

Public Works and Engineering Update

City Council
July 11, 2023

The logo for the City of Addison, featuring the word "ADDISON" in blue capital letters inside a white circle, which is set against a blue background with a white diagonal line.

ADDISON



PUBLIC WORKS & ENGINEERING SERVICES

Organizational Chart 37 Full Time Employees



Shannon Hicks
Director



Todd Weinheimer
Assistant Director

- 37 Signalized Intersections
- 167 Lane Miles of Roadway
- Over 5,000 Signs
- 10.5 Million Gallons of Water Storage
- 96 Miles of Water Mains
- 1,100 Fire Hydrants

- 76 Miles of Storm Water Mains
- 72 Miles of Sanitary Sewer Mains
- \$100 Million in Bond Projects
- \$8.9 Million in Annual Operational Funds



Operations and Maintenance

Operational Projects

- Currently painting Wheeler (Arapaho) Bridge rails, swoops, and arches.
- Completed annual pavement markings project.
- Integrated school flashers for use in Waze.
- Ordered RRFBs for Redding Trail crossings.
- Road closures for special events including special signal timing for KaboomTown coordinating with Cities of Dallas and Carrollton.
- Conducting preventative maintenance on traffic signal cabinets and battery backup units.



Pavement and Asset Assessment with Fugro

- Item is on tonight's consent agenda.
- Condition analysis last performed in 2017 with Fugro and created the baseline data in the asset management software.
- Town wide assessment will cover 130 miles of roadways.
- All Town owned streets to be assessed and provided an updated Pavement Condition Index and International Roughness Index Score.
- Will provide Right-of-Way and pavement images, pavement data collection, asset extraction services for signs, ramps, and sidewalks.



Pavement and Asset Assessment with Fugro

- Staff would like to perform this task now in order to have the most complete information due to the potential for a new bond program in 2024.
- Staff can compare 2017 conditions to current to help focus maintenance and predict life expectancy.
- If approved, staff will include the \$82,500 in funding for this project from the Self-Funded Special Projects Fund in the year-end budget amendment.



Operational Projects

Fire Hydrant Inspections

- Flow testing, hydrant flushing, and making any necessary repairs
- Completed 1,100 fire hydrant inspections in FY22
- Next round of inspections will begin in the summer of 2023

Fire Hydrant Painting

- Painting fire hydrants “Addison Blue” and adding reflective collars for better visibility at night
- Painted one-third of the Town’s fire hydrants in FY22 and completed another third in FY23

Valve Maintenance Program

- Town staff is operating and inspecting mainline valves throughout the Town.
- The goal is to exercise every valve annually.



