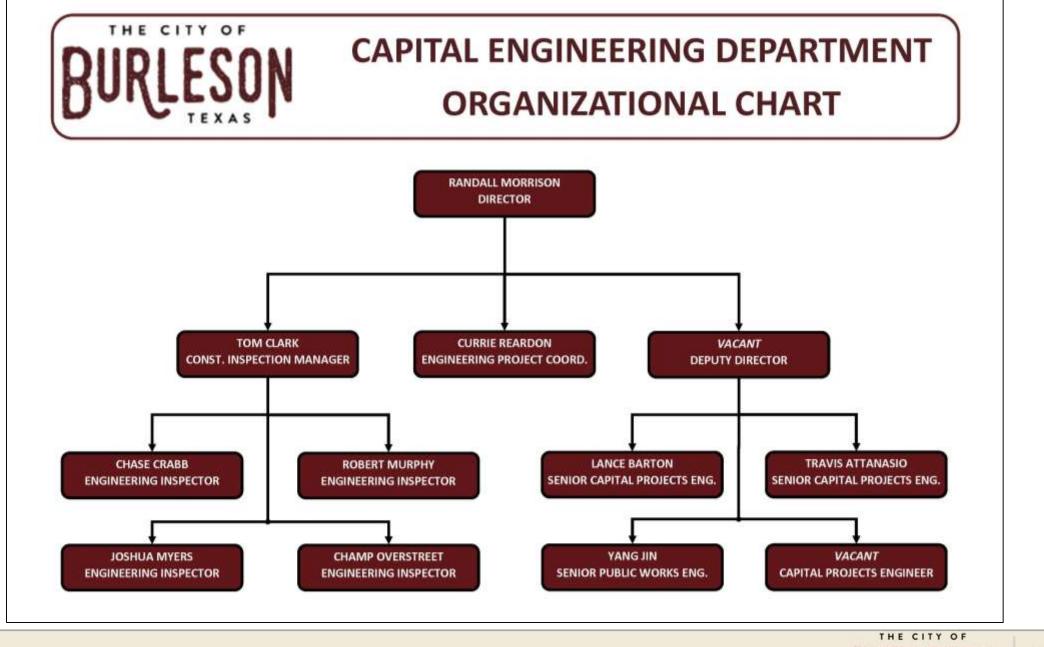
Department Focus Areas

- Increased Focus on Capital Project Delivery
- Collaboration with Operations and Other City Departments
- Develop the Tools for Success and Greater Efficiency
- Clearly Defined Scope, Schedule and Budget on Projects





Capital Engineering



Capital Engineering

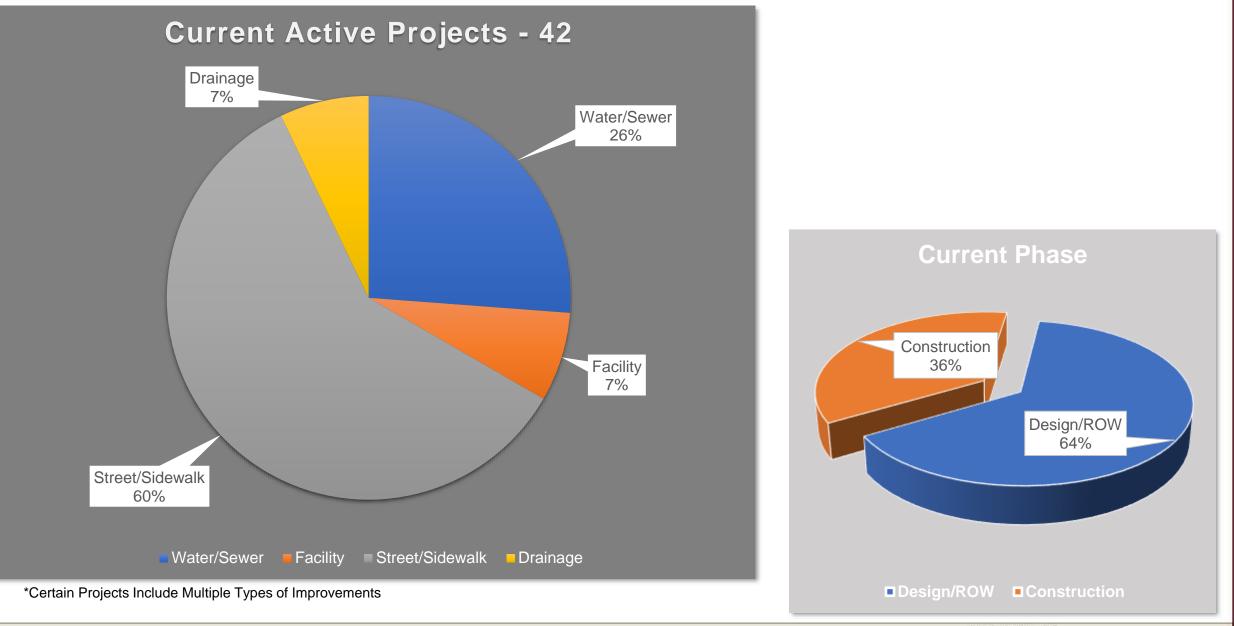
Latest CIP

Category	2025	2026	2027	2028	2029	Total
General Government	\$42,206,956	\$38,689,293	\$8,706,901	\$4,347,953	\$14,443,000	\$108,394,103
4A - Economic Development	\$7,143,677	\$20,000,000	\$10,000,000	\$0	\$0	\$37,143,677
4B - Parks & Golf	\$7,405,425	\$580,440	\$1,634,765	\$918,225	\$1,536,000	\$12,074,855
TIF 2	\$506,578	\$0	\$0	ŞO	\$0	\$506,578
Water and Sewer	\$29,160,837	\$46,263,183	\$16,193,792	\$17,947,881	\$17,918,516	\$127,484,209
Total	\$86,423,473	\$105,532,916	\$36,535,458	\$23,214,059	\$33,897,516	\$285,603,422
Available Funds (Cash/Other)	\$0	\$1,672,073	\$0	\$0	\$0	\$1,672,073
Bond Issuance	\$86,423,473	\$103,860,843	\$36,535,458	\$23,214,059	\$33,897,516	\$283,931,349

