Overview of Draft Infrastructure Masterplans and Capital Improvements Program Advisory Committee (CIPAC) Recommendations to City Council October 2, 2023



Presentation Outline

Overview of Draft Masterplans

Water and Wastewater Mobility Plan

Overview of Impact Fees

Capital Improvements Program Advisory Committee

Role

Work to date

Recommendations to City Council

Section 1

Water and Wastewater Masterplan Overview

Purpose

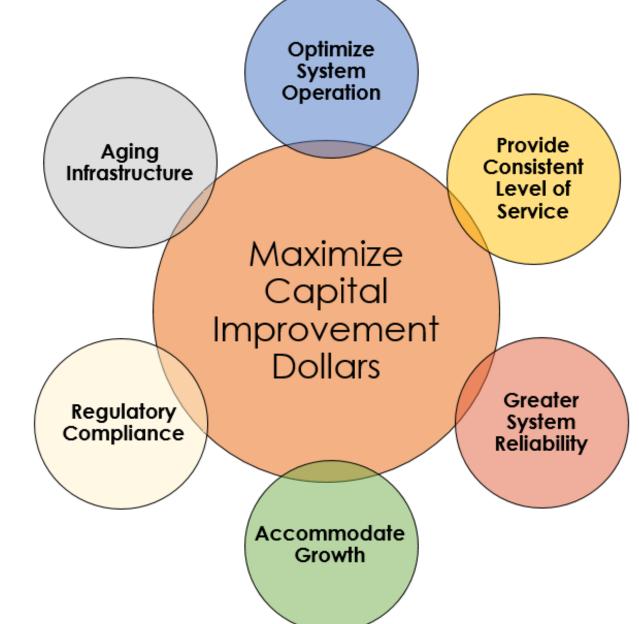
Land Use / Projected Growth

Water

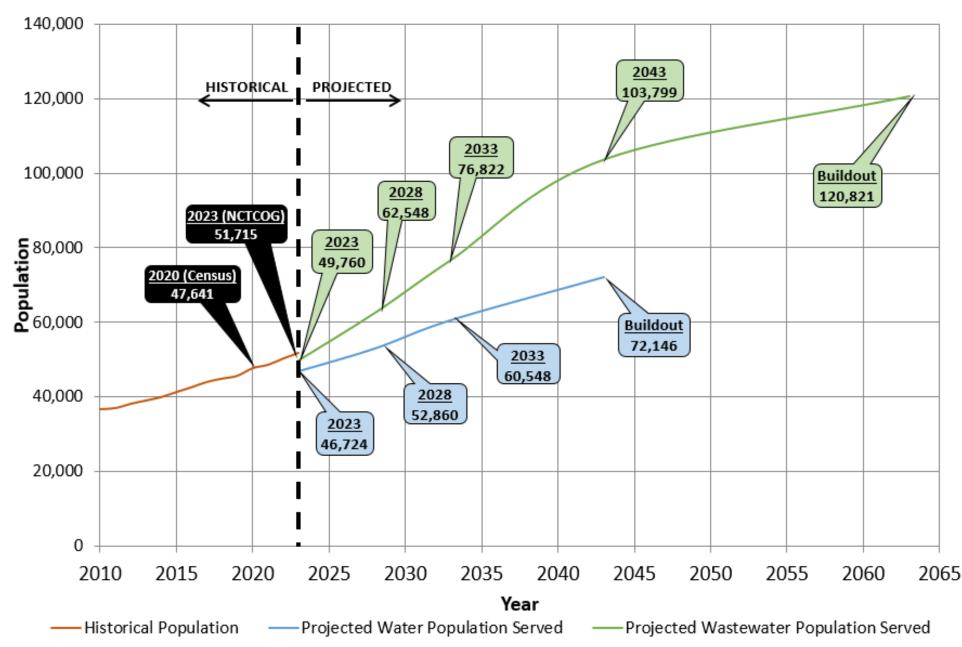
Wastewater

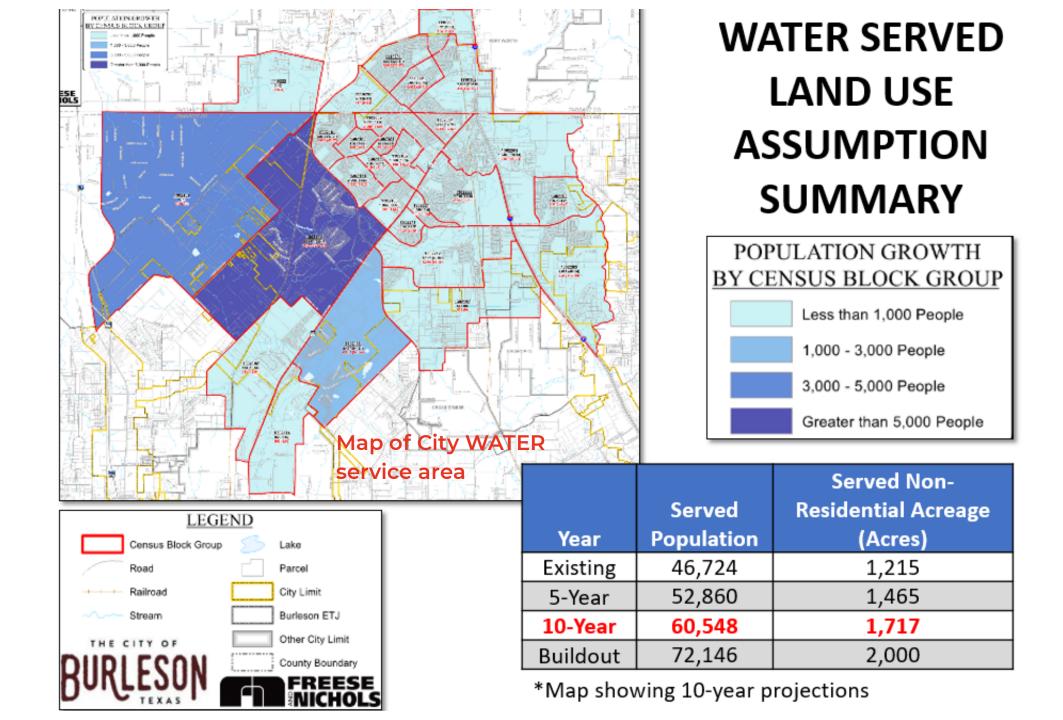
MASTER PLAN GOALS AND DRIVERS

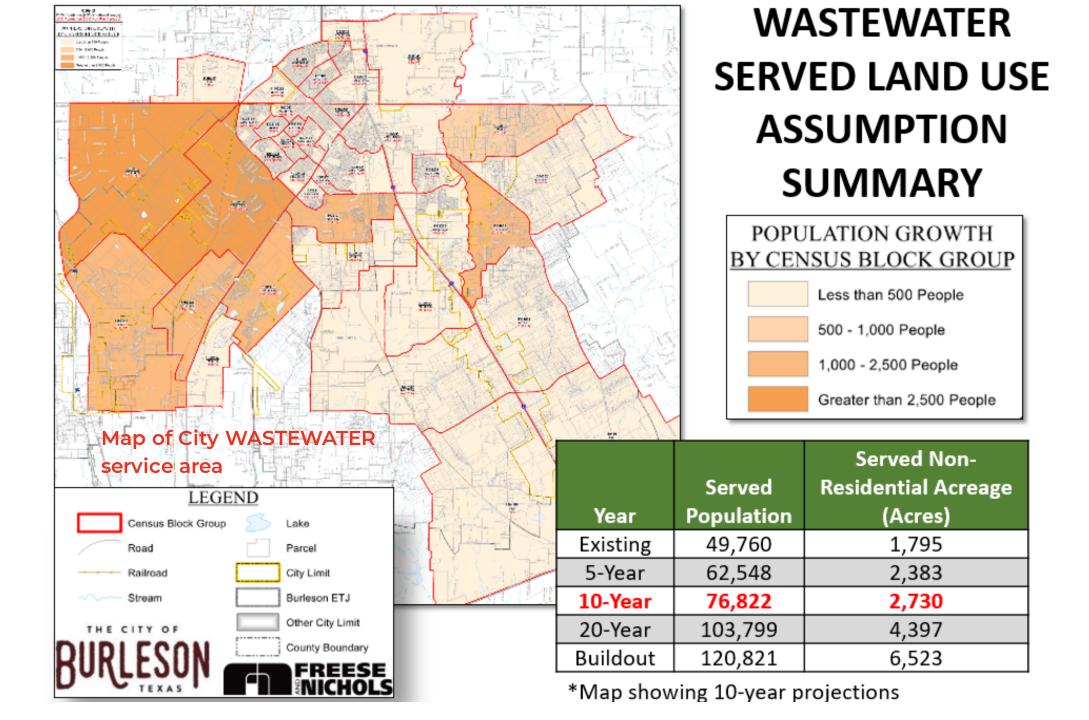
- Provide a roadmap for the future
