## **ORDINANCE NO. 2025-63**

AN ORDINANCE OF THE CITY OF BASTROP, TEXAS, AMENDING THE BASTROP CODE OF ORDINANCES, CHAPTER 13, ARTICLE 13.12 – IMPACT FEES, DIVISION 4 – ROADWAY FACILITIES, TO APPLY THE ROADWAY IMPACT FEE TO NEWLY ANNEXED AREAS; AMENDING THE SERVICE AREAS MAP TO WHICH THE ROADWAY IMPACT FEES APPLY TO INCLUDE ANNEXED AREAS; PROVIDING FOR ASSESSMENT OF SAID IMPACT FEES; PROVIDING FOR THE GENERAL ADMINISTRATION OF SAID IMPACT FEES; PROVIDING A SEVERABILITY CLAUSE; PROVIDING AN EFFECTIVE DATE AND AN OPEN MEETINGS CLAUSE.

- WHEREAS, Texas Local Government Code, chapter 395, authorizes and provides the requirements for political subdivisions to impose impact fees on new developments in order to generate funding or recoup the costs of capital improvements or facility expansion necessitated by and attributable to the new development; and
- WHEREAS, the Statute requires the City to conduct an impact fee study to determine the feasibility of adopting impact fees and the study includes development of the City's Land Use Assumptions and Capital Improvements Plan Report and the calculation of the maximum allowable impact fees; and
- WHEREAS, pursuant to Texas Local Government Code, Chapter 395, the City established and adopted a Roadway Impact Fee in Ordinance No. 2023-38 in December 2023; and
- WHEREAS, certain updates to the impact fee service area maps were required to reflect newly annexed areas being included in the City limits, the Impact Fee Advisory Committee reviewed the proposed amendments to the impact fee on August 28, 2025, and the City Council reviewed the proposed amendments to the impact fee on October 21, 2025, after notices and public hearings as required by Texas Local Government Code, chapter 395; and
- WHEREAS, the City Council finds that certain areas annexed into the City limits after the initial adoption of the Roadway Impact Fee in Ordinance No. 2023-38 should be included in the service areas for the impact fee; and
- WHEREAS, the City Council finds that the City has fully complied with Texas Local Government Code, chapter 395, in adopting and imposing the impact fees in this ordinance; and

WHEREAS, the City Council finds it to be in the best interest of the citizens of the City to adopt and approve the impact fees and related administrative processes described herein.

# NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF BASTROP, TEXAS, THAT:

- **Section 1.** Findings of Fact. The above and foregoing recitals are hereby found to be true and correct and are incorporated herein as findings of fact.
- **Section 2.** Amendment of Roadway Impact Fee Service Area. The City Council hereby approves and adopts the amended Service Area map for the Roadway Impact Fees, attached as hereto as *Exhibit B*.
- **Section 2.** Amendment: Chapter 13, Article 13.12 Impact Fees, Division 4 Roadway Facilities of the City of Bastrop Code of Ordinances is hereby amended to read as set forth in *Exhibit A* attached hereto and incorporated herein for all purposes.
- **Section 3.** Repealer: To the extent reasonably possible, ordinances are to be read together in harmony. However, all ordinances, or parts thereof, that are in conflict or inconsistent with any provision of this Ordinance are hereby repealed to the extent of such conflict, and the provisions of this Ordinance shall be and remain controlling as to the matters regulated.
- **Section 4. Severability:** Should any of the clauses, sentences, paragraphs, sections, or parts of this Ordinance be deemed invalid, unconstitutional, or unenforceable by a court of law or administrative agency with jurisdiction over the matter, such action shall not be construed to affect any other valid portion of this Ordinance.
- **Section 5.** Codification: The City Secretary is hereby directed to record and publish the attached rules, regulations, and policies in the City's Code of Ordinances as authorized by Section 52.001 of the Texas Local Government Code.
- **Section 6. Effective Date:** This ordinance shall take effect upon the date of final passage noted below, or when all applicable publication requirements, if any, are satisfied in accordance with the City's Charter, Code of Ordinances, and the laws of the State of Texas.
- **Section 7.** Proper Notice & Meeting: It is hereby officially found and determined that the meeting at which this Ordinance was passed was open to the public, and that public notice of the time, place, and purpose of said meeting was given as required by the Open Meetings Act, Texas Government Code,

Chapter 551. Notice was also provided as required by Chapter 52 of the Texas Local Government Code.

READ & ACKNOWLEDGED on First Reading on this the 21st day of October 2025.

READ & ADOPTED on Second Reading on this the 4th day of November 2025.

APPROVED:

lshmael Haris, Mayor

ATTEST:

Michael Muscarello, City Secretary

APPROVED AS TO FORM:

City Attorney,

Denton Navarro Rocha Bernal & Zech, P.C.

## City of Bastrop Code of Ordinances Chapter 13: Utilities

Article 13.12: IMPACT FEES

## **DIVISION 4. - ROADWAY FACILITIES**

## Sec. 13.12.094 Service areas; applicability; effective date

(a) The city is hereby divided into two roadway service areas as shown on the official roadway service area map. The official roadway service area map, which, together with all explanatory matter thereon, is hereby adopted by reference and declared to be a part of this article. The official roadway service area map shall be identified by the signature of the mayor attested by the city secretary and bearing the seal of the City of Bastrop under the following words:

"This is to certify that this is the official roadway service area map referred to in Article 13.12.027 of the Code of Ordinances, City of Bastrop, Texas."

- (b) The provisions of this article apply to all new development within the service areas described above. The provisions of this article apply uniformly within each roadway service area.
- (c) This article is intended to ensure the provision of adequate roadway facilities to serve new development in the city by requiring each development to pay its share of the costs of such improvements necessitated by and attributable to such new development.
- (d) This article shall take effect on December 12<sup>th</sup>, 2023.

## Sec. 13.12.095 Roadway impact fees per service unit.

(a) The city hereby adopts the maximum assessable roadway impact fee per service unit for each roadway service area set forth in Table A below. Each new development shall be assessed the maximum assessable roadway impact fee and shall pay the roadway impact fee collection rate set forth in Table B, as applicable, minus any applicable offsets, as described herein.

## Table A MAXIMUM ASSESSABLE ROADWAY IMPACT FEE PER SERVICE UNIT

Service Area A	\$2,033.00 \$2,349.00
Service Area B	\$1,414.00

(b) The roadway impact fee per service unit for all service areas shall be adopted, assessed, and collected as set forth below. No building permit shall be issued

until an assessment of an impact fee pursuant to this article is made and paid in accordance with the assessment and collection procedures set forth herein.