FY 2025 Highlights

- Police HQ Expansion
- Industrial Blvd. Pump Station Expansion
- New AMI Implementation
- Alsbury Blvd. Phase 3
- Hulen St. Widening from SH 174 to Candler







¹⁶⁷³⁶¹ Quiet Zone at Dobson St and CR 714

Project includes:

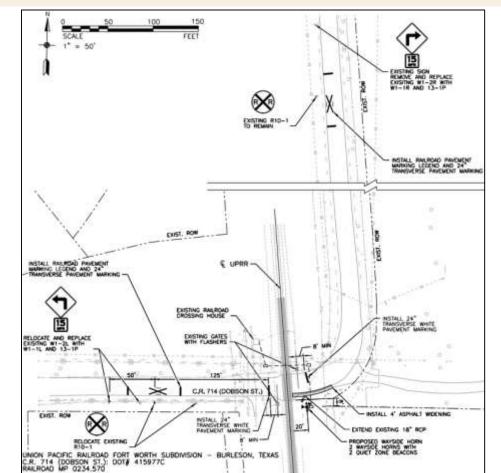
Installation of a Quiet Zone along CR714.

Funding:

• \$1.4 M Street Bond

Status:

 Railroad engineering firm is currently reviewing previous plans for quiet zone.







¹⁹⁷⁴⁰⁵ SH174 Widening to 6 Lanes (Elk to Wicker Hill)



Project includes:

- Widening SH 174 (Wilshire Boulevard) to the inside from four to six lanes from Elk Drive to Wicker Hill Rd
- Project is shared between the City and TxDOT
 - City is managing and funding Design
 - TxDOT will be managing and funding Construction

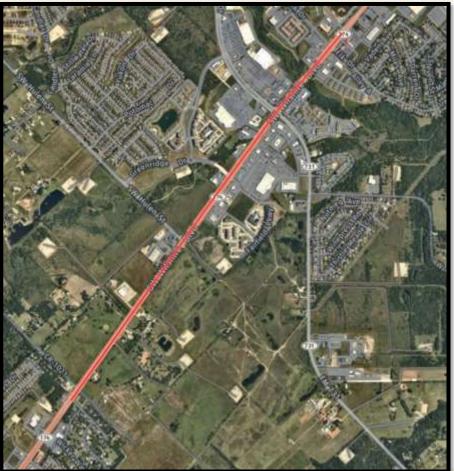
Funding:

- \$1.7 Million City participation (design)
- \$5.9 Million Texas Department of Transportation (TxDOT) funding
- \$23.7 Million North Central Texas Council of Governments/Federal Grant funding

Status:

- TxDOT reviewing 100% Civil Construction Plans
- Utility conflict coordination and relocation underway
- City is going to hire the contractor to relocate 12" water line and two fire hydrants, anticipate to complete in November 2024
- Currently anticipate TxDOT to begin construction Summer 2026







197409

Alsbury Blvd at John Jones (FM731) Right Turn Lanes



Project includes:

Intersection improvements as recommended by traffic studies for increased intersection capacity and higher level of service

Funding:

\$2.5 Million Streets & Drainage Bonds

- 100% Design Plans completed
- Right-of-Way and Sidewalk Easement acquisition underway
- TxDOT approved the environmental clearance. Consultant working with TxDOT to complete LOSA requirements.
- Utility Relocation underway





Old Town – Ellison Parking & Street Re-Alignment w/ Annex 3 Site 225 W Renfro (OTB Lot 1, Block 56)



Project includes:

Re-development of 225 W Renfro St., re-alignment and beautification of Ellison St., as well as reconstruction of on- street parking along Ellison St.

Funding:

- \$1.6 Million TIF Funds
- \$1.6 Million 4A Bond Funds

Status:

- Phase 2 under construction
- Parking 90% complete
- Ellison paving 98% complete
- Johnson mill and overlay change order complete





Total Project Cost 3.2 Million

ST2401 Old Town – 116 S Warren Parking Lot



Project includes:

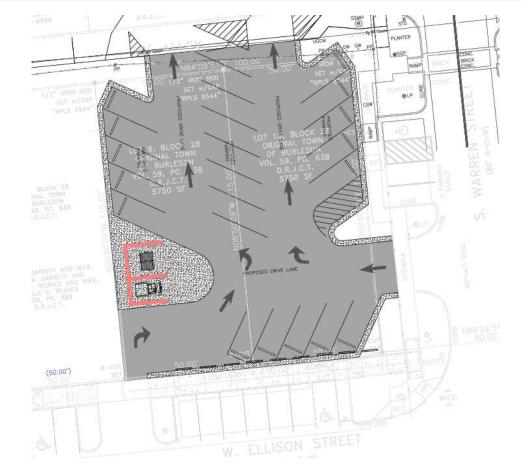
Expansion of the City Hall West Parking Lot across the property at 116 S Warren St.