- Identify existing system deficiencies and future needs
- Establish drivers for triggering CIP
- Master Plan CIP serves as the basis for the Impact Fee Eligible CIP



POPULATION SERVED PROJECTIONS



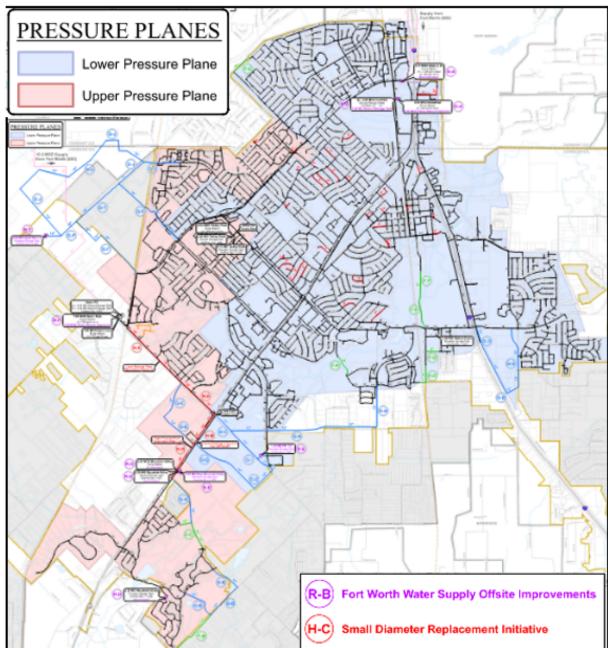




WATER SYSTEM CIP

Project Driver	Water CIP Cost
Hydraulic	\$ 11,532,500
Restriction	Ş 11,552,500
Growth/	\$ 24,662,000
Development	Ş 24,002,000
Fire Flow/	\$ 4,027,800
Looping	\$ 4,027,800
Regulatory/	\$ 37,631,600
Operational	φ 57,031,000
TOTAL	\$ 77,853,900





WATER CIP SUMMARY

Regulatory/Operational Improvements

- Offsite Fort Worth water supply improvements
- Industrial Pump Station rehabilitation / expansion
- Hulen Pump Station added pumping capacity
- Additional Elevated Storage