- (1) For all property with final plat approval dated before the effective date of this article, the roadway impact fees will be assessed on December 12<sup>th</sup>, 2023 and will be charged at building permit application dated on or after December 12<sup>th</sup>, 2024 as set forth in Table B. No roadway impact fees shall be collected for any building permit issued prior to December 12<sup>th</sup>, 2024.
- (2) For all property with final plat approval on or after the effective date of this article, the roadway impact fees will be assessed at final plat approval and will be charged at building permit application as set forth in Table B1—B3. No roadway impact fees shall be collected for any building permit issued prior to December 12, 2024.

Table B1
Collection Rate Table: Plats December 12, 2024—December 12, 2025

Service Areas	Collection Rate
Α	\$1,526.85
В	\$919.10

Table B2
Collection Rate Table: Plats December 13, 2025

onootion rate rabies	iato boodinboi 10, 20					
Service Areas	Collection Rate					
Α	\$1,996.65					
В	\$1,201.90					

Table B3
Collection Rate Table: Plats December 13, 2026 and Later

Service Areas	Collection Rate
Α	\$2,033.00 <del>\$2,349.00</del>
В	\$1,414.00

(c) The land use vehicle-mile equivalency tables are set forth below:

Table C

Land Use Vehicle-Mile Equivalency Table ("LUVMET")

Land Use Category	ITE	Development	Trip	Pass-	Trip	Trin		۸ ۵:	I NASY	17-6
	Land	Unit	Gen	by	Rate	Trip	Adj. For 0-	Adj.	Max	Veh-
	Use	J. iii	Rate	Rate	Nate	Length (mi)	D D	Trip	Trip	Mi
	Code		(PM)	Tale		(1111)	ו	Length	Length	Per
			(					(mi)	(mi)	Dev- Unit
PORT AND TERMINAL	-I		1			1	<u>}</u>	<u> </u>	<u> </u>	OIIIL
Truck Terminal	30	1,000 SF GFA	1.87	0%	1.87	13.20	50%	6.60	6.00	11.22
INDUSTRIAL							1 00,0	1 0.00	0.00	11.22
General Light Industrial	110	1,000 SF GFA	0.65	0%	0.65	13.20	50%	6.60	6.00	3.90
Industrial Park	130	1,000 SF GFA	0.34	0%	0.34	13.20	50%	6.60	6.00	2.04
Warehousing	150	1,000 SF GFA	0.18	0%	0.18	13.20	50%	6.60	6.00	1.08
Mini-Warehouse	151	1,000 SF GFA	0.15	0%	0.15	13.20	50%	6.60	6.00	0.90
RESIDENTIAL			•			-L			10.00	0.00
Single-Family Detached	210	Dwelling	0.94	0%	0.94	7.81	50%	3.91	3.91	3.68
Housing		Unit(s)							0.0	0.00
Single-Family Attached	215	Dwelling	0.57	0%	0.57	7.81	50%	3.91	3.91	2.23
Housing		Unit(s)								
Multifamily Housing	220	Dwelling	0.51	0%	0.51	7.81	50%	3.91	3.91	1.99
(Low-Rise)		Unit(s)								
Multifamily Housing (Mid-	221	Dwelling	0.39	0%	0.39	7.81	50%	3.91	3.91	1.52
Rise)		Unit(s)								
Multifamily Housing	222	Dwelling	0.32	0%	0.32	7.81	50%	3.91	3.91	1.25
(High-Rise)		Unit(s)								
Senior Adult Housing—	251	Dwelling	0.30	0%	0.30	7.81	50%	3.91	3.91	1.17
Detached		Unit(s)								
Senior Adult Housing—	252	Dwelling	0.25	0%	0.25	7.81	50%	3.91	3.91	0.98
Attached		Unit(s)								
Assisted Living	254	Bed(s)	0.24	0%	0.24	7.81	50%	3.91	3.91	0.94
LODGING	1 .			,					V	
Hotel	310	Room(s)	0.59	0%	0.59	6.41	50%	3.20	3.20	1.89

Motel	320	Room(s)	0.36	0%	0.36	6.41	50%	3.20	3.20	1.15
RECREATIONAL				1	1 3.00	1 0.1.	1 00 70	10.20	<u> </u>	1.10
Campground/RV Park	416	Occupied Campsite(s)	0.27	0%	0.27	10.95	50%	5.47	5.47	1.48
Golf Driving Range	432	Driving Position(s)	1.25	0%	1.25	10.95	50%	5.47	5.47	6.84
Golf Course	430	Hole(s)	2.91	0%	2.91	10.95	50%	5.47	5.47	15.92
Recreational Community Center	495	1,000 SF GFA	2.50	0%	2.50	10.95	50%	5.47	5.47	13.68
Ice Skating Rink	465	1,000 SF GFA	1.33	0%	1.33	10.95	50%	5.47	5.47	7.28
Miniature Golf Course	431	Hole(s)	0.33	0%	0.33	10.95	50%	5.47	5.47	1.81
Multiplex Movie Theater	445	Screen(s)	13.96	0%	13.96	10.95	50%	5.47	5.47	76.36
Racquet/Tennis Club	491	Court(s)	3.82	0%	3.82	10.95	50%	5.47	5.47	20.90
INSTITUTIONAL							1 00.0	1 0	10.11	120.00
Elementary School	520	Students(s)	0.16	0%	0.16	1.67	50%	0.83	0.83	0.13
Middle School/Junior High School	522	Students(s)	0.15	0%	0.15	1.67	50%	0.83	0.83	0.12
High School	525	Students(s)	0.14	0%	0.14	1.67	50%	0.83	0.83	0.12
Church	560	1,000 SF GFA	0.49	0%	0.49	1.67	50%	0.75	0.75	0.37
Day Care Center	565	1,000 SF GFA	11.12	44%	6.23	1.67	50%	0.83	0.83	5.17
University/College	550	Students	0.15	0%	0.15	1.67	500%	0.83	0.83	0.12
MEDICAL				<u> </u>			1 000,0	1 0.00	1 0.00	0.12
Clinic	630	1,000 SF GFA	3.69	0%	3.69	5.99	50%	3.00	3.00	11.07
Hospital	610	1,000 SF GFA	0.86	0%	0.86	5.99	50%	3.00	3.00	2.58
Nursing Home	620	Bed(s)	0.14	0%	0.14	5.99	50%	3.00	3.00	0.42
Animal	640	1,000 SF GFA	3.53	30%	2.47	5.99	50%	3.00	3.00	7.41
Hospital/Veterinary Clinic							00 /0	0.00	0.00	7
OFFICE							<u> </u>			
Corporate Headquarters Building	714	1,000 SF GFA	1.30	0%	1.30	7.04	50%	3.52	3.52	4.58
General Office Building	710	1,000 SF GFA	1.44	0%	1.44	7.04	50%	3.52	3.52	5.07

