



WATER AND WASTEWATER
UNSERVED AREAS PROGRAM
SEPTEMBER 2020

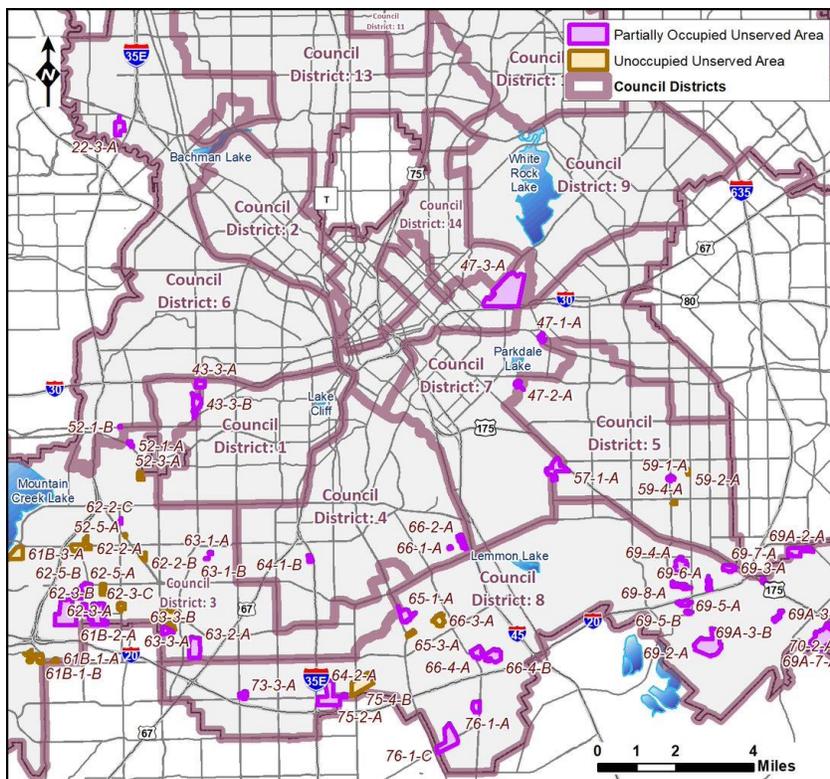
Dallas Water Utilities – Unserved Areas Program

I. BACKGROUND

The original 1989 Dallas Water Utilities (DWU) Unserved Areas Report identified 125 geographical areas throughout the City needing water and/or wastewater service. In June 2019, DWU updated the report with the latest GIS water and wastewater infrastructure data, and identified a total of 62 geographical areas still in need of service, at an estimated cost of \$67.8M dollars. The reduction in the number of areas since the 1989 report can be attributed to development activities over the last 30 years.

In an effort to improve equity across DWU’s water and wastewater systems and provide service to all Dallas residents, DWU is in the process of updating the Unserved Areas Report to include 1) a breakdown of Occupied vs. Unoccupied areas, 2) the estimated cost of infrastructure to serve these areas, and 3) a prioritized list of projects based on factors including cost, number of residents benefitted, and synergies with other City projects and initiatives. Preliminary information for the 2020 update shows the total number of unserved areas to be 61 (47 Occupied), and a funding need of approximately \$62M dollars (\$34M Occupied). The 2020 update of the Unserved Areas report is scheduled to be complete by mid-September 2020.

II. CURRENT UNSERVED AREA NEEDS



Each unserved area in the City has been identified and categorized as an occupied or unoccupied area. Maps have been developed for all areas showing the individual lots to be served, the infrastructure required to serve these lots and the estimated cost to construct the improvements.

The data used to compile this report is available at the following address –

<https://gisdwu.dallascityhall.com/Unserved/>

Below is an example of the individual maps that have been created for each of the 61 areas. This particular area is located in southeast Dallas, adjacent to Kleberg Road in Council District 8 –

Project Area 69A-3-A / Denmark St.

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



The following table summarizes the estimated water and wastewater needs to serve **all** unserved areas (2020 Data by Council District) -

Council District	Total Number of Unserved Areas	Approximate Water Cost	Approximate Wastewater Cost	Total Unserved Construction Cost
1	2	\$0	\$2,568,000	\$2,568,000
2	1	\$0	\$438,000	\$438,000
3	21	\$6,796,000	\$22,703,000	\$29,499,000
4	3	\$509,000	\$705,000	\$1,214,000
5	3	\$318,000	\$1,122,000	\$1,440,000
6	2	\$0	\$949,000	\$949,000
7	3	\$0	\$4,370,000	\$4,370,000
8	26	\$2,653,000	\$18,382,000	\$21,035,000
9-14	0	\$0	\$0	\$0
Total	61	\$10,276,000	\$51,237,000	\$61,513,000

The following table summarizes the estimated water and wastewater needs to serve occupied unserved areas (2020 Data by Council District) -

Council District	Number of Occupied Unserved Areas	Number of Occupied Residences	Approximate Water Cost	Approximate Wastewater Cost	Total Unserved Construction Cost
1	2	3	\$0	\$750,000	\$750,000
2	1	2	\$0	\$438,000	\$438,000
3	11	213	\$894,000	\$11,015,000	\$11,909,000
4	3	8	\$0	\$705,000	\$705,000
5	1	3	\$0	\$233,000	\$233,000
6	2	8	\$0	\$912,000	\$912,000
7	3	37	\$0	\$3,782,000	\$3,782,000
8	24	191	\$506,000	\$14,537,000	\$15,043,000
9-14	0	0	\$0	\$0	\$0
Total	47	465	\$1,400,000	\$32,372,000	\$33,772,000

The following lists the unserved areas, sorted by Council District, with estimated costs for occupied and total area. (Projects are listed in numerical order by map number and have not yet been ranked)

Council District 1

	<u>Occupied Cost</u>	<u>Total Cost</u>
43-3-A N. Westmoreland at Canyon Bluff	\$113,000	\$248,000
43-3-B W. Colorado at N. Westmoreland	\$637,000	\$2,320,000

Council District 2

	<u>Occupied Cost</u>	<u>Total Cost</u>
47-3-A Tenison Parkway	\$438,000	\$438,000

Council District 3

	<u>Occupied Cost</u>	<u>Total Cost</u>
52-1-A W. Jefferson at Counts Blvd.	\$195,000	\$316,000
52-3-A Ginger Ave. at Chalk Hill Trail Park	\$0	\$1,592,000
52-5-A 5811 W. Keist Blvd.	\$0	\$925,000
61A-1-A Mesquite Heights	\$2,131,000	\$5,024,000
61B-1-A 6000 W. Camp Wisdom	\$0	\$230,000
61B-1-B W. Camp Wisdom at Clarksridge	\$0	\$1,037,000
61B-2-A Red Bird Addn. No.7	\$4,743,000	\$4,743,000
61B-3-A Mountain Creek Lake Park	\$0	\$563,000
62-2-A S. Walton Walker Lot 2	\$0	\$102,000
62-2-B 3500 S. Walton Walker	\$0	\$162,000
62-2-C 2838 Duncanville Rd.	\$83,000	\$195,000
62-3-A 5100 Duncanville Rd.	\$0	\$281,000
62-3-B Tanzy Ln.	\$365,000	\$412,000
62-3-C Rancho & Lantern	\$1,539,000	\$1,657,000
62-5-A 5420 W. Ledbetter	\$0	\$86,000
62-5-B Whispering Cedar Dr.	\$1,558,000	\$1,558,000
63-1-A Cedarhurst at Bonnywood	\$63,000	\$63,000
63-1-B S. Ravinia Dr.	\$48,000	\$57,000
63-2-A Delrey & Pastor Bailey	\$516,000	\$5,262,000
63-3-A Bluebird & Lovebird	\$0	\$4,541,000
63-3-B S. Cedar Circle Dr.	\$668,000	\$693,000

<u>Council District 4</u>	<u>Occupied Cost</u>	<u>Total Cost</u>
64-1-B S. RL Thornton at Overton	\$291,000	\$291,000
66-1-A Wadsworth Dr.	\$50,000	\$50,000
66-2-A Kolloch Dr.	\$364,000	\$873,000

<u>Council District 5</u>	<u>Occupied Cost</u>	<u>Total Cost</u>
59-1-A Wadlington Ave.	\$233,000	\$233,000
59-2-A Broadview St.	\$0	\$874,000
59-4-A Judkins St.	\$0	\$333,000

<u>Council District 6</u>	<u>Occupied Cost</u>	<u>Total Cost</u>
22-3-A Bickham Rd. & Sandy Ln.	\$821,000	\$858,000
52-1-B 4915 W. Davis St.	\$91,000	\$91,000

<u>Council District 7</u>	<u>Occupied Cost</u>	<u>Total Cost</u>
47-1-A Crest Hill & Hunnicut	\$459,000	\$459,000
47-2-A 5225 Barber Ave.	\$340,000	\$401,000
57-1-A Lake June Rd. at Pemberton Hill	\$2,983,000	\$3,510,000

<u>Council District 8</u>	<u>Occupied Cost</u>	<u>Total Cost</u>
64-2-A Beckleyside Dr.	\$143,000	\$218,000
65-1-A 5604 S. Lancaster Rd.	\$494,000	\$1,268,000
65-3-A Gooch St.	\$0	\$646,000
66-3-A Persimmon Rd. at Kitty St.	\$0	\$936,000
66-4-A Memory Lane Blvd. at Bonnieview	\$467,000	\$467,000
66-4-B Cedardale Dr. at Riverside Rd.	\$580,000	\$580,000
69-2-A Haymarket Rd. at St. Augustine Rd.	\$1,234,000	\$1,234,000
69-3-A CF Hawn Fwy. at Silverado Dr.	\$419,000	\$479,000
69-4-A Portnoma Ln.	\$686,000	\$686,000
69-5-A Timberloam Dr.	\$363,000	\$363,000
69-5-B Mickey Dr.	\$193,000	\$193,000
69-6-A Bloomfield Dr.	\$331,000	\$528,000
69-7-A Cade Rd. and Ellenwood Dr.	\$386,000	\$776,000
69-8-A S. Prairie Creek Rd. and Leon Dr.	\$699,000	\$1,089,000
69A-2-A Rylie Crest Dr.	\$843,000	\$1,621,000
69A-3-A Denmark St.	\$124,000	\$142,000
69A-3-B Windfall Cir.	\$197,000	\$344,000
69A-7-A Woody Rd. & Royal Oaks Dr.	\$1,785,000	\$1,842,000
70-1-A Tanglewood Estates	\$1,926,000	\$1,955,000
70-2-A Oak Plaza	\$103,000	\$103,000
73-3-A Parakeet Ln. & Hilloak Dr.	\$287,000	\$337,000
75-2-A E. Wheatland Rd. & Mask Dr.	\$1,229,000	\$1,424,000
75-4-B Killough Blvd. & Wasco Ln.	\$414,000	\$1,310,000
75-4-C Wheatland Road at Lancaster	\$820,000	\$820,000
76-1-A Cleveland Rd. & Bonnie View Rd.	\$662,000	\$662,000
76-1-C Telephone Rd. & Van Horn Dr.	\$658,000	\$1,012,000

Council District 9-14

No Areas Currently Identified

III. WORK ACCOMPLISHED SINCE THE 2019 UPDATE

Subsequent to last year's update, progress has been made in extending water and wastewater infrastructure in several unserved areas.

The design for University Hills Phase I is complete and the construction is expected to start by the end of the year. Design for Phase II is expected to be complete by the end of the year, with construction starting next summer. DWU is also addressing a couple of other unserved projects, including construction of a water main extension to provide water service in the Mesquite Heights neighborhood (District 3) and the design of a water main extension in Prairie Creek Road, just west of St. Augustine Road, which will improve water service and fire protection (District 8).

IV. TASKS CURRENTLY UNDERWAY AND SCHEDULE MOVING FORWARD

Dallas Water Utilities has developed preliminary scoring criteria which will be used in ranking the projects and developing the multi-year capital improvement plan. The proposed criteria and scoring is as follows -

1. **Cost/Benefit Score (0-5 points)** – This criteria is based on the total cost of the project divided by the total number of parcels (occupied and unoccupied) being served.

COST PER PARCEL RANGES	SCORE
\$0 - \$21,000	5
\$22,000 - \$39,000	4
\$40,000 - \$80,000	3
\$81,000 - \$100,000	2
\$101,000 - \$200,000	1
More than \$200,000	0

2. **Quality of Life / Environmental (0-5 points)** – This criteria is based on the number of occupied parcels being served by each project. The higher number of occupied parcels being served, the greater number of residents being served and the greater number of septic systems and/or wells being removed.

NUMBER OF OCCUPIED PARCELS	SCORE
More than 50	5
50 – 11	4
10 – 6	3
5 – 3	2
2 -1	1
0	0

3. **Other City Initiatives and Projects (0-5 points)** – Unserved Areas that are aligned with other City initiatives or could benefit from synergies with existing City projects will be given additional points under this criteria. As an example, projects located within reinvestment areas associated with the City of Dallas – Comprehensive Housing Policy would receive additional points. Points would also be given to areas where other City capital projects were underway and efficiencies could be realized by joint implementation of the projects.

SYNERGIES WITH OTHER CITY PROJECTS AND INITIATIVES	SCORE
Excellent synergy with high priority initiatives/projects	5
Excellent synergy with longer term initiatives/projects	4
Greater synergy with other initiatives/projects	3
Moderate involvement with other initiatives/projects	2
Slight involvement with other initiatives/projects	1
No involvement with other initiatives/projects	0

DWU is currently prioritizing the projects listed above using the preliminary scoring criteria. Given the proposed criteria and scoring ranges, the maximum number of points any project can receive is 15. DWU also recently received information from the Texas Commission on Environmental Quality regarding permits for septic systems in Dallas County. We are currently reviewing that list and cross-checking with the information we have developed to date.

We will send out a preliminary report by the end of August seeking feedback from the appropriate stakeholders before finalizing the 2020 Unserved Areas update. Our goal is to complete the report update by mid-September, at which point, we will immediately begin design of the highest priority projects.

It should be noted, that we expect areas to be added to the list that may have been initially overlooked, or conversely, dropped from the list as development occurs. The Unserved Areas program will be reviewed annually to confirm current project needs and priorities, as well as coordinate with other City initiatives.

V. FUNDING AND MANAGEMENT OF THE UNSERVED AREAS PROGRAM

The Unserved Areas program will require an annual budget of approximately \$3 million dollars in order to eliminate all identified occupied unserved areas within the next 10 years. The program will be supported through a dedicated 0.5% increase in DWU’s street rental fee. Moving forward, the overall program will be managed by the Office of the Bond Program, with DWU being responsible for construction of the infrastructure improvements.

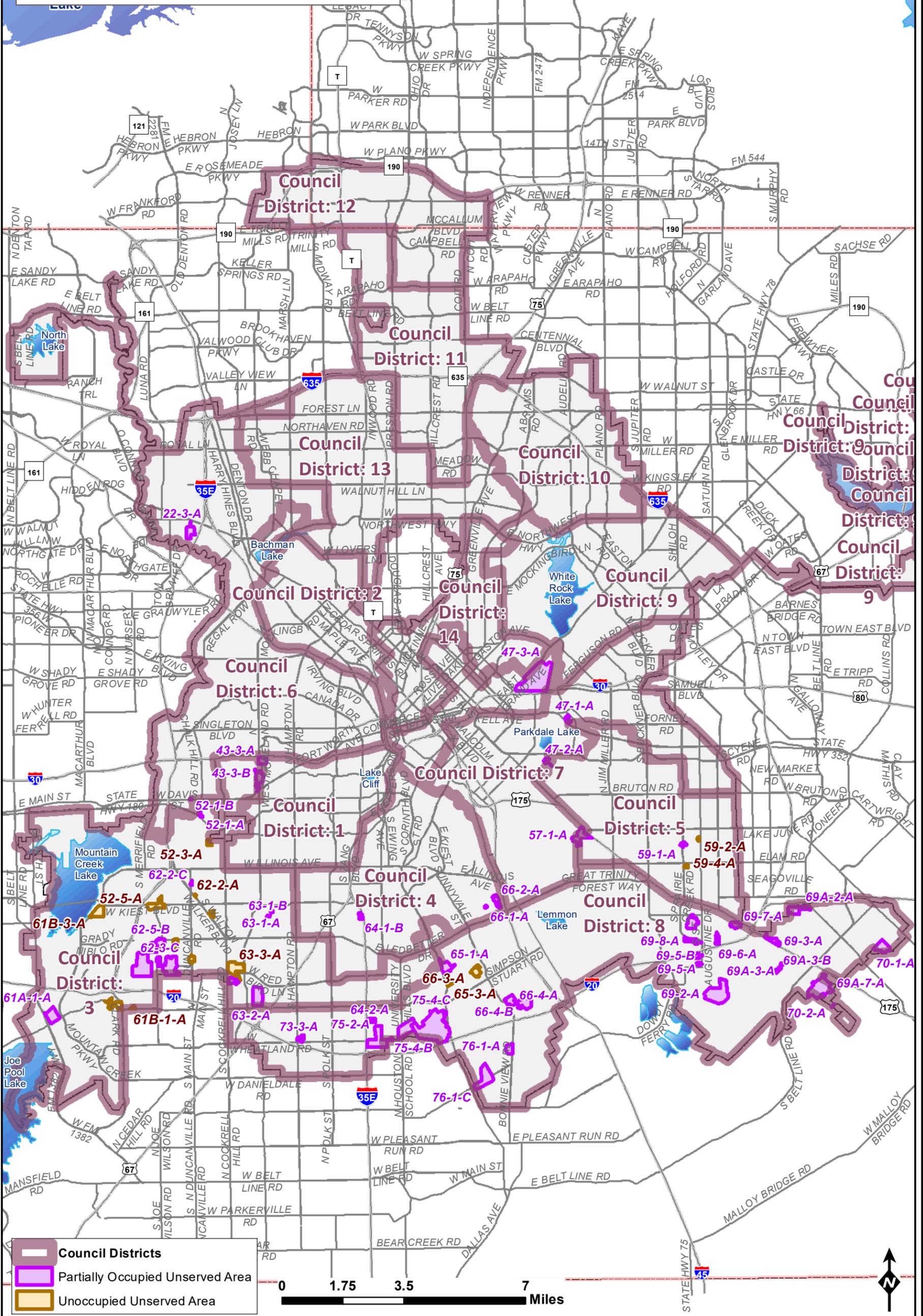
Appendix A - Current Project Rankings Based on Preliminary Scoring Criteria

Map Number	Location	Council District	Occupied Construction Cost	Total Construction Cost	Cost - Benefit	Quality of Life / Environ.	City Projects and Initiatives	Total Score
61A-1-A	Mesquite Heights	3	\$2,131,000	\$5,024,000	4	3	5	12
69A-7-A	Woody Rd. & Royal Oaks Dr.	8	\$1,785,000	\$1,842,000	4	5	2	11
75-4-B	Killough Blvd. & Wasco Ln.	8	\$414,000	\$1,310,000	4	2	5	11
64-2-A	Beckleyside Dr.	8	\$143,000	\$218,000	5	3	2	10
65-3-A	Gooch St.	8	\$0	\$646,000	5	0	5	10
57-1-A	Lake June Rd. at Pemberton Hill	5,7	\$2,983,000	\$3,510,000	3	4	2	9
59-1-A	Wadlington Ave.	5	\$233,000	\$233,000	5	2	2	9
61B-2-A	Red Bird Addn. No.7	3	\$4,743,000	\$4,743,000	4	5	0	9
63-3-B	S. Cedar Circle Dr.	3	\$668,000	\$693,000	3	4	2	9
70-1-A	Tanglewood Estates	8	\$1,926,000	\$1,955,000	3	4	2	9
75-4-C	Wheatland Road at Lancaster	8	\$820,000	\$820,000	2	2	5	9
22-3-A	Bickham Rd. & Sandy Ln.	6	\$821,000	\$858,000	3	3	2	8
66-4-A	Memory Lane Blvd. at Bonnieview	8	\$467,000	\$467,000	4	2	2	8
66-4-B	Cedardale Dr. at Riverside Rd.	8	\$580,000	\$580,000	3	3	2	8
69-8-A	S. Prairie Creek Rd. and Leon Dr.	8	\$699,000	\$1,089,000	1	2	5	8
69A-3-A	Denmark St.	8	\$124,000	\$142,000	5	1	2	8
70-2-A	Oak Plaza	8	\$106,000	\$103,000	5	1	2	8
47-1-A	Crest Hill & Hunnicut	7	\$459,000	\$459,000	4	3	0	7
62-3-C	Ranchero & Lantern	3	\$1,539,000	\$1,657,000	3	4	0	7
66-1-A	Wadsworth Dr.	4	\$50,000	\$50,000	5	2	0	7
69-2-A	Haymarket Rd. at St. Augustine Rd.	8	\$1,234,000	\$1,234,000	3	4	0	7
69-5-A	Timberloam Dr.	8	\$363,000	\$363,000	4	3	0	7
69A-2-A	Rylie Crest Dr.	8	\$843,000	\$1,621,000	2	3	2	7
69A-3-B	Windfall Cir.	8	\$197,000	\$344,000	3	2	2	7
47-2-A	5225 Barber Ave.	7	\$340,000	\$401,000	3	1	2	6
52-3-A	Ginger Ave. at Chalk Hill Trail Park	3	\$0	\$1,592,000	4	0	2	6