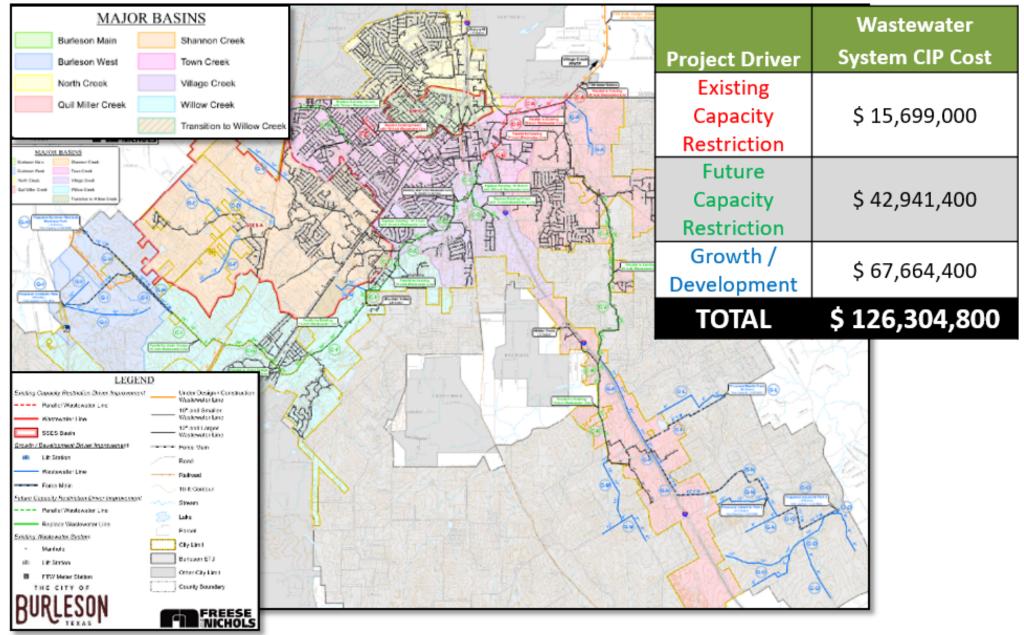
WATER CIP SUMMARY - CONTINUED

- <u>Hydraulic Restriction Improvements</u> Hulen Street LPP 16-inch transmission main
- <u>Growth/Development Improvements</u> Hyder Ranch extension





WASTEWATER CIP (BUILDOUT)



WASTEWATER CIP SUMMARY

<u>Hydraulic Restriction Improvements</u>

Village Creek Parallel Interceptor

<u>Growth/Development Improvements</u>
Chisholm Summit / Craftmasters / Hyder Ranch service expansions





Section 2

Mobility Plan Overview

Thoroughfares

Pedestrian Facilities

Bicycle Facilities

What is the 2022 Mobility Plan?



Draft 2022 Mobility Plan:

- Seeks to replace the "2015 Master Mobility Plan" (the last such plan adopted by Council)
- Retains and updates the "Thoroughfare Plan" component of the previous plan
- Provides a framework for and guidance on addressing multimodal including pedestrian, bicycle, trail, and roadway mobility needs across Burleson

Mobility Plan Document Outline

- Chapter 1: Existing Conditions contains a brief analysis of the current state of Burleson's roadway network and demographic makeup.
- Chapter 2: Public Engagement depicts the engagement throughout the duration of this project.
- Chapter 3: Modeling and Mapping provides an in-depth overview of the travel demand modeling process conducted for the Mobility Plan.
- Chapter 4: Pedestrian Network summarizes the status of Burleson's current pedestrian network.
- Chapter 5: Bicycle and Trail Network reviews Burleson's current bicycle and trail network and summarizes the updates recommended using a prioritization methodology.
- Chapter 6: Implementation summarizes the multimodal priority list including roadway, pedestrian, and bicycle/trail projects, policy guides; and specific strategies and actions the City of Burleson can implement to follow through on the 2022 Mobility Plan's recommendations.

Modeling

Scenario Modeling Overview

Scenario	Demographics Used	Roadways Used
Base Year Model	Existing (2020)	Previously adopted 2015 Master Mobility Plan
2015 Master Mobility Plan Build Out	Build Out Demographics	Previously adopted 2015 Master Mobility Plan
Build Out without ETJ Roads	Build Out Demographics	2022 Thoroughfare Plan with very limited ETJ roadway connections
2022 Thoroughfare Plan	Build Out Demographics	2022 Thoroughfare Plan with key ETJ connections added back in to the model

BIX

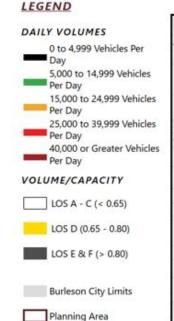
Modeling: 2015 MTP

2015 MASTER THOROUGHFARE PLAN EXISTING CONDITIONS MODELING RESULTS

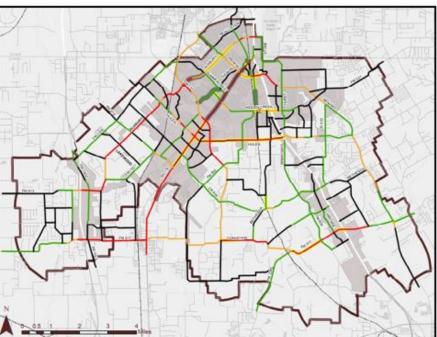
LEGEND DAILY VOLUMES 0 to 4,999 Vehicles Per Day 5,000 to 14,999 Vehicles Per Day 15,000 to 24,999 Vehicles Per Day 25,000 to 39,999 Vehicles Per Day 40.000 or Greater Vehicles Per Day VOLUME/CAPACITY LOS A - C (< 0.65) LOS D (0.65 - 0.80) LOS E & F (> 0.80) **Burleson City Limits** Planning Area

How congested is traffic today based on 2015 Thoroughfare Plan roadways?





BIX



How congested will traffic be at build out based on 2015 Thoroughfare Plan roadways?