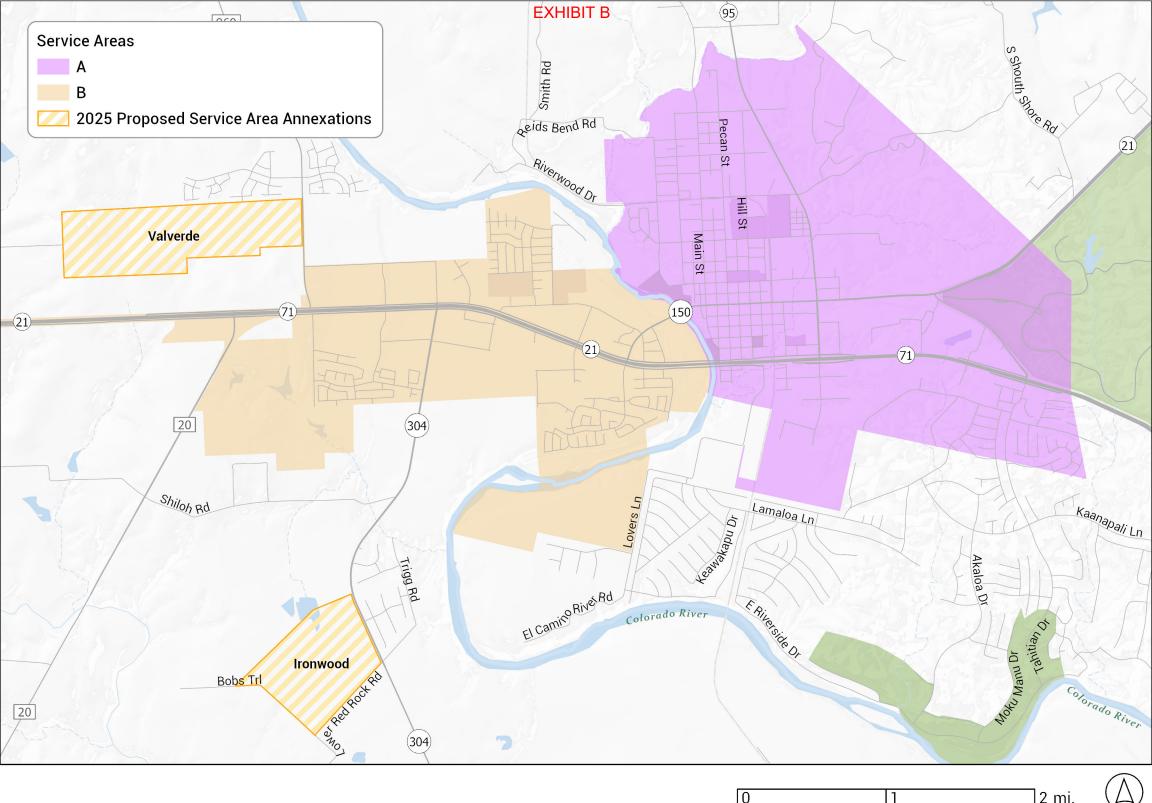
Medical-Dental Office Building	720	1,000 SF GFA	3.93	0%	3.93	7.04	50%	3.52	3.52	13.83
Single Tenant Office Building	715	1,000 SF GFA	1.76	0%	1.76	7.04	50%	3.52	3.52	6.20
Office Park	750	1,000 SF GFA	1.30	0%	1.30	7.04	50%	3.52	3.52	4.58
COMMERCIAL			1	1	1	1 1 10 1	10070	10.02	10.02	1 7.00
Automobile Related										
Automobile Care Center	942	1,000 SF GLA	3.11	40%	1.87	5.83	50%	2.92	2.92	5.46
Automobile Parts Sales	843	1,000 SF GFA	4.90	43%	2.79	5.83	50%	2.92	2.92	8.15
Gasoline/Service Station	944	Fueling Position(s)	13.91	57%	5.98	1.51	50%	0.75	0.75	4.49
Gasoline/Service Station w/ Convenience Market	945	Fueling Position(s)	18.42	56%	8.10	1.51	50%	0.75	0.75	6.08
Automobile Sales (New)	840	1,000 SF GFA	2.42	20%	1.94	5.83	50%	2.92	2.92	5.66
Quick Lubrication Vehicle Shop	941	Servicing Position(s)	4.85	40%	2.91	5.83	50%	2.92	2.92	8.50
Automated Car Wash	948	Car Wash Tunnel(s)	77.50	40%	46.50	1.51	50%	0.76	0.76	35.34
Tire Store	848	1,000 SF GFA	2.09	25%	1.57	5.83	50%	2.92	2.92	4.58
Dining:				1	. <del> </del>	.1	1	1 0 -	1	1.00
Fast Food Restaurant w/ D.T.	934	1,000 SF GFA	33.03	50%	16.52	1.55	50%	0.78	0.78	12.89
Fast Food Restaurant w/o D.T.	933	1,000 SF GFA	33.21	50%	16.61	1.55	50%	0.78	0.78	12.96
High-Turnover(Sit-Down) Restaurant	932	1,000 SF GFA	9.05	43%	5.16	1.55	50%	0.78	0.78	4.02
Quality Restaurant	931	1,000 SF GFA	7.80	44%	4.37	1.55	50%	0.78	0.78	3.41