Funding:

• \$500 Thousand TIF Funds

Status:

• Aiming for a Summer 2025 Construction Start





DR2301 Service Center Drainage



Project includes:

Removal of concrete and installation of drains along with a detention pond for the site

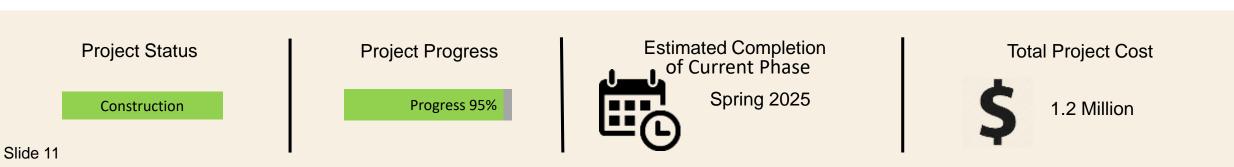
Funding:

• \$1.2 Million Water and Sewer Bonds

Status:

• Contractor wrapping up final erosion control work





DR2302 Bluebird Meadows Drainage



Project includes:

Inlet and PVC storm line to relieve an area of standing water

Funding:

 \$99 Thousand Water and Sewer Bonds

Status:

• Currently bidding







Progress 50%

Estimated Completion of Current Phase Summer 2025



DV2201 Hooper Business Park Retention and Roadway Design



Lift Station Site

Approx. 20.7 acres remain for

development

CR 1019 Re-Alignment

> Approx. 1.3-acre

pad site

Proposed

Easement 0.65 acre

Approx.

1.6-acre pad site

Project Includes:

Design and construction of retention ponds and realignment of CR 1019

Funding:

4A Bonds

- Design is 99% complete
- JCSUD is reviewing the relocation of existing 12-inch water line
- Landscape and irrigation to be added to Lakewood Dr landscape bid package



Lakewood Drive Construction – CR 1020 to FM 1902



Project Includes:

Construction of Lakewood Drive from FM 1902 to CR 1020

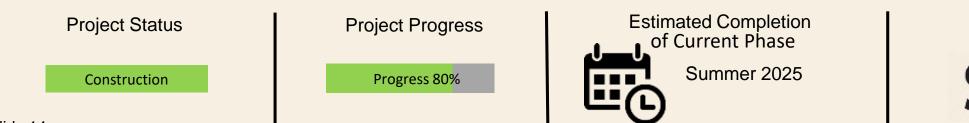
Funding:

4A Bonds

Status:

- Construction is approximately 75 percent complete
- TxDOT LOSA has been approved







DV2302 Lakewood Drive Extension Design



Project Includes:

Design of Lakewood Dr extension to Chisholm Trail Parkway

Funding:

4A Bonds

- Contract approved March 20, 2023
- Staff reviewing draft traffic study will submit to TxDOT
- FM 1902 and Lakewood's functional class updated by NCTCOG needed to be eligible for federal funding
- Contract amendment pending to add west side of tollway to schematic design





DV2303 Lakewood Drive Streetlights

BURLESON

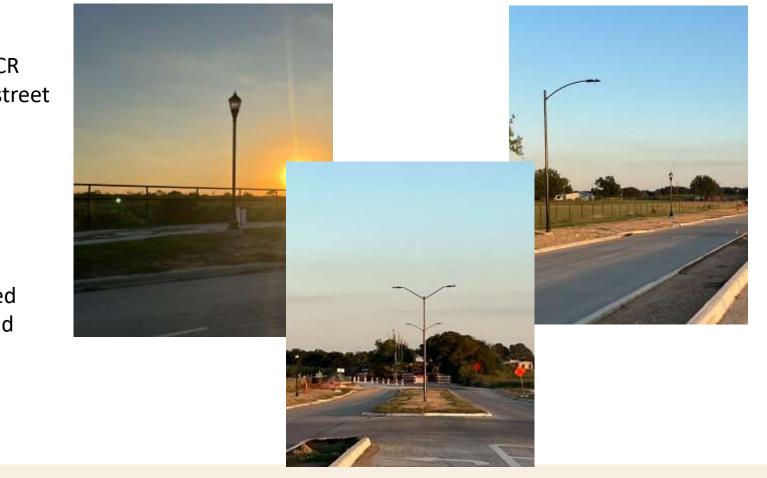
Project includes:

Bury existing electric lines between CR 1020 and CR 1016 and installation of roadway and pedestrian street lighting from CR 1020 to FM 1902.

Funding:

4A Bonds

- Existing overhead electric lines have been buried between CR 1020 and CR 1016 and roadway and pedestrian lighting has been installed
- Equipment and electric lines currently being installed between CR 1016 and FM 1902 with roadway and pedestrian lighting to follow





Lakewood Drive Landscaping Design



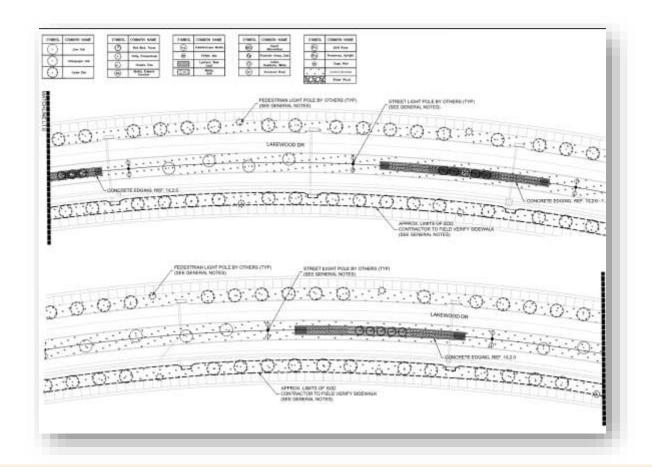
Project includes:

Design of landscape and irrigation from FM 1902 to CR 1020

Funding:

4A Bonds

- Landscape 60% design complete
- Irrigation consultant to begin design
- Anticipated construction to begin spring 2025





DV2401 Westside Business Park Lift Station



Project includes:

Design and construction of lift station and force mains to serve Hooper Business Park, Chisholm Summit Masterplan Community and surrounding area

Funding:

Water/Sewer Bonds 4A Bonds

- Force main 85% complete
- Gravity sewer 75% complete
- Wet well set mid September 2024
- Staff working with JCSUD for utility conflict along CR 914



FA2301

Police Headquarters Expansion 1161 SW Wilshire Blvd.