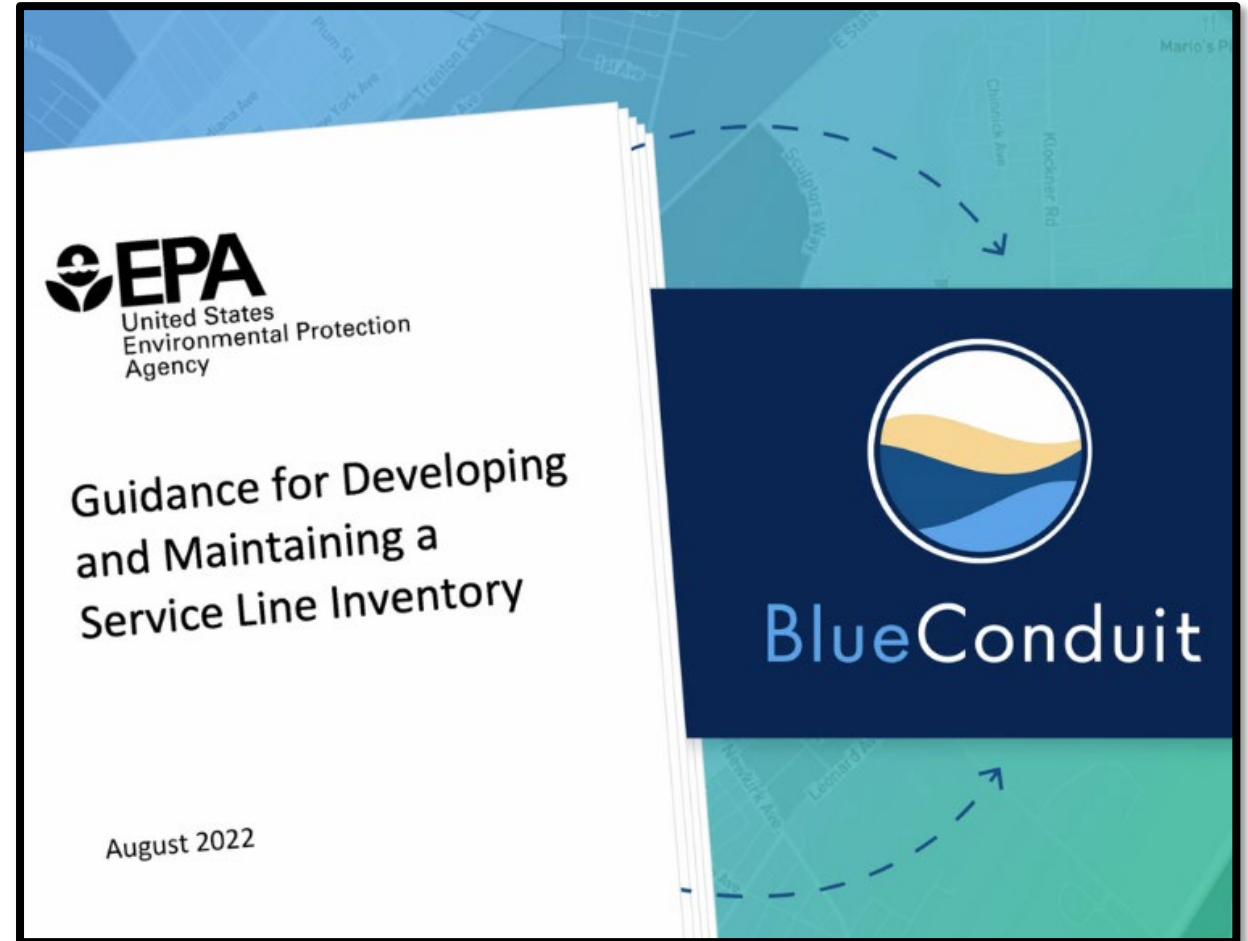
Operational Projects

- Received new rodder truck that will be used to clean sewer pipes.
- Inspecting sewer lines with CCTV and cleaning as needed.
- Completed eight manhole rehabilitations in FY23.
- Started Non-Destructive Testing of Redding Trail Water Main.
- Began Water and Wastewater CIP Validation, wrapping up in summer 2023.