Coffee/Donut Shop w/	937	1,000 SF GFA	38.99	70%	11.70	1.55	50%	0.78	0.78	9.13
D.T.		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	00.00	7070	11.70	1.55	30 70	0.76	0.76	9.13
Other Retail	<u> </u>			1	<u> </u>	.L		<u> </u>		
Free-Standing Discount	813	1,000 SF GFA	4.83	20%	3.86	5.83	50%	2.92	2.92	11.27
Store										' ' ' - '
Nursery (Garden Center)	817	1,000 SF GFA	6.94	30%	4.86	5.83	50%	2.92	2.92	14.19
Home Improvement Superstore	862	1,000 SF GFA	2.29	42%	1.33	5.83	50%	2.92	2.92	3.88
Pharmacy/Drugstore w/o Drive-Through Window	880	1,000 SF GFA	8.51	53%	4.00	5.83	50%	2.92	2.92	11.68
Pharmacy/Drugstore w/ Drive-Through Window	881	1,000 SF GFA	10.25	49%	5.23	5.83	50%	2.92	2.92	15.27
Shopping Center (>150k SF)	820	1,000 SF GFA	3.40	29%	2.41	5.83	50%	2.92	2.92	7.04
Shopping Center (40— 150k SF)	821	1,000 SF GFA	5.19	40%	3.11	5.83	50%	2.92	2.92	9.08
Retail Strip Plaza (<40k SF)	822	1,000 SF GFA	6.59	40%	3.95	5.83	50%	2.92	2.92	11.53
Supermarket	850	1,000 SF GFA	8.95	24%	6.80	5.83	50%	2.92	2.92	19.86
Toy/Children's Superstore	864	1,000 SF GFA	5.00	30%	3.50	5.83	50%	2.92	2.92	10.22
Department Store	875	1,000 SF GFA	1.95	30%	1.37	5.83	50%	2.92	2.92	4.00
SERVICES					<u></u>		1 / /	1	1 4.04	1 7.00
Walk-In Bank	911	1,000 SF GFA	12.13	40%	7.28	6.11	50%	3.05	3.05	22.20
Drive-In Bank	912	Drive-in Lane(s)	21.01	35%	13.66	6.11	50%	3.05	3.05	41.66
Hair Salon	918	1,000 SF GLA	1.45	30%	1.02	6.11	50%	3.05	3.05	3.11

- (d) The maximum assessable roadway impact fee per service unit set forth in Table A that is assessed to new development is declared to be the roughly proportionate measure of the impact(s) generated by a new unit of development on the city's transportation system. To the extent that the roadway impact fee per service unit collected is less than the maximum assessable roadway impact fee per service unit, such difference is hereby declared to be founded on policies unrelated to the measurement of the actual impacts of the development on the city's transportation system. The maximum assessable roadway impact fee per service unit may be used in evaluating any claim by an applicant, developer, or property owner that the dedication, construction, or contribution of a capital improvement imposed as a condition of development approval pursuant to the city's regulations is not roughly proportionate to the impact(s) of the new development on the city's transportation system.
- (e) Except as herein otherwise provided, the payment of a roadway impact fee shall be additional and supplemental to, and not in substitution of, any other tax, fee, charge or assessment which is lawfully imposed on and due against the new development.

## Exhibit B

[Updated Map of Roadway Service Areas, including newly annexed areas since July 2023]





# CITY OF BASTROP, TEXAS TRANSPORTATION IMPACT FEE STUDY AUGUST 2025 UPDATE



August 2025

## Prepared for the City of Bastrop

Prepared by:

Robert J. (Jake) Gutekunst, P.E. AICP The Goodman Corporation 911 W. Anderson Lane, Suite 200 Austin, TX 78757 Phone 713 714 7554

TBPE Firm Registration Number: F-19990





## **TABLE OF CONTENTS**

1.	Exe	cutive Summary
	A.	Introduction
	В.	Impact Fee Basics
2.	Intr	oduction
3.	Trai	nsportation Impact Fee Calculation Inputs1
	A.	Land Use Assumptions1
	B.	Capital Improvement Plan18
4.	Met	thodology for Transportation Impact Fees23
	A.	Service Areas
	B.	Service Units
	C.	Cost Per Service Unit25
	D.	Cost of the CIP26
	E.	Service Unit Calculation
5.	Trai	nsportation Impact Fee Calculation39
	A.	Maximum Assessable Impact Fee Per Service Unit39
	В.	Plan For Awarding the Transportation Impact Fee Credit39
	C.	Service Unit Demand Per Unit of Development
6.	San	nple Calculations46
7.	Cor	nclusion4
8.	App	pendices





## **LIST OF TABLES**

Table 1. Land Use Assumptions Growth Projections (2023-2033)	17
Table 2. Capital Improvement Plan for Transportation Impact Fees - Service Area A	19
Table 3. Capital Improvement Plan for Transportation Impact Fees - Service Area B	20
Table 4. Service Volumes for Proposed Facilities (used in Appendix A – CIP Units of Supply)	24
Table 5. Service Volumes for Existing Facilities (used in Appendix B – Existing Facilities Inventory)	25
Table 6. 10-Year Capital Improvement Plan for Transportation Impact Fees with Conceptual Level  Project Cost Projections – Service Area A	27
Table 7. 10-Year Capital Improvement Plan for Transportation Impact Fees with Conceptual Level  Project Cost Projections – Service Area B	28
Table 8. Transportation Demand Factor Calculations	33
Table 9. 10-Year Growth Projections	34
Table 10. Maximum Assessable Transportation Impact Fee Computation	35
Table 11. Maximum Assessable Impact Fee	41
Table 12. Land-Use Vehicle-Mile Equivalency Table (LUVMET)	44
LIST OF EXHIBITS	
Exhibit 1. Transportation Service Areas	14
Exhibit 2. Transportation Impact Fee CIP - Service Area A	21
Exhibit 3. Transportation Impact Fee CIP - Service Area B	22





## 1. EXECUTIVE SUMMARY

#### A. INTRODUCTION

Impact Fees are a mechanism for funding the public infrastructure necessitated by new development. Across the country, they are used to fund police and fire facilities, parks, schools, roads, and utilities. In Texas, the legislature has allowed their use for transportation, drainage, water, and wastewater facilities. In 2022, the City of Bastrop began exploring Transportation Impact Fees as a recommendation to be used as a funding tool for infrastructure needs as a result of growth in the City. Items updated in the August 2025 update are highlighted for ease of comparison with the original study.

In the most basic terms, impact fees are meant to recover the incremental cost of the impact of each new unit of development towards new infrastructure needs. Impact Fees are a mathematical calculation that determine a maximum fee that would be equivalent to growth paying for growth. This study's purpose is to calculate the maximum Transportation Impact Fee per service unit of new growth.

