



GARLAND

ENGINEERING

2021
CAPITAL IMPROVEMENT PROGRAM

MICHAEL C. POLOCEK, P.E., DIRECTOR

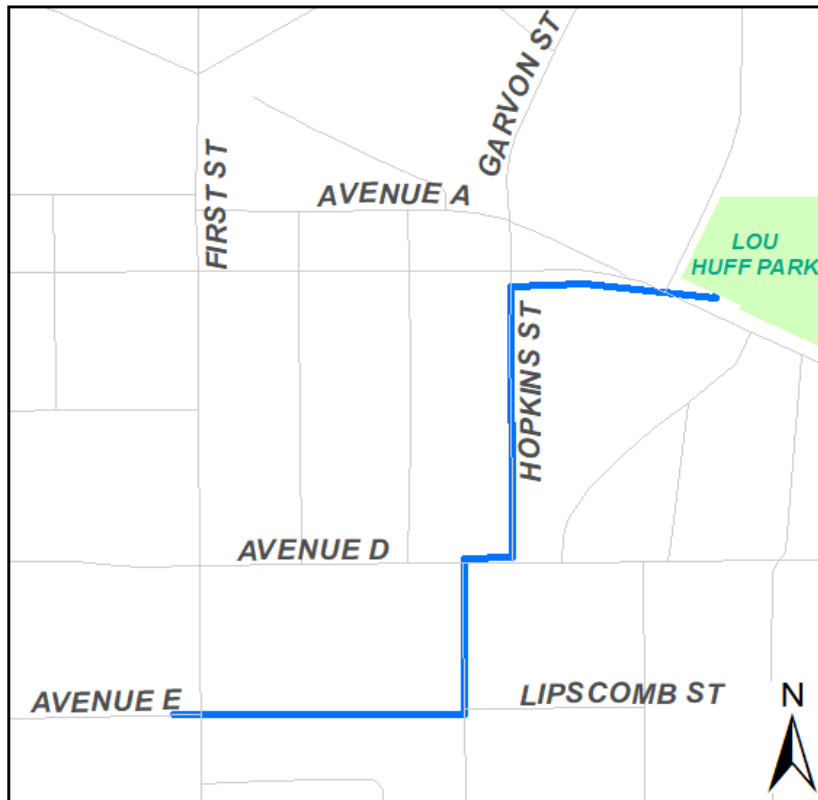


GARLAND

STREET PROJECTS
**(2004 Bond Program &
Cert. of Obligation)**

Fifth Street – Miller Rd. to Avenue D - Drainage

2021 Project Cost:	\$2,160,000
Total Project Cost:	\$9,795,000
Estimated Completion Date:	12/2022
Council District:	2

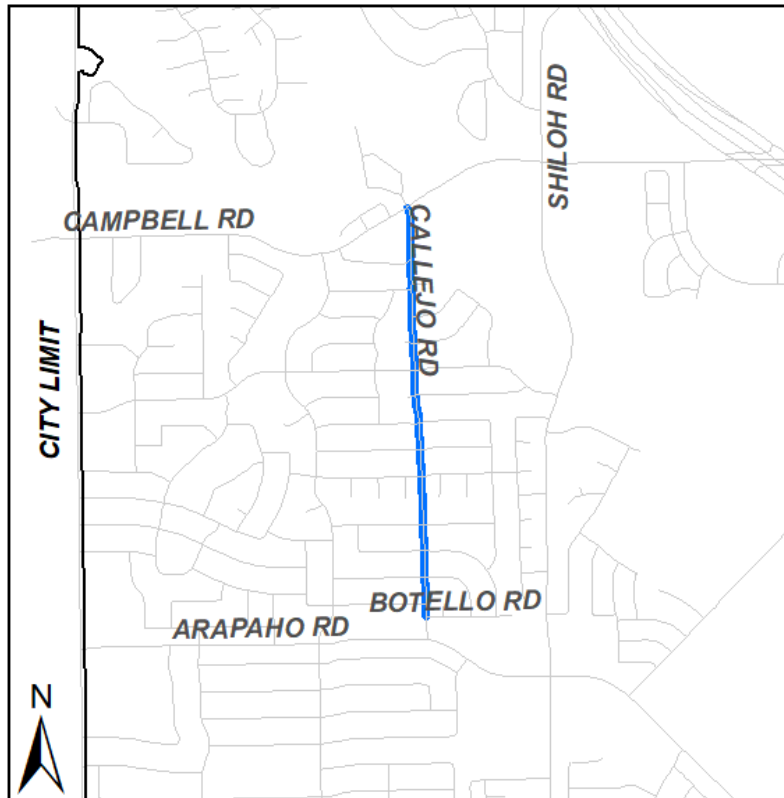


Drainage Improvements

- Funding is provided for the design, land acquisition, and construction of offsite drainage system improvements from First Street to Avenue B.
- New drainage system is the final phase of improvements for the Fifth Street project.
- Anticipated construction to begin in 10/2021.
- 2004 Bond Funds and \$2,330,000 Unfunded Request in 2022.