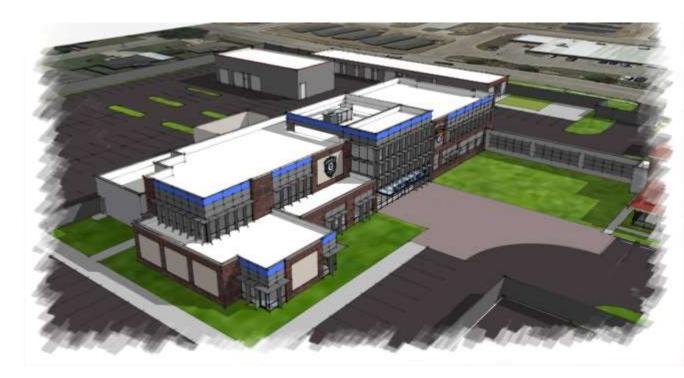
Project includes:

- Expansion of police department headquarters
- Remodeling existing facility to re-purpose existing space for officers and staff

Funding:

- \$36.4 Million GO Bond Public Safety Funds
- \$6.3 Million CO

- February 17th: Council received update and provided direction
- Final design underway





FA2302 Fire Station 1 - Renovation



Project includes:

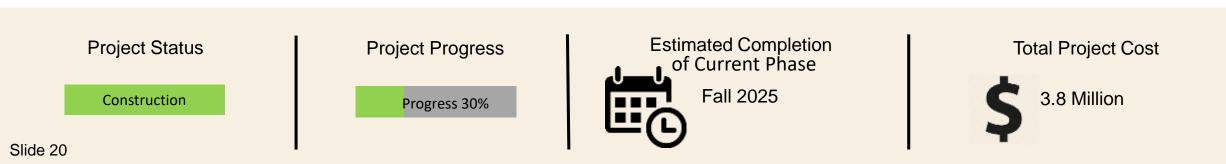
Various interior renovations to administrative and operational areas to include additional offices, expanded dormitory, and other changes to accommodate needs of the Fire Department

Funding: \$3.8 Million CO Bond

Status:

Construction underway





FA2303 City Hall Renovation



Project includes:

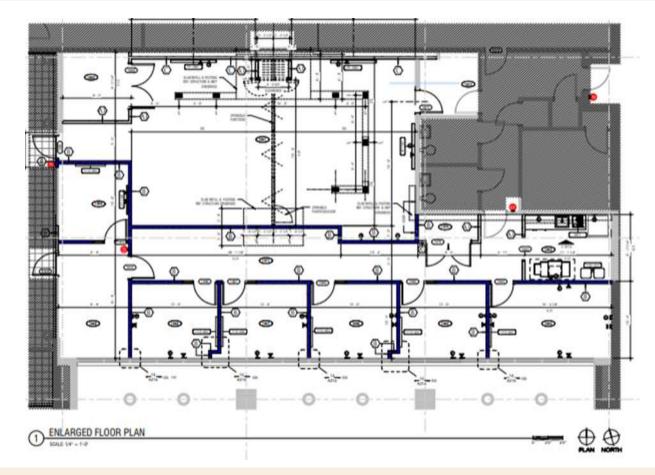
• Reconfigure existing facilities to create a council workroom and new offices for City Secretary's Office

Funding:

\$1.4 Million Non-Bond Capital/Royalties

Status:

• Construction started in February 2025





ST2202 Alsbury Ph. 2 - Hulen to CR 1020 (Bridge)



Project includes:

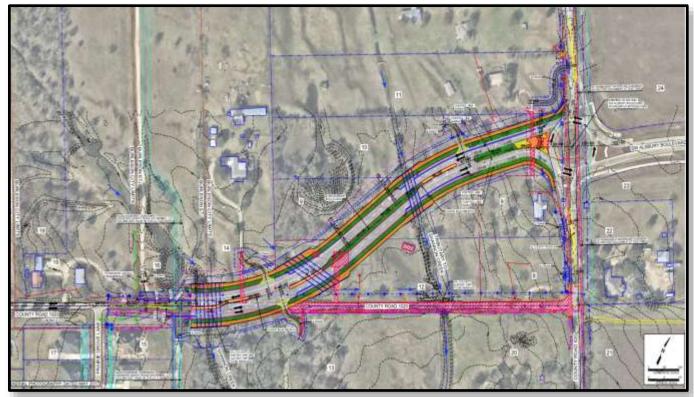
Extension of Alsbury Boulevard from Hulen Street Roundabout to County Road 1020 - new section will be 4-lane divided roadway with turn lanes and drainage improvements