The Maximum Impact Fee is considered an appropriate measure of the impacts generated by a new unit of development on a City's infrastructure system. An impact fee program is anticipated to be designed so that it is **predictable** for both the development community and City. An impact fee program is **transparent**. This report describes in detail how the fee is calculated and how the Impact Fee Advisory Committee (IFAC) monitors the Impact Fee program. An impact fee program is **flexible** in that funds can be used on priority projects and not just on projects adjacent to a specific development. An impact fee program is both **equitable** and **proportional** in that every new development pays an equal fee that is directly related to its systemwide impact.





#### **B.** IMPACT FEE BASICS

#### **Service Areas**

A Service Area is a geographic area within which a unique maximum impact fee is determined. All fees collected within the Service Area must be spent on eligible improvements within the same Service Area. For Transportation Impact Fees, the Service Area may not exceed a 6-mile diameter trip length, per Texas Local Government Code (TLGC) Chapter 395.001(9). In Bastrop, this results in the creation of two (2) separate Transportation Service Areas due to the longest trips in the City limits exceeding 6 miles.

## **Land Use Assumptions**

The Impact Fee determination is required to be based on the projected growth and corresponding capacity needs in a 10-year window. This study considers the years 2023-2033. The 10-year increase in residential units is projected to be 8,977 units within the City Limits. The 2033 projections show an increase of 6,209,000 square feet of non-residential land uses over the 10-year window. These projections set the basis for determining transportation network loadings and demands to serve new growth. The distribution of residential and non-residential growth utilized information from historical growth trends and input from City staff on known future development locations.

#### **Service Units**

The "service unit" is a measure of consumption or use of the capital facilities by new development. In other words, it is the unit of measure used to quantify the supply and demand for roads and utilities in the City. Service units are attributable to an individual unit of development and utilized to calculate the maximum impact fee of a development.





For transportation purposes, the service unit is defined as a vehicle-mile. A "vehicle-mile" refers to the capacity consumed in a single lane by a vehicle making a trip one mile in length during the PM peak hour. The PM peak hour is the one-hour period during the afternoon/evening when the highest vehicular volumes are observed. In accordance with the Institute of Transportation Engineers (ITE) *Trip Generation Manual, 11th Edition,* the PM peak is used as the basis for transportation planning and the estimation of trips caused by new development.

## **Capital Improvement Plans**

The City and project staff have identified the roadway projects needed to accommodate the projected growth over the next ten (10) years within the City of Bastrop. These projects include existing and proposed projects that were determined based on their current or anticipated impact on each defined Service Area and the City as a whole.

## **Transportation Impact Fee Capital Improvement Plan**

The City of Bastrop Transportation Master Plan (TMP) is the ultimate plan for the roadway infrastructure within the City Limits. The projects on the Transportation Impact Fee Capital Improvement Plan (TIF CIP) were selected from the TMP and cover existing and proposed roadway improvements, as well as intersection improvements with 10-year growth potential. The project team and City staff identified roadway and intersection projects with a projected total project cost (not impact fee eligible cost) of \$121,805,560 over two (2) Transportation Service Areas. The TIF CIP is unchanged in the August 2025 update and new projects were not added.

## **Recoverable Project Costs**

Impact Fees are a one-time fee meant to recover the incremental cost of the impact of each new unit of development creating new infrastructure needs within a ten-year window. With this consideration, the maximum assessable impact fee does not





specifically cover the entire cost of a roadway project. The calculations that determine the percentage of a project's cost that is impact fee eligible are defined as the project's recoverable cost.

## **Roadway Recoverable Project Costs**

The recoverable costs for roadway projects are calculated by first determining the net capacity of vehicle-miles supplied to support future growth within a 10-year window. This net capacity is then multiplied by the percentage of roadway capacity added attributable to this 10-year growth. This growth percentage is obtained through the derivation of a *transportation demand factor* (TDF), which computes the total vehicle-miles associated to a single land use development unit, converting growth to service units. The TDF is applied to roadway project capacities to determine the net vehicle-miles supplied and growth projections for vehicle-miles demand to calculate the growth percentage needed to determine the total recoverable project costs.

## **Maximum Assessable Impact Fee Calculation**

In simplest terms, the maximum impact fee allowable by law is calculated by dividing the recoverable cost of the Capital Improvement Plans by the number of new service units of development. In accordance with state law, both the cost of the Capital Improvement Plan and the number of new service units of development used in the equation are based on the growth and corresponding capacity needs projected to occur within a 10-year window. This calculation is performed for each service area individually; each service area has a stand-alone Capital Improvement Plan and 10-year growth projection.

## **Adoption Process**

Chapter 395 of the Texas Local Government Code stipulates a specific process for the adoption of impact fees. A Capital Improvements Advisory Committee (CIAC) is





required to review the Land Use Assumptions and the Impact Fee Capital Improvements Plan used in calculating the maximum fee, and to provide the Committee's findings for consideration by the City Council. In Bastrop, the existing Impact Fee Advisory Committee (IFAC) served this role. The IFAC also reviews the calculation and resulting maximum fees and provides its findings to the City Council. The composition of the IFAC is required to have adequate representation of the building and development communities. In Bastrop, the IFAC members include real estate, development, and building industry professionals including an ETJ representative. The City Council then conducts a public hearing on the Land Use Assumptions, Impact Fee Capital Improvements Plan, and Impact Fee Ordinance.

Following policy adoption, the IFAC is tasked with advising the City Council of the need to update the Land Use Assumptions or the Impact Fee Capital Improvements Plan at any time up to a maximum of five years of adoption. Finally, the CIAC oversees the proper administration of the Impact Fee, once in place, and advises the Council as necessary.

Chapter 395 of the Texas Local Government Code requires a total of two (2) public hearings before Council to approve an impact fee program. The first public hearing to discuss the land use assumptions and capital improvements plan was held on June 13, 2023. The second public hearing is scheduled to be held September 12<sup>th</sup>, 2023 with the intent of presenting a proposal for impact fee calculations and the adoption of an impact fee report (this study) and ordinance.

Chapter 395 of the Texas Local Government Code requires one (1) public hearing before Council for updates to an existing impact fee program. A public hearing is anticipated to be held on October 14, 2025 for the 2025 Update.





## 2. INTRODUCTION

Chapter 395 of the Texas Local Government Code (TLGC) describes the procedure Texas cities must follow in order to create and implement impact fees. Senate Bill 243 (SB 243) amended Chapter 395 in September 2001 to define an impact fee as "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."