Map Number	Location	Council District	Occupied Construction Cost	Total Construction Cost	Cost - Benefit	Quality of Life / Environ.	City Projects and Initiatives	Total Score
63-2-A	Delrey & Pastor Bailey	3	\$516,000	\$5,262,000	3	1	2	6
69-4-A	Portnoma Ln.	8	\$686,000	\$686,000	3	3	0	6
75-2-A	E. Wheatland Rd. & Mask Dr.	8	\$1,229,000	\$1,424,000	1	3	2	6
76-1-A	Cleveland Rd. & Bonnie View Rd.	8	\$662,000	\$662,000	3	3	0	6
59-4-A	Judkins St.	5	\$0	\$333,000	3	0	2	5
63-1-A	Cedarhurst at Bonnywood	3	\$63,000	\$63,000	4	1	0	5
65-1-A	5604 S. Lancaster Rd.	8	\$494,000	\$1,268,000	2	3	0	5
66-3-A	Persimmon Rd. at Kitty St.	8	\$0	\$936,000	3	0	2	5
69-7-A	Cade Rd. and Ellenwood Dr.	8	\$386,000	\$776,000	3	2	0	5
43-3-A	N. Westmoreland at Canyon Bluff	1,3	\$113,000	\$248,000	3	1	0	4
52-1-A	W. Jefferson at Counts Blvd.	3	\$195,000	\$316,000	3	1	0	4
52-1-B	4915 W. Davis St.	6	\$91,000	\$91,000	3	1	0	4
59-2-A	Broadview St.	5	\$0	\$874,000	2	0	2	4
62-3-B	Tanzy Ln.	3	\$365,000	\$412,000	2	2	0	4
62-5-B	Whispering Cedar Dr.	3	\$1,558,000	\$1,558,000	1	3	0	4
63-1-B	S. Ravinia Dr.	3	\$48,000	\$57,000	3	1	0	4
63-3-A	Bluebird & Lovebird	3	\$0	\$4,541,000	2	0	2	4
66-2-A	Kolloch Dr.	4	\$364,000	\$873,000	3	1	0	4
69-5-B	Mickey Dr.	8	\$193,000	\$193,000	3	1	0	4
69-6-A	Bloomfield Dr.	8	\$331,000	\$528,000	3	1	0	4
73-3-A	Parakeet Ln. & Hilloak Dr.	8	\$287,000	\$337,000	3	1	0	4
62-2-A	S. Walton Walker Lot 2	3	\$0	\$102,000	3	0	0	3
62-2-C	2838 Duncanville Rd.	3	\$83,000	\$195,000	2	1	0	3
62-3-A	5100 Duncanville Rd.	3	\$0	\$281,000	3	0	0	3
62-5-A	5420 W. Ledbetter	3	\$0	\$86,000	3	0	0	3
64-1-B	S. RL Thornton at Overton	4	\$291,000	\$291,000	2	1	0	3
76-1-C	Telephone Rd. & Van Horn Dr.	8	\$658,000	\$1,012,000	1	2	0	3

Map Number	Location	Council District	Occupied Construction Cost	Total Construction Cost	Cost - Benefit	Quality of Life / Environ.	City Projects and Initiatives	Total Score
43-3-B	W. Colorado at N. Westmoreland	1,3	\$637,000	\$2,320,000	1	1	0	2
69-3-A	CF Hawn Fwy. at Silverado Dr.	8	\$419,000	\$479,000	1	1	0	2
47-3-A	Tenison Pkwy.	2	\$438,000	\$438,000	0	1	0	1
62-2-B	3500 S. Walton Walker	3	\$0	\$162,000	1	0	0	1
52-5-A	5811 W. Keist Blvd.	3	\$0	\$925,000	0	0	0	0
61B-1-A	6000 W. Camp Wisdom	3	\$0	\$230,000	0	0	0	0
61B-1-B	W. Camp Wisdom at Clarksridge	3	\$0	\$1,037,000	0	0	0	0
61B-3-A	Mountain Creek Lake Park	3	\$0	\$563,000	0	0	0	0

Unserviced Area Locator / Citywide



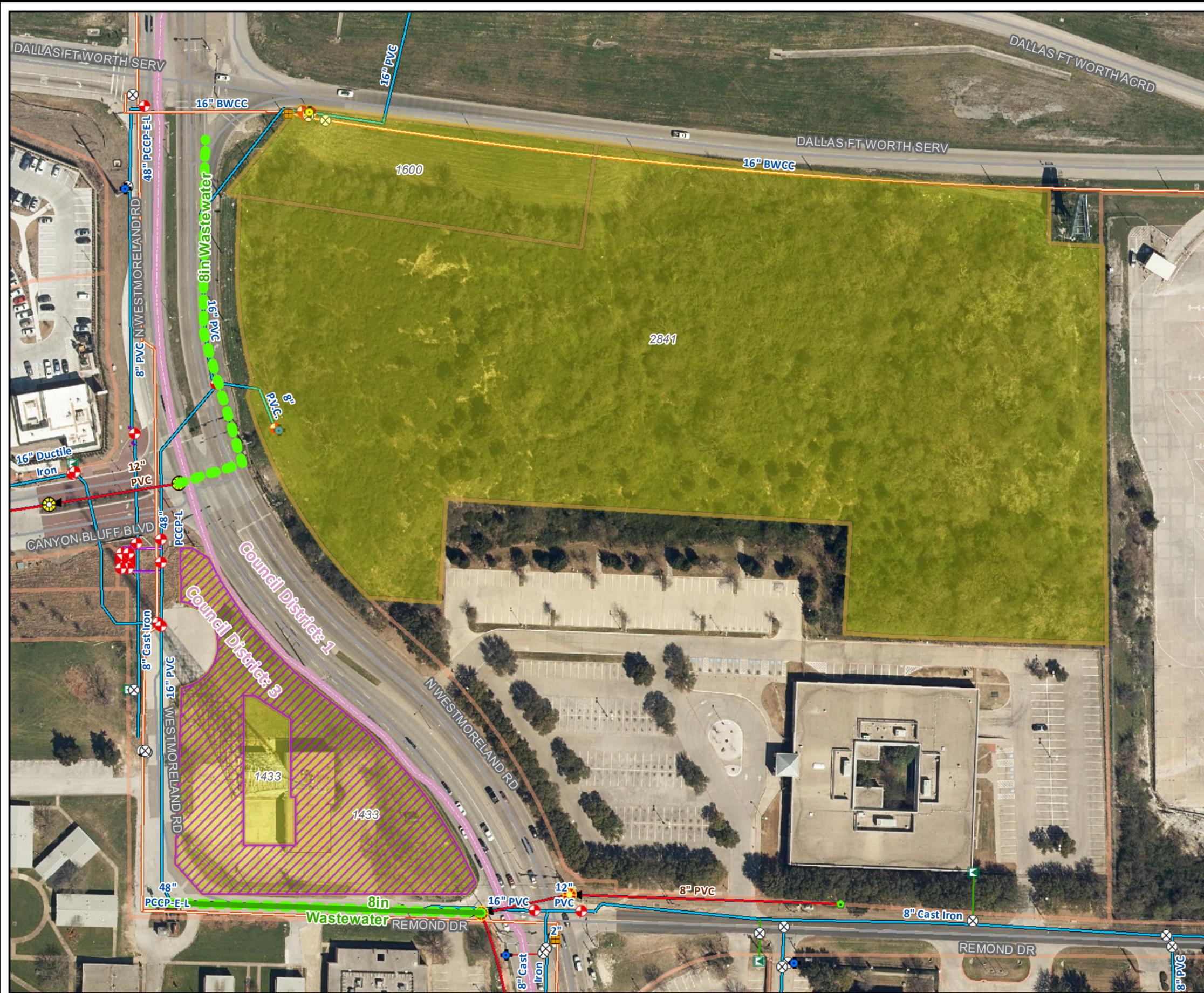
Legend

- Council Districts
- Partially Occupied Unserved Area
- Unoccupied Unserved Area



Project Area 43-3-A / N. Westmoreland at Canyon Bluff

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 1

Unserved Properties (Occupied & Unoccupied)

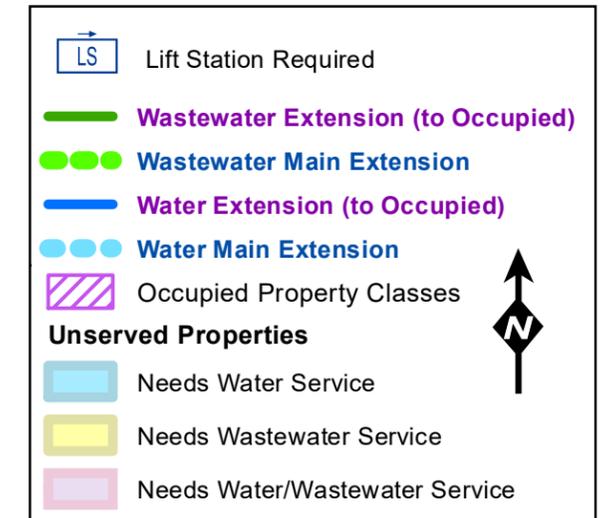
Number of unserved properties:	4
Approximate unserved area (Acre):	11.9
Needed Wastewater main length (ft):	830
Needed Wastewater main cost:	\$248,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Total estimated cost: \$248,000

Unserved Properties (Occupied)

Number of unserved properties:	1
Needed Wastewater main length (ft):	380
Needed Wastewater main cost:	\$113,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Occupied estimated cost: \$113,000



The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020



Project Area 43-3-B / W. Colorado at N. Westmoreland

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 1

Unserved Properties (Occupied & Unoccupied)

Number of unserved properties:	19
Approximate unserved area (Acre):	24.3
Needed Wastewater main length (ft):	5,970
Needed Wastewater main cost:	\$1,920,000
Needed Lift Station cost:	\$400,000
Needed Water main length (ft):	0
Needed Water main cost:	\$0
Total estimated cost:	\$2,320,000

Unserved Properties (Occupied)

Number of unserved properties:	2
Needed Wastewater main length (ft):	2,010
Needed Wastewater main cost:	\$637,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Occupied estimated cost: \$637,000

- LS Lift Station Required
- Wastewater Extension (to Occupied)
- Wastewater Main Extension
- Water Extension (to Occupied)
- Water Main Extension
- Occupied Property Classes

Unserved Properties

- Needs Water Service
- Needs Wastewater Service
- Needs Water/Wastewater Service

The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020



Project Area 47-3-A / Tenison Pkwy.

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 2 Unserved Properties (Occupied & Unoccupied)

Number of unserved properties:	2
Approximate unserved area (Acre):	306
Needed Wastewater main length (ft):	1,460
Needed Wastewater main cost:	\$438,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Total estimated cost: \$438,000

Unserved Properties (Occupied)

Number of unserved properties:	2
Needed Wastewater main length (ft):	1,460
Needed Wastewater main cost:	\$438,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Occupied estimated cost: \$438,000



The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020



Project Area 52-1-A / W. Jefferson at Counts Blvd.

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 3

Unserviced Properties (Occupied & Unoccupied)

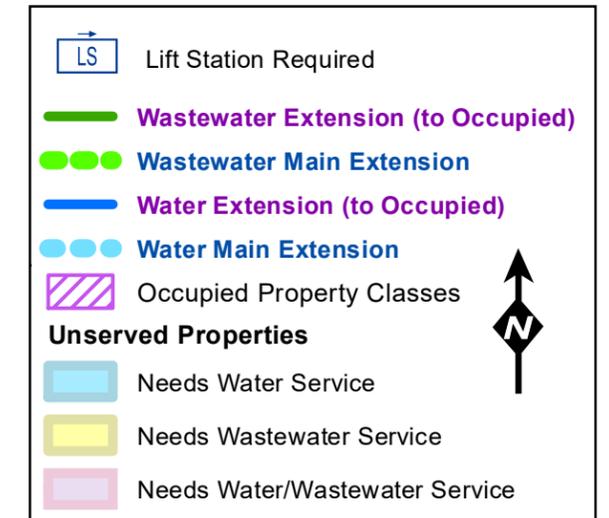
Number of unserviced properties:	5
Approximate unserved area (Acre):	3.9
Needed Wastewater main length (ft):	1,050
Needed Wastewater main cost:	\$316,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Total estimated cost: \$316,000

Unserviced Properties (Occupied)

Number of unserviced properties:	2
Needed Wastewater main length (ft):	650
Needed Wastewater main cost:	\$195,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Occupied estimated cost: \$195,000



The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020



Project Area 52-3-A / Ginger Ave. at Chalk Hill Trail Park

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 3

Unserved Properties (Occupied & Unoccupied)

Number of unserved properties:	44
Approximate unserved area (Acre):	7.8
Needed Wastewater main length (ft):	2,480
Needed Wastewater main cost:	\$743,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	3,400
Needed Water main cost:	\$849,000

Total estimated cost: \$1,592,000

Unserved Properties (Occupied)

Number of unserved properties:	0
Needed Wastewater main length (ft):	0
Needed Wastewater main cost:	\$0
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Occupied estimated cost: \$0



The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020



Project Area 52-5-A / 5811 W. Keist Blvd.

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 3

Unservd Properties (Occupied & Unoccupied)

Number of unservd properties:	1
Approximate unservd area (Acre):	9.5
Needed Wastewater main length (ft):	2,020
Needed Wastewater main cost:	\$525,000
Needed Lift Station cost:	\$400,000
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Total estimated cost: \$925,000

Unservd Properties (Occupied)

Number of unservd properties:	0
Needed Wastewater main length (ft):	0
Needed Wastewater main cost:	\$0
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Occupied estimated cost: \$0



The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020



Project Area 61A-1-A / Mesquite Heights

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 3

Unserved Properties (Occupied & Unoccupied)

Number of unserved properties:	157
Approximate unserved area (Acre):	48.5
Needed Wastewater main length (ft):	9,880
Needed Wastewater main cost:	\$2,963,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	6,870
Needed Water main cost:	\$2,061,000
Total estimated cost:	\$5,024,000

Unserved Properties (Occupied)

Number of unserved properties:	9
Needed Wastewater main length (ft):	4,120
Needed Wastewater main cost:	\$1,237,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	3,580
Needed Water main cost:	\$894,000

Occupied estimated cost: \$2,131,000

- LS Lift Station Required
- Wastewater Extension (to Occupied)
- Wastewater Main Extension
- Water Extension (to Occupied)
- Water Main Extension
- Occupied Property Classes

Unserved Properties

- Needs Water Service
- Needs Wastewater Service
- Needs Water/Wastewater Service

The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020



Project Area 61B-1-A / 6000 W. Camp Wisdom

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 3

Unservd Properties (Occupied & Unoccupied)

Number of unservd properties:	1
Approximate unservd area (Acre):	3
Needed Wastewater main length (ft):	770
Needed Wastewater main cost:	\$230,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0
Total estimated cost:	\$230,000

Unservd Properties (Occupied)

Number of unservd properties:	0
Needed Wastewater main length (ft):	0
Needed Wastewater main cost:	\$0
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0
Occupied estimated cost:	\$0

Legend

- LS Lift Station Required
- Wastewater Extension (to Occupied)
- Wastewater Main Extension
- Water Extension (to Occupied)
- Water Main Extension
- Occupied Property Classes

Unservd Properties

- Needs Water Service
- Needs Wastewater Service
- Needs Water/Wastewater Service

The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020



Project Area 61B-1-B / W. Camp Wisdom at Clarksridge

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 3

Unservd Properties (Occupied & Unoccupied)

Number of unserved properties:	5
Approximate unserved area (Acre):	28
Needed Wastewater main length (ft):	3,460
Needed Wastewater main cost:	\$1,037,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0
Total estimated cost:	\$1,037,000

Unservd Properties (Occupied)

Number of unserved properties:	0
Needed Wastewater main length (ft):	0
Needed Wastewater main cost:	\$0
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0
Occupied estimated cost:	\$0

LS Lift Station Required
— Wastewater Extension (to Occupied)
●●● Wastewater Main Extension
— Water Extension (to Occupied)
●●● Water Main Extension
 Occupied Property Classes
Unservd Properties
 Needs Water Service
 Needs Wastewater Service
 Needs Water/Wastewater Service

The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020

0 90 180 360 540 Feet

Project Area 61B-2-A / Red Bird Addn. No.7

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 3	
Unservd Properties (Occupied & Unoccupied)	
Number of unservd properties:	190
Approximate unservd area (Acre):	128
Needed Wastewater main length (ft):	15,810
Needed Wastewater main cost:	\$4,743,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0
Total estimated cost:	\$4,743,000
Unservd Properties (Occupied)	
Number of unservd properties:	144
Needed Wastewater main length (ft):	15,810
Needed Wastewater main cost:	\$4,743,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0
Occupied estimated cost:	\$4,743,000

- LS Lift Station Required
- Wastewater Extension (to Occupied)
- Wastewater Main Extension
- Water Extension (to Occupied)
- Water Main Extension
- Occupied Property Classes

Unservd Properties

- Needs Water Service
- Needs Wastewater Service
- Needs Water/Wastewater Service

The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020

0 155 310 620 930 Feet

Project Area 61B-3-A / Mountain Creek Lake Park

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 3

Unservd Properties (Occupied & Unoccupied)

Number of unservd properties:	0
Approximate unservd area (Acre):	0
Needed Wastewater main length (ft):	1,880
Needed Wastewater main cost:	\$563,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0
Total estimated cost:	\$563,000

Unservd Properties (Occupied)

Number of unservd properties:	0
Needed Wastewater main length (ft):	0
Needed Wastewater main cost:	\$0
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0
Occupied estimated cost:	\$0

Legend

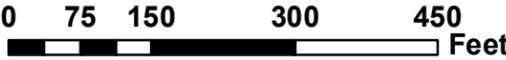
- Lift Station Required
- Wastewater Extension (to Occupied)
- Wastewater Main Extension
- Water Extension (to Occupied)
- Water Main Extension
- Occupied Property Classes

Unservd Properties

- Needs Water Service
- Needs Wastewater Service
- Needs Water/Wastewater Service

The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* *This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020



Project Area 62-2-A / S. Walton Walker Lot 2

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 3

Unserved Properties (Occupied & Unoccupied)

Number of unserved properties:	2
Approximate unserved area (Acre):	0.9
Needed Wastewater main length (ft):	340
Needed Wastewater main cost:	\$102,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Total estimated cost: \$102,000

Unserved Properties (Occupied)

Number of unserved properties:	0
Needed Wastewater main length (ft):	0
Needed Wastewater main cost:	\$0
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Occupied estimated cost: \$0

- LS Lift Station Required
- Wastewater Extension (to Occupied)
- Wastewater Main Extension
- Water Extension (to Occupied)
- Water Main Extension
- Occupied Property Classes

Unserved Properties

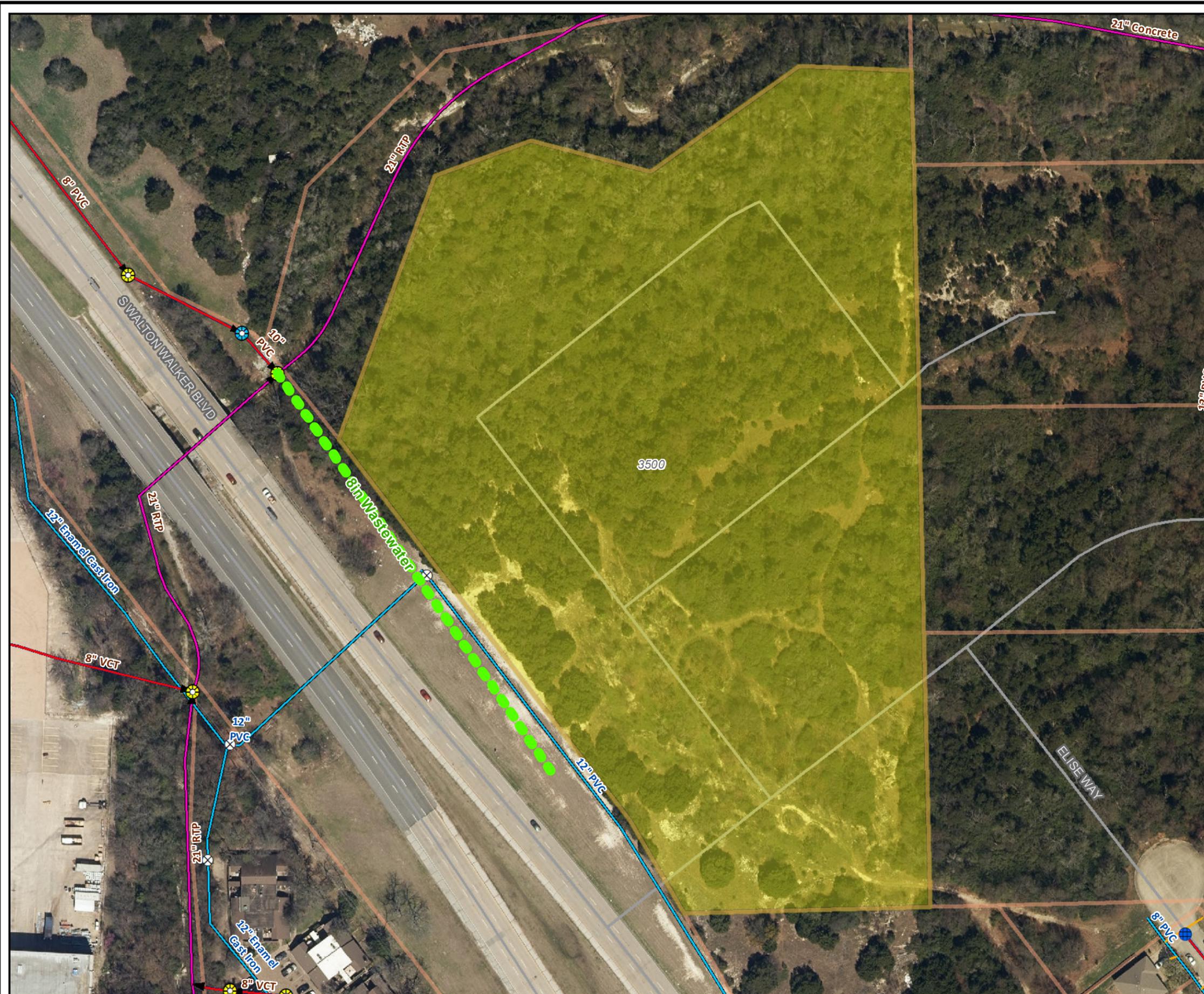
- Needs Water Service
- Needs Wastewater Service
- Needs Water/Wastewater Service