Callejo Road – Botello to Campbell

2021 Project Cost:	\$1,108,000
Total Project Cost:	\$6,806,000
Estimated Completion Date:	12/2023
Council District:	7

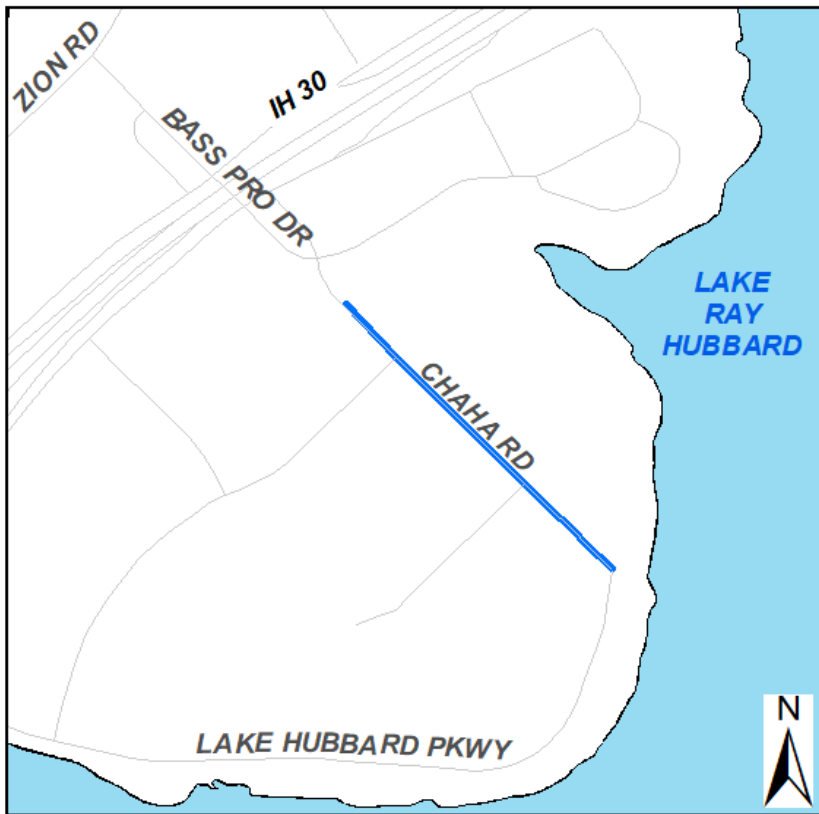


Street, Drainage, and Utility Improvements

- Funding is provided for the design, land acquisition, permitting, and construction improvements for Callejo Road.
- Anticipated construction to begin in 05/2022.
- 2004 Bond Funds and \$16,000 Unfunded Request in 2023.

Chaha Road – I.H. 30 to Lake Ray Hubbard Pkwy.

2021 Project Cost: \$3,550,000
Total Project Cost: \$4,928,000
Estimated Completion Date: 12/2021
Council District: 3

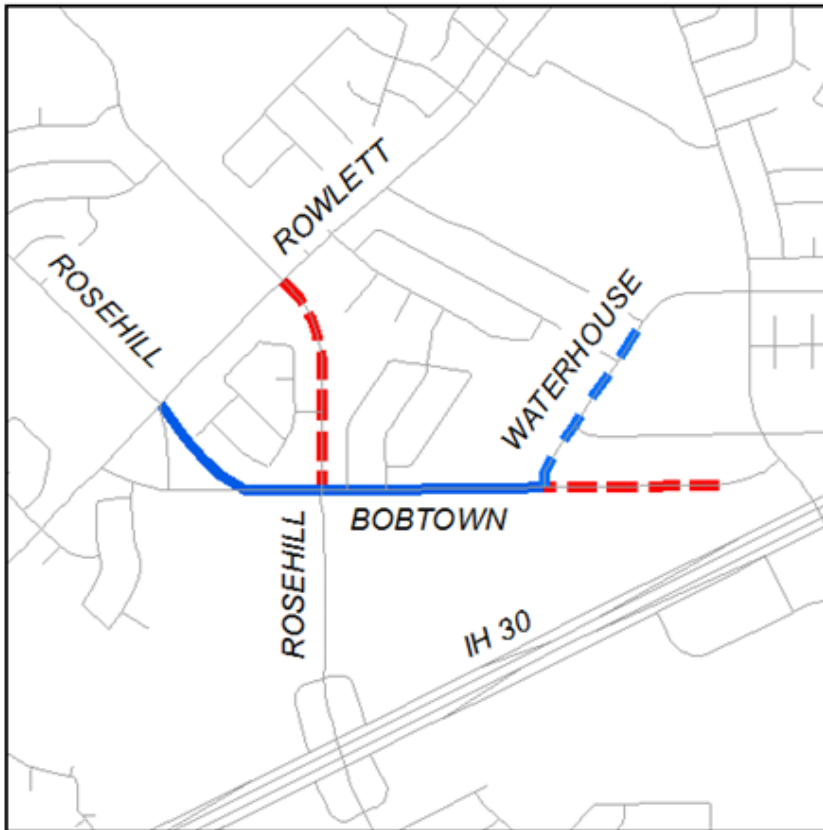


Street, Drainage, and Utility Improvements

- Funding is provided for the design, land acquisition, and permitting for Chaha Road from Bass Pro Drive to Lake Ray Hubbard Parkway.
- Anticipated construction to begin in 01/2022.
- 2004 Bond Funds.

Bobtown Road – Rowlett to Waterhouse

2021 Project Cost:	\$2,954,000
Total Project Cost:	\$6,244,000
Estimated Completion Date:	12/2021
Council District:	3, 4

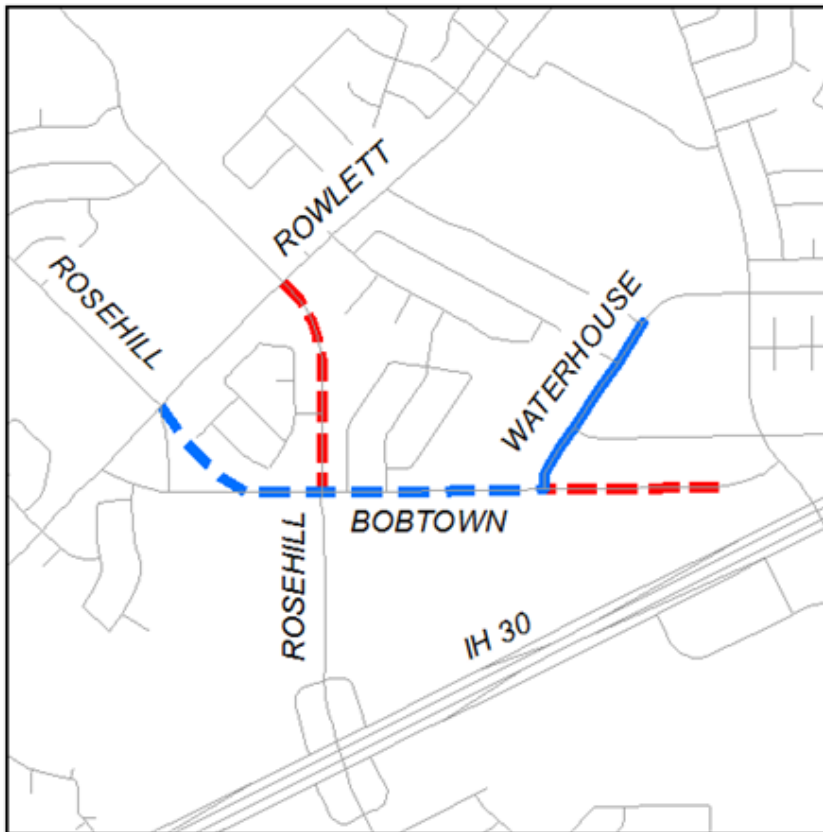


Street, Drainage, and Utility Improvements

- Funding is provided for the design and construction of a Type “ES” (three-lane undivided) thoroughfare for Bobtown Road from Rowlett to Waterhouse.
- Installation of a new 24” water main on Country Club Road and Bobtown Road.
- Project is under construction.
- 2004 Bond Funds and Impact Fees.