The City of Bastrop previously retained Kimley-Horn to provide professional transportation engineering services for the 2023 Transportation Impact Fee Study and has retained The Goodman Corporation to provide professional engineering services for the 2025 update. This report includes details of the Transportation Impact Fee calculation methodology in accordance with Chapter 395, the applicable Land Use Assumptions, development of the TIF CIP, and the Land Use Vehicle-Mile Equivalency Table.

This report introduces and references two of the basic inputs to the Transportation Impact Fee:

- 1. Land Use Assumptions (Pg. 11)
- 2. Capital Improvement Plan (Pg. 18)

Information from the Land Use Assumptions and this Capital Improvement Plan are used extensively throughout the remainder of the report.

This report consists of a detailed discussion of the methodology for the computation of impact fees and is broken into three components:

- 1. Methodology for Transportation Impact Fees (Pg. 23)
- 2. Transportation Impact Fee Calculation (Pg. 35)
- 3. Plan for Awarding the Transportation Impact Fee Credit (Pg. 39)





The components of the **Methodology for Transportation Impact Fees** include development of:

- Service Areas
- Service Units
- Cost Per Service Unit
- Cost of the CIP
- Service Unit Calculation

The components of the **Transportation Impact Fee Calculation** include:

- Maximum Assessable Impact Fee Per Service Unit
- Service Unit Demand Per Unit of Development

This report also includes a section concerning the **Plan for Awarding the Transportation Impact Fee Credit**. This involves the calculation of the applicable ad valorem tax credit required by law to help fund the Transportation Impact Fee CIP.

The final section of the report is the **Conclusion**, which presents the findings of the update analysis and summarizes the report.





## 3. TRANSPORTATION IMPACT FEE CALCULATION INPUTS

#### A. LAND USE ASSUMPTIONS

## **Purpose**

Impact Fees are a mechanism for funding the public infrastructure necessitated by growth. In the most basic terms, impact fees are meant to recover the incremental cost of the impact of each new unit of development growth creating new infrastructure needs. In order to assess an impact fee, Land Use Assumptions must be developed to provide the basis for residential and employment growth projections within a municipality. As defined by Chapter 395 of the Texas Local Government Code, these assumptions include a description of changes in land uses, densities, and development in the service area. The land use assumptions are then used in determining the need and timing of transportation improvements to serve future development.

This section documents the process used to develop the Land Use Assumptions for the City of Bastrop's Transportation Impact Fee Study. In accordance with Chapter 395 of the Texas Local Government Code, Transportation Impact fees must be calculated based on reasonable expectations of residential and employment growth within the next ten years (2023-2033). The following resources provided the information required to complete the Land Use Assumptions:

- Projected new developments
- Developments currently under construction
- Recently platted developments
- City of Bastrop Comprehensive Plan
- City of Bastrop Transportation Master Plan
- City of Bastrop staff





## **Components of the Land Use Assumptions Section**

The Land Use Assumptions include the following components:

- Impact Fee Study Service Areas Explanation of the divisions of Bastrop into service areas for Transportation Impact fees.
- 2. **Land Use Assumptions Methodology** An overview of the general methodology used to generate the land use assumptions.
- Ten-Year Growth Assumptions Walk-through of the growth projections for 2023-2033.

## **Impact Fee Study Service Areas**

#### **Service Area Definition**

According to Chapter 395 of the Local Government Code, a Service Area refers to the area within the corporate boundaries or extraterritorial jurisdiction of the political subdivision to be served by the capital improvement or facilities specified in the Capital Improvement Plan. Funds collected in the specific service areas must be spent in the service area collected. Chapter 395 specifies that "the service area is limited to an area within the corporate boundaries of the political subdivision and shall not exceed six (6) miles." This resulted in the creation of two (2) service areas in the City of Bastrop. The 2025 Update amends the original service areas to account for annexations of land since the original 2023 study.

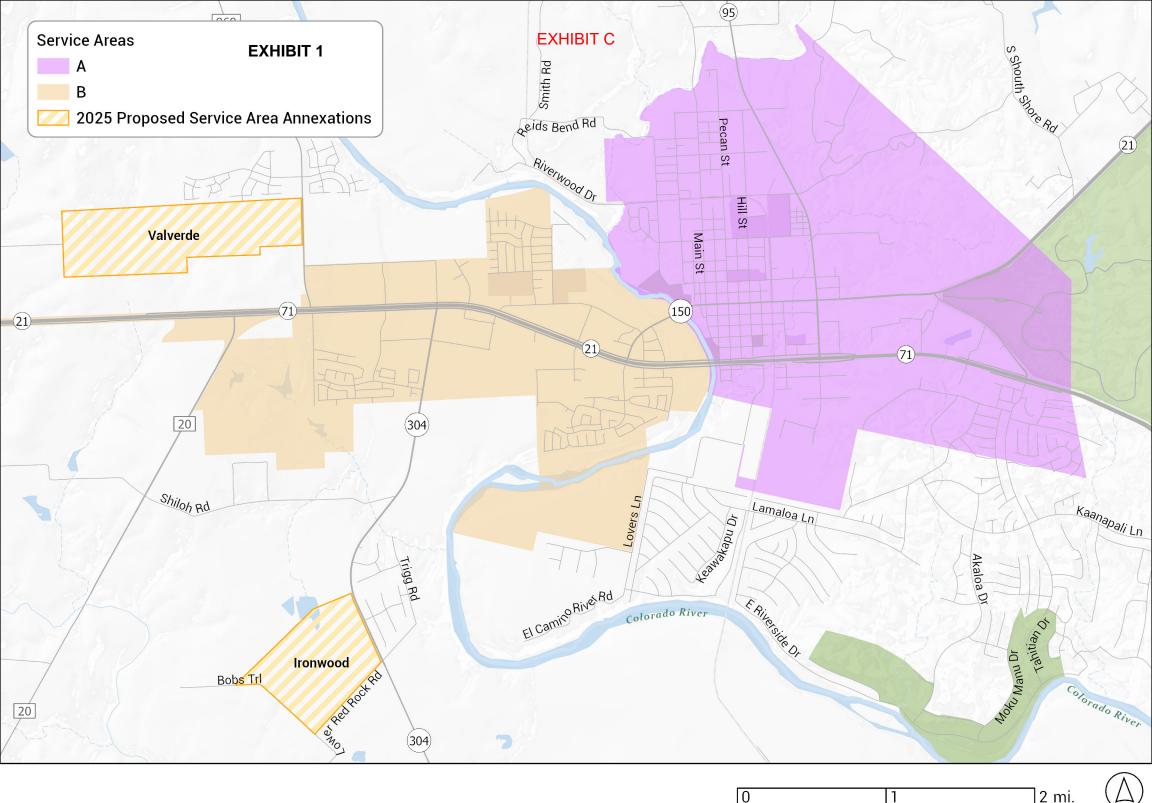
## **Transportation Impact Fee Service Areas**

The geographic boundaries of the two (2) impact fee service areas for transportation facilities are shown in **Exhibit 1**. For roadway facilities, the service areas are limited to those areas within the current corporate limits. Therefore, areas within the extraterritorial jurisdiction (ETJ) are excluded from this study.