The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* *This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020

Project Area 62-2-B / 3500 S. Walton Walker

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 3

Unserved Properties (Occupied & Unoccupied)

Number of unserved properties:	1
Approximate unserved area (Acre):	10.3
Needed Wastewater main length (ft):	540
Needed Wastewater main cost:	\$162,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0
Total estimated cost:	\$162,000

Unserved Properties (Occupied)

Number of unserved properties:	0
Needed Wastewater main length (ft):	0
Needed Wastewater main cost:	\$0
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0
Occupied estimated cost:	\$0

Legend

- LS Lift Station Required
- Wastewater Extension (to Occupied)
- Wastewater Main Extension
- Water Extension (to Occupied)
- Water Main Extension
- Occupied Property Classes

Unserved Properties

- Needs Water Service
- Needs Wastewater Service
- Needs Water/Wastewater Service

North Arrow

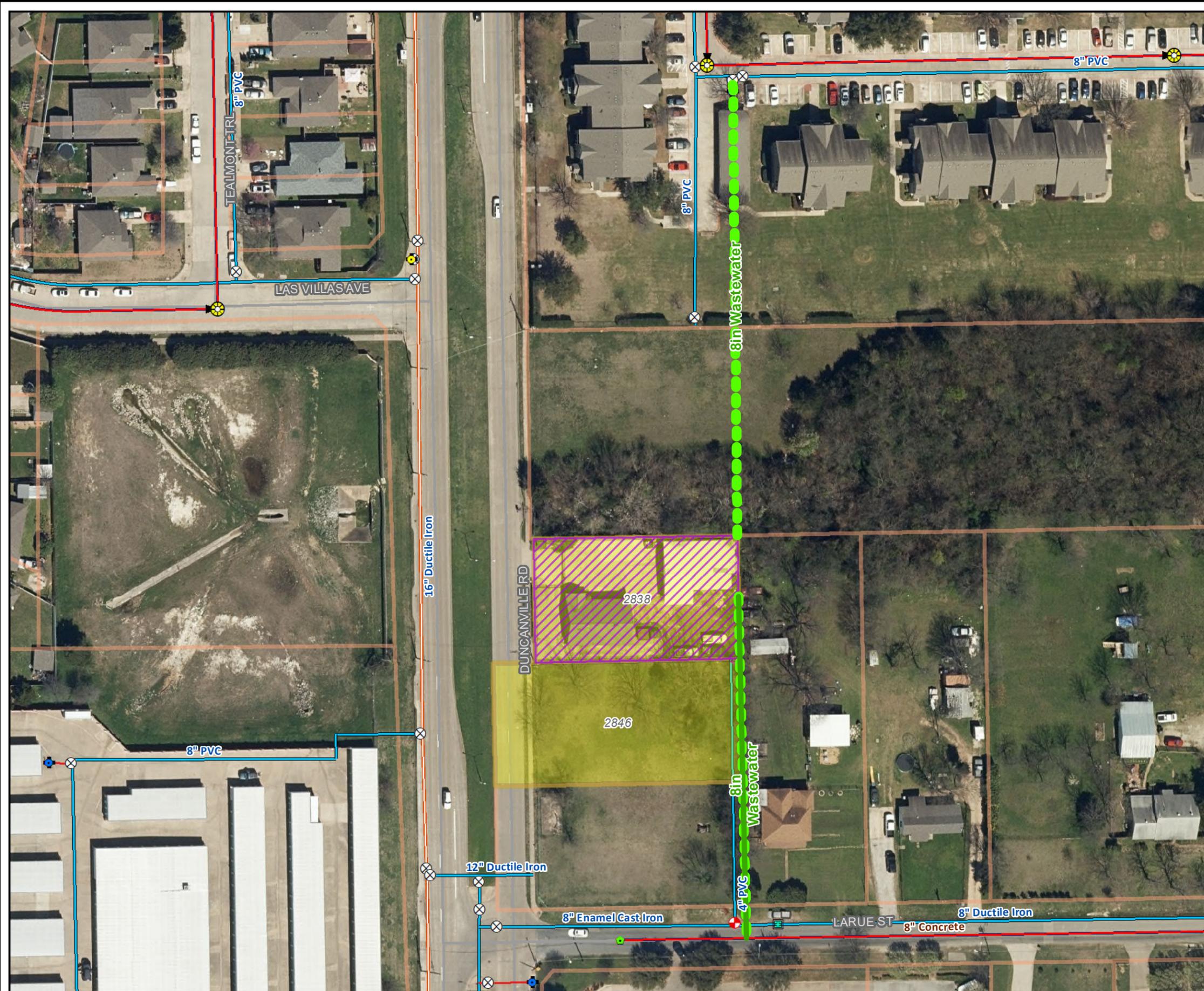
The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020

0 40 80 160 240 Feet

Project Area 62-2-C / 2838 Duncanville Rd.

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 3

Unserved Properties (Occupied & Unoccupied)

Number of unserved properties:	2
Approximate unserved area (Acre):	0.8
Needed Wastewater main length (ft):	650
Needed Wastewater main cost:	\$195,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Total estimated cost: \$195,000

Unserved Properties (Occupied)

Number of unserved properties:	1
Needed Wastewater main length (ft):	280
Needed Wastewater main cost:	\$83,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Occupied estimated cost: \$83,000

Lift Station Required

Wastewater Extension (to Occupied)

Wastewater Main Extension

Water Extension (to Occupied)

Water Main Extension

Occupied Property Classes

Unserved Properties

Needs Water Service

Needs Wastewater Service

Needs Water/Wastewater Service

The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020



Project Area 62-3-A / 5100 Duncanville Rd.

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 3

Unserved Properties (Occupied & Unoccupied)

Number of unserved properties:	4
Approximate unserved area (Acre):	10.5
Needed Wastewater main length (ft):	940
Needed Wastewater main cost:	\$281,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Total estimated cost: \$281,000

Unserved Properties (Occupied)

Number of unserved properties:	0
Needed Wastewater main length (ft):	0
Needed Wastewater main cost:	\$0
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Occupied estimated cost: \$0

Lift Station Required

Wastewater Extension (to Occupied)

Wastewater Main Extension

Water Extension (to Occupied)

Water Main Extension

Occupied Property Classes

Unserved Properties

Needs Water Service

Needs Wastewater Service

Needs Water/Wastewater Service

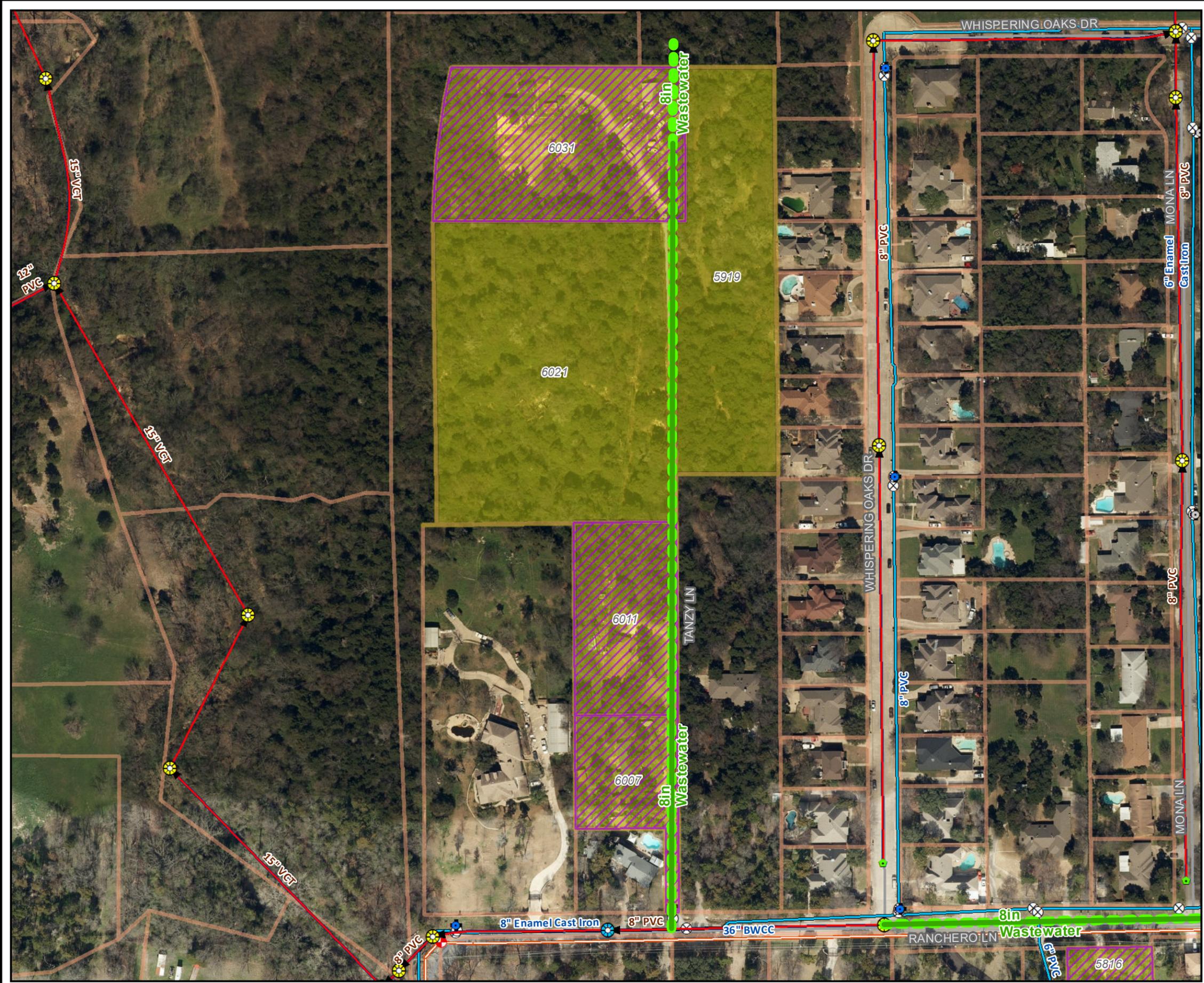
The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020



Project Area 62-3-B / Tanzy Ln.

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 3

Unserved Properties (Occupied & Unoccupied)

Number of unserved properties:	5
Approximate unserved area (Acre):	10.1
Needed Wastewater main length (ft):	1,370
Needed Wastewater main cost:	\$412,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Total estimated cost: \$412,000

Unserved Properties (Occupied)

Number of unserved properties:	3
Needed Wastewater main length (ft):	1,220
Needed Wastewater main cost:	\$365,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Occupied estimated cost: \$365,000

Legend

- LS Lift Station Required
- Wastewater Extension (to Occupied)
- Wastewater Main Extension
- Water Extension (to Occupied)
- Water Main Extension
- Occupied Property Classes

Unserved Properties

- Needs Water Service
- Needs Wastewater Service
- Needs Water/Wastewater Service

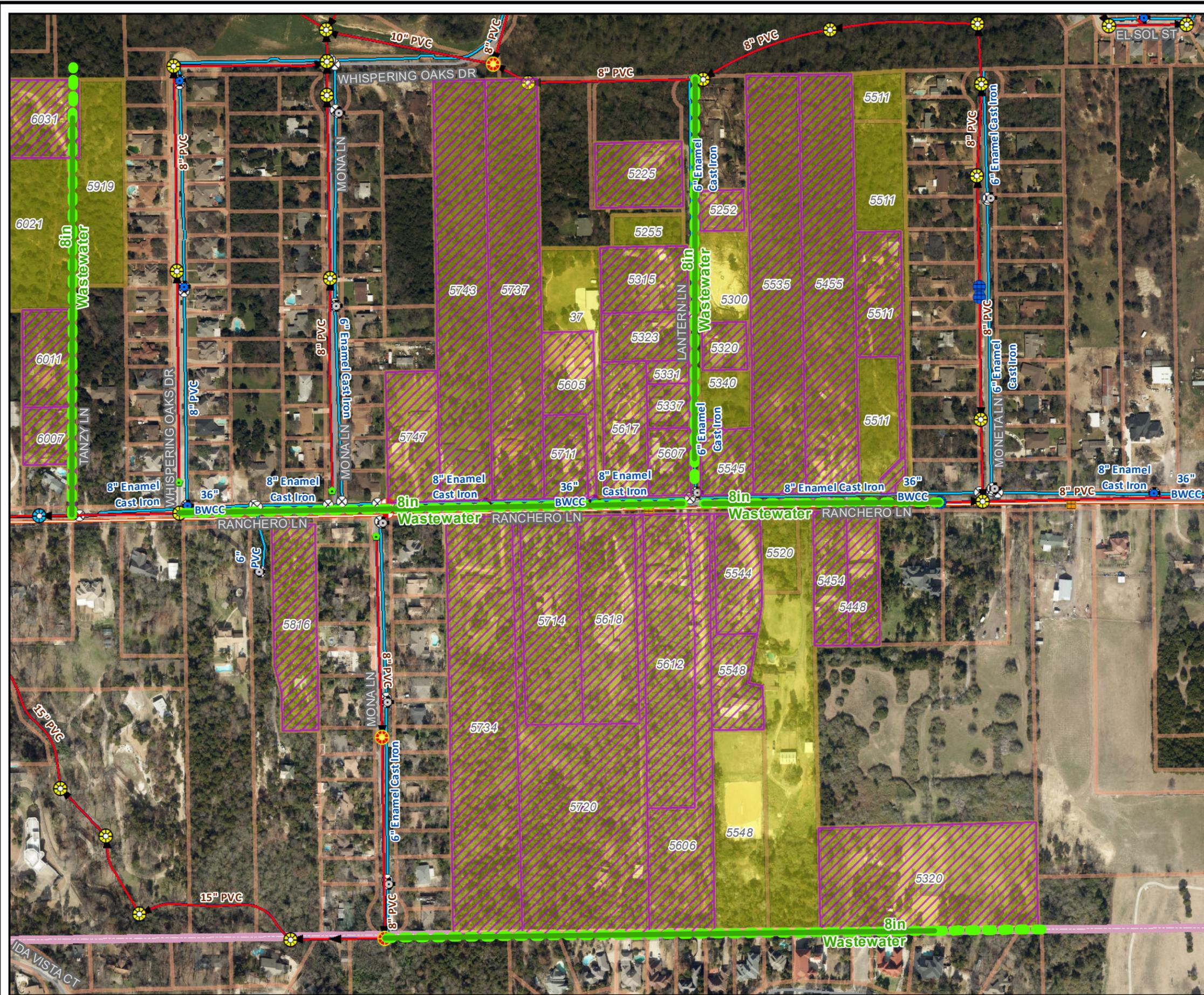
The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020

0 60 120 240 360 Feet

Project Area 62-3-C / Ranchero & Lantern

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 3

Unserved Properties (Occupied & Unoccupied)

Number of unserved properties:	40
Approximate unserved area (Acre):	80
Needed Wastewater main length (ft):	5,520
Needed Wastewater main cost:	\$1,657,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Total estimated cost: \$1,657,000

Unserved Properties (Occupied)

Number of unserved properties:	30
Needed Wastewater main length (ft):	5,130
Needed Wastewater main cost:	\$1,539,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Occupied estimated cost: \$1,539,000

- LS Lift Station Required
- Wastewater Extension (to Occupied)
- Wastewater Main Extension
- Water Extension (to Occupied)
- Water Main Extension
- Occupied Property Classes

Unserved Properties

- Needs Water Service
- Needs Wastewater Service
- Needs Water/Wastewater Service

The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020



Project Area 62-5-A / 5420 W. Ledbetter

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 3

Unserved Properties (Occupied & Unoccupied)

Number of unserved properties:	2
Approximate unserved area (Acre):	12.2
Needed Wastewater main length (ft):	290
Needed Wastewater main cost:	\$86,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0
Total estimated cost:	\$86,000

Unserved Properties (Occupied)

Number of unserved properties:	0
Needed Wastewater main length (ft):	0
Needed Wastewater main cost:	\$0
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0
Occupied estimated cost:	\$0

Lift Station Required

Wastewater Extension (to Occupied)

Wastewater Main Extension

Water Extension (to Occupied)

Water Main Extension

Occupied Property Classes

Unserved Properties

Needs Water Service

Needs Wastewater Service

Needs Water/Wastewater Service

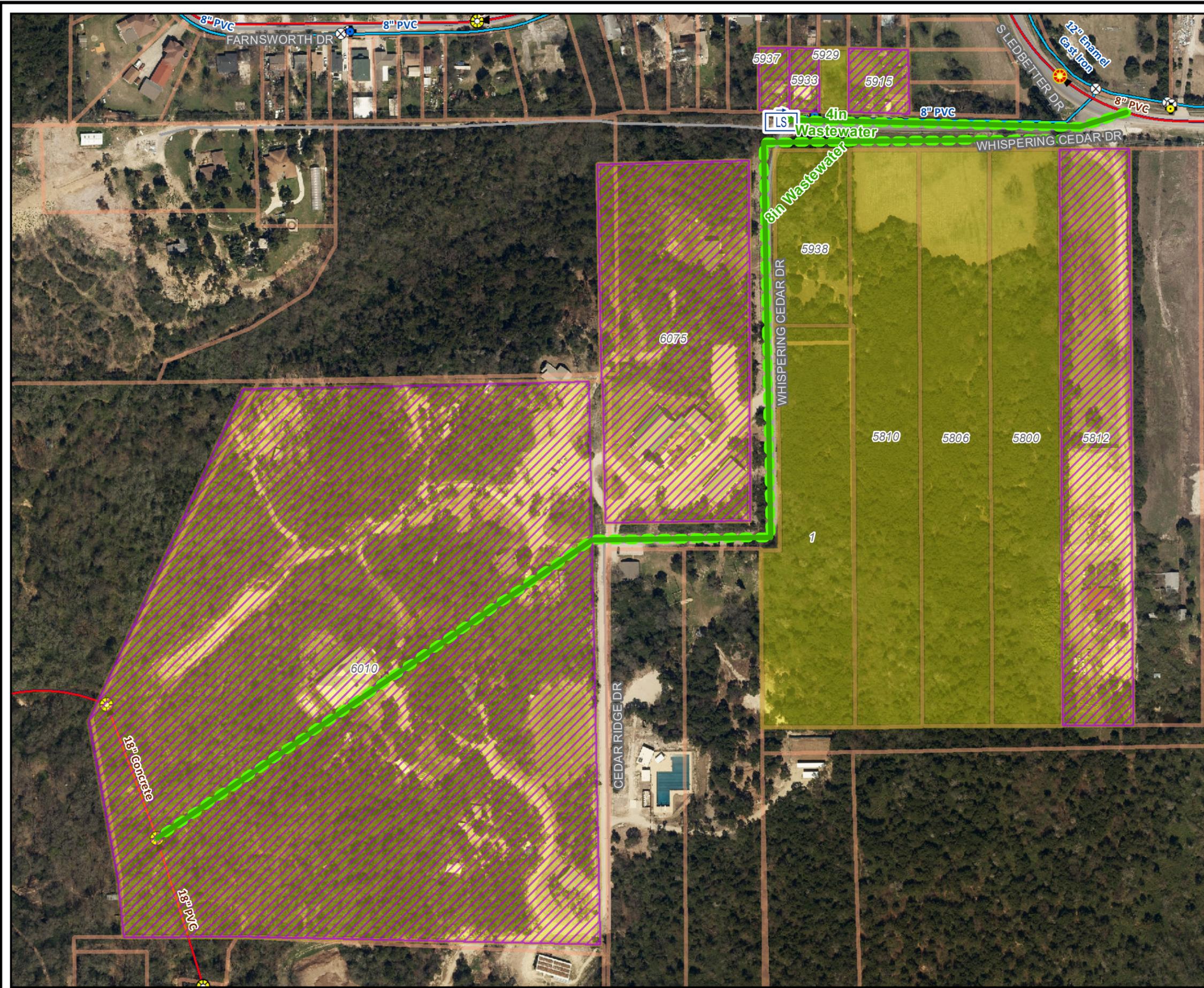
The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020



Project Area 62-5-B / Whispering Cedar Dr.