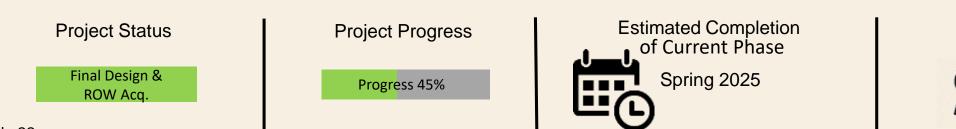
Funding:

- \$600 Thousand Non-Bond Capital
- \$7.4 Million 2022 GO Bond Funds
- \$1 Million Streets & Drainage Bonds

Status:

- Disruption occurred with elimination of federal funding
- Right-of-way and easement acquisition underway
- Construction bidding anticipated in April/May 2025







ST2250

Neighborhood Street Rebuilds FY22 Commerce St & Dobson St



Project includes:

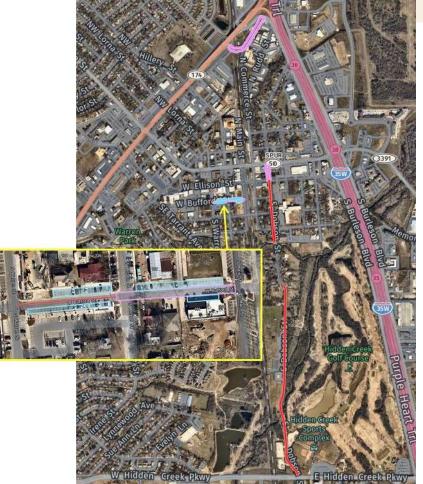
Reconstructing Commerce St (I-35 Service Rd. to SH 174 Service Rd.), Dobson St (E. Renfro to Town Creek and 401 S. Dobson St. to Hidden Creek Pkwy) and Bufford St (Wilson St to Main St)

Funding:

- \$825 Thousand 2022 GO Bond Funds
- \$780 Thousand Street and Drainage Bonds & Non-Bond Capital

Status:

- Project construction underway
 - Dobson St pavement 100% complete
 - Bufford St pavement 100% complete
 - Commerce St pavement 75% complete
 - UPRR crossing agreement executed





Estimated Completion of Current Phase Summer 2025



ST2260 Sidewalk Program FY22 (Vaughn Dr.)



Project includes:

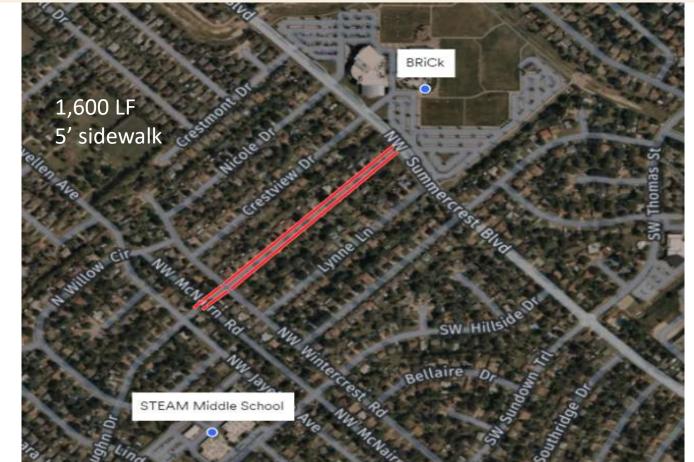
- 5' wide sidewalk between McNairn and Summercrest along one side of Vaugh Dr.
- This segment identified as a Short-Term Pedestrian project in the recently adopted Mobility Plan

Funding:

- \$447 Thousand 2022 GO Bond Funds
- \$87 Thousand Street Bond Funds

Status:

Engineering Services Contract Ongoing





Project Progress

Progress 15%

Estimated Completion of Current Phase Summer 2025

Total Project Cost



Slide 24

ST2301 Alsbury Ph. 3 – Widening to CR914



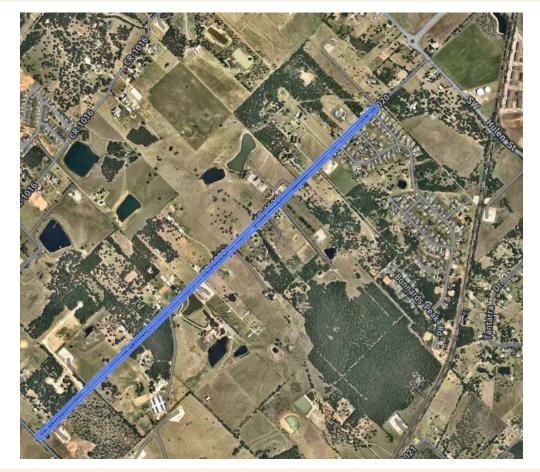
Project includes:

- Construction of two lanes of Alsbury Blvd (CR 1020) from Hulen Roundabout to CR 914
- Construction of 10' shared use path on each side

Funding:

- \$2.5 Million 2022 GO Bond
- \$4.1 Million 4A Capital
- \$10 Million in 4A for Construction

- March 3rd: Council update
- Design and right-of-way acquisition anticipated to start Spring 2025





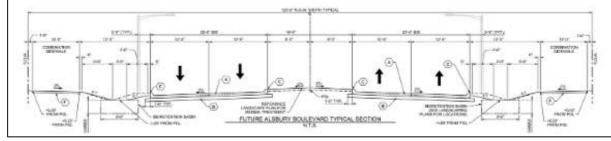
ST2302

Alsbury Ph. 1B – Candler to Hulen Outside Lanes From Candler Dr. to Hulen St.