Waterhouse – Bobtown to Hayman

2021 Project Cost:	\$840,000
Total Project Cost:	\$1,888,421
Estimated Completion Date:	12/2021
Council District:	3, 4

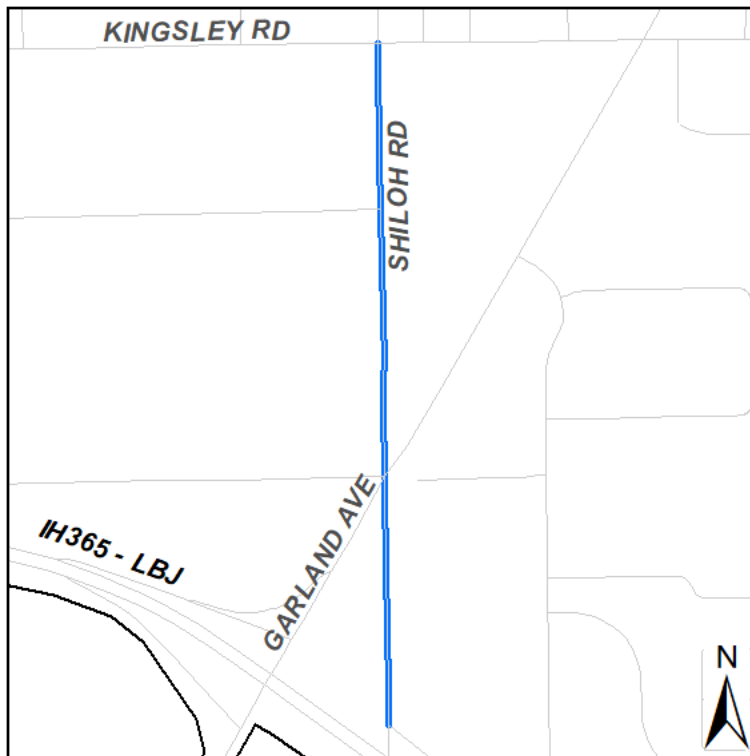


Street, Drainage, and Utility Improvements

- Funding is provided for design and construction of Waterhouse Boulevard from Bobtown to Hayman from a two-lane asphalt to a wider two-lane concrete roadway.
- Funded through COs. Requesting \$288,000 in 2021 COs to complete this project.
- Project is under construction.

Shiloh Road – I.H. 635 to Kingsley

2021 Project Cost:	\$9,377,000
Total Project Cost:	\$30,492,000
Estimated Completion Date:	12/2022
Council District:	5



Street, Drainage, and Utility Improvements

- Funding is provided for the continued construction costs related to the improvement of Shiloh Road from a 4-lane to a 6-lane divided thoroughfare.
- Dallas County agreed to fund a total of \$10,100,000 for this project.
- 2004 Bond Funds, COs, and Impact Fees.

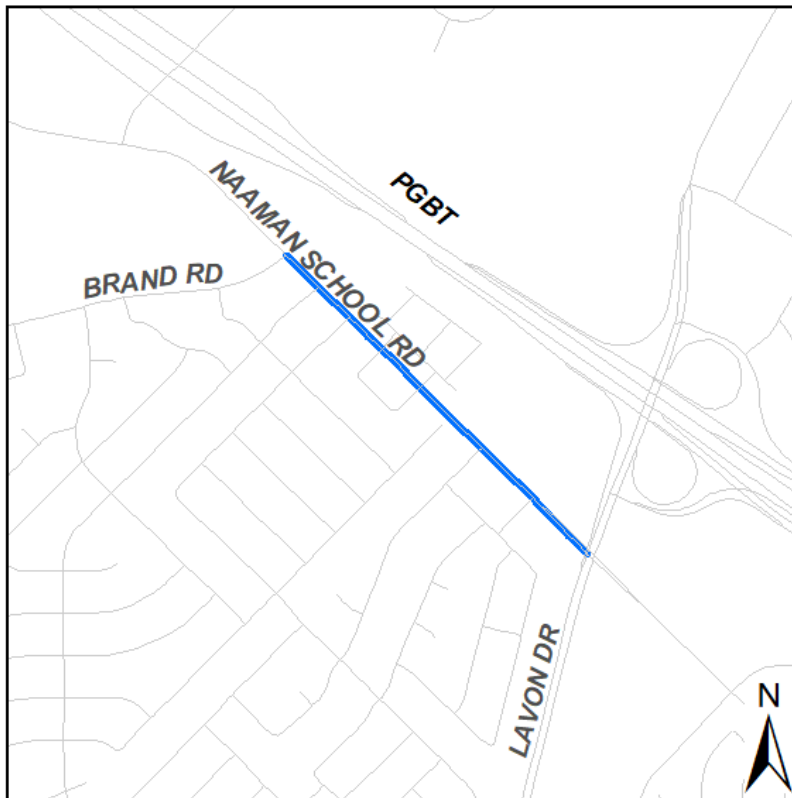


GARLAND

STREET PROJECTS
(2019 Bond Program)

Naaman School Road – Brand to S.H. 78

2021 Project Cost:	\$7,112,000
Total Project Cost:	\$32,654,000
Estimated Completion Date:	02/2024
Council District:	1, 8