- BIX

BIX

Modeling: 2015 MTP Build Out: LOS D – F Roads

Road Segment	Limits	Volume	Capacity	Volume/ Capacity	LOS
Alsbury Boulevard	FM 731/John Jones Drive to Summercrest Boulevard	29,900	30,000	0.99	E/F
Alsbury Boulevard	Summercrest Boulevard to Hemphill Street	24,100	30,000	0.80	D
SH 174/Wilshire Boulevard	FM 919 to FM 731/John Jones Drive	38,600	51,000	0.76	D
SH 174/Wilshire Boulevard	FM 731/John Jones Drive to IH-35W	48,100	51,000	0.94	E/F
Hulen Street	SH 174/Wilshire Boulevard to IH-35W	40,300	51,000	0.79	D
Renfro Street	SH 174/Wilshire Boulevard to Stone Road	36,100	51,000	0.71	D
Hidden Creek Parkway	Dobson Street to Hurst Road	23,400	30,000	0.78	D
FM 917	FM 2280 to FM 809	35,400	51,000	0.69	D
Dobson Street	Renfro Street to Hidden Creek Parkway	6,800	8,500	0.80	E/F

At build out, several corridors are projected to have significant congestion and traffic based on the 2015 Thoroughfare Plan roadways – **additional thoroughfares will be needed**

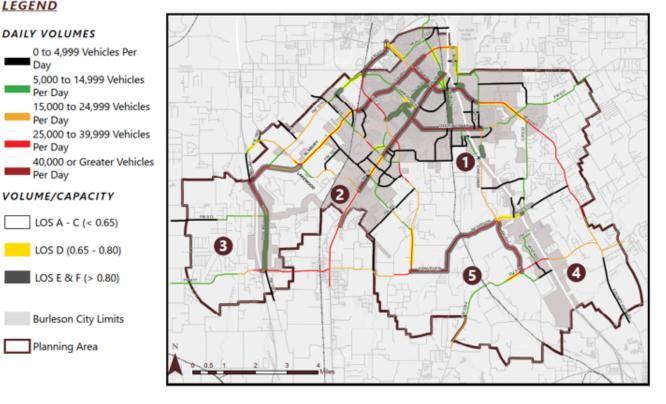
Modeling: Key Recommendations

- Hulen Street is critical for east/west traffic
- 2. Lakewood Drive/Alsbury Boulevard will operate at an acceptable LOS as a fourlane divided facility
- North/south connection is needed between FM 913 and FM 917
- North/south connection is needed between Bethesda Road and FM 917 east of IH-35
- East/west connection is needed between FM 731/John Jones Drive and Bethesda Road west of IH-35

2022 MASTER THOROUGHFARE PLAN BUILD **OUT WITHOUT ETJ MODELING RESULTS**

LEGEND

Dav

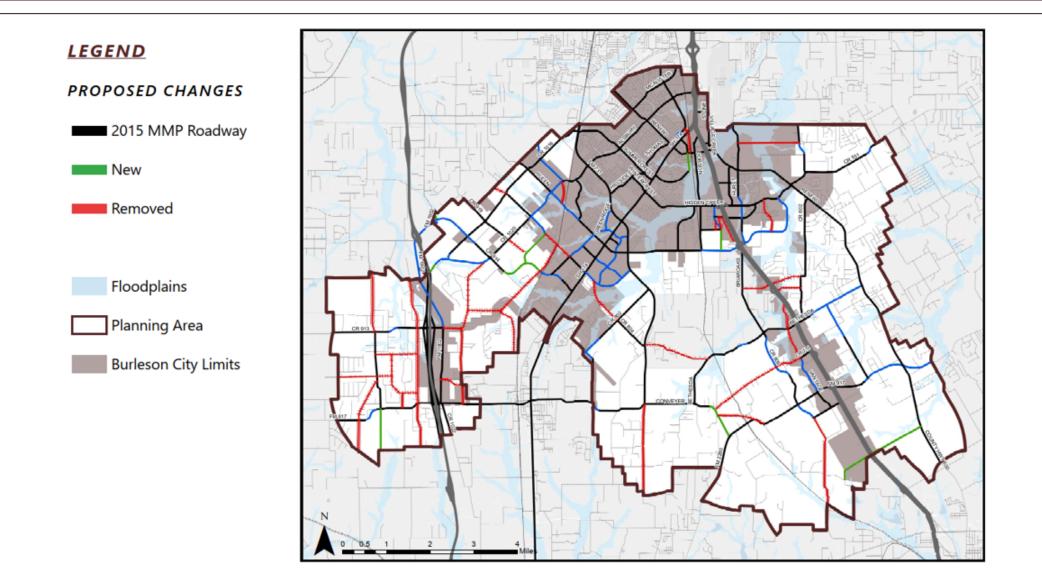


B<u>tx</u> MOVES

<u>Btx</u>

Proposed Changes to the 2015 MMP





Alignment Evaluation

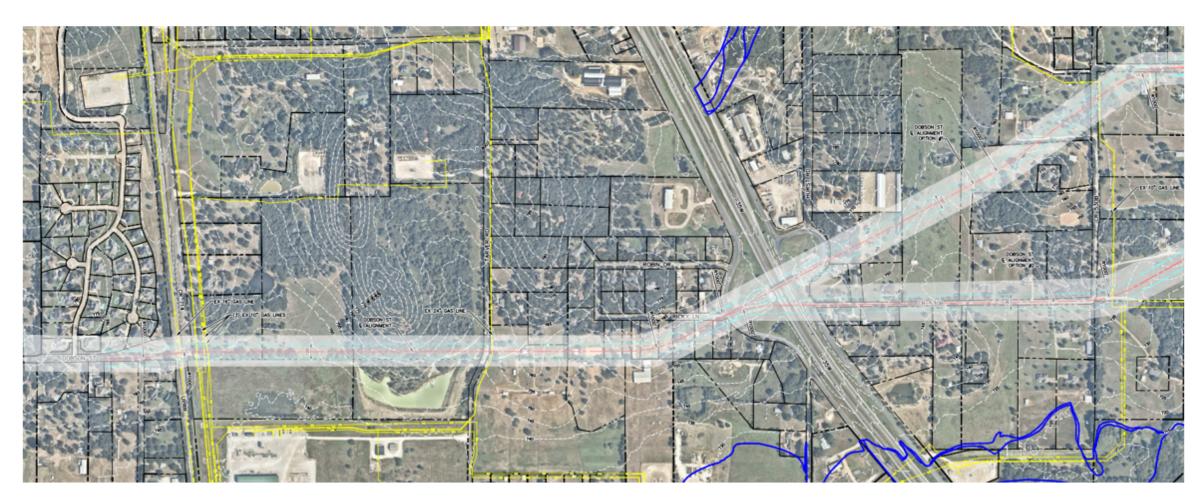
Segment	Roadway	Limits	
1	Lakewood Drive	From CR 1016 to Alsbury Boulevard	
2	Wicker Hill Road	SH 174/Willshire Boulevard to FM 731/John Jones Drive	
3	Greenridge Drive	From Hulen Street to Lakewood Drive	
4	Hidden Creek Parkway	From Renfro Street to Houston Street	
5	Alsbury Boulevard	From FM 731/John Jones Drive to Alsbury Court	
6	Hulen Street	From Dobson Street to Hidden Creek Parkway/CR 602*	
7	Hulen Street Bridge	BNSF Bridge Crossing	