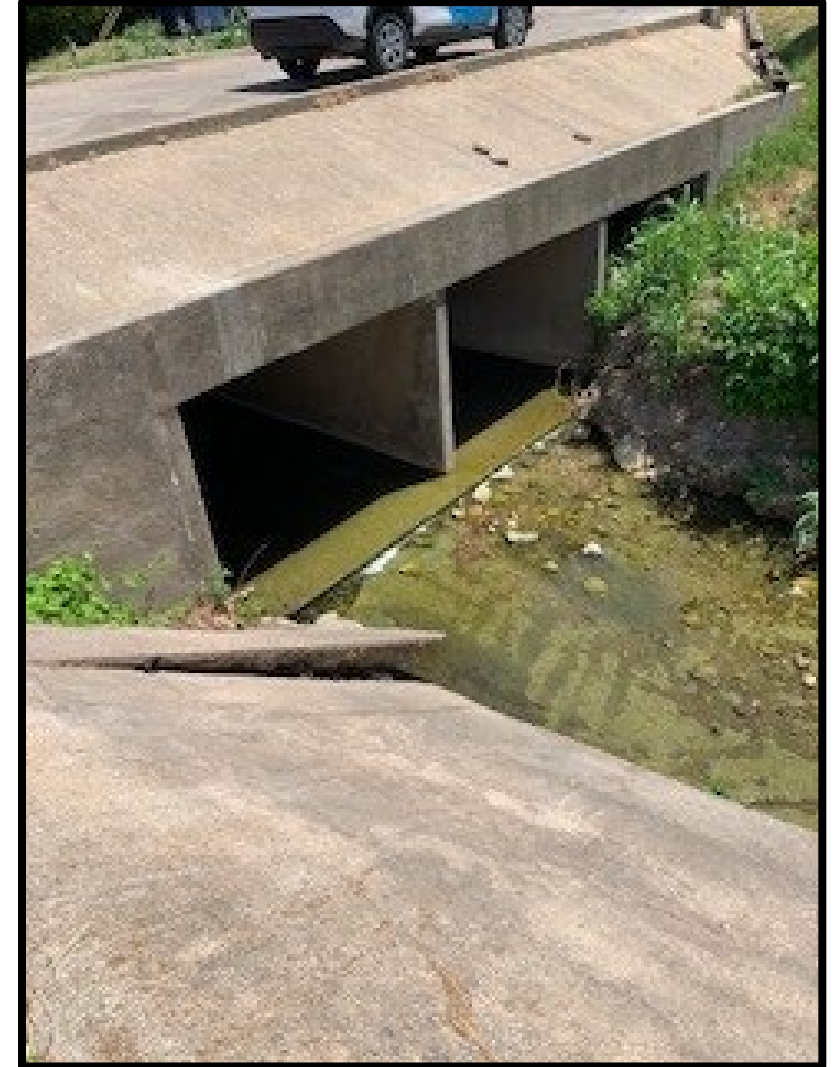
Operational Projects

- Purchased and installed two new water quality analyzers to replace outdated units.
- Began EPA mandated Lead and Copper Rule Revisions (LCRR), requires to prepare and maintain an inventory of service line materials.



Operational Projects

- Completed year three of the Town's five-year Municipal Separate Storm Sewer System (MS4) permit with Texas Commission on Environmental Quality
- Hosted Earth Day and Sustainability Day Events
- Creating Town owned drainage ditch maintenance plans and annual maintenance plan.
- Inspected and cleaned of a parallel channel on Midway Road. Design for rehab of this channel is underway.



Operational Projects

- Stormwater post-construction Best Management Practices (BMP) Ordinance Update as required by State regulations.
- Completed Celestial Place stormwater repairs, will be repairing pavement areas that were damaged due to infiltration.
- Completed the Blower upgrade in GapVax Truck.



Major CIP and Bond Projects

Major CIP and Bond Projects

Under Construction Projects

Rawhide Creek ADA and Drainage Improvements

- Began Construction in Mid-November 2022, anticipate completion in Fall 2023.
- Coordinated with homeowners with driveway replacements for ADA compliance.
- Currently restoring residential areas, underground detention facility to be installed in trail area.
- Project Budget \$3.3M

Surveyor Pump Station Electrical Upgrades

- Construction awarded by City Council in March 2023
- Anticipate 6 months of construction.
- Construction is delayed due to a year long lead time for electrical components.
- Project Budget \$1.2M



Under Construction Projects

Traffic Signal and ADA Improvements

- Currently under contract
- Long lead times on traffic signal poles have delayed the start of construction
- Anticipate start of construction in summer 2023 at the Sojourn Drive and Addison Road intersection.
- Project Budget \$1.5M

Lake Forest Drive Water and Sewer Improvements

- Bid for construction in February 2023, no bids received.
- City Council approved additional funding and construction utilizing the Town's IDIQ contract in June 2023.
- Anticipate 5 months of construction.
- Updated Project Budget of \$1.5M



Under Construction Projects

Midway Road Reconstruction

- Northbound lanes from Belt Line to Proton are under construction.
- Anticipate major paving operations south of Belt Line Road to be completed by summer 2023.
- Contractor will transition to sidewalks, medians, lights, and other amenities.
- Major paving operations north of Belt Line have begun from Keller Springs to Dooley Road.
- Current Estimated Costs \$41.1M



Recently Completed Projects

Alpha Road Connector Project

- Project Costs \$3.5M
- Project Budget \$3.6M

Vitruvian Park Public Infrastructure Phase 9 Block 701 Sewer and Water Improvements

- Project Construction Cost \$765K
- Vitruvian Phase 9 Budget \$2.6M



Upcoming Projects

Keller Springs Road Reconstruction

- Working on ROW and easement acquisitions
- Opened proposals for construction in November 2022
- Recommending to reject the two proposals that were received due to them being over the project budget.
- Town staff and the design engineer have worked together to implement ways to reduce the project cost and make the proposals more competitive.
- RFP has been reissued and proposals were opened June 29th.
- Project selection committee will evaluate the proposals.
- Project Budget \$12.9M.