Project includes:

Expanding Alsbury from two lanes to four lanes and adding a 10' shared use path on the north side



Funding:

\$3.9 Million City funding (combination of impact fee and Street Bonds)

Status:

- Construction underway
- Railroad scheduling crossing improvements





Project Progress

Progress 60%

Estimated Completion of Current Phase Fall 2025



ST2305 Renfro & Johnson Pedestrian Improvements



Project includes:

- Original project: sidewalk improvements and crosswalks along Renfro Street from Johnson Avenue to Wilson Street
- Re-surfacing of Renfro from Wilshire to Johnson and sidewalk NW of SH174

Funding: Staff evaluating funding availability \$192 Thousand TIF

- Project expanded by 2/20 CC to include sidewalk connection north of SH174
- Engineering Services Contract Ongoing





ST2306 Hulen Street Widening - SH 174 to Candler & 16" Waterline



Project includes:

- Three northbound lanes, three southbound lanes, dual left turn lanes and one right-turn lane at SH 174 intersection
- Hulen expansion from two lanes to 4-6 lanes within ultimate 6-lane rightof-way
- 10' shared use path on each side
- 16" waterline and sewer extensions
- Signalization of Candler and Hulen intersection

Funding:

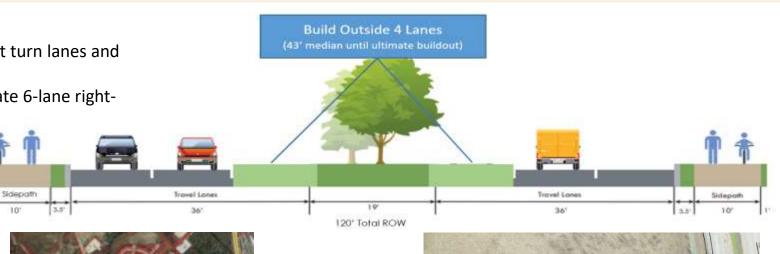
- \$15.7 Million Street & Drainage Bond Funds
- \$9.5 Million 2022 GO Bond Funds
- \$3.9 Million Water Bond Funds
- \$880 Thousand Non-Bond Capital
- \$1.5 Million Roadway Impact Fees

Status:

March 3rd: Council update

Design

Design to continue







Estimated Completion of Current Phase Summer 2026



ST2309

Village Creek Parkway Expansion

(Including Tarrant Co. Bond)



Project includes:

Reconstruction of existing 2-lane undivided asphalt section to 4-lane divided concrete section with median, curb & gutter, storm drainage, street lighting, sidewalk, & 10' shared use trail on east side

Funding:

- \$3 Million City Funding (Impact Fees & Non-Bond Capital)
- \$2.5 Million Tarrant County Bond (50% match)
- \$500 Thousand Discretionary funds Tarrant County Commission Precinct #1

- Design is 90% complete
- Utility relocation coordination and 10' shared use path permitting ongoing
- Design completion anticipated Spring 2025 with construction to begin Summer 2025





ST2350 Neighborhood Street Rebuilds FY23



Project includes:

Project Status

Construction

- Pavement repair by various methods based on condition of existing street pavement
- Various streets identified in 2022 GO Bond, a portion of which will be completed each year

Funding:

- \$2.9 Million Water and Sewer Bond Funds
- \$300 Thousand Street and Drainage Bonds

Status:

- Staff has identified streets from 2022 GO Bond list (pink) as well as additional neighboring streets in poor condition (red)
- Sanitary sewer beneath most of the streets is also in need of replacement, will leverage sewer rehab funds to extend project impact (sidewalk repairs also being evaluated)

Project Progress

Progress 95%



Spring 2025

3.5 Million

ST2360 Sidewalk Program FY23 (Pleasant Manor)



Project includes:

- 6' wide sidewalk within existing right-of-way between Crossroads Learning Center and Metroplex Family Church
- Heritage Village Trail pedestrian bridge to Lynnewood Ave.

Funding:

• \$125 Thousand 2022 GO Bond Funds

Status:

• In-house design on going





Project Progress

Progress 50%

Estimated Completion of Current Phase Spring 2025



ST2503 Hillside Drive, Elk Drive & John Jones (FM731) Ped & Intersection

Project includes:

- Design & construction for an additional 4 and 5 footwide sidewalk on Elk Drive and an additional 10-foot wide trail on Hillside Drive
- Also includes intersection enhancements to improve mobility at Elk and Hillside & Hillside and FM731 and intersection improvements at FM731

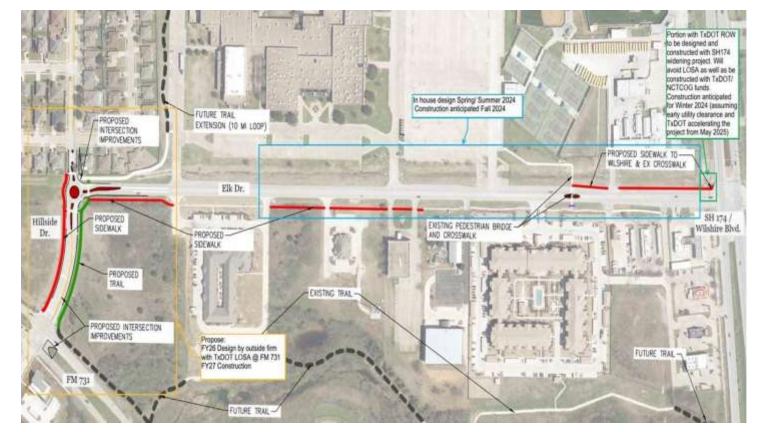
Funding:

• \$1.036 Million 2022 GO Bond

Status:

Project has been split into 3 components:

- Elk sidewalk within SH174 widening project
- Elk sidewalk from high school to Wilshire under design
- Remaining Elk, Hillside, and FM731 work planned for FY26/27