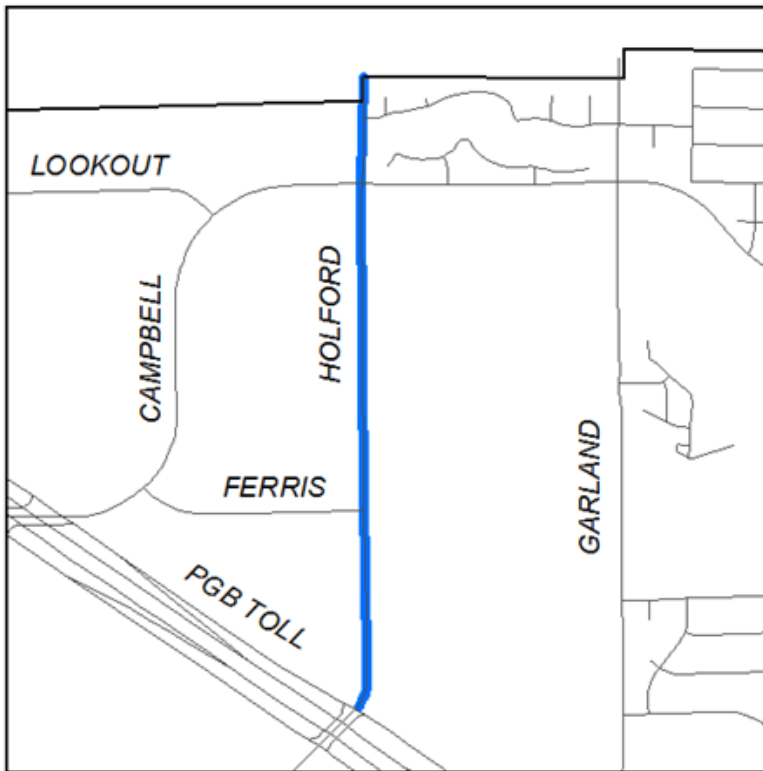


Street, Drainage, and Utility Improvements

- Funding is provided for the design, land acquisition, and permitting costs related to the improvement of Naaman School Road from a 2-lane asphalt road to a 4-lane divided thoroughfare.
- A multi-use trail will be included in the design.
- Dallas County agreed to fund \$5,200,000.
- Anticipated construction to begin in 02/2022.

Holford Road (Segment A) – PGBT to Creekwood

2021 Project Cost:	\$3,280,000
Total Project Cost:	\$15,208,000
Estimated Completion Date:	10/2022
Council District:	1

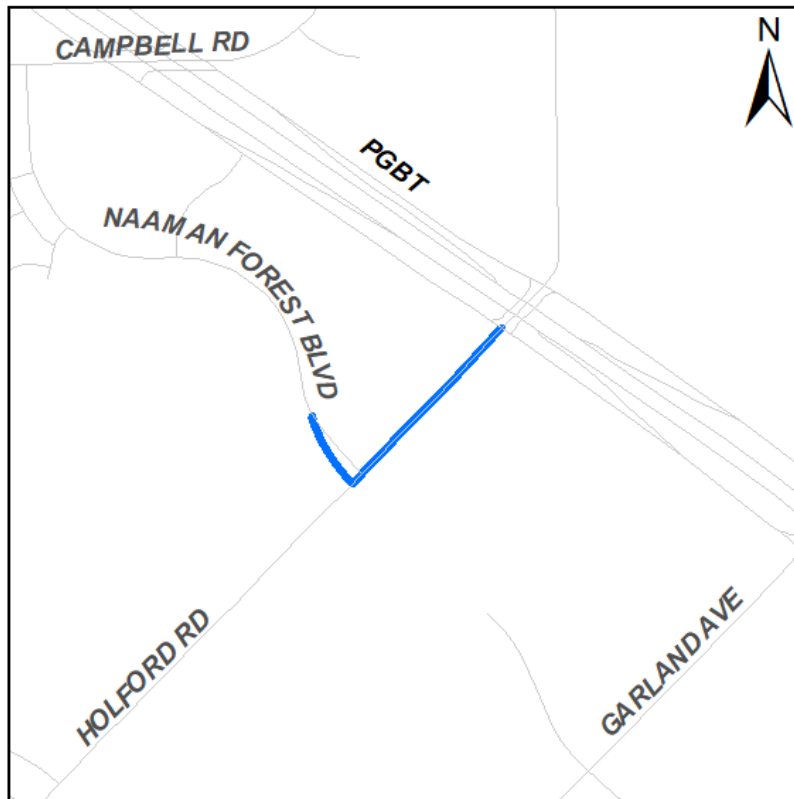


Street, Drainage, and Utility Improvements

- Funding is provided for the design and permitting related to the improvement of Holford Road from the PGBT to Creekwood Drive.
- A multi-use trail will be included in the design.
- 2019 Bond Funds, Impact Fees, and Developer Participation Funds.
- Dallas County committed to fund \$4,750,000.
- Anticipated construction to begin in 08/2021.