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 3

Unservd Properties (Occupied & Unoccupied)

Number of unservd properties:	12
Approximate unservd area (Acre):	62.7
Needed Wastewater main length (ft):	4,050
Needed Wastewater main cost:	\$1,158,000
Needed Lift Station cost:	\$400,000
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Total estimated cost: \$1,558,000

Unservd Properties (Occupied)

Number of unservd properties:	6
Needed Wastewater main length (ft):	4,050
Needed Wastewater main cost:	\$1,158,000
Needed Lift Station cost:	\$400,000
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Occupied estimated cost: \$1,558,000

Lift Station Required

Wastewater Extension (to Occupied)

Wastewater Main Extension

Water Extension (to Occupied)

Water Main Extension

Occupied Property Classes

Unservd Properties

Needs Water Service

Needs Wastewater Service

Needs Water/Wastewater Service

The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020

Project Area 63-1-A / Cedarhurst at Bonnywood

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 3

Unservd Properties (Occupied & Unoccupied)	
Number of unservd properties:	2
Approximate unservd area (Acre):	2.1
Needed Wastewater main length (ft):	210
Needed Wastewater main cost:	\$63,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0
Total estimated cost:	\$63,000

Unservd Properties (Occupied)	
Number of unservd properties:	2
Needed Wastewater main length (ft):	210
Needed Wastewater main cost:	\$63,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0
Occupied estimated cost:	\$63,000

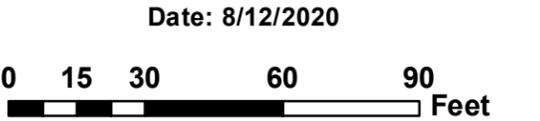
Legend

- LS Lift Station Required
- Wastewater Extension (to Occupied)
- Wastewater Main Extension
- Water Extension (to Occupied)
- Water Main Extension
- Occupied Property Classes

Unservd Properties

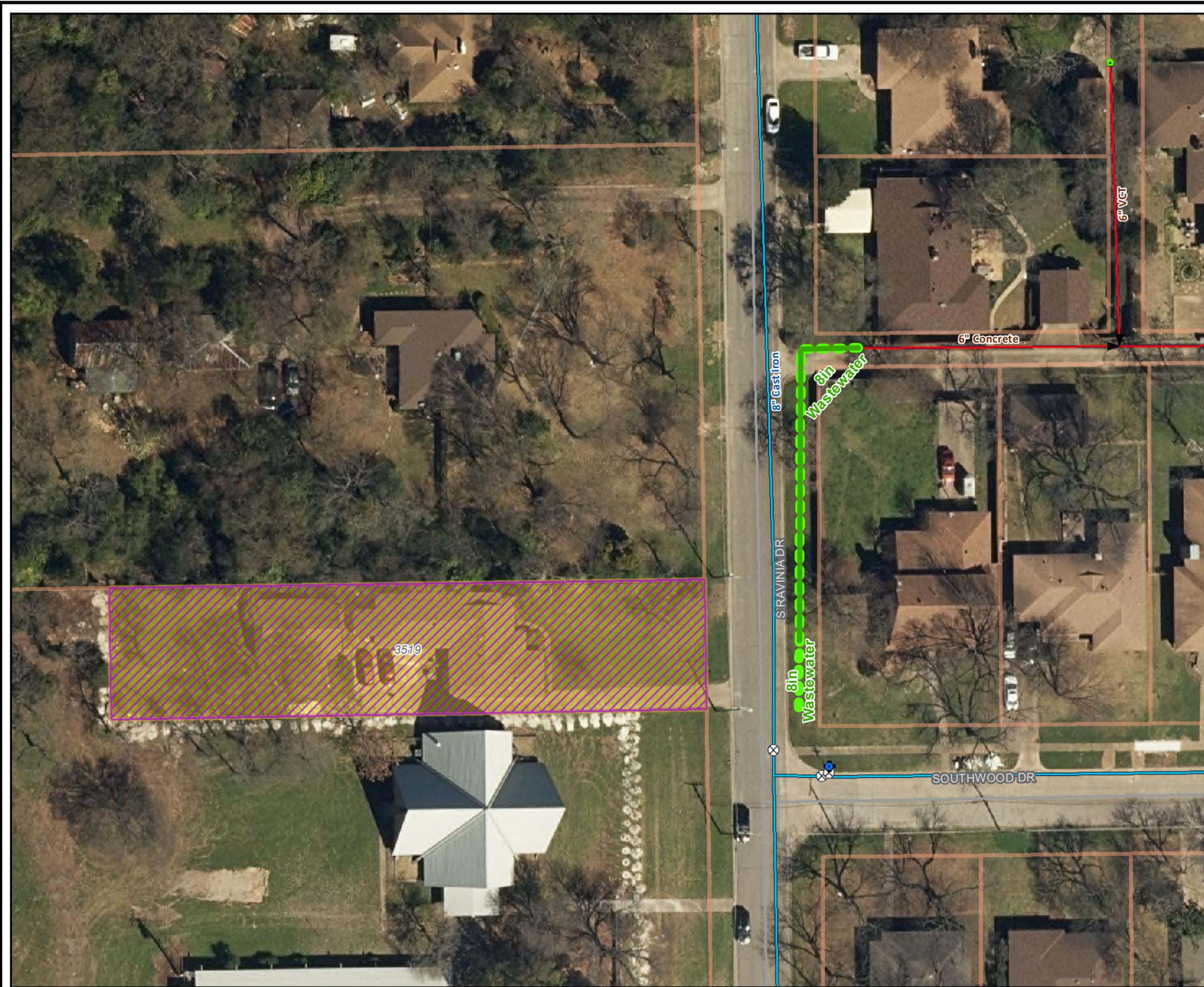
- Needs Water Service
- Needs Wastewater Service
- Needs Water/Wastewater Service

The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* *This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.



Project Area 63-1-B / S. Ravinia Dr.

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 3

Unservd Properties (Occupied & Unoccupied)

Number of unservd properties:	1
Approximate unservd area (Acre):	0.4
Needed Wastewater main length (ft):	190
Needed Wastewater main cost:	\$57,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Total estimated cost: \$57,000

Unservd Properties (Occupied)

Number of unservd properties:	1
Needed Wastewater main length (ft):	160
Needed Wastewater main cost:	\$48,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Occupied estimated cost: \$48,000

- LS Lift Station Required
- Wastewater Extension (to Occupied)
- Wastewater Main Extension
- Water Extension (to Occupied)
- Water Main Extension
- Occupied Property Classes

Unservd Properties

- Needs Water Service
- Needs Wastewater Service
- Needs Water/Wastewater Service

The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* *This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020

0 15 30 60 90 Feet

Project Area 63-2-A / Delrey & Pastor Bailey

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 3

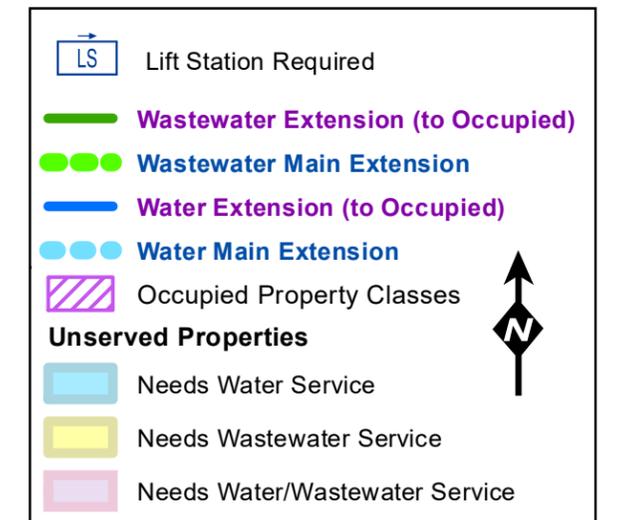
Unserved Properties (Occupied & Unoccupied)

Number of unserved properties:	130
Approximate unserved area (Acre):	60.8
Needed Wastewater main length (ft):	10,290
Needed Wastewater main cost:	\$3,087,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	8,700
Needed Water main cost:	\$2,175,000
Total estimated cost:	\$5,262,000

Unserved Properties (Occupied)

Number of unserved properties:	2
Needed Wastewater main length (ft):	1,720
Needed Wastewater main cost:	\$516,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Occupied estimated cost: \$516,000



The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020



Project Area 63-3-A / Bluebird & Lovebird

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 3

Unserved Properties (Occupied & Unoccupied)

Number of unserved properties:	54
Approximate unserved area (Acre):	53.1
Needed Wastewater main length (ft):	9,430
Needed Wastewater main cost:	\$2,830,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	6,840
Needed Water main cost:	\$1,711,000
Total estimated cost:	\$4,541,000

Unserved Properties (Occupied)

Number of unserved properties:	0
Needed Wastewater main length (ft):	0
Needed Wastewater main cost:	\$0
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0
Occupied estimated cost:	\$0

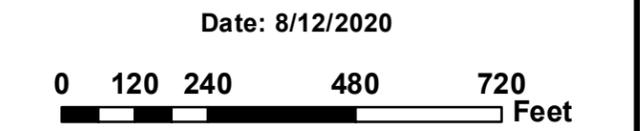
Legend

- LS Lift Station Required
- Wastewater Extension (to Occupied)
- Wastewater Main Extension
- Water Extension (to Occupied)
- Water Main Extension
- Occupied Property Classes

Unserved Properties

- Needs Water Service
- Needs Wastewater Service
- Needs Water/Wastewater Service

The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.



Project Area 63-3-B / S. Cedar Circle Dr.

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 3

Unserved Properties (Occupied & Unoccupied)

Number of unserved properties:	15
Approximate unserved area (Acre):	13.3
Needed Wastewater main length (ft):	2,310
Needed Wastewater main cost:	\$693,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Total estimated cost: \$693,000

Unserved Properties (Occupied)

Number of unserved properties:	13
Needed Wastewater main length (ft):	2,230
Needed Wastewater main cost:	\$668,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Occupied estimated cost: \$668,000

- LS Lift Station Required
- Wastewater Extension (to Occupied)
- Wastewater Main Extension
- Water Extension (to Occupied)
- Water Main Extension
- Occupied Property Classes

Unserved Properties

- Needs Water Service
- Needs Wastewater Service
- Needs Water/Wastewater Service

The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020



Project Area 64-1-B / S. RL Thornton at Overton

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 4

Unserved Properties (Occupied & Unoccupied)

Number of unserved properties:	3
Approximate unserved area (Acre):	6.4
Needed Wastewater main length (ft):	970
Needed Wastewater main cost:	\$291,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Total estimated cost: \$291,000

Unserved Properties (Occupied)

Number of unserved properties:	2
Needed Wastewater main length (ft):	970
Needed Wastewater main cost:	\$291,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Occupied estimated cost: \$291,000

- LS Lift Station Required
- Wastewater Extension (to Occupied)
- Wastewater Main Extension
- Water Extension (to Occupied)
- Water Main Extension
- Occupied Property Classes

Unserved Properties

- Needs Water Service
- Needs Wastewater Service
- Needs Water/Wastewater Service

The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020



Project Area 66-1-A / Wadsworth Dr.

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 4

Unserved Properties (Occupied & Unoccupied)

Number of unserved properties:	4
Approximate unserved area (Acre):	1.9
Needed Wastewater main length (ft):	170
Needed Wastewater main cost:	\$50,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Total estimated cost: \$50,000

Unserved Properties (Occupied)

Number of unserved properties:	4
Needed Wastewater main length (ft):	170
Needed Wastewater main cost:	\$50,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Occupied estimated cost: \$50,000

- LS Lift Station Required
- Wastewater Extension (to Occupied)
- Wastewater Main Extension
- Water Extension (to Occupied)
- Water Main Extension
- Occupied Property Classes

Unserved Properties

- Needs Water Service
- Needs Wastewater Service
- Needs Water/Wastewater Service

The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* *This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020

0 15 30 60 90 Feet

Project Area 66-2-A / Kolloch Dr.

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 4

Unserved Properties (Occupied & Unoccupied)

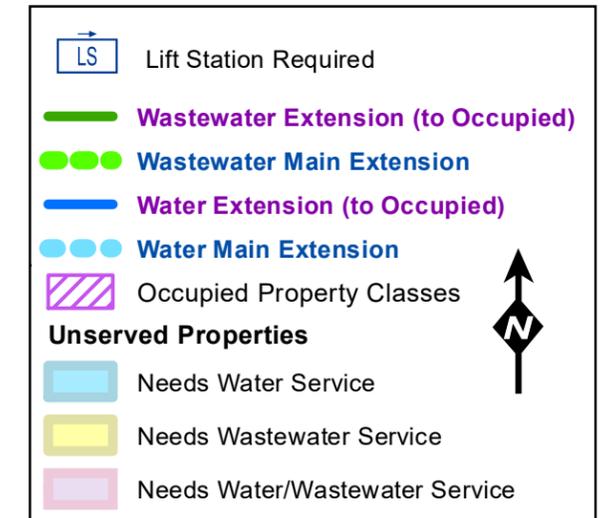
Number of unserved properties:	20
Approximate unserved area (Acre):	14.9
Needed Wastewater main length (ft):	1,210
Needed Wastewater main cost:	\$364,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	2,040
Needed Water main cost:	\$509,000

Total estimated cost: \$873,000

Unserved Properties (Occupied)

Number of unserved properties:	2
Needed Wastewater main length (ft):	1,210
Needed Wastewater main cost:	\$364,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Occupied estimated cost: \$364,000



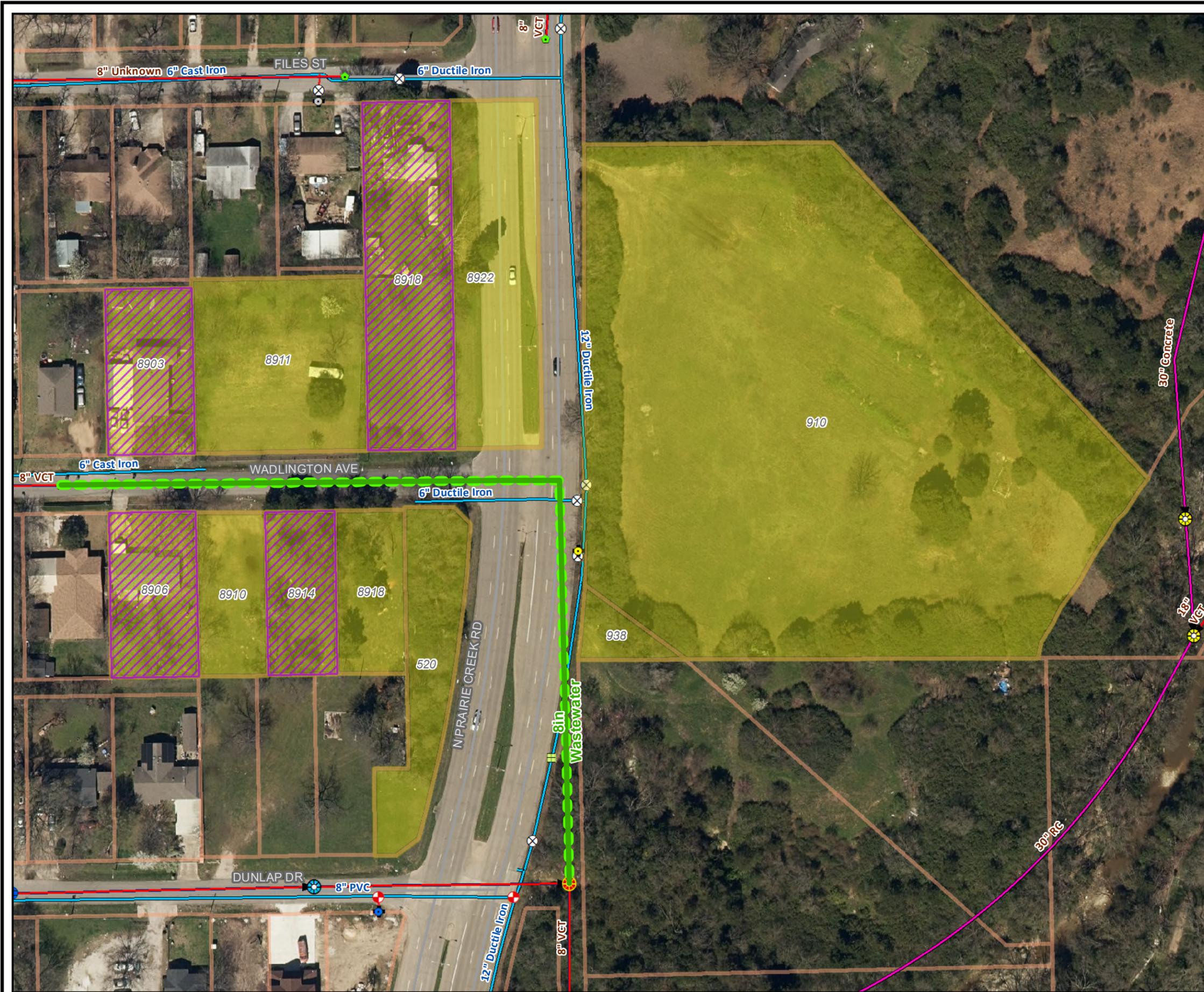
The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020



Project Area 59-1-A / Wadlington Ave.

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 5

Unserved Properties (Occupied & Unoccupied)

Number of unserved properties:	11
Approximate unserved area (Acre):	6.8
Needed Wastewater main length (ft):	780
Needed Wastewater main cost:	\$233,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Total estimated cost: \$233,000

Unserved Properties (Occupied)

Number of unserved properties:	3
Needed Wastewater main length (ft):	780
Needed Wastewater main cost:	\$233,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Occupied estimated cost: \$233,000



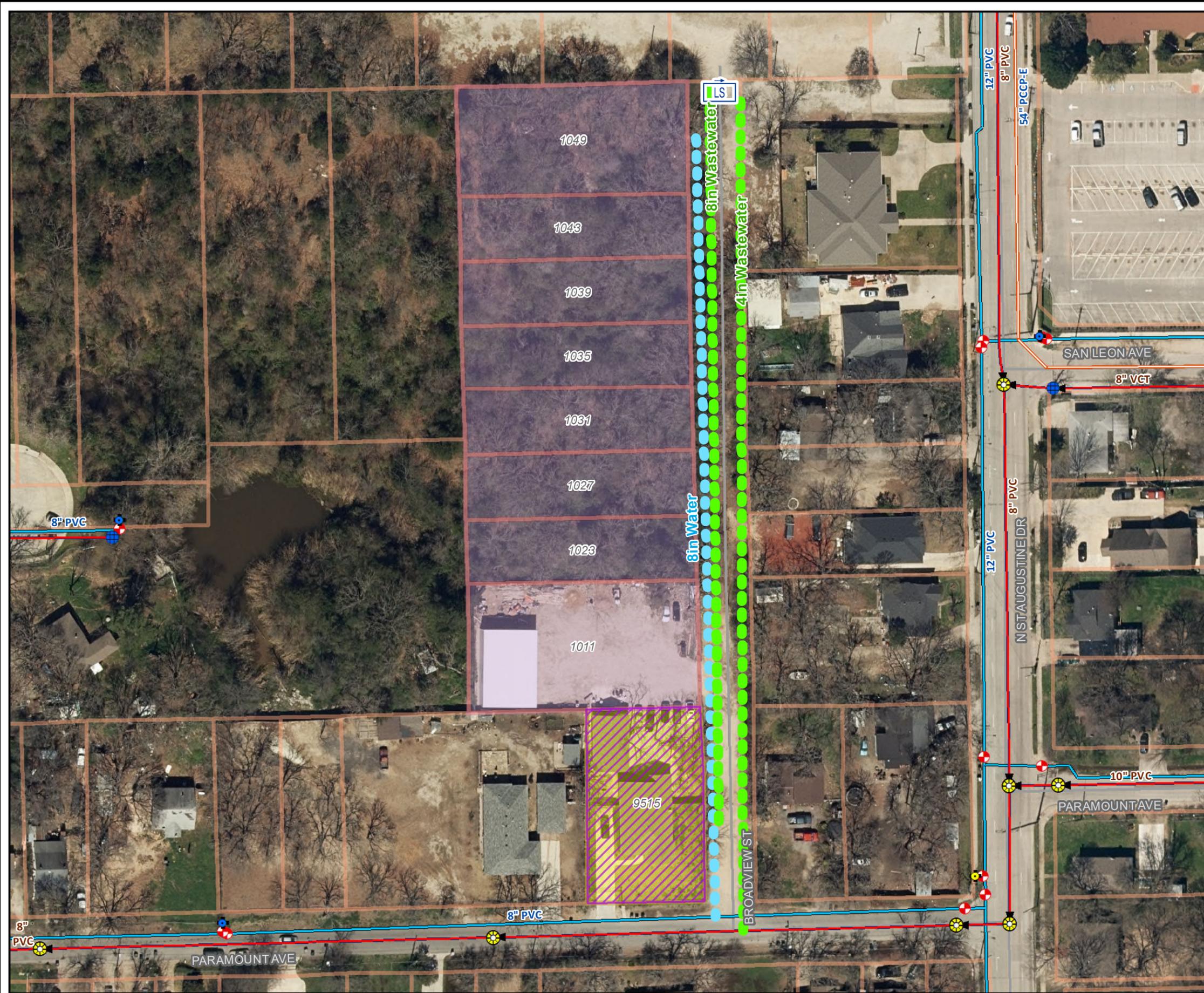
The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020



Project Area 59-2-A / Broadview St.