Total Project Cost

THE CITY OF



TR2201

Traffic Signal Improvements (ITS) SH174 SH174 & City Wide



Project includes:

Signal Infrastructure Upgrades, Traffic Management Center, and CCTV Cameras

Funding:

- \$2 Million City funding (GO Bond Funds)
- \$1.5 Million Street Bonds

Status:

- Council approved July 2024
- Construction on-going





Project Progress

Progress 60%





TR2301 Traffic Signal Alsbury HSIP Grant



Project includes:

Signal Infrastructure Upgrades and CCTV Cameras at 7 intersections along Alsbury Blvd. (John Jones (FM731), Summercrest Blvd., Renfro St., Heberle St., Hemphill St., and both I-35 signals)

Funding:

- \$93 Thousand City Funding (GO Bond Funds)
- \$743 Thousand TxDOT G-Match HSIP Grant to cover 80% of project

Status:

- TxDOT Pre-Construction meeting held April 3rd
- Anticipate TxDOT construction to begin October 2024





Project Progress

Progress 75%

Estimated Completion of Current Phase Spring 2025



TR2303 Traffic Signal – Hidden Creek & Gardens



Project includes:

This project will design and install a traffic signal at the intersection of Hidden Creek Parkway and SE Gardens Blvd

Funding:

- \$50 Thousand Non-Bond Capital
- \$550 Thousand Street and Drainage Bonds

Status:

- Design completed in November 2023
- Construction contract awarded and contractor is procuring materials
- Construction underway

Project Status

Construction



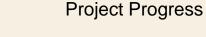
Total Project Cost

Estimated Completion

of Current Phase

Spring 2025





Progress 85%

Slide 35

WA2301

Industrial Pump Station Exp. & Alsbury Pump Station Decommissioning



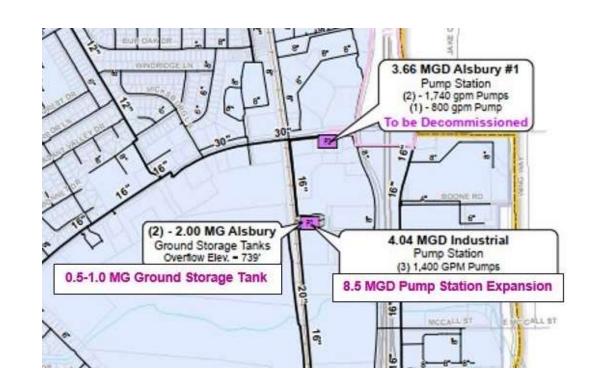
Project includes:

- Expansion of the Industrial Pump Station to serve the Lower Pressure Plane
- Decommissioning the Alsbury #1 Pump Station
- New 1.0 MG Ground Storage Tank

Funding:

\$17.6 Million Water Bond Funds

- Preliminary design underway (90%)
- Right-of-Way / Property acquisition underway





WA2302 Willow Creek 12" Water Line Looping



Project includes:

- Construction of a 12" water line from the existing 12" water line on Fairway View Drive to the future Mountain Valley Ph 3
- Improve looping and available fire flow to Upper Pressure Plane
- Eliminate a 12" dead end line

Funding:

\$930 Thousand Water Bonds Funds

- Preliminary design underway (90%)
- Right-of-Way / Property acquisition underway





WA2306 FW I – 35W Water Line Extension



Project includes:

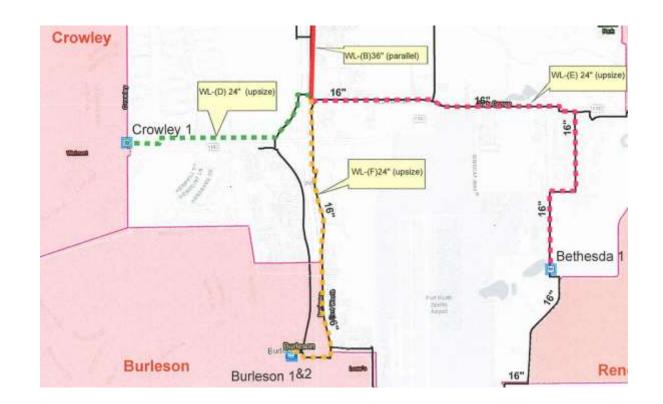
Design and construction of a 24" water pipeline to increase the City's water volume on east side entry-point from 2MGD to 13MGD

Funding:

\$16.3 million in water and sewer bonds

Status:

60% plans received in August 2024 and is currently under review





WA2403 8" Village Creek and 8" CR715 Looping



Project includes:

Design and construction of three waterlines to improve water reliability

Funding:

\$1.4 million in water and sewer bonds

- Proposal received from Consultant
- Coordinating with Developer of High Country Phase 2





WA2405 Summercrest Rehabilitation



Project includes:

- Reconstruction of Summercrest pavement from BRiCk to Hillside with concrete pavement.
- Reconstruction of water and sewer facilities

Funding:

Water and Sewer Bond Funds Street Bonds

- Under design by city staff.
- Anticipate construction during winter months 2024/2025







Trunk Relief Sewer Line (Town Creek Basin Parallel)



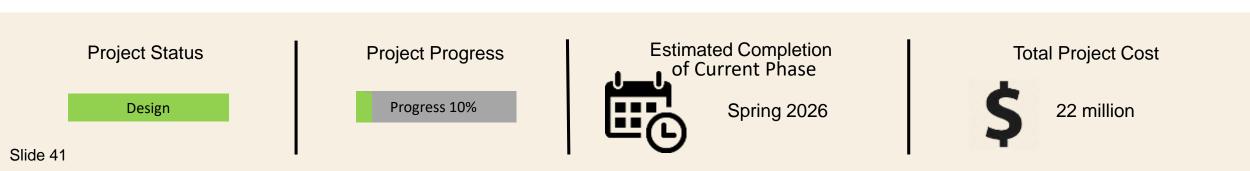
Project includes:

Design and construction of a 36"-48" parallel sanitary sewer pipeline along Village Creek.