Holford Road (Segment B) – Naaman Forest to PGBT

2021 Project Cost:	\$123,000
Total Project Cost:	\$5,529,000
Estimated Completion Date:	2/2024
Council District:	1

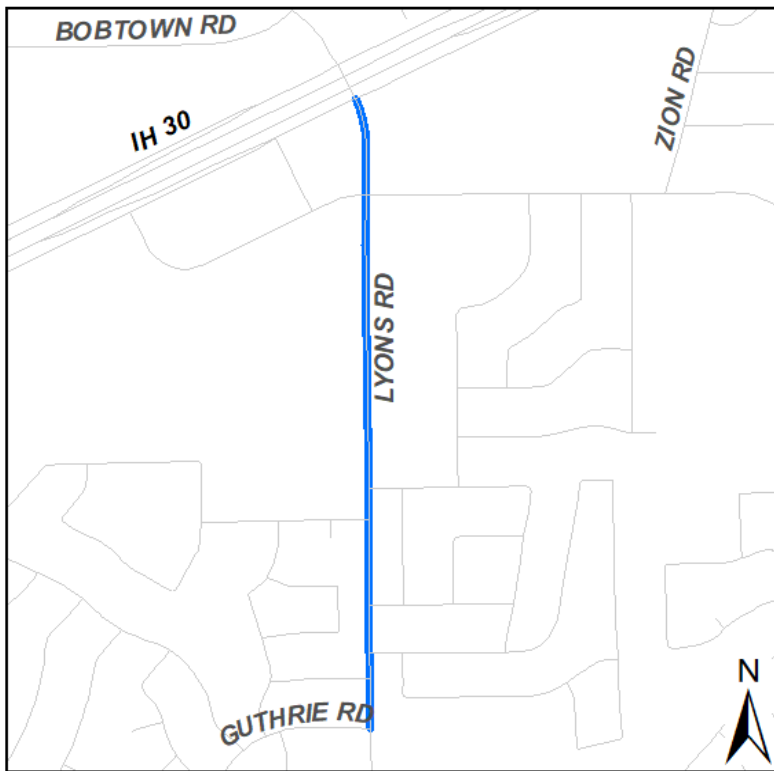


Street, Drainage, and Utility Improvements

- Funding is provided to begin design on the improvements of Holford Road from Naaman Forest Boulevard to the PGBT.
- A multi-use trail will be included in the design.
- 2019 Bond Funds and Developer Participation Funds.
- Dallas County agreed to fund \$1,460,000.
- Anticipated construction to begin in 02/2023.

Lyons Road – I.H. 30 to Guthrie

2021 Project Cost: \$592,000
Total Project Cost: \$11,749,000
Estimated Completion Date: 2/2024
Council District: 3



Street, Drainage, and Utility Improvements

- Funding is provided to continue design and land acquisition for the improvements of Lyons Road from a 2-lane asphalt road to a 4-lane divided concrete thoroughfare.
- 2019 Bond Funds and Impact Fees.
- Anticipated construction to begin in 02/2023.

Shiloh Road – Kingsley to Miller

2021 Project Cost:	\$1,011,000
Total Project Cost:	\$23,187,000
Estimated Completion Date:	2/2025
Council District:	5



Street, Drainage, and Utility Improvements

- Funding is provided to complete the alignment study and begin design and land acquisition for Shiloh Road from a 4-lane to a 6-lane divided thoroughfare.
- The City has secured RTC funds in the amount of \$18,750,000 for this project.
- 2019 Bond Funds and Impact Fees.
- Anticipated construction to begin in 02/2023.

SUMMARY OF CIP STREET PROJECTS

Project Name	2021 CIP Impact from Actionable Projects
Fifth Street – Miller Rd. to Avenue D - Drainage	\$ 2,160,000
Callejo Road – Botello to Campbell	1,108,000
Chaha Road – I.H. 30 to Lake Ray Hubbard Pkwy.	3,550,000
Bobtown Road – Rowlett to Waterhouse	2,954,000
Waterhouse – Bobtown to Hayman	840,000
Shiloh Road – I.H. 635 to Kingsley	9,377,000
2004 Bond & COs Subtotal	\$19,989,000

SUMMARY OF CIP STREET PROJECTS

(Continued)

Project Name	2021 CIP Impact from Actionable Projects
Naaman School Road – Brand to S.H. 78	\$ 7,112,000
Holford Road (Segment A) – PGBT to Creekwood	3,280,000
Holford Road (Segment B) – Naaman Forest to PGBT	123,000
Lyons Road – I.H. 30 to Guthrie	592,000
Shiloh Road – Kingsley to Miller	1,011,000
2019 Bond Subtotal	\$12,118,000

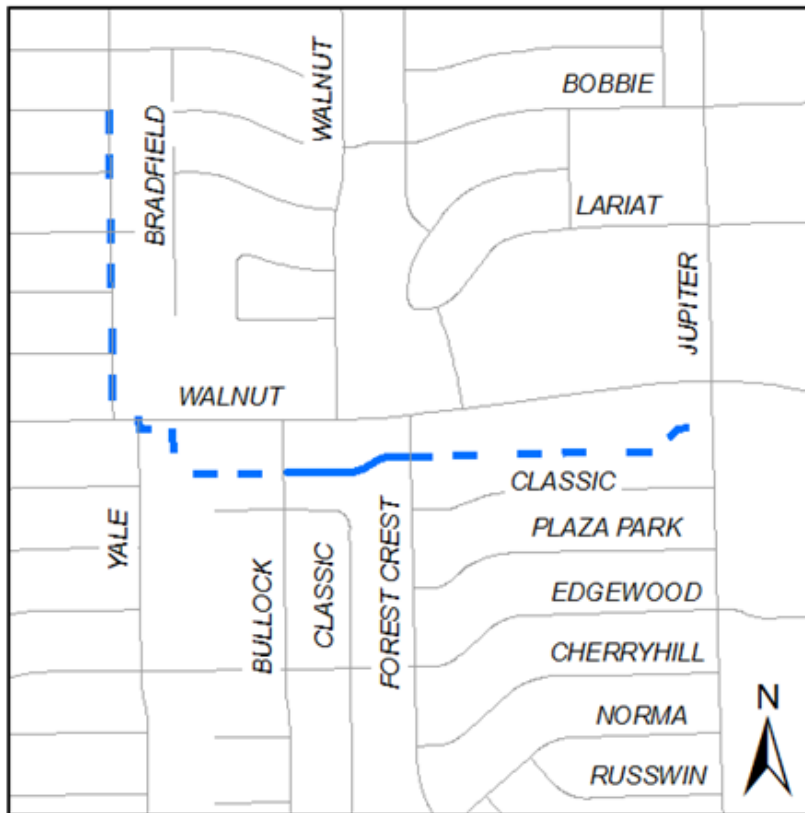


GARLAND

DRAINAGE PROJECTS (2004 Bond Program)

Classic Drive and Yale Drive Drainage

2021 Project Cost:	\$413,000
Total Project Cost:	\$9,050,000
Estimated Completion Date:	12/2023
Council District:	6



Drainage Channel Improvements

- Funding is provided for the continued study, design, permitting, and construction costs related to the improvement of a portion of drainage channel between Walnut Street and Classic Drive.
- City owns an alley at the top of bank on the south side of the channel that is deteriorating due to channel erosion. An existing wastewater main is also being threatened.
- 2004 Bond Funds.