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 5

Unserved Properties (Occupied & Unoccupied)

Number of unserved properties:	9
Approximate unserved area (Acre):	2.3
Needed Wastewater main length (ft):	1,220
Needed Wastewater main cost:	\$321,000
Needed Lift Station cost:	\$400,000
Needed Water main length (ft):	610
Needed Water main cost:	\$153,000

Total estimated cost: \$874,000

Unserved Properties (Occupied)

Number of unserved properties:	0
Needed Wastewater main length (ft):	0
Needed Wastewater main cost:	\$0
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Occupied estimated cost: \$0

Lift Station Required

Wastewater Extension (to Occupied)

Wastewater Main Extension

Water Extension (to Occupied)

Water Main Extension

Occupied Property Classes

Unserved Properties

Needs Water Service

Needs Wastewater Service

Needs Water/Wastewater Service

The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020



Project Area 59-4-A / Judkins St.

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 5

Unserved Properties (Occupied & Unoccupied)

Number of unserved properties:	7
Approximate unserved area (Acre):	3.1
Needed Wastewater main length (ft):	560
Needed Wastewater main cost:	\$168,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	660
Needed Water main cost:	\$165,000
Total estimated cost:	\$333,000

Unserved Properties (Occupied)

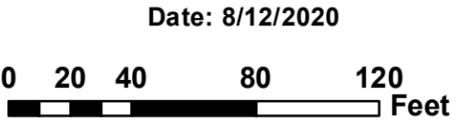
Number of unserved properties:	0
Needed Wastewater main length (ft):	0
Needed Wastewater main cost:	\$0
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0
Occupied estimated cost:	\$0

LS Lift Station Required
— Wastewater Extension (to Occupied)
●●● Wastewater Main Extension
— Water Extension (to Occupied)
●●● Water Main Extension
 Occupied Property Classes

Unserved Properties

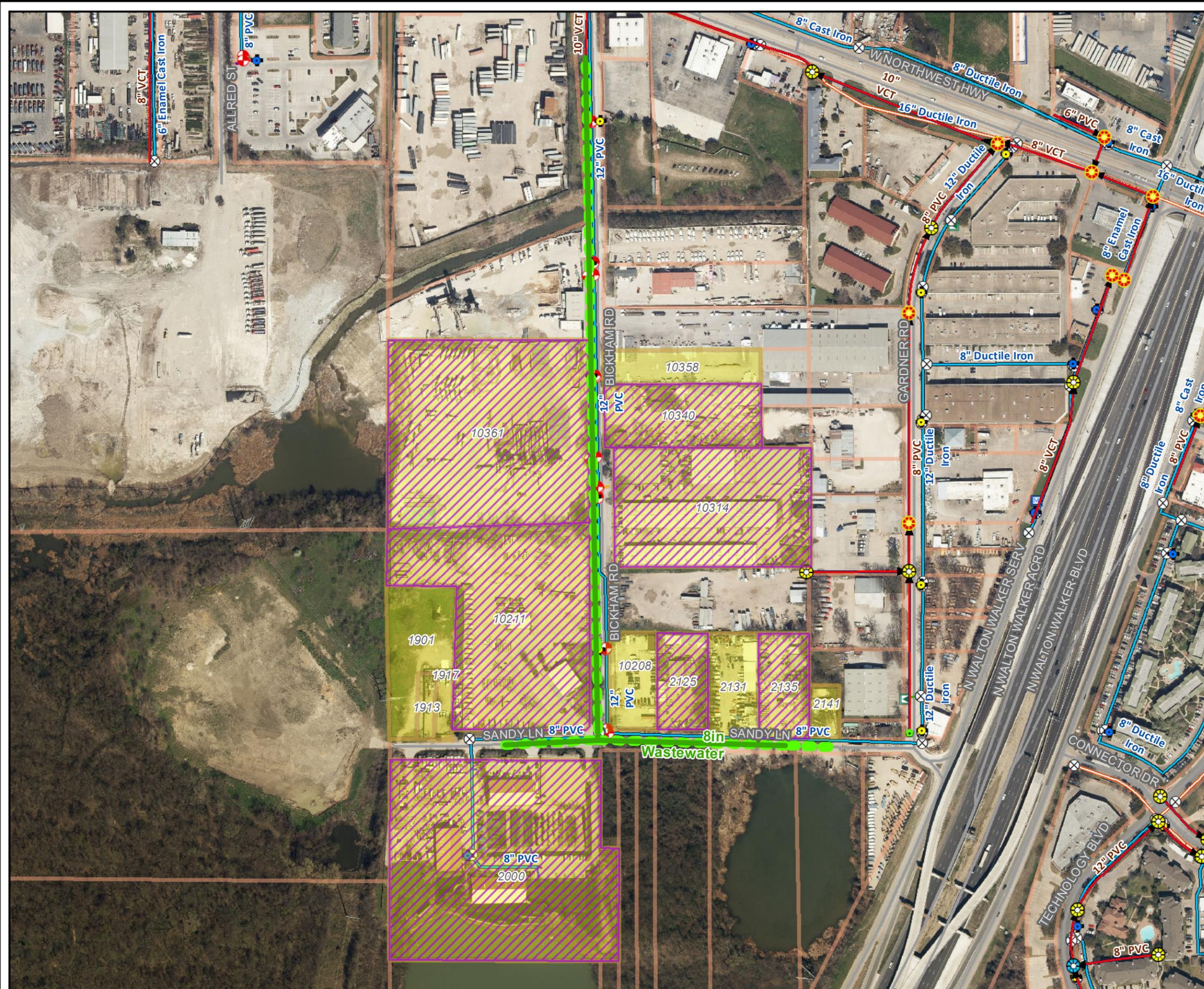
- Needs Water Service
- Needs Wastewater Service
- Needs Water/Wastewater Service

The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.



Project Area 22-3-A / Bickham Rd. & Sandy Ln.

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 6

Unservd Properties (Occupied & Unoccupied)

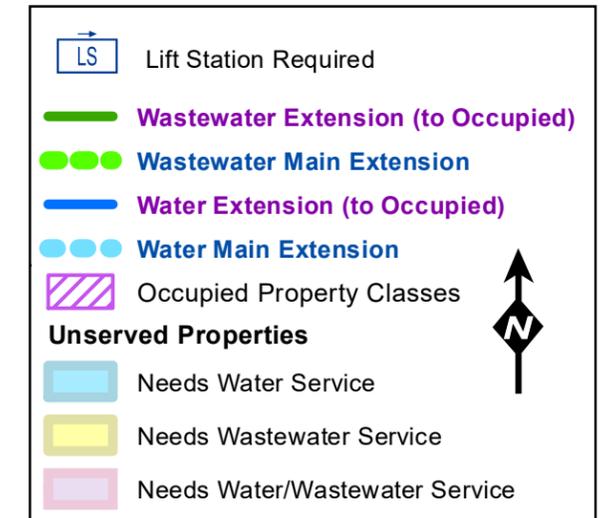
Number of unservd properties:	14
Approximate unservd area (Acre):	34.1
Needed Wastewater main length (ft):	2,860
Needed Wastewater main cost:	\$858,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Total estimated cost: \$858,000

Unservd Properties (Occupied)

Number of unservd properties:	7
Needed Wastewater main length (ft):	2,740
Needed Wastewater main cost:	\$821,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Occupied estimated cost: \$821,000



The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020



Project Area 52-1-B / 4915 W. Davis St.

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 6

Unservd Properties (Occupied & Unoccupied)

Number of unservd properties:	2
Approximate unservd area (Acre):	0.4
Needed Wastewater main length (ft):	300
Needed Wastewater main cost:	\$91,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Total estimated cost: \$91,000

Unservd Properties (Occupied)

Number of unservd properties:	1
Needed Wastewater main length (ft):	300
Needed Wastewater main cost:	\$91,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Occupied estimated cost: \$91,000

- LS Lift Station Required
- Wastewater Extension (to Occupied)
- Wastewater Main Extension
- Water Extension (to Occupied)
- Water Main Extension
- Occupied Property Classes

Unservd Properties

- Needs Water Service
- Needs Wastewater Service
- Needs Water/Wastewater Service

The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* *This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020

Project Area 47-1-A / Crest Hill & Hunnicut

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 7

Unserved Properties (Occupied & Unoccupied)

Number of unserved properties:	16
Approximate unserved area (Acre):	8.2
Needed Wastewater main length (ft):	1,530
Needed Wastewater main cost:	\$459,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Total estimated cost: \$459,000

Unserved Properties (Occupied)

Number of unserved properties:	7
Needed Wastewater main length (ft):	1,530
Needed Wastewater main cost:	\$459,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Occupied estimated cost: \$459,000

- LS Lift Station Required
- Wastewater Extension (to Occupied)
- Wastewater Main Extension
- Water Extension (to Occupied)
- Water Main Extension
- Occupied Property Classes

Unserved Properties

- Needs Water Service
- Needs Wastewater Service
- Needs Water/Wastewater Service

The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* *This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020



Project Area 47-2-A / 5225 Barber Ave.

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 7

Unserved Properties (Occupied & Unoccupied)

Number of unserved properties:	8
Approximate unserved area (Acre):	7.7
Needed Wastewater main length (ft):	1,340
Needed Wastewater main cost:	\$401,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Total estimated cost: \$401,000

Unserved Properties (Occupied)

Number of unserved properties:	1
Needed Wastewater main length (ft):	1,130
Needed Wastewater main cost:	\$340,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Occupied estimated cost: \$340,000

- LS Lift Station Required
- Wastewater Extension (to Occupied)
- Wastewater Main Extension
- Water Extension (to Occupied)
- Water Main Extension
- Occupied Property Classes

Unserved Properties

- Needs Water Service
- Needs Wastewater Service
- Needs Water/Wastewater Service

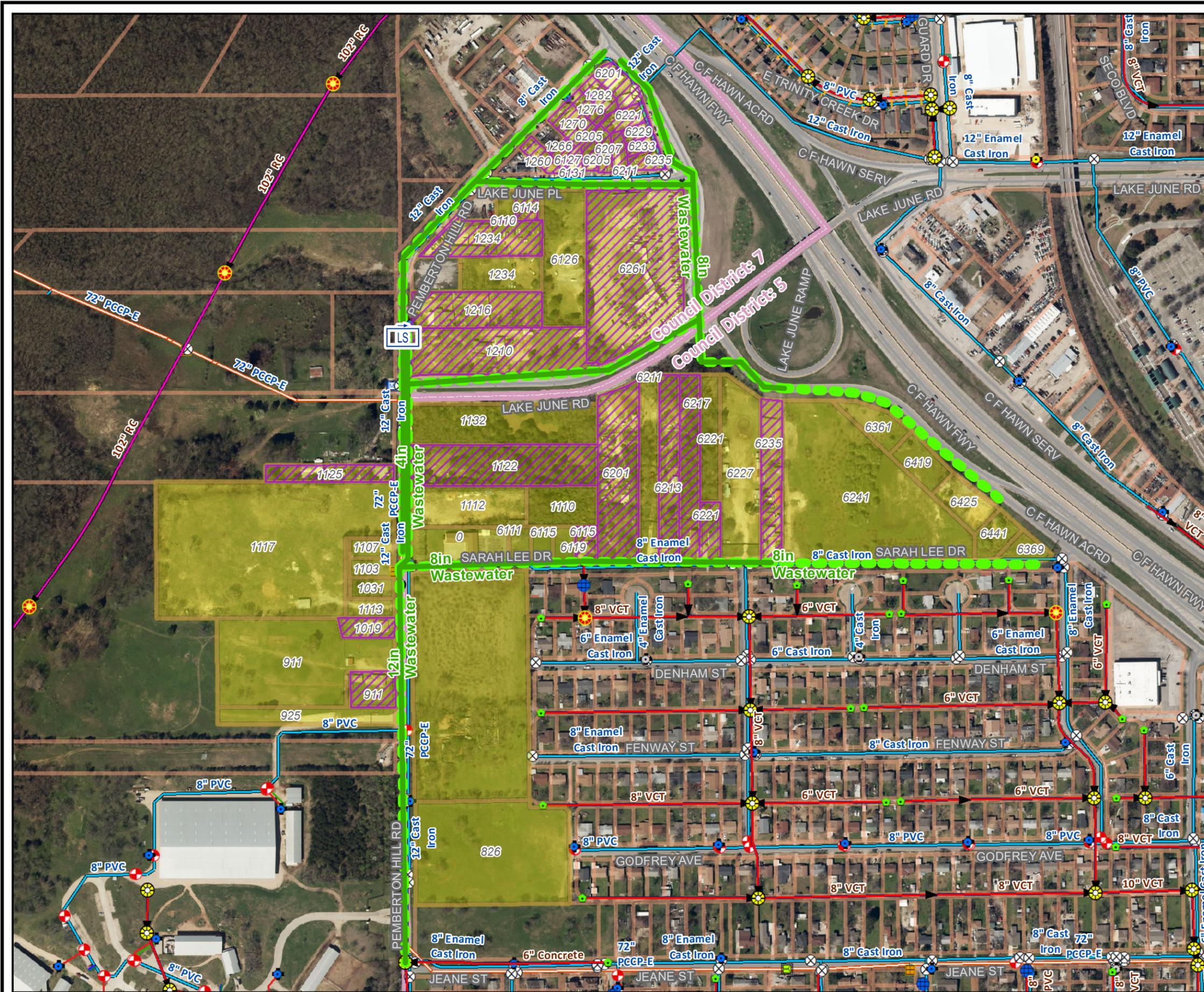
The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020



Project Area 57-1-A / Lake June Rd. at Pemberton Hill

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 7

Unserved Properties (Occupied & Unoccupied)

Number of unserved properties:	60
Approximate unserved area (Acre):	62.2
Needed Wastewater main length (ft):	10,330
Needed Wastewater main cost:	\$3,110,000
Needed Lift Station cost:	\$400,000
Needed Water main length (ft):	0
Needed Water main cost:	\$0
Total estimated cost:	\$3,510,000

Unserved Properties (Occupied)

Number of unserved properties:	29
Needed Wastewater main length (ft):	8,580
Needed Wastewater main cost:	\$2,583,000
Needed Lift Station cost:	\$400,000
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Occupied estimated cost: \$2,983,000

- LS Lift Station Required
- Wastewater Extension (to Occupied)
- Wastewater Main Extension
- Water Extension (to Occupied)
- Water Main Extension
- Occupied Property Classes

Unserved Properties

- Needs Water Service
- Needs Wastewater Service
- Needs Water/Wastewater Service

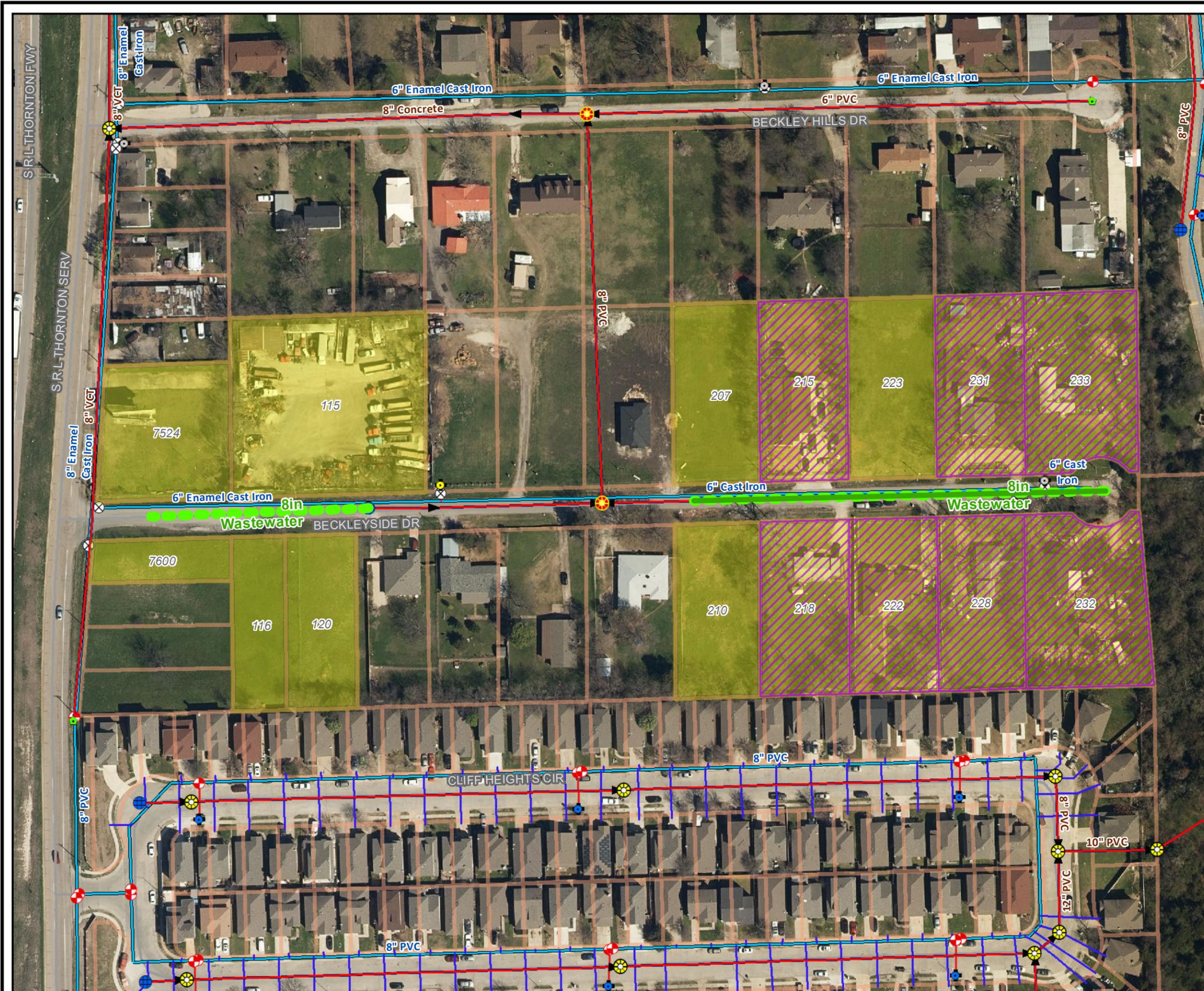
The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020



Project Area 64-2-A / Beckleyside Dr.

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 8

Unserved Properties (Occupied & Unoccupied)

Number of unserved properties:	15
Approximate unserved area (Acre):	7.4
Needed Wastewater main length (ft):	730
Needed Wastewater main cost:	\$218,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Total estimated cost: \$218,000

Unserved Properties (Occupied)

Number of unserved properties:	7
Needed Wastewater main length (ft):	480
Needed Wastewater main cost:	\$143,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Occupied estimated cost: \$143,000



The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020



Project Area 65-1-A / 5604 S. Lancaster Rd.

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 8

Unserved Properties (Occupied & Unoccupied)

Number of unserved properties:	13
Approximate unserved area (Acre):	29.6
Needed Wastewater main length (ft):	4,230
Needed Wastewater main cost:	\$1,268,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Total estimated cost: \$1,268,000

Unserved Properties (Occupied)

Number of unserved properties:	7
Needed Wastewater main length (ft):	1,650
Needed Wastewater main cost:	\$494,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Occupied estimated cost: \$494,000



The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020



Project Area 65-3-A / Gooch St.

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 8

Unserved Properties (Occupied & Unoccupied)

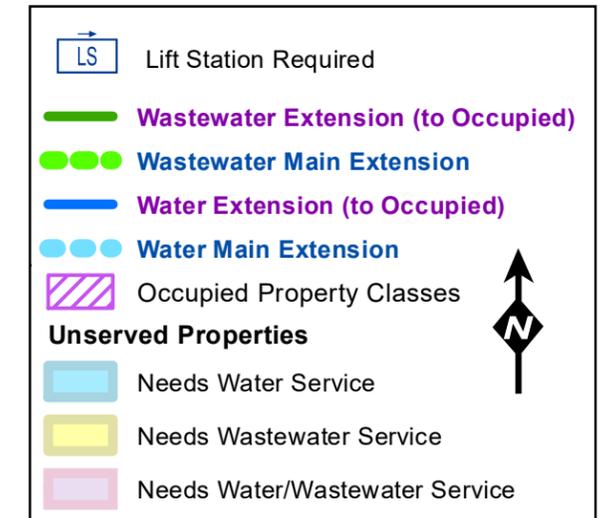
Number of unserved properties:	32
Approximate unserved area (Acre):	6.4
Needed Wastewater main length (ft):	1,190
Needed Wastewater main cost:	\$358,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	1,150
Needed Water main cost:	\$288,000

Total estimated cost: \$646,000

Unserved Properties (Occupied)

Number of unserved properties:	0
Needed Wastewater main length (ft):	0
Needed Wastewater main cost:	\$0
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Occupied estimated cost: \$0



The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020



Project Area 66-3-A / Persimmon Rd. at Kitty St.