Note: Not organized by priority



Example Alignment Evaluation

Hulen Street

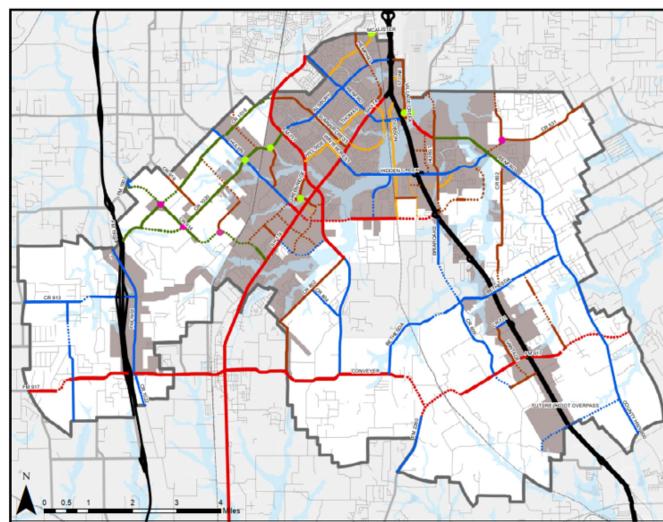


BIX

2022 Thoroughfare Plan

LEGEND DAILY VOLUMES





BIX

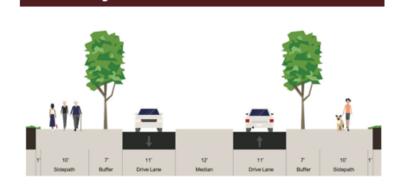
Priority Roadway Projects

PRIORITY ROADWAY PROJECT NAME	PROJECT LIMITS	PROJECT LENGTH
Hulen Street Realignment/Construction	From SH 174/Wilshire Boulevard to Hidden Creek Parkway	1.57 miles
Alsbury Boulevard Reconstruction	From FM 731/John Jones Drive to Alsbury Court	1.63 miles
Lakewood Drive	From CR 1016 to Alsbury Boulevard	1.50 miles
Hidden Creek Parkway	From Renfro Street to Houston Street (Existing Road Ending)	0.45 miles
Greenridge Drive	From Hulen Street to Lakewood Drive	1.30 miles
Wicker Hill Drive	From SH 174/Wilshire Boulevard to FM 731/John Jones Drive	1.29 miles

Cross Sections

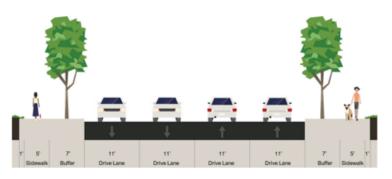
Major Collectors

- Typical reduced to two lanes (previously four)
- Four lane option still exists (where vehicles per day exceeds 15,000)