Garland Heights and Freeman Heights

2021 Project Cost:	\$300,000
Total Project Cost:	\$4,200,000
Estimated Completion Date:	12/2023
Council District:	8

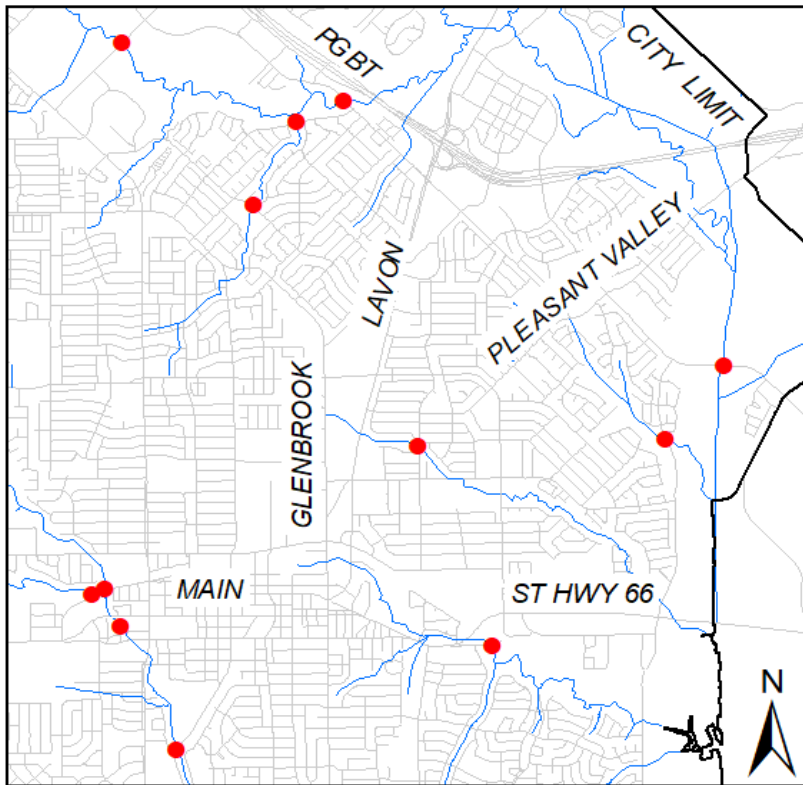


Drainage Improvements

- Funding is provided for the study, design, and easement acquisition costs related to the drainage improvements in the Garland Heights and Freeman Heights Subdivisions.
- 2004 Bond Funds.
- Anticipated construction to begin in 05/2022.

Bridge and Drainage Infrastructure Remediation

2021 Project Cost: \$3,760,000
Total Project Cost: \$10,842,000
Estimated Completion Date: 6/2022
Council District: All



Drainage Improvements

- Funding is provided for the design and construction costs related to repair of existing bridges and drainage infrastructure throughout the city.
- Bridge repairs are identified, analyzed, and then designed by reviewing the BRINSAP reports provided to the City by TxDOT every two years.
- Requesting \$898,000 in 2021 COs to complete improvements.
- Anticipated construction to begin in 06/2021.

Drainage Maintenance Program

2021 Project Cost:	\$309,000
Total Project Cost:	\$2,262,000
Estimated Completion Date:	Ongoing
Council District:	ALL

Drainage Maintenance Program

- The City has participated in numerous Drainage Improvement Districts dating back from the mid-1980s to present day.
- The improvements are the maintenance responsibility of the City, and some are now requiring repair.
- Funding is provided for a study of Spring Creek between Jupiter Road and Campbell Road to identify the structural integrity of existing gabion structures and recommend necessary repairs.
- Certificates of Obligation.
- Requesting \$30,000 in 2021 COs to complete the study.

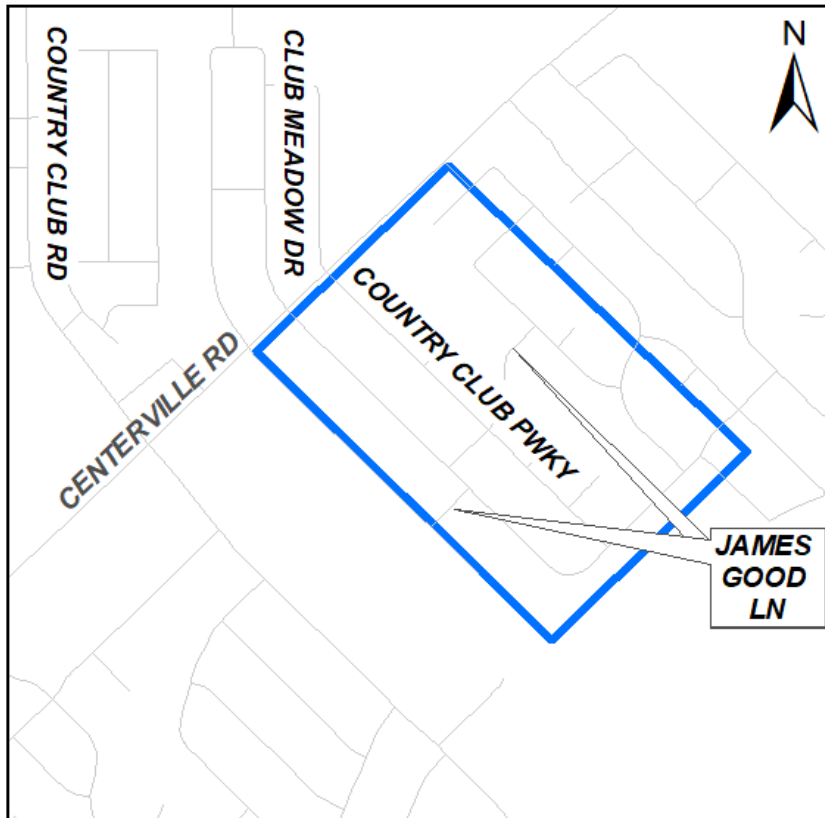


GARLAND

DRAINAGE PROJECTS (2019 Bond Program)