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 8

Unserved Properties (Occupied & Unoccupied)

Number of unserved properties:	12
Approximate unserved area (Acre):	27.4
Needed Wastewater main length (ft):	1,790
Needed Wastewater main cost:	\$536,000
Needed Lift Station cost:	\$400,000
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Total estimated cost: \$936,000

Unserved Properties (Occupied)

Number of unserved properties:	0
Needed Wastewater main length (ft):	0
Needed Wastewater main cost:	\$0
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Occupied estimated cost: \$0

Lift Station Required

Wastewater Extension (to Occupied)

Wastewater Main Extension

Water Extension (to Occupied)

Water Main Extension

Occupied Property Classes

Unserved Properties

Needs Water Service

Needs Wastewater Service

Needs Water/Wastewater Service

The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* *This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020

Project Area 66-4-B / Cedardale Dr. at Riverside Rd.

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 8

Unserved Properties (Occupied & Unoccupied)

Number of unserved properties:	13
Approximate unserved area (Acre):	49.9
Needed Wastewater main length (ft):	1,930
Needed Wastewater main cost:	\$580,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Total estimated cost: \$580,000

Unserved Properties (Occupied)

Number of unserved properties:	6
Needed Wastewater main length (ft):	1,930
Needed Wastewater main cost:	\$580,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Occupied estimated cost: \$580,000

Lift Station Required

Wastewater Extension (to Occupied)

Wastewater Main Extension

Water Extension (to Occupied)

Water Main Extension

Occupied Property Classes

Unserved Properties

Needs Water Service

Needs Wastewater Service

Needs Water/Wastewater Service

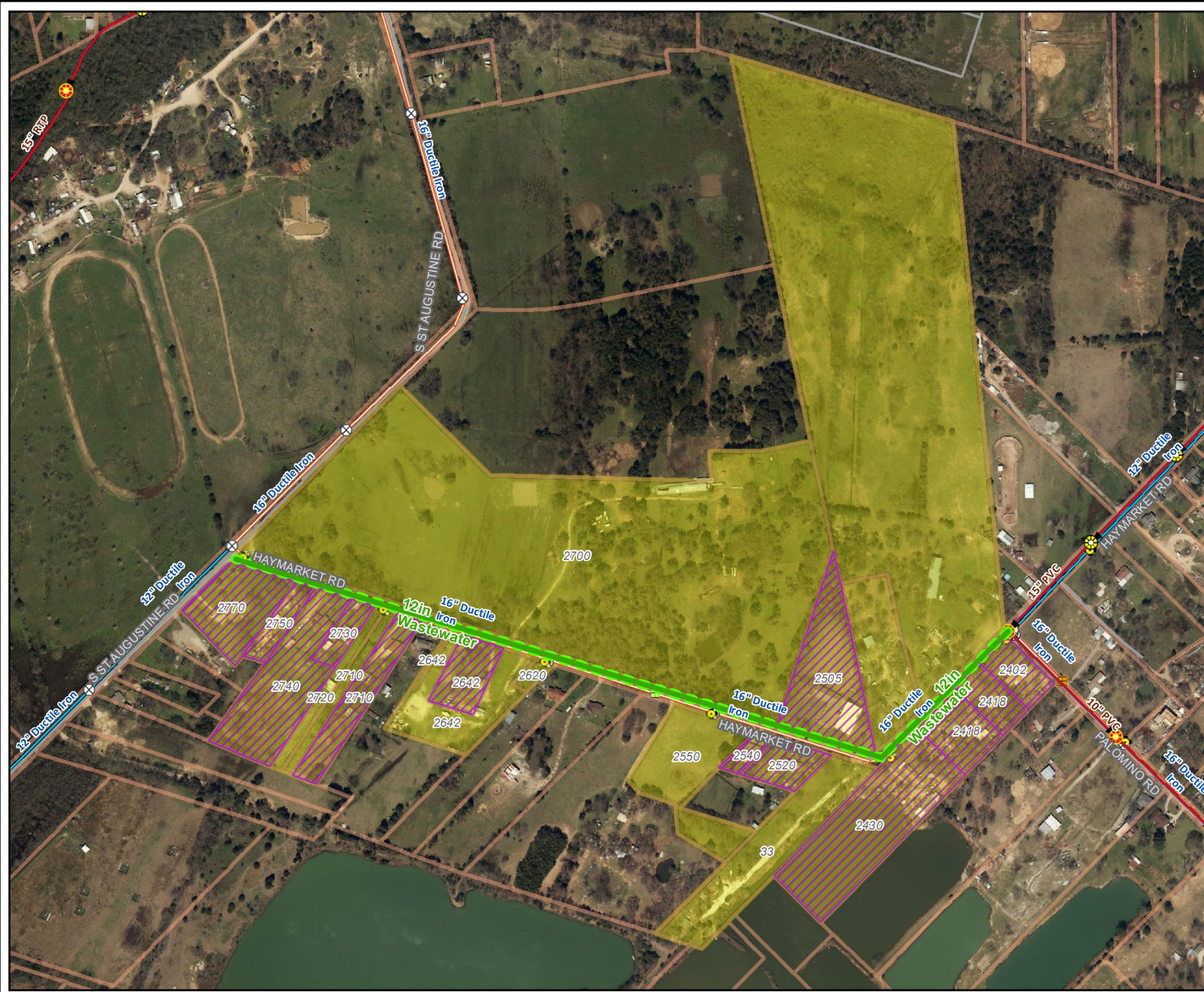
The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* *This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020



Project Area 69-2-A / Haymarket Rd. at St. Augustine Rd.

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 8

Unservd Properties (Occupied & Unoccupied)

Number of unservd properties:	23
Approximate unservd area (Acre):	120
Needed Wastewater main length (ft):	3,520
Needed Wastewater main cost:	\$1,234,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Total estimated cost: \$1,234,000

Unservd Properties (Occupied)

Number of unservd properties:	13
Needed Wastewater main length (ft):	3,520
Needed Wastewater main cost:	\$1,234,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Occupied estimated cost: \$1,234,000



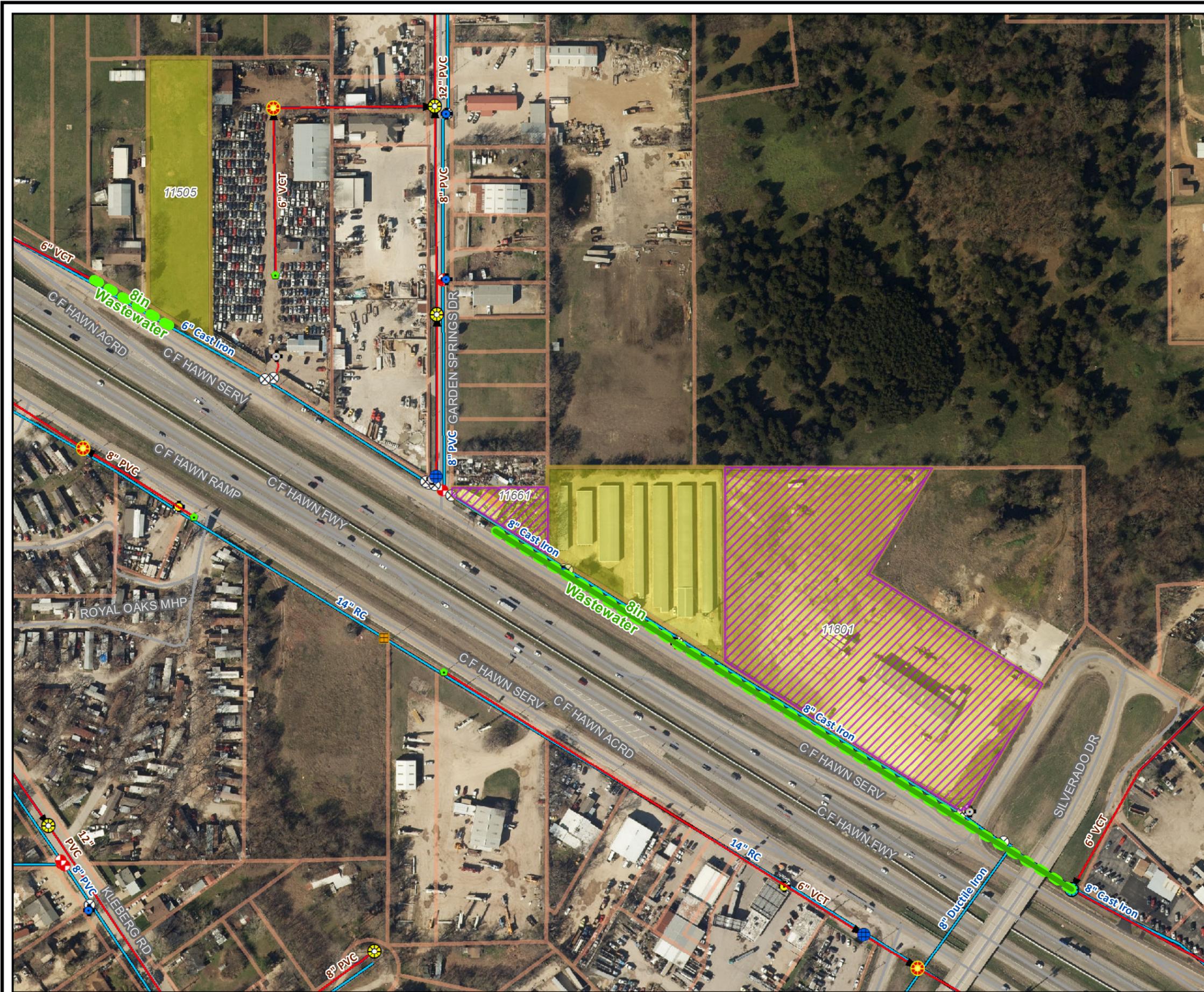
The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020



Project Area 69-3-A / CF Hawn Fwy. at Silverado Dr.

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 8

Unserved Properties (Occupied & Unoccupied)

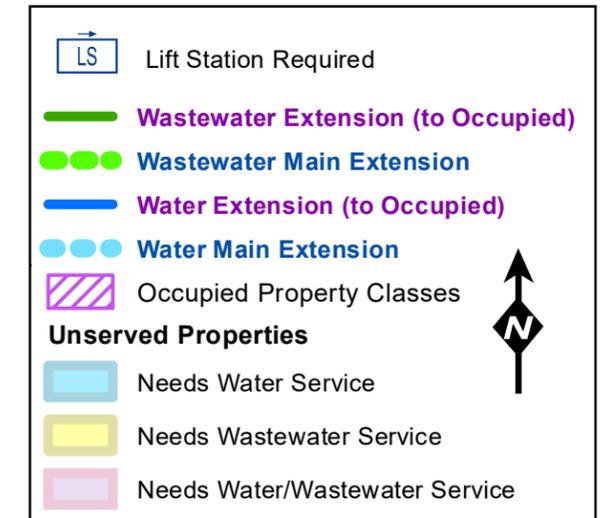
Number of unserved properties:	4
Approximate unserved area (Acre):	10.4
Needed Wastewater main length (ft):	1,600
Needed Wastewater main cost:	\$479,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Total estimated cost: \$479,000

Unserved Properties (Occupied)

Number of unserved properties:	2
Needed Wastewater main length (ft):	1,400
Needed Wastewater main cost:	\$419,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Occupied estimated cost: \$419,000



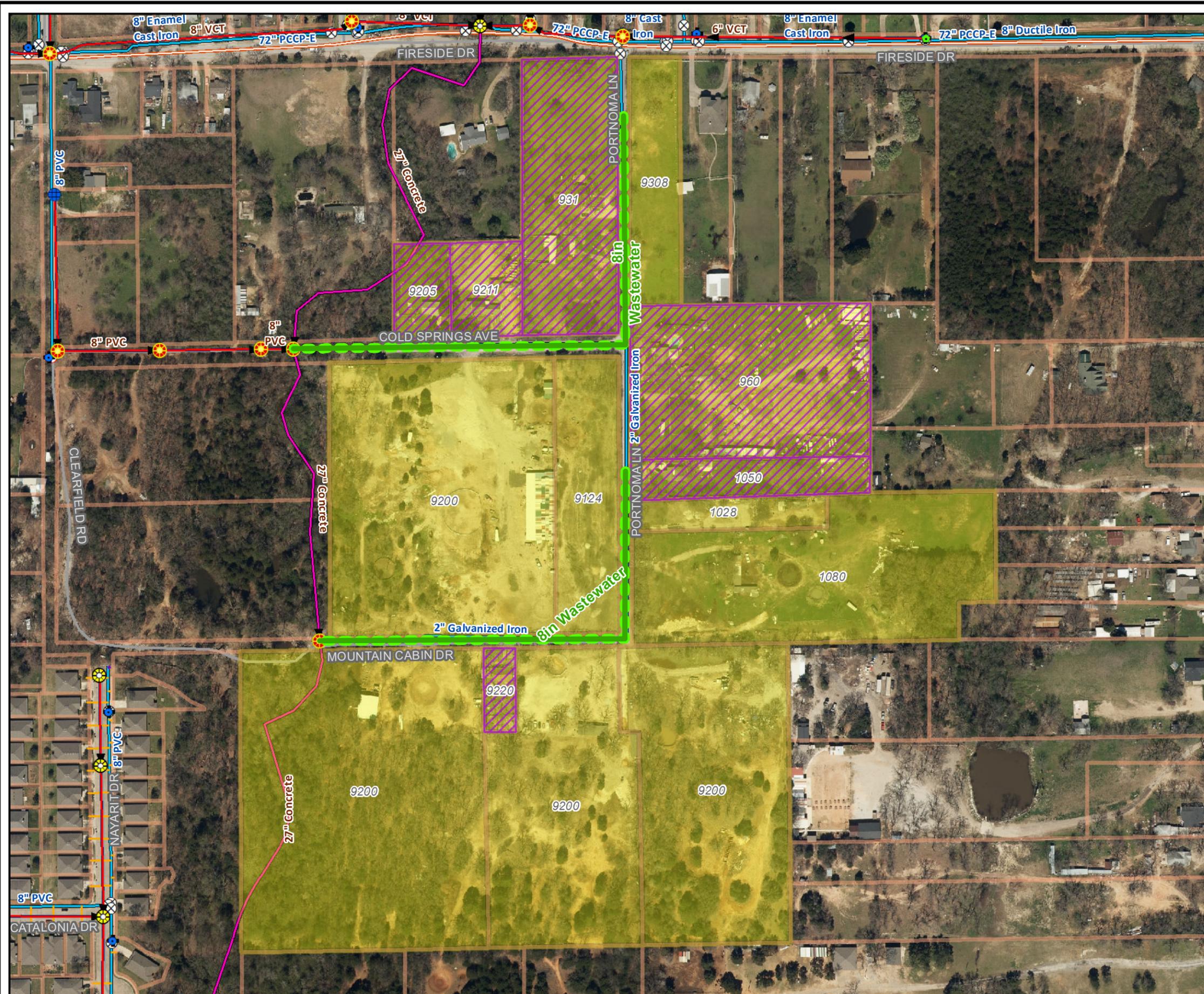
The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020



Project Area 69-4-A / Portnoma Ln.

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 8

Unservd Properties (Occupied & Unoccupied)

Number of unservd properties:	14
Approximate unservd area (Acre):	44.2
Needed Wastewater main length (ft):	2,290
Needed Wastewater main cost:	\$686,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Total estimated cost: \$686,000

Unservd Properties (Occupied)

Number of unservd properties:	6
Needed Wastewater main length (ft):	2,290
Needed Wastewater main cost:	\$686,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Occupied estimated cost: \$686,000

Lift Station Required

Wastewater Extension (to Occupied)

Wastewater Main Extension

Water Extension (to Occupied)

Water Main Extension

Occupied Property Classes

Unservd Properties

Needs Water Service

Needs Wastewater Service

Needs Water/Wastewater Service

The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020



Project Area 69-5-A / Timberloam Dr.

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 8

Unserved Properties (Occupied & Unoccupied)

Number of unserved properties:	14
Approximate unserved area (Acre):	16.2
Needed Wastewater main length (ft):	1,210
Needed Wastewater main cost:	\$363,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Total estimated cost: \$363,000

Unserved Properties (Occupied)

Number of unserved properties:	9
Needed Wastewater main length (ft):	1,210
Needed Wastewater main cost:	\$363,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Occupied estimated cost: \$363,000

	Lift Station Required
	Wastewater Extension (to Occupied)
	Wastewater Main Extension
	Water Extension (to Occupied)
	Water Main Extension
	Occupied Property Classes
Unserved Properties	
	Needs Water Service
	Needs Wastewater Service
	Needs Water/Wastewater Service

The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020



Project Area 69-5-B / Mickey Dr.

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 8

Unserved Properties (Occupied & Unoccupied)

Number of unserved properties:	4
Approximate unserved area (Acre):	3.2
Needed Wastewater main length (ft):	640
Needed Wastewater main cost:	\$193,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Total estimated cost: \$193,000

Unserved Properties (Occupied)

Number of unserved properties:	1
Needed Wastewater main length (ft):	640
Needed Wastewater main cost:	\$193,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Occupied estimated cost: \$193,000

Legend

- LS Lift Station Required
- Wastewater Extension (to Occupied)
- Wastewater Main Extension
- Water Extension (to Occupied)
- Water Main Extension
- Occupied Property Classes

Unserved Properties

- Needs Water Service
- Needs Wastewater Service
- Needs Water/Wastewater Service

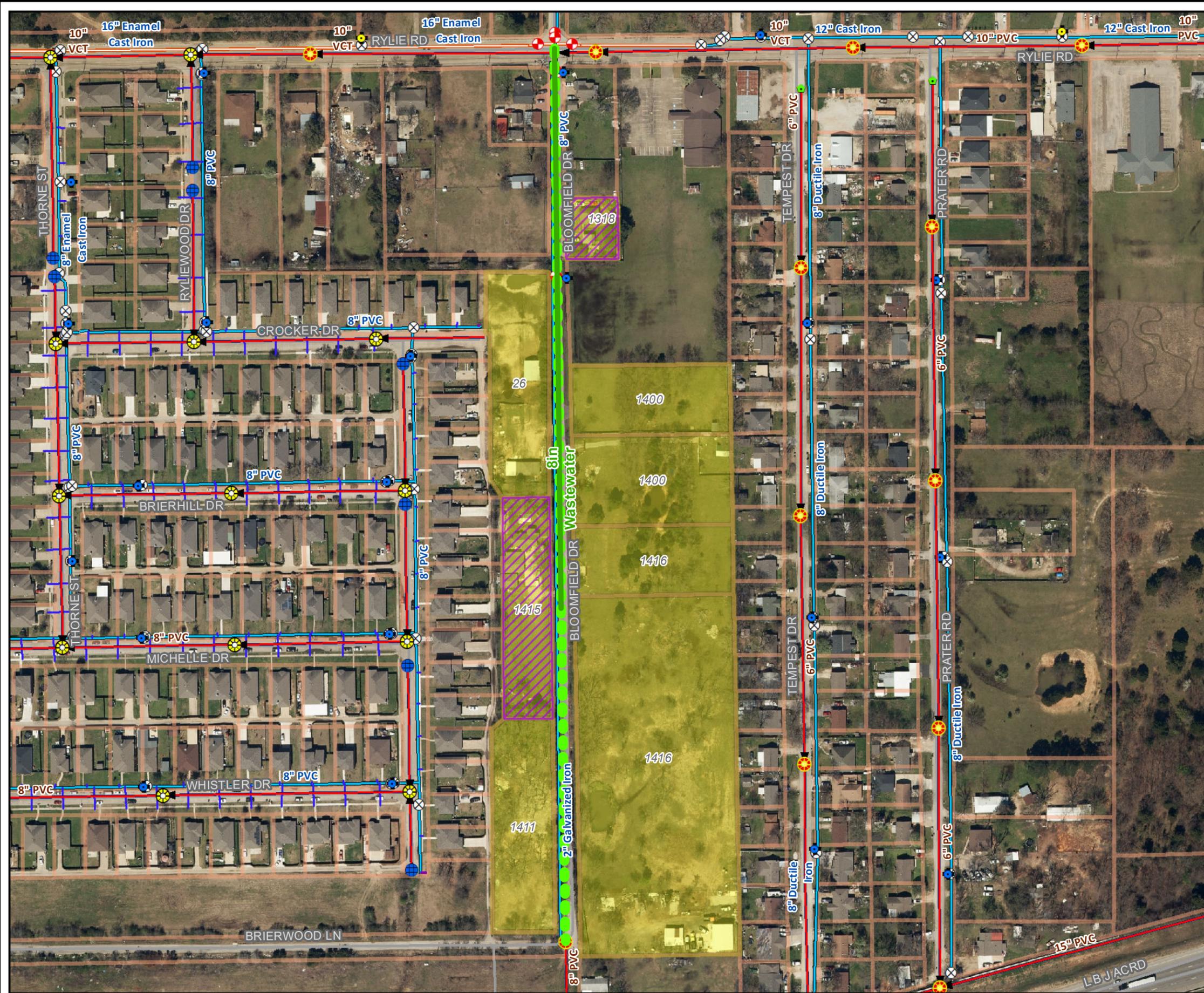
The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020



Project Area 69-6-A / Bloomfield Dr.