Major Collector – 70' ROW

Major Collector Four-Lane Option - 70' ROW



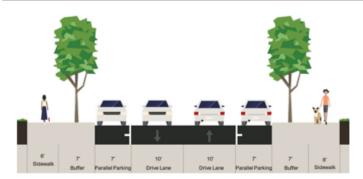
Minor Collectors

Context sensitive application

Two lanes, either with a median or parallel parking on either sides



Minor Collector with Parallel Parking – 60' ROW



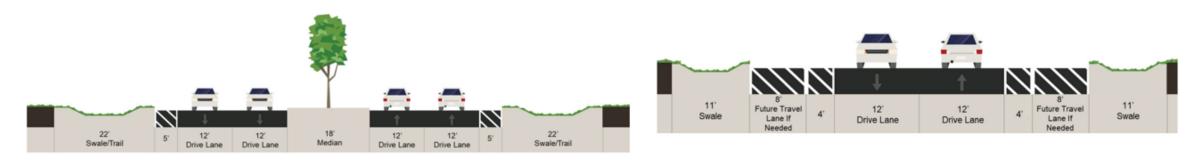
BIX

Cross Sections – Rural Context



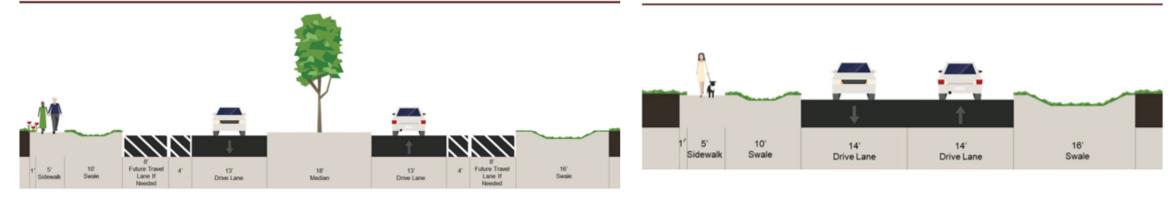
Rural Major Arterial - 120' ROW



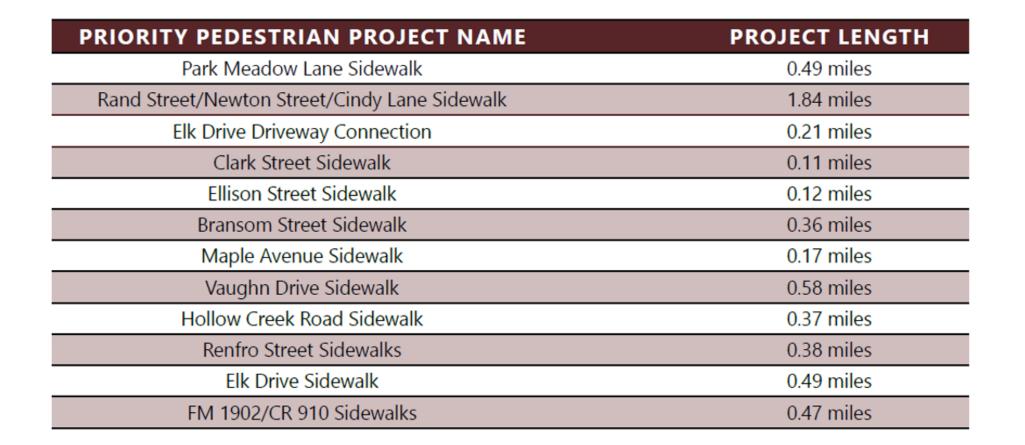


RURAL MINOR ARTERIAL - 100' ROW





Priority Pedestrian Projects



BTX MOVES

Priority Bicycle Projects

PRIORITY BICYCLE/TRAIL PROJECT NAME	PROJECT LENGTH
Stone Road Shared Use Path	0.42 miles
Village Creek Trail Extension Shared Use Path	0.42 miles
Shannon Creek Trail Extension (North) Shared Use Path	0.8 miles
Shannon Creek Trail Extension (South) Shared Use Path	1.12 miles
Heberle Park Trail Shared Use Path	0.09 miles
Johnson Avenue/Tarrant Avenue/Miller Street Shared Use Path	0.34 miles
Hurst Road Shared Use Path	0.78 miles
Hemphill Street On-Street Bicycle Lane*	0.41 miles
Alsbury Boulevard Shared Use Path*	3.15 miles
Hulen Street Shared Use Path*	1.71 miles
Alsbury Boulevard Shared Use Path*	2.12 miles
Lakewood Drive/CR 914 Shared Use Path*	2.41 miles

*Project falls on a Thoroughfare Plan roadway. These projects will be completed simultaneously when the Thoroughfare Plan project is constructed.

Section 3

CIPAC Recommendations

State Law

Recent Collections

New Advisory Committee

Committee Recommendations

"Impact fee" means a charge or assessment imposed by a political subdivision against new development in order to generate revenue for funding or recouping the costs of capital improvements or facility expansions necessitated by and attributable to the new development. - Chapter 395, Texas Local Government Code

Chapter 395, Texas Local Government Code



 Establishes specific requirements for adoption of impact fees

- Adopt land use assumptions
- 🗹 Adopt capital improvements plan
- 🥪 Establish "service units" using mathematical calculation
- Establishes procedures for adopting fees (notice, public hearings, appointed advisory committee, etc.)
- Establishes specific requirements for collection of impact fees (assessed when plat is recorded, collected at building permit issuance or connection to water/sewer system)
- Allows impact fees for water, sewer, drainage, and roadways (Burleson does not assess drainage impact fees)

Burleson Collections Snapshot

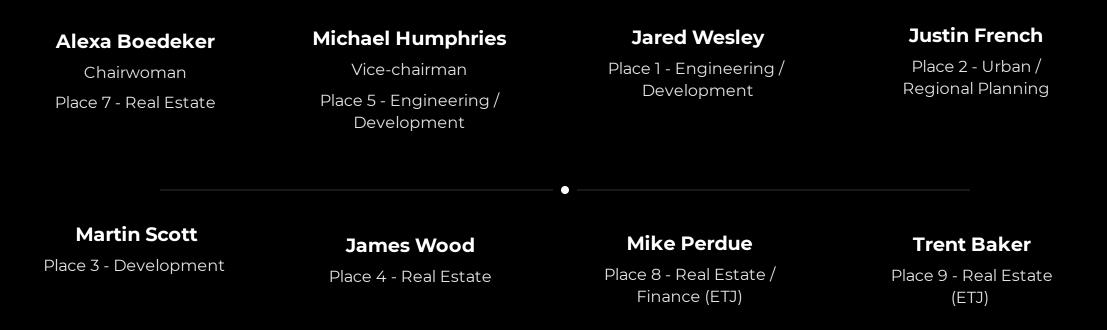
Impact Fee Collections totaled \$10,417,436 between March 2019 and mid-September 2023



*Does not include Fort Worth Impact Fees

Capital Improvements Program Advisory Committee (CIPAC)

March 2023: City Council appointed new and expanded CIPAC of eight members



Melanie McAnally was appointed to fill Place 6 on September 9, 2023.

State law requires at least five (5) members and 40% of members from real estate, development, or building industry.



Scope of the CIPAC

- File semi-annual reports on impact fee programs
- Review analyses of consultants responsible for impact fee studies at least every five years
 Land Use Assumptions
 Impact Fee Capital Improvement Programs
 Calculated Maximum Assessable Fees
- Provide recommendations to City Council for updates to impact fees

CIPAC Meetings

The new committee held five public meetings since April to thoroughly review topics in preparation for developing their recommendations to City Council

- Legal overview and framework for impact fees in Texas
- Land Use Planning and the Burleson Midpoint Update to the Comprehensive Land Use Plan
- Burleson infrastructure masterplans
- Previous semi-annual reports on the roadway, water, and wastewater impact fee reports
- 2023 Roadway Impact Fee Study by Kimley-Horn and Associates, Inc.
- 2023 Water / Wastewater Impact Fee Study by Freese and Nichols, Inc.