Major CIP and Bond Projects

Upcoming Projects

Quorum Drive Reconstruction

- Council awarded Teague Nall and Perkins as the design engineer in June 2023.
- Have began preliminary designs.
- Anticipate design to take 18 months.
- Project Budget \$27.6M

Montfort Drive Reconstruction

- Council awarded Kimley-Horn and Associates as the design engineer in April 2023.
- Have began preliminary designs.
- Anticipated design to take 12 months.
- Project Budget \$7.3M

Airport Parkway Reconstruction

- Currently at 95% design, design completion will conclude once Keller Springs is close to ending construction.
- Working on ROW and easement acquisitions
- Project Budget \$9.4M



Major CIP and Bond Projects

Vitruvian Phase 9, Block 701 Streetscape and Trail Improvements

Project Location

Vitruvian Park Public Infrastructure Phase 9, Block 701, these Townhomes are located at the northeast corner of Vitruvian Way and Bella Lane and is a part of the Vitruvian Development.



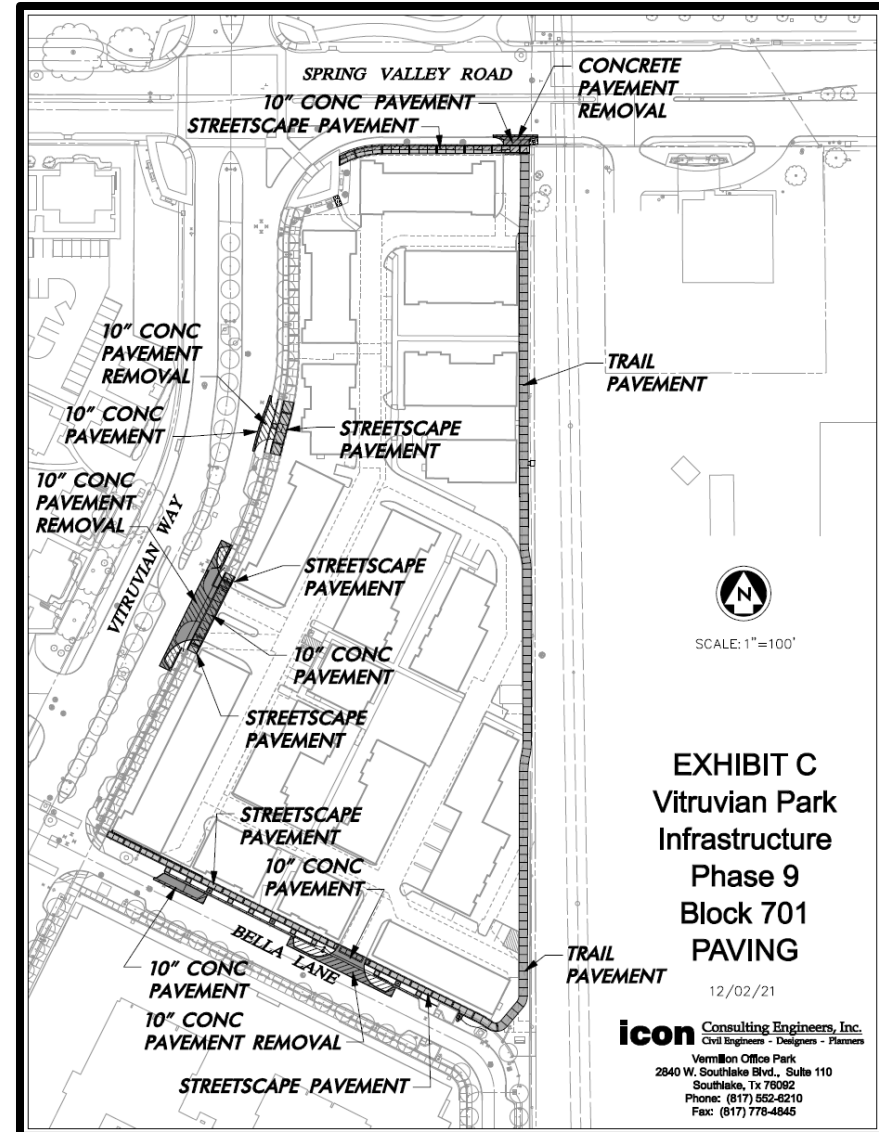
Major CIP and Bond Projects

ADDISON

Vitruvian Phase 9, Block 701 Streetscape and Trail Improvements

Project Scope of Work

The scope of work for this project will include demolition of existing pavement and street lighting, construction of new pavement, enhanced sidewalks, street lighting, enhanced sidewalks, street lighting, holiday lighting, landscape planting, and irrigation.



Vitruvian Phase 9, Block 701 Streetscape and Trail Improvements

Funding and Budget Information

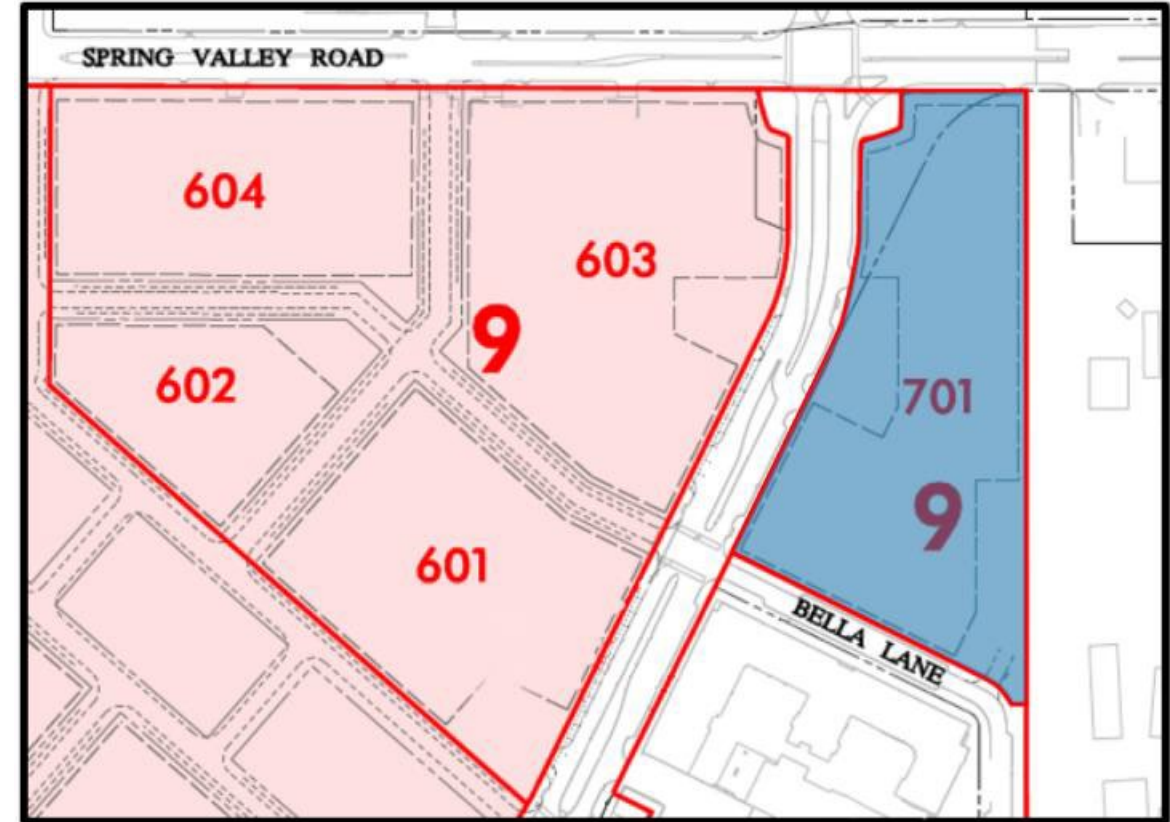
Funded out of the \$2,625,618 allocated for Phase 9 in the Master Facilities Agreement with UDR.

The Master Facilities Agreement provides the allocation of these funds to design and construct public infrastructure to support the private development.

\$837,973.02 has been spent to date so far for the water and sanitary sewer installation servicing block 701.