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 8

Unserved Properties (Occupied & Unoccupied)

Number of unserved properties:	8
Approximate unserved area (Acre):	12
Needed Wastewater main length (ft):	1,760
Needed Wastewater main cost:	\$528,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0
Total estimated cost:	\$528,000

Unserved Properties (Occupied)

Number of unserved properties:	2
Needed Wastewater main length (ft):	1,100
Needed Wastewater main cost:	\$331,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0
Occupied estimated cost:	\$331,000

- LS Lift Station Required
- Wastewater Extension (to Occupied)
- Wastewater Main Extension
- Water Extension (to Occupied)
- Water Main Extension
- Occupied Property Classes

Unserved Properties

- Needs Water Service
- Needs Wastewater Service
- Needs Water/Wastewater Service

The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020



Project Area 69-7-A / Cade Rd. and Ellenwood Dr.

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 8

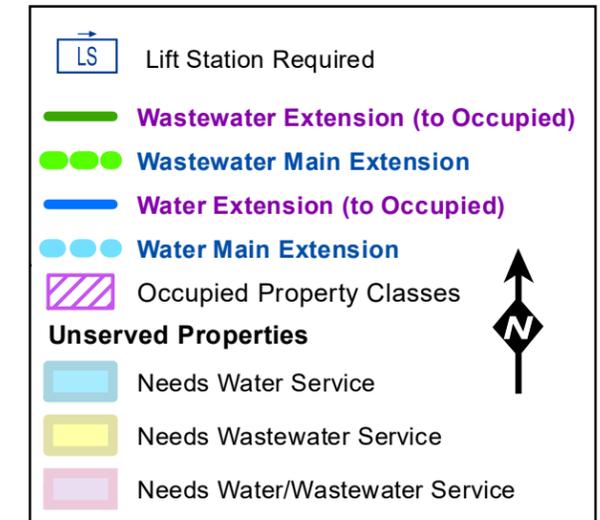
Unservd Properties (Occupied & Unoccupied)

Number of unserved properties:	10
Approximate unserved area (Acre):	14.5
Needed Wastewater main length (ft):	1,650
Needed Wastewater main cost:	\$495,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	1,120
Needed Water main cost:	\$281,000
Total estimated cost:	\$776,000

Unservd Properties (Occupied)

Number of unserved properties:	3
Needed Wastewater main length (ft):	1,290
Needed Wastewater main cost:	\$386,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Occupied estimated cost: \$386,000



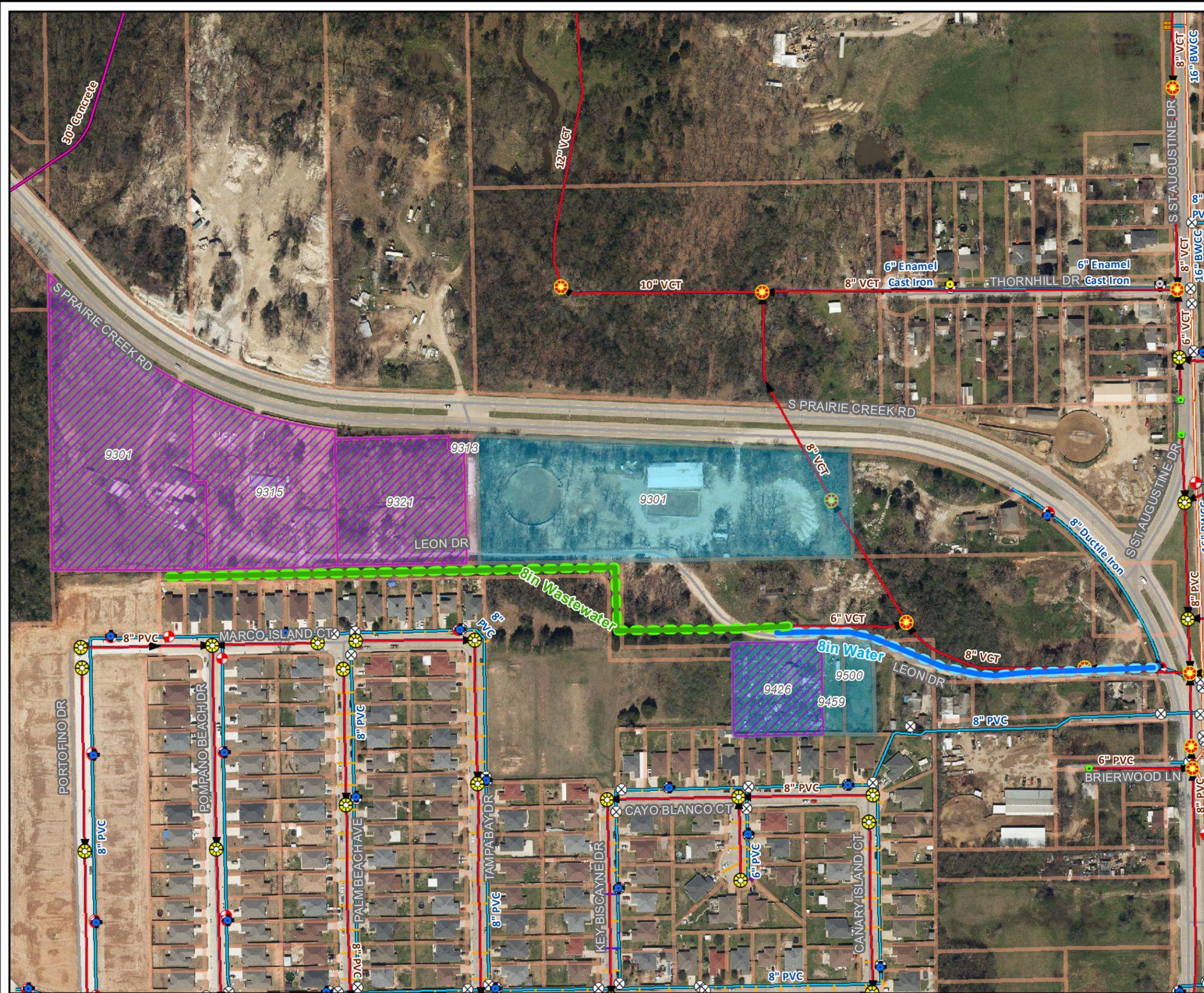
The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020



Project Area 69-8-A / S. Prairie Creek Rd. and Leon Dr.

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 8

Unserviced Properties (Occupied & Unoccupied)

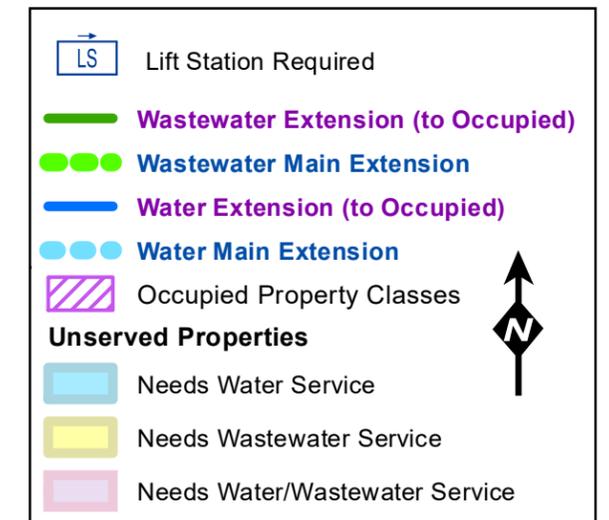
Number of unserved properties:	8
Approximate unserved area (Acre):	15.9
Needed Wastewater main length (ft):	1,580
Needed Wastewater main cost:	\$475,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	890
Needed Water main cost:	\$614,000

Total estimated cost: \$1,089,000

Unserviced Properties (Occupied)

Number of unserved properties:	4
Needed Wastewater main length (ft):	1,580
Needed Wastewater main cost:	\$475,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	890
Needed Water main cost:	\$224,000

Occupied estimated cost: \$699,000



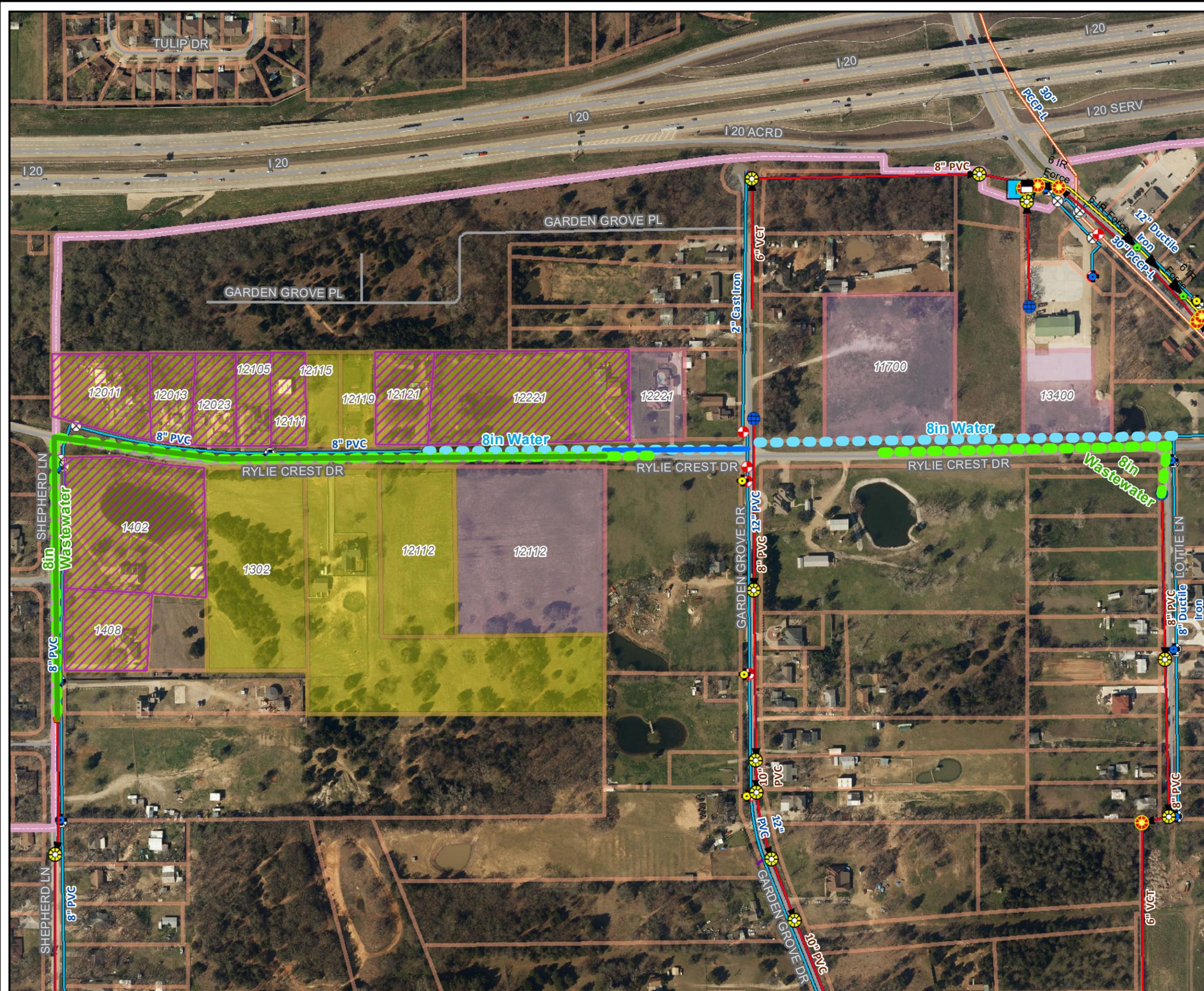
The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020



Project Area 69A-2-A / Rylie Crest Dr.

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 8

Unserved Properties (Occupied & Unoccupied)

Number of unserved properties:	18
Approximate unserved area (Acre):	40.1
Needed Wastewater main length (ft):	3,570
Needed Wastewater main cost:	\$1,071,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	2,200
Needed Water main cost:	\$550,000

Total estimated cost: \$1,621,000

Unserved Properties (Occupied)

Number of unserved properties:	9
Needed Wastewater main length (ft):	2,460
Needed Wastewater main cost:	\$737,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	420
Needed Water main cost:	\$106,000

Occupied estimated cost: \$843,000



The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020



Project Area 69A-3-A / Denmark St.

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 8

Unserved Properties (Occupied & Unoccupied)

Number of unserved properties:	11
Approximate unserved area (Acre):	2.1
Needed Wastewater main length (ft):	470
Needed Wastewater main cost:	\$142,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Total estimated cost: \$142,000

Unserved Properties (Occupied)

Number of unserved properties:	2
Needed Wastewater main length (ft):	410
Needed Wastewater main cost:	\$124,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Occupied estimated cost: \$124,000

Lift Station Required

Wastewater Extension (to Occupied)

Wastewater Main Extension

Water Extension (to Occupied)

Water Main Extension

Occupied Property Classes

Unserved Properties

Needs Water Service

Needs Wastewater Service

Needs Water/Wastewater Service

The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020



Project Area 69A-3-B / Windfall Cir.

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 8

Unservd Properties (Occupied & Unoccupied)

Number of unservd properties:	6
Approximate unservd area (Acre):	5.3
Needed Wastewater main length (ft):	630
Needed Wastewater main cost:	\$188,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	630
Needed Water main cost:	\$156,000

Total estimated cost: \$344,000

Unservd Properties (Occupied)

Number of unservd properties:	3
Needed Wastewater main length (ft):	360
Needed Wastewater main cost:	\$108,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	360
Needed Water main cost:	\$89,000

Occupied estimated cost: \$197,000

- LS Lift Station Required
- Wastewater Extension (to Occupied)
- Wastewater Main Extension
- Water Extension (to Occupied)
- Water Main Extension
- Occupied Property Classes

Unservd Properties

- Needs Water Service
- Needs Wastewater Service
- Needs Water/Wastewater Service

The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020

0

37.5

75

150

225

Feet

Project Area 69A-7-A / Woody Rd. & Royal Oaks Dr.

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 8

Unserved Properties (Occupied & Unoccupied)

Number of unserved properties:	62
Approximate unserved area (Acre):	109.9
Needed Wastewater main length (ft):	6,140
Needed Wastewater main cost:	\$1,842,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Total estimated cost: \$1,842,000

Unserved Properties (Occupied)

Number of unserved properties:	54
Needed Wastewater main length (ft):	5,950
Needed Wastewater main cost:	\$1,785,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Occupied estimated cost: \$1,785,000

- LS Lift Station Required
- Wastewater Extension (to Occupied)
- Wastewater Main Extension
- Water Extension (to Occupied)
- Water Main Extension
- Occupied Property Classes

Unserved Properties

- Needs Water Service
- Needs Wastewater Service
- Needs Water/Wastewater Service

The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020



Project Area 70-1-A / Tanglewood Estates

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 8

Unserved Properties (Occupied & Unoccupied)

Number of unserved properties:	33
Approximate unserved area (Acre):	51.6
Needed Wastewater main length (ft):	5,480
Needed Wastewater main cost:	\$1,555,000
Needed Lift Station cost:	\$400,000
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Total estimated cost: \$1,955,000

Unserved Properties (Occupied)

Number of unserved properties:	27
Needed Wastewater main length (ft):	5,380
Needed Wastewater main cost:	\$1,526,000
Needed Lift Station cost:	\$400,000
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Occupied estimated cost: \$1,926,000



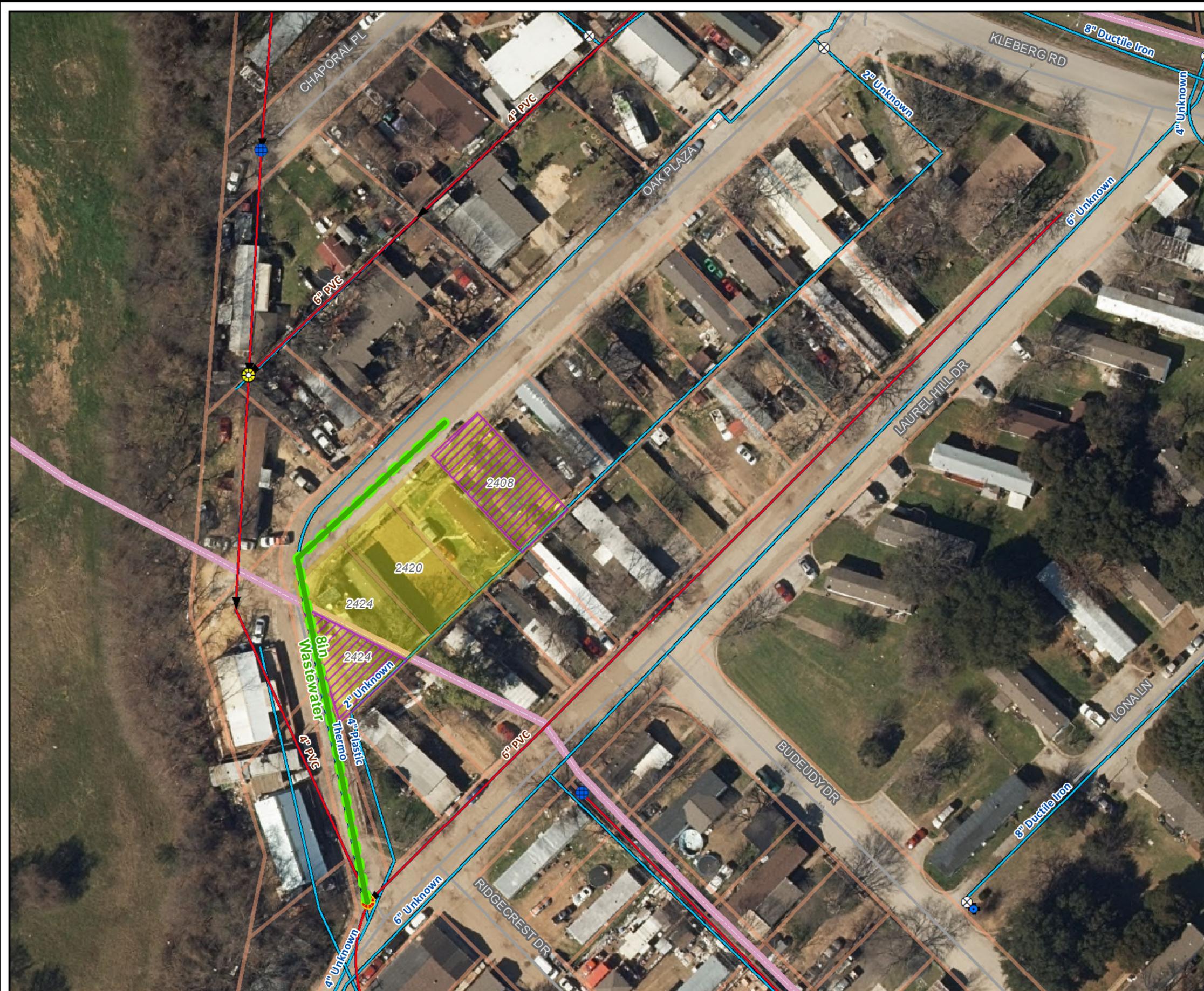
The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020



Project Area 70-2-A / Oak Plaza

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 8

Unserved Properties (Occupied & Unoccupied)

Number of unserved properties:	8
Approximate unserved area (Acre):	0.9
Needed Wastewater main length (ft):	700
Needed Wastewater main cost:	\$103,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Total estimated cost: \$103,000

Unserved Properties (Occupied)

Number of unserved properties:	2
Needed Wastewater main length (ft):	350
Needed Wastewater main cost:	\$103,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Occupied estimated cost: \$103,000



The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* *This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020



Project Area 73-3-A / Parakeet Ln. & Hilloak Dr.