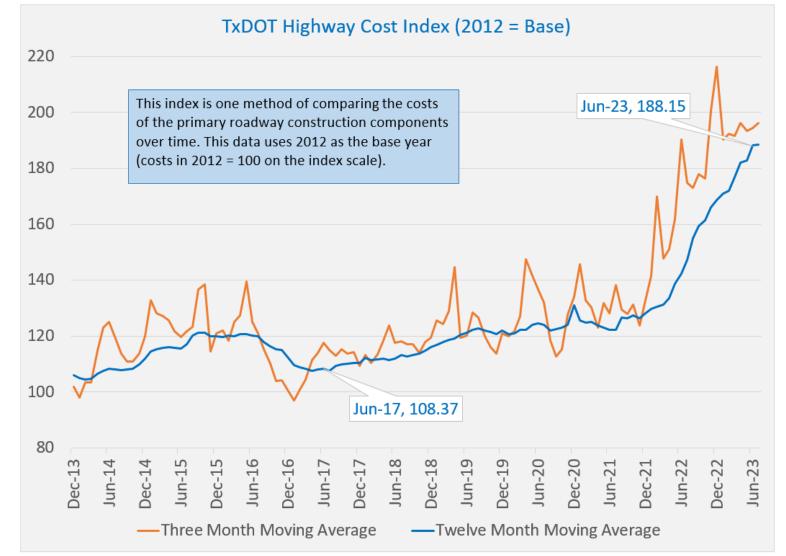
Individual Sentiments Expressed During CIPAC Deliberations on Recommendations

⁶⁶Our recommendations need to be reflective of the current economy recognizing construction cost increases since the 2017 study. ⁴⁴Given that approximately \$10m in total impact fees (roadway, water, and wastewater) was collected over the previous four years, the recommended fees should increase and we should suggest that the City Council make the new fees effective as soon as possible.

⁴⁴ The goal of the impact fees is to have development pay its fair share of infrastructure costs to support the development. Given that we can't consider 50% of the eligible project costs per state law, impact fees are already discounted even if we recommend the maximum.

If fees are not increased, it could put us further behind in regards to building the infrastructure for future growth.

Public Infrastructure Construction Continues to Get More Expensive



Current and **CIPAC-Recommended** Roadway Impact Fees

Service	Maximum Allowable Fee (2017 Study / 2023 Study)	Current /	Recommended Ass	essed Fees
Area		Residential	Non-residential	Industrial
А	\$771 / \$1,632	\$408 / \$1,632	\$300 / \$1,632	\$200 / \$1,632
В	\$657 / \$703	\$408 / \$703	\$300 / \$703	\$200 / \$703
С	\$1,152 / \$1,954	\$408 / \$1,954	\$300 / \$1,954	\$200 / \$1,954
D	\$976 / \$1,365	\$408 / \$1,365	\$300 / \$1,365	\$0 / \$1,365

Fees are per service unit

Current and **CIPAC-Recommended** Water and Wastewater Impact Fees

Wate	er	Wastev	vater
Max Allowable Fees	Assessed Fees	Max Allowable Fees	Assessed Fees
2017 Study /	Current /	2017 Study /	Current /
2023 Study	Recommended	2023 Study	Recommended
\$2,624 /	\$2,624 /	\$1,312 /	\$1,312 /
\$2,492	\$2,492	\$1,731	\$1,731

Water and Wastewater Impact Fees are calculated for a 5/8" meter

Current Service Unit Equivalent Max Allowable Water and Wastewater Impact Fees

		Current Rates		
Meter Size	Service Unit Equivalent	Water Impact Fee City of Burleson - Maximum Allowable	Wastewater Impact Fee City of Burleson - Maximum Allowable	Combined Total
5/8"	1	\$2,624	\$1,312	\$3,936
3/4"	1.5	\$3,936	\$1,968	\$5,904
1"	2.5	\$6,560	\$3,280	\$9,840
1 1/2"	5	\$13,120	\$6,560	\$19,680
2"	8	\$20,992	\$10,496	\$31,488
3"	16	\$41,984	\$20,992	\$62,976
4"	25	\$65,600	\$32,800	\$98,400
6"	50	\$131,200	\$65,600	\$196,800
8"	80	\$209,920	\$104,960	\$314,880
10"	115	\$301,760	\$150,880	\$452,640

CIPAC Recommended Service Unit Equivalent Max Allowable Water and Wastewater Impact Fees