Country Club Park Estates Drainage Improvements

2021 Project Cost: \$346,000
Total Project Cost: \$4,270,000
Estimated Completion Date: 12/2022
Council District: 3

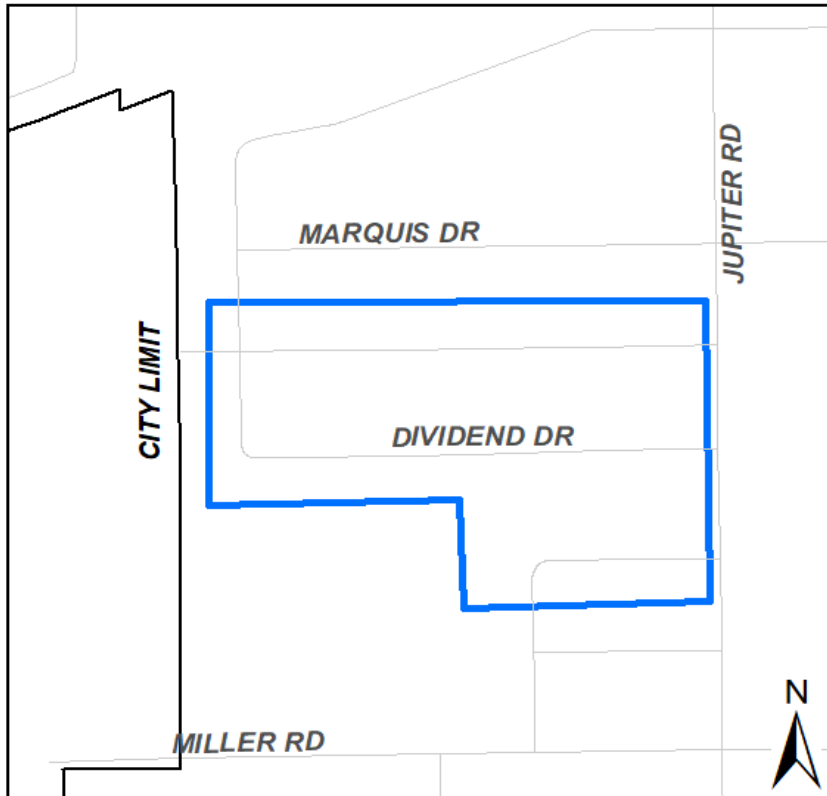


Drainage Improvements

- Funding is provided for the study and design of drainage system improvements in the Country Club Park Estates area in and around James Good Lane.
- Anticipated construction to begin in 03/2022.

Garvon West Industrial Park Drainage Improvements

2021 Project Cost: \$887,000
Total Project Cost: \$12,210,000
Estimated Completion Date: 5/2023
Council District: 6



Drainage Improvements

- Funding is provided for the study and design of drainage system improvements in the Garvon West Industrial Park area in and around Security Street, Dividend Drive, and Cavalier Drive.
- Anticipated construction to begin in 05/2022.

Lakewood Addition Drainage Improvements

2021 Project Cost: \$395,000
Total Project Cost: \$4,270,000
Estimated Completion Date: 11/2024
Council District: 8

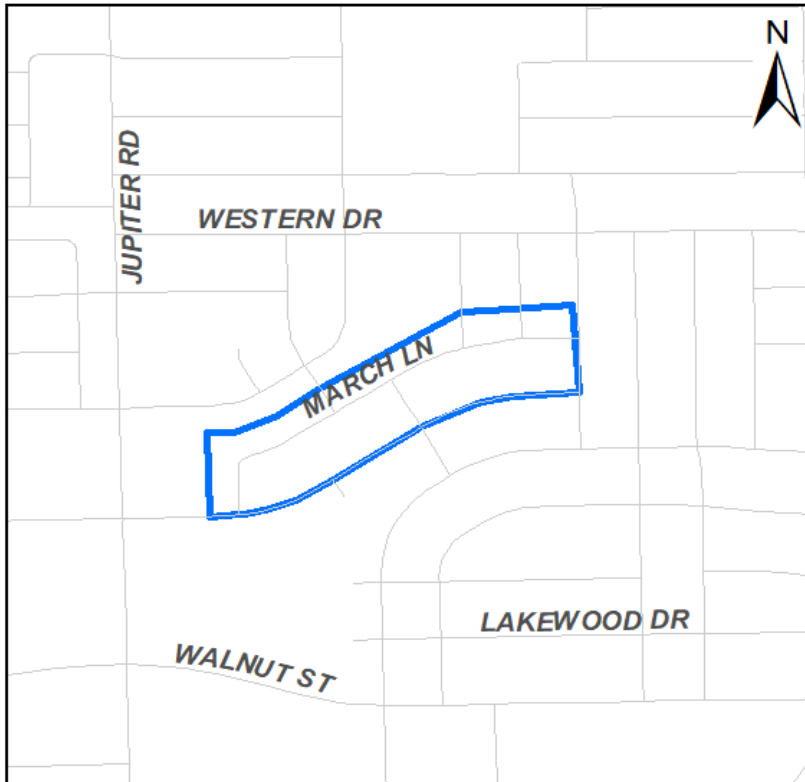


Drainage Improvements

- Funding is provided for the study of drainage system improvements in the Lakewood Addition area around Lakeside Drive, Brookside Drive, and Lakewood Drive.
- Anticipated construction to begin in 02/2024.