## THE GOODMAN CORPORATION

The Colorado River serves as the primary service area boundary (except for a small area off of Lovers Lane to maintain contiguity), dividing the City into Service Area A to the west and Service Area B to the east. At locations where service area boundaries follow a thoroughfare facility, the proposed boundary is intended to follow the centerline of the roadway. In cases where a service area boundary follows the City Limits, only those portions of the facility within the City Limits area are included in the service area.







## **Land Use Assumptions Methodology**

The following factors were considered in developing the residential and employment projections:

- Character, type, density, location, and quantity of existing development;
- Growth trends and historical data;
- Location of vacant land;
- City of Bastrop Comprehensive Plan;
- City of Bastrop Transportation Master Plan;
- Physical restrictions (i.e. flood plains); and
- Planned development data.

The residential and employment estimates were all compiled in accordance with the following categories:

**Residential Units** – Number of residential dwelling units, including <u>single-family</u> and <u>multifamily</u>

**Employment** – Square feet of building area based on three (3) different classifications. Each classification has unique trip making characteristics.

<u>Basic</u> - Land use activities that produce goods and services, including those that are exported outside the local economy (i.e. manufacturing, construction, transportation, wholesale, trade, warehousing, and other industrial uses)

<u>Service</u> - Land use activities which provide personal and professional services such as government and other professional offices





<u>Retail</u> - Land use activities which provide for the retail sale of goods that primarily serve households and whose location choice is oriented toward the household sector (i.e. grocery stores and restaurants)

As outlined above, the residential and employment land uses are broken down into the five broader categories of single-family, multifamily, basic, service, and retail land uses. These five categories are used in the development of the assumptions for impact fees. In the calculation of the specific Transportation Impact Fee, a more specific and expanded classification based on the Institute of Transportation Engineers (ITE) Trip Generation Manual will be utilized.

Growth projections for the next 10 years (2023-2033) for the City of Bastrop were established using the City's future land use and historical census data.

## **Residential Development Neighborhoods**

The City provided future land use data for known **single** and **multifamily** developments that are currently planned for construction within the next ten years. For some developments, the data indicates the total number of undeveloped dwelling units. For those developments that didn't provide an indication of total dwelling units, the projected acreage of each site was used to calculate a unit estimate for each property.

The analysis assumes ratios of 4 dwelling units/acre for each unknown future single-family development and 20 units/acres for each unknown future multifamily development. The projected acreage for each unknown residential site was multiplied by the respective constant unit assumption (4 for single-family, 20 for multifamily) to determine an assumed number of dwelling units associated with the site.

Projections for new single-family and multifamily developments in the next ten years were determined by the City of Bastrop and can be found in **Table 1**.





#### **Commercial Developments**

The City also provided future land use data for known commercial (non-residential) developments that are currently planned for construction within the next ten years. Each of these developments was categorized as a **basic**, **service**, or **retail** land use type, based on its respective projected trip characteristics.

The available existing plat data provides acreages for commercial developments at the parcel level; however, as mentioned previously, commercial developments are measured by square footage of building area. To determine the estimated building area for each development, a floor area ratio (FAR) was applied to the square footage of each development based on its commercial classification. Each FAR was assigned based on standard planning principles and assumptions and evaluating FAR's for existing developments in Bastrop for each category.

Projections for commercial developments in the next ten years were determined by the City of Bastrop and can be found in **Table 1**.

## **10-Year Growth Assumptions**

**Table 1** summarizes the residential and employment growth projections by service area, as amended in the 2025 Update.

Table 1. Land Use Assumptions Growth Projections (2023-2033)

	Resid	ential	Commercial				
Service Area	Single-Family	Multifamily	Basic	Service	Retail		
Service Area	Dwellin	g Units		Sq. Ft.			
	4 units/acre	20 units/acre	FAR 0.25	FAR	0.20		
SA A	1,942	3,680	0	491,000	2,382,000		
SA B	1,780	1,575	2,170,000	217,000	949,000		
Sub-total	3,722	5,255	2,170,000	708,000	3,331,000		
Total	8,977						





### **B.** Capital Improvement Plan

The City has identified transportation projects needed to accommodate the projected growth within the City. These transportation projects include those that are fully funded by the City of Bastrop, as well as some roadway facilities maintained by the Texas Department of Transportation (TxDOT). TxDOT-maintained facilities are currently projected to be funded by both the City and TxDOT, with the City assumed to fund roughly 20% of costs (which are included in the TIF study) based on historical cost sharing agreements. All of these City-identified projects come together to form the Capital Improvement Plan (CIP) for Transportation Impact Fees. The CIP includes State Highway, City multimodal, and local roadway facilities, as well as intersection improvements. It should be noted that the "grid streets" required by the B3 Code were not included as projects from the Transportation Master Plan due to them serving site-specific infrastructure needs and not broader system capacity as a local street type connection.

Tables 2-3 and mapped in Exhibits 2-3. The table shows the length of each project as well as the facility's lane configuration and available right-of-way (listed under "Impact Fee Class"). The CIP was developed in conjunction with input from City staff and represents those projects that will be needed to accommodate the growth projected by the 2033 Land Use Assumptions for the Transportation Impact Fee Study. The CIP for Transportation Impact Fees is unchanged in the 2025 update.