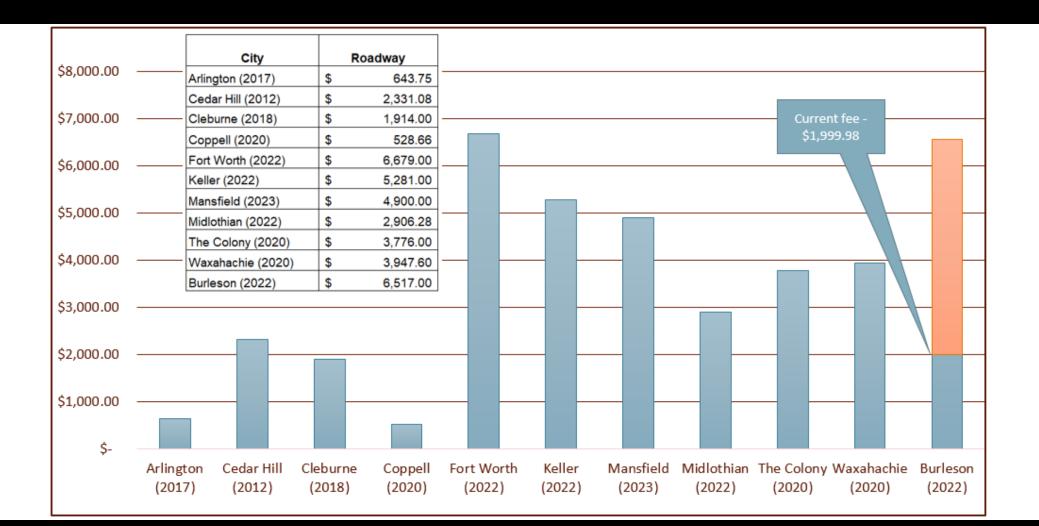
		CIPAC Recommended Rates		
Meter Size	Service Unit Equivalent	Water Impact Fee City of Burleson - Maximum Allowable	Wastewater Impact Fee City of Burleson - Maximum Allowable	Combined Total
5/8"	1	\$2,492	\$1,731	\$4,223
3/4"	1.5	\$3,738	\$2,597	\$6,335
1"	2.5	\$6,230	\$4,328	\$10,558
1 1/2"	5	\$12,460	\$8,655	\$21,115
2"	8	\$19,936	\$13,848	\$33,784
3"	16	\$39,872	\$27,696	\$67,568
4"	25	\$62,300	\$43,275	\$105,575
6"	50	\$124,600	\$86,550	\$211,150
8"	80	\$199,360	\$138,480	\$337,840
10"	115	\$286,580	\$199,065	\$485,645

Different between Current and CIPAC Recommended Max Allowable Water and Wastewater Impact Fees

Meter Size	Service Unit Equivalent	CIPAC Recommended W/WW Impact Fee Combined Total	Current Rates W/WW Impact Fee Combined Total	Difference
5/8"	1	\$4,223	\$3,936	\$287
3/4"	1.5	\$6,335	\$5,904	\$431
1"	2.5	\$10,558	\$9,840	\$718
1 1/2"	5	\$21,115	\$19,680	\$1,435
2"	8	\$33,784	\$31,488	\$2,296
3"	16	\$67,568	\$62,976	\$4,592
4"	25	\$105,575	\$98,400	\$7,175
6"	50	\$211,150	\$196,800	\$14,350
8"	80	\$337,840	\$314,880	\$22,960
10"	115	\$485,645	\$452,640	\$33,005

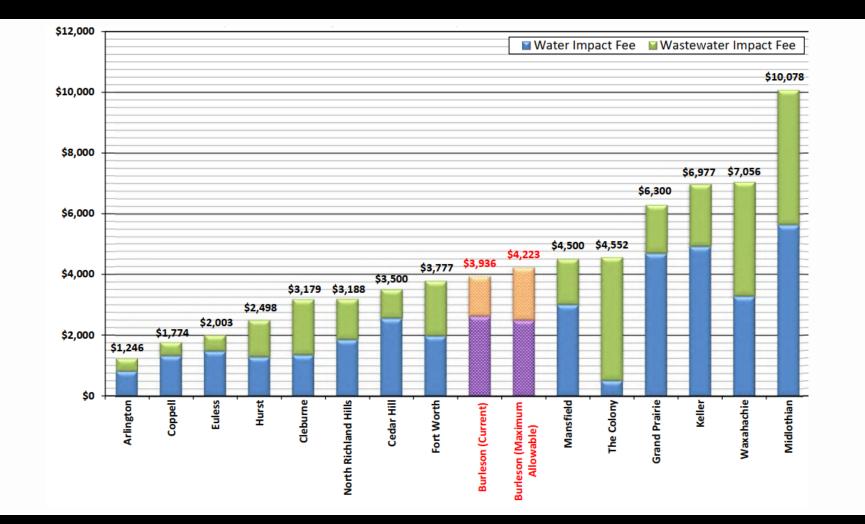
Roadway Impact Fee Benchmarking

For a Single-family Residence - Assessed Fees Shown



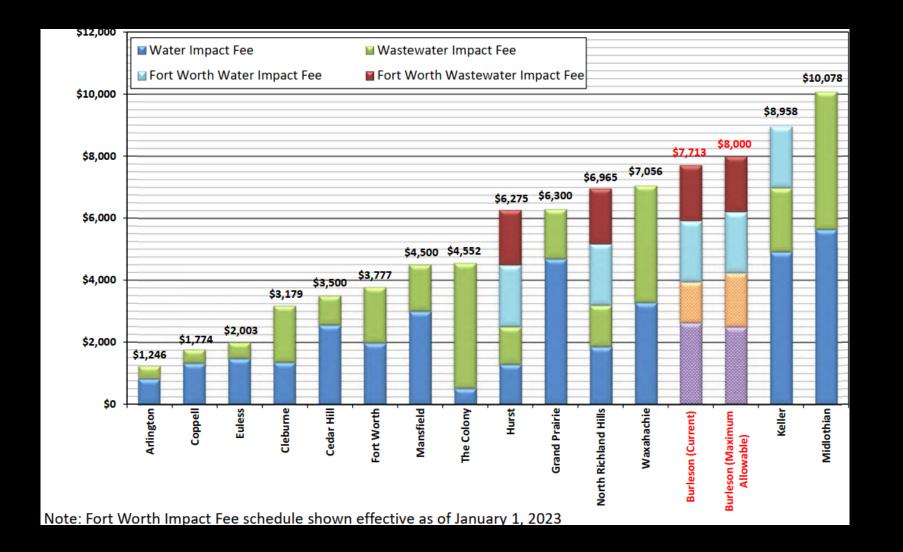
Water / Wastewater Impact Fee Benchmarking

For a Single-family Residence - Assessed Fees Shown (except Burleson 2023 Max Allowable)



Water / Wastewater Impact Fee Benchmarking

For a Single-family Residence Including Fort Worth Pass Through Impact Fees



Capital Improvements Program Advisory Committee and Fee Update **Timeline and Next Steps**



QUESTIONS AND DISCUSSION