Western Heights No. 4 Drainage Improvements

2021 Project Cost: \$120,000
Total Project Cost: \$1,220,000
Estimated Completion Date: 11/2024
Council District: 6

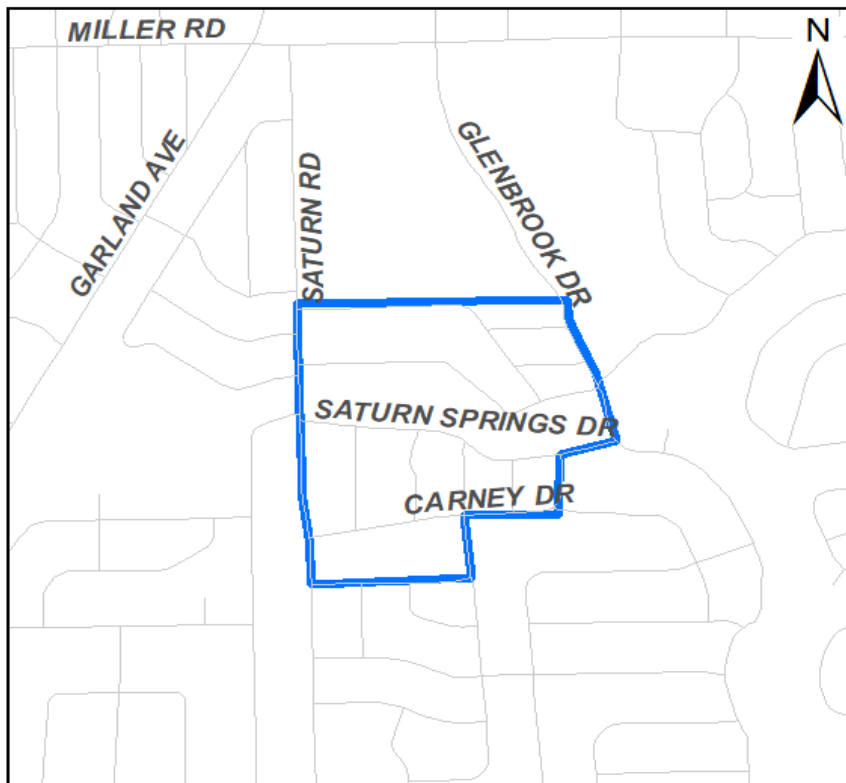


Drainage Improvements

- Funding is provided for the study of drainage system improvements in the Western Heights No. 4 area in the 3200 block of March Lane.
- Anticipated construction to begin in 02/2024.

Saturn Springs Estates Drainage Improvements

2021 Project Cost: \$1,199,000
Total Project Cost: \$12,210,000
Estimated Completion Date: 4/2024
Council District: 5



Drainage Improvements

- Funding is provided for the study of drainage system improvements in the Saturn Springs Estates area in and around Larry Drive, Patricia Drive, Harris Drive, and Saturn Springs Drive.
- Also included in the study are Briarwood Drive, Overhill Drive, Sycamore Drive, and Ashwood Drive area.
- Anticipated construction to begin in 04/2023.

Montclair No. 2 and No. 3 Drainage Improvements

2021 Project Cost: \$419,000
Total Project Cost: \$4,270,000
Estimated Completion Date: 11/2023
Council District: 5



Drainage Improvements

- Funding is provided for the study of drainage system improvements in the Montclair No. 2 and No. 3 area in 5000 block of La Jolla Drive.
- This project is dependent on the completion of TxDOT's drainage improvements to I.H. 635.
- Anticipated construction to begin in 02/2023.

Drainage Improvements Prior to Street Replacement

2021 Project Cost:	\$68,000
Total Project Cost:	\$700,000
Estimated Completion Date:	Ongoing
Council District:	All

Drainage Improvements

- Funding is provided for the design and construction of miscellaneous drainage improvements prior to street replacements.
- Engineering has documented areas of smaller-scale drainage improvement needs due to localized flooding issues. Combining these improvements with the street replacements is the most beneficial to the City.
- 2019 Bond Program.

Drainage Participation Program

2021 Project Cost:	\$2,152,000
Total Project Cost:	\$6,567,000
Estimated Completion Date:	Ongoing
Council District:	All

Drainage Improvements

- Funding is provided for the design and construction of drainage improvements through the 50/50 cost-share program.
- Staff is preparing a new contract for various types of erosion protection products for a more competitive bid.
- Staff anticipates property owners to participate that did not participate previously due to cost.
- 2019 Bond Program.

2021 Project Cost:	\$2,850,000
Total Project Cost:	\$12,911,000
Estimated Completion Date:	Ongoing
Council District:	ALL

Local Flooding Program

Local Flooding Improvements

Funding is provided for the study, design, and construction costs related to improvement of various areas that sustained flooding in homes and/or repetitive ponding/high water flooding.

- Meadowcreek Park Drainage Improvements
- Strother Alley Drainage Improvements
- Main Street/Avenue A Alley Drainage and Utility Improvements
- Field Knoll Drainage Improvements
- Glenbrook Drive – Centerville to Carroll
- Shady Lane Drainage Improvements
- Ashville Drainage Improvements
- Colonel Drive Drainage Improvements
- Tobin Trail Drainage Improvements
- Miami Drive Drainage Study

2021 Project Cost:	\$389,000
Total Project Cost:	\$4,000,000
Estimated Completion Date:	Ongoing
Council District:	ALL

Flood-Prone Properties

Flood-Prone Properties

- Funding is provided for the purchase of frequently flooded properties or other properties located in the floodplain severely damaged due to erosion.
- Staff is currently working on a draft for a new City Policy to be adopted by City Council.
- 2019 Bond Program.

SUMMARY OF CIP DRAINAGE PROJECTS

Project Name	2021 CIP Impact from Actionable Projects
Classic Drive and Yale Drive Drainage	\$ 413,000
Garland Heights and Freeman Heights	300,000
Bridge and Drainage Infrastructure Remediation	3,760,000
Drainage Maintenance Program	309,000
2004 Bond and COs Subtotal	\$4,782,000

SUMMARY OF CIP DRAINAGE PROJECTS

(Continued)

Project Name	2021 CIP Impact from Actionable Projects
Country Club Park Estates Drainage Improvements	\$ 346,000
Garvon West Industrial Park Drainage Improvements	887,000
Lakewood Addition Drainage Improvements	395,000
Western Heights No. 4 Drainage Improvements	120,000
Saturn Springs Estates Drainage Improvements	1,199,000
Montclair No. 2 and No. 3 Drainage Improvements	419,000
Drainage Improvements Prior to Street Replacements	68,000
Drainage Participation Program	2,152,000
Local Flooding Program	2,850,000
Flood-Prone Properties	389,000
2019 Bond Subtotal	\$8,825,000

SUMMARY OF CIP PROJECTS – STREET AND DRAINAGE

Project Name	2021 CIP Impact from Actionable Projects
2004 Bond and COs Street Projects	\$19,989,000
2019 Bond Street Projects	12,118,000
2004 Bond and COs Drainage Projects	4,782,000
2019 Bond Drainage Projects	8,825,000
Total	\$45,714,000

QUESTIONS?



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ENGINEERING