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 8

Unservd Properties (Occupied & Unoccupied)

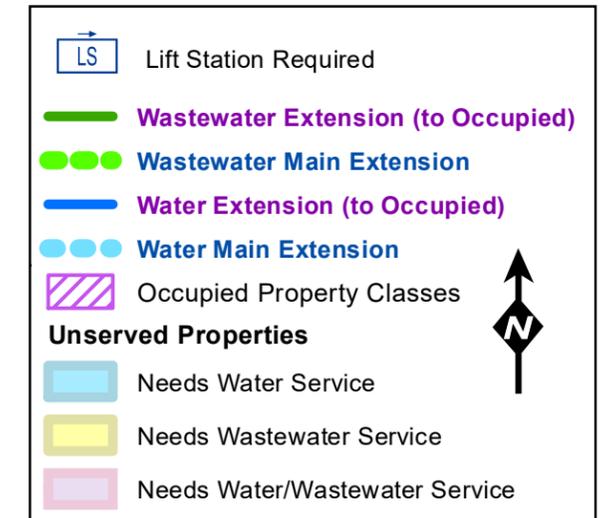
Number of unservd properties:	6
Approximate unservd area (Acre):	11
Needed Wastewater main length (ft):	1,120
Needed Wastewater main cost:	\$337,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Total estimated cost: \$337,000

Unservd Properties (Occupied)

Number of unservd properties:	2
Needed Wastewater main length (ft):	960
Needed Wastewater main cost:	\$287,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Occupied estimated cost: \$287,000



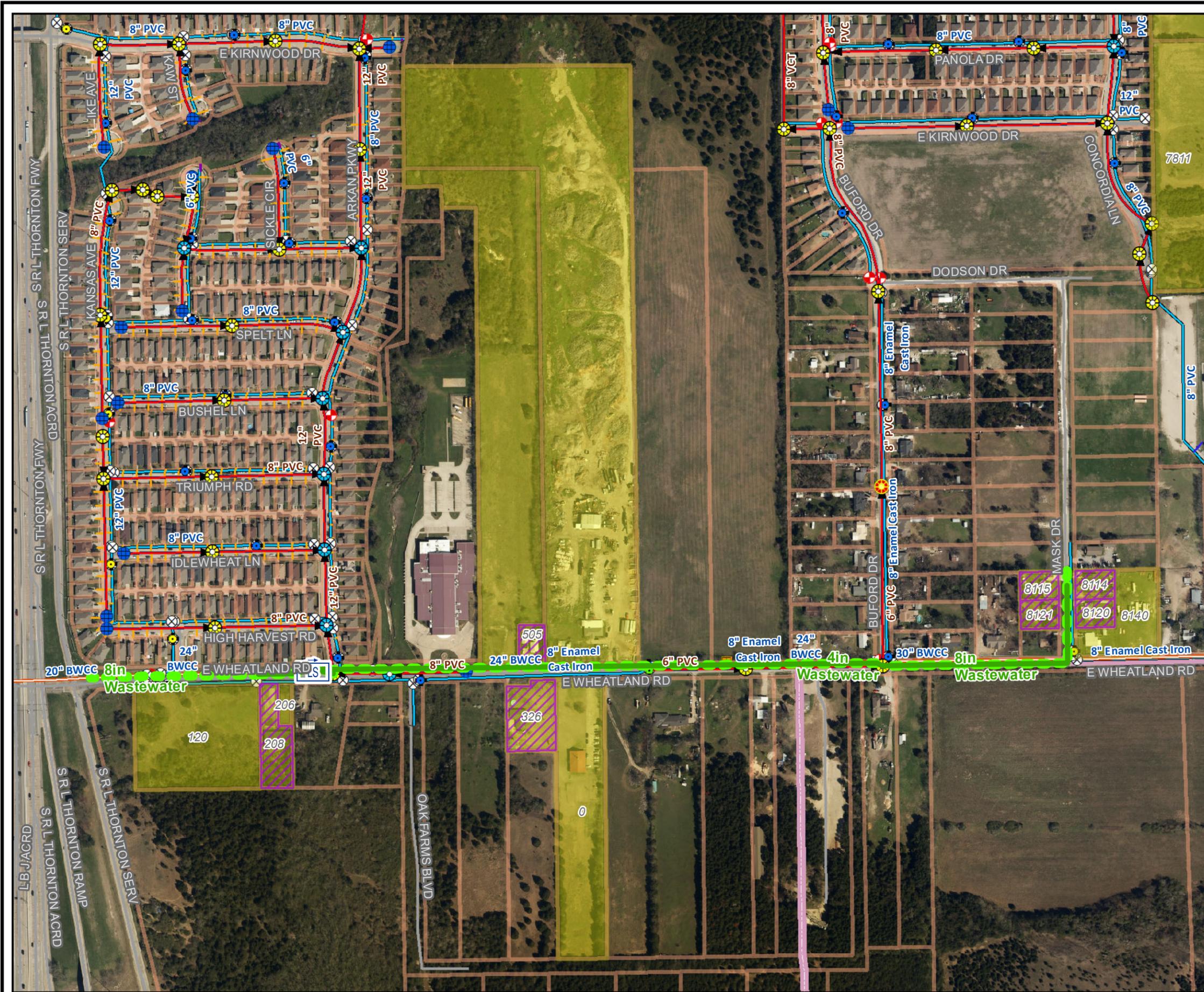
The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020



Project Area 75-2-A / E. Wheatland Rd. & Mask Dr.

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 8

Unserviced Properties (Occupied & Unoccupied)

Number of unserved properties:	13
Approximate unserved area (Acre):	42.5
Needed Wastewater main length (ft):	3,890
Needed Wastewater main cost:	\$1,024,000
Needed Lift Station cost:	\$400,000
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Total estimated cost: \$1,424,000

Unserviced Properties (Occupied)

Number of unserved properties:	7
Needed Wastewater main length (ft):	3,240
Needed Wastewater main cost:	\$829,000
Needed Lift Station cost:	\$400,000
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Occupied estimated cost: \$1,229,000

- LS Lift Station Required
- Wastewater Extension (to Occupied)
- Wastewater Main Extension
- Water Extension (to Occupied)
- Water Main Extension
- Occupied Property Classes

Unserviced Properties

- Needs Water Service
- Needs Wastewater Service
- Needs Water/Wastewater Service

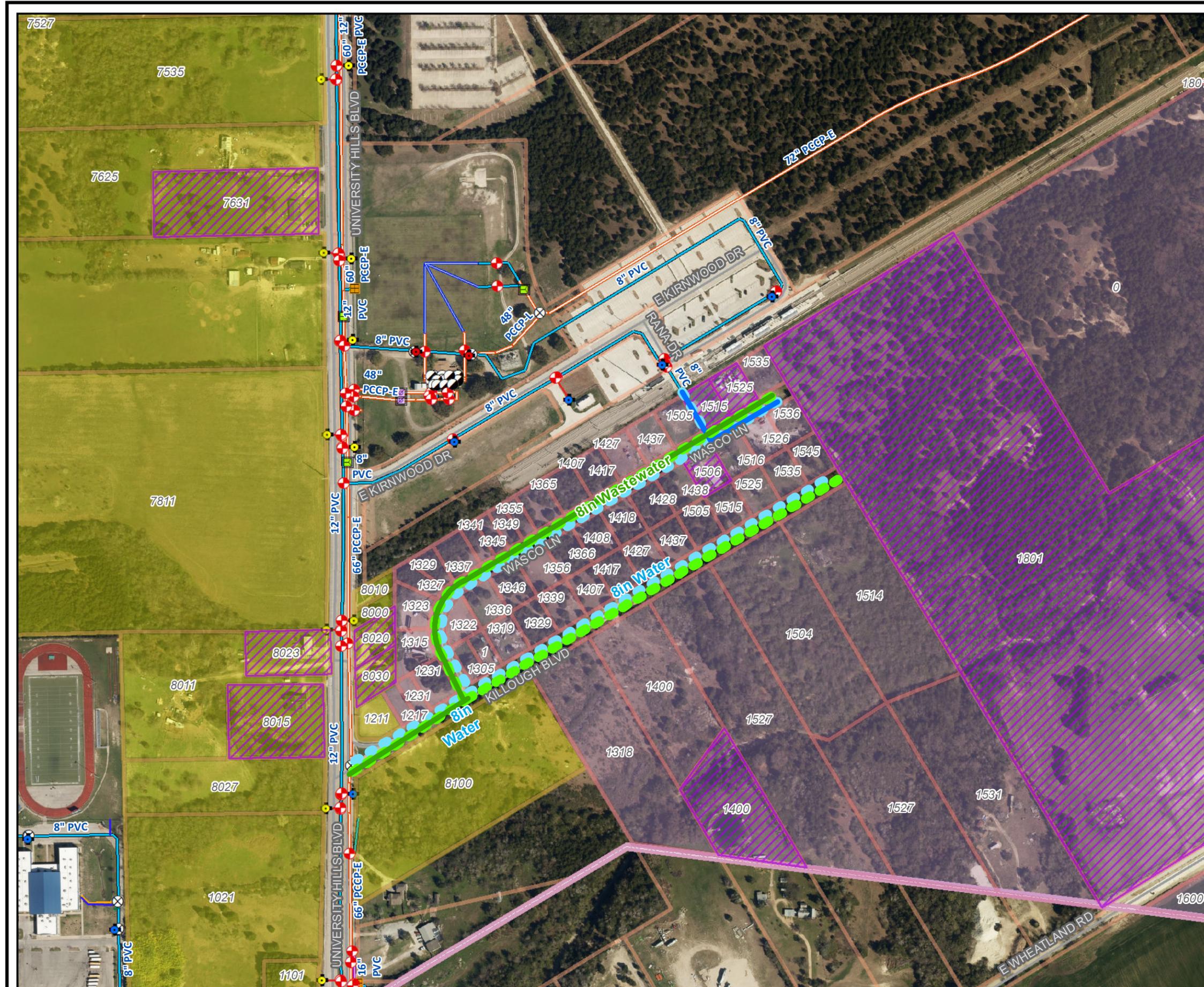
The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* *This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020



Project Area 75-4-B / Killough Blvd. & Wasco Ln.

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 8

Unserviced Properties (Occupied & Unoccupied)

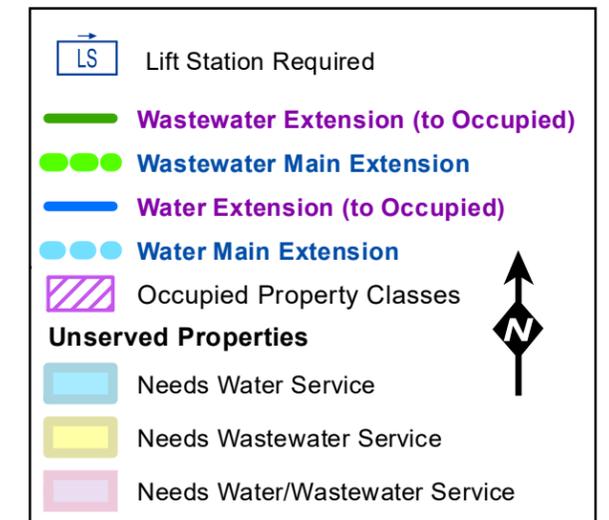
Number of unserviced properties:	55
Approximate unserved area (Acre):	20
Needed Wastewater main length (ft):	3,640
Needed Wastewater main cost:	\$546,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	3,720
Needed Water main cost:	\$764,000

Total estimated cost: \$1,310,000

Unserviced Properties (Occupied)

Number of unserviced properties:	4
Needed Wastewater main length (ft):	2,180
Needed Wastewater main cost:	\$327,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	450
Needed Water main cost:	\$87,000

Occupied estimated cost: \$414,000



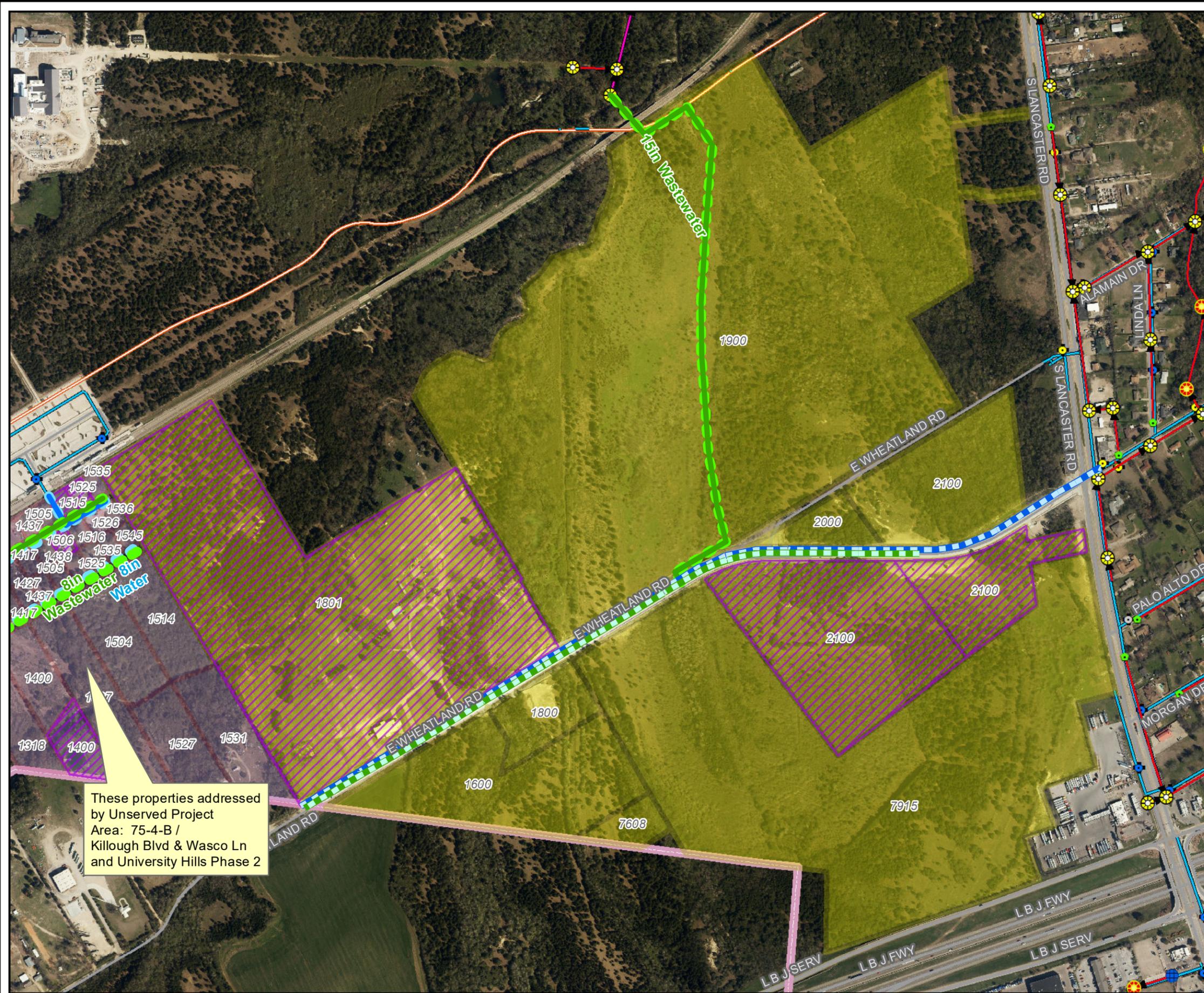
The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020



Project Area 75-4-C / Wheatland Rd at Lancaster

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



These properties addressed by Unserviced Project Area: 75-4-B / Killough Blvd & Wasco Ln and University Hills Phase 2

Council District: 8	
Unserviced Properties (Occupied & Unoccupied)	
Number of unserviced properties:	9
Approximate unserviced area (Acre):	212.5
Needed Wastewater main length (ft):	3,530
Needed Wastewater main cost:	\$820,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0
Total estimated cost:	\$820,000
Unserviced Properties (Occupied)	
Number of unserviced properties:	3
Needed Wastewater main length (ft):	3,530
Needed Wastewater main cost:	\$820,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0
Occupied estimated cost:	\$820,000

- LS Lift Station Required
- Wastewater Extension (to Occupied)
- Wastewater Main Extension
- Water Extension (to Occupied)
- Water Main Extension
- Recently Constructed Wastewater
- Recently Constructed Water
- Occupied Property Classes

Unserviced Properties

- Needs Water Service
- Needs Wastewater Service
- Needs Water/Wastewater Service

The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

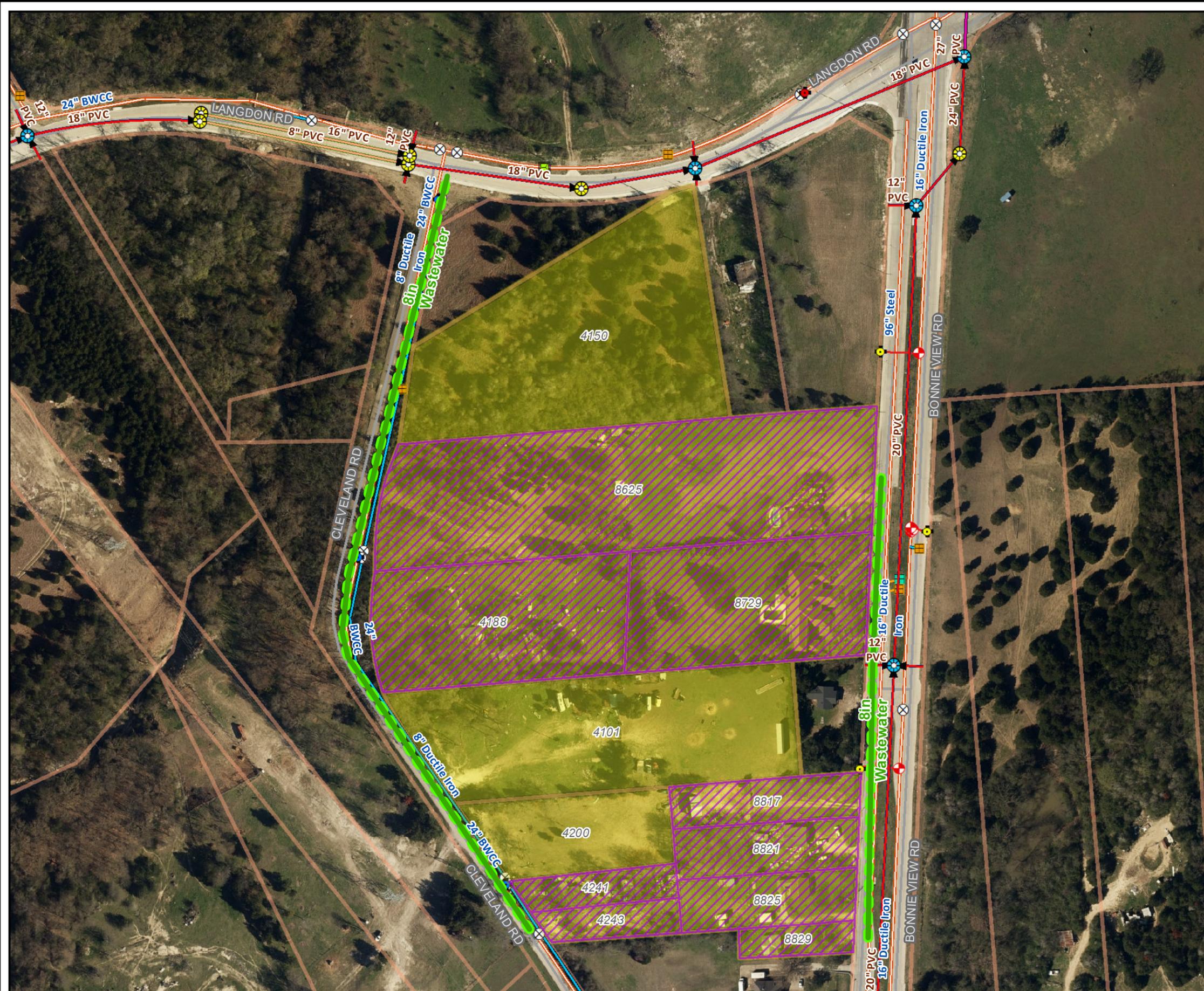
Date: 9/4/2020

0 225 450 900 1,350

Feet

Project Area 76-1-A / Cleveland Rd. & Bonnie View Rd.

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 8

Unservd Properties (Occupied & Unoccupied)

Number of unservd properties:	12
Approximate unservd area (Acre):	18.7
Needed Wastewater main length (ft):	2,210
Needed Wastewater main cost:	\$662,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Total estimated cost: \$662,000

Unservd Properties (Occupied)

Number of unservd properties:	9
Needed Wastewater main length (ft):	2,210
Needed Wastewater main cost:	\$662,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Occupied estimated cost: \$662,000

- LS Lift Station Required
- Wastewater Extension (to Occupied)
- Wastewater Main Extension
- Water Extension (to Occupied)
- Water Main Extension
- Occupied Property Classes

Unservd Properties

- Needs Water Service
- Needs Wastewater Service
- Needs Water/Wastewater Service

The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020



Project Area 76-1-C / Telephone Rd. & Van Horn Dr.

Rough alignments and cost estimates to extend water and wastewater service to vacant and occupied properties. Site-specific survey and engineering design required to validate proposed alignments and costs.



Council District: 8

Unservd Properties (Occupied & Unoccupied)

Number of unserved properties:	7
Approximate unserved area (Acre):	6.2
Needed Wastewater main length (ft):	3,370
Needed Wastewater main cost:	\$1,012,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Total estimated cost: \$1,012,000

Unservd Properties (Occupied)

Number of unserved properties:	4
Needed Wastewater main length (ft):	2,190
Needed Wastewater main cost:	\$658,000
Needed Lift Station cost:	\$0
Needed Water main length (ft):	0
Needed Water main cost:	\$0

Occupied estimated cost: \$658,000



The accuracy of the data within this map is not to be taken / used as data produced by a Registered Professional Land Surveyor for the State of Texas.* *This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes.

Date: 8/12/2020