Funding: \$22 Million Sewer Bond Funds

lel

- Preliminary design report received from consultant
- City staff directs the consultant to move to the Alternate 1-Parallel Interceptor for the design



17389

Parallel 24in Sewer Village Creek to Oakbrook Dr. (w/ Bear Ridge & The Lakes)



Project includes:

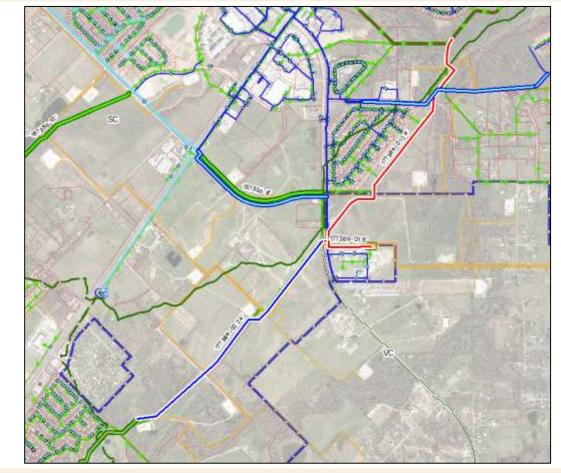
Sewer interceptor parallel to the existing 15 in. line conveying wastewater flow from the Willow Creek Basin (2 sections-Village Creek to FM 731 & FM731 to Oakbrook Dr.). This parallel line is needed to handle the additional flows as a result of growth.

Funding:

\$5.5 Million Sewer Bond Funds

Status:

Alignment Alternative Analysis underway





ww2302 Lift Station Rehabilitations



Project includes:

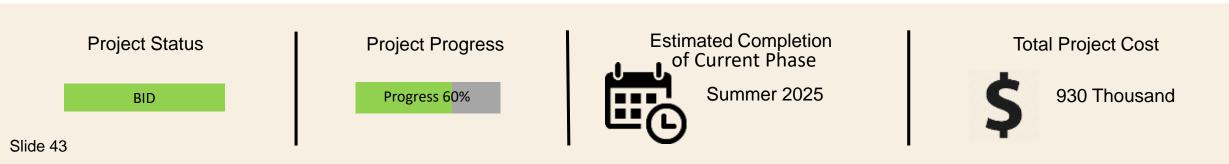
Rehabilitation of existing lift station including SCADA, emergency power, bypass, and other upgrades

Funding: \$930 Thousand Sewer Bond Funds

Status:

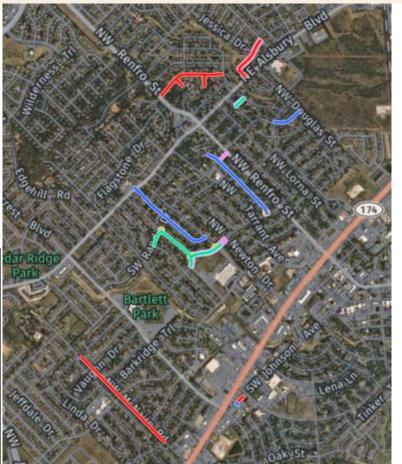
Project being rebid due to cost above budget.





WW2390 Water & Sewer Line Rehabilitation FY23





Project includes:

Replacement of main water and sanitary sewer lines beneath streets with pavement repair by various methods for the full width of the street

Chisholm Ct.

- Selected streets with water and sewer rehab elements for single construction contract
 - SW Rand Dr.
 - NW Ann Lois Ln.
 - SW Murphy Rd.

NW Chisholm St.

- NW James Cir. NW Barbara Ln.
 - □ NE Timber Ridge Dr.

NE Michael Dr.

Given Series Ct.

Funding:

\$6.6 Million Sewer Bond Funds

Status:

Construction nearly complete with final paving restoration taking place

□ Short St.

SW Johnson Ave.

(sewer crossing only)

Project Status

Construction

Project Progress

Progress 95%



Spring 2025

Estimated Completion

Total Project Cost



WW2401 SE Tarrant Sewer Erosion Control



Project includes:

Design and construction of an erosion control measure and raise SE Tarrant Street to be closed less during rain events.

Funding:

\$1.1 million in water and sewer bonds



- Preliminary hydraulic findings report received from consultant and under review
- Environmental study received from consultant and under review



Drainage Improvements – Ongoing Efforts



Key Benefits

- Improved water flow
- Reduced risk of blockages
- Enhanced overall drainage system performance

Project Highlights

- Lorna St. Cleared and improved drainage channel
- Booger Creek (near Warren Park) – Restored water flow and mitigated potential flooding risks







Road Improvements



Recent road improvement projects have successfully enhanced roadway conditions and improved drivability across key areas of the city.

Projects Completed:

- NW Renfro @ Silver Ridge
- 1200 Blk of Hidden Creek
- Portions of Hidden Vistas
- 200 Blk of Alsbury @ Newton
- Hidden Creek Parkway @ Lisa St







Questions Comments

Randy Morrison, PE Director of Capital Engineering rmorrison@burlesontx.com



Capital Engineering