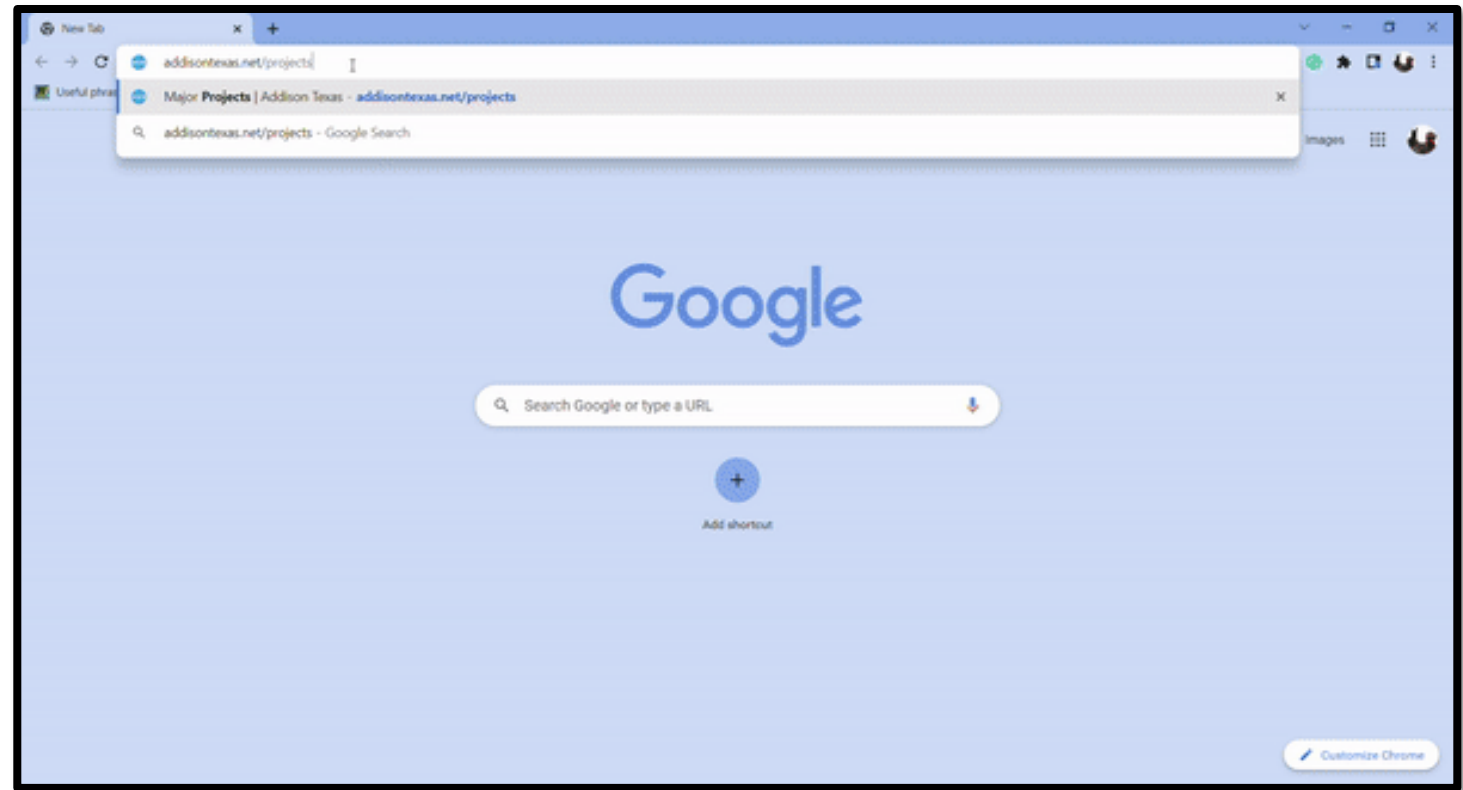
Recommending construction contract award on tonight's consent agenda items to Dean Electric for \$659,872.48.

If construction contract is awarded it will leave \$1,127,772.50 in public funds remaining for Phase 9.



Projects Updates Website

- Project updates can be found at addisontx.net/projects
- Website has list of many projects across multiple departments.
- Scan the QR code below for the link!



Questions?