## Table 2. Capital Improvement Plan for Transportation Impact Fees - Service Area A

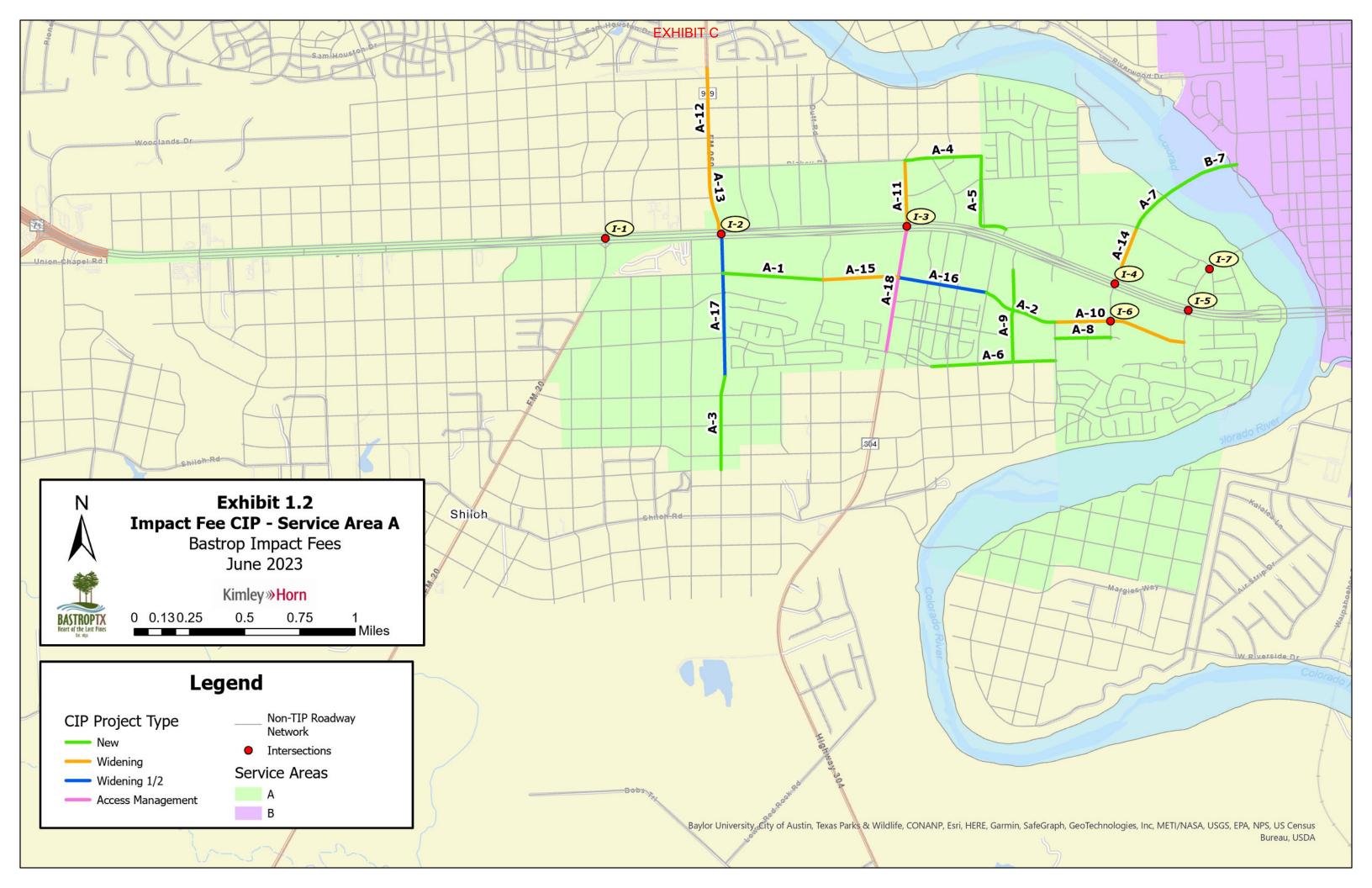
Service Area	Proj. #	Impact Fee Class	Project	Limits	Length (mi)	% In Service Area
		-	Roady	way Improvements		-
	A-1	4D_(80)	Agnes (1)	Bear Hunter Drive to Hunter's Crossing	0.46	100%
	A-2	4D_(80)	Agnes (2)	Hospital Drive to Schaefer Blvd	0.35	100%
	A-3	4D_(80)	Bear Hunter Drive (1)	Bear Hunter Drive (existing) to 1,000' N of Shiloh Rd	0.42	100%
	A-4	2U_(50)	Blakey Ln (1)	Edward Burleson Ln to 1,830' E of Edward Burleson Ln	0.35	100%
	A-5	2U_(50)	Blakey Ln (2)	City Limits to Old Austin Highway	0.43	100%
	A-6	3U_(56)	Greenleaf Fisk Dr	Bass Drive to Schaefer Blvd	0.57	100%
	A-7	4D_(80)	Hasler Blvd (1)	Old Austin Hwy to Colorado River	0.26	100%
	A-8	2U_(50)	Marie St	Schaefer Blvd to Hasler Blvd	0.25	100%
	A-9	3U (56)	Orchard Pkwy	SH 71 to Hunters Point Drive	0.42	100%
	A-10	4D_(80)	Agnes (3)	Schaefer Blvd to Childers Drive	0.60	100%
	A-11	4D_(80)	Edward Burleson	Blakey to SH 21 EBFR	0.32	100%
	A-12	4D_(110)	FM 969 (1)	City Limits to Blakey Ln	0.46	100%
A	A-13	4D_(110)	FM 969 (2)	Blakey Ln to State Highway 21	0.28	100%
	A-14	4D_(80)	Hasler Blvd (2)	Old Austin Hwy to SH 21	0.25	100%
	A-15	4D (80)	Home Depot Way	Hunter's Crossing to SH 304	0.34	100%
	A-16	4D_(80)	Agnes (4)	SH 304 to Hospital Drive	0.41	100%
	A-17	4D_(80)	Bear Hunter Drive (2)	State Highway 21 to Bear Hunter Drive (existing)	0.63	100%
	A-18	4D (110)	SH 304	SH 21 EBFR to Hunters Point Dr	0.55	100%
			Interse	ction Improvements		
	I-1	-	Highway 71 & FM 20	Traffic Signal	-	100%
	I-2	_	FM 969 / Bear Hunter & SH 21	Overpass	-	100%
	I-3	-	Edward Burleson Ln / SH 304 & SH 21	Intersection Improvements	-	100%
	I-4	-	Hasler Blvd & SH 21	Intersection Improvements	-	100%
	I-5	-	Loop 150 / Childers Dr & SH 21	Intersection Improvements	-	100%
	I-6	-	Agnes & Hasler	Roundabout	-	100%
	I-7	-	Old Austin & Loop 150	Roundabout	-	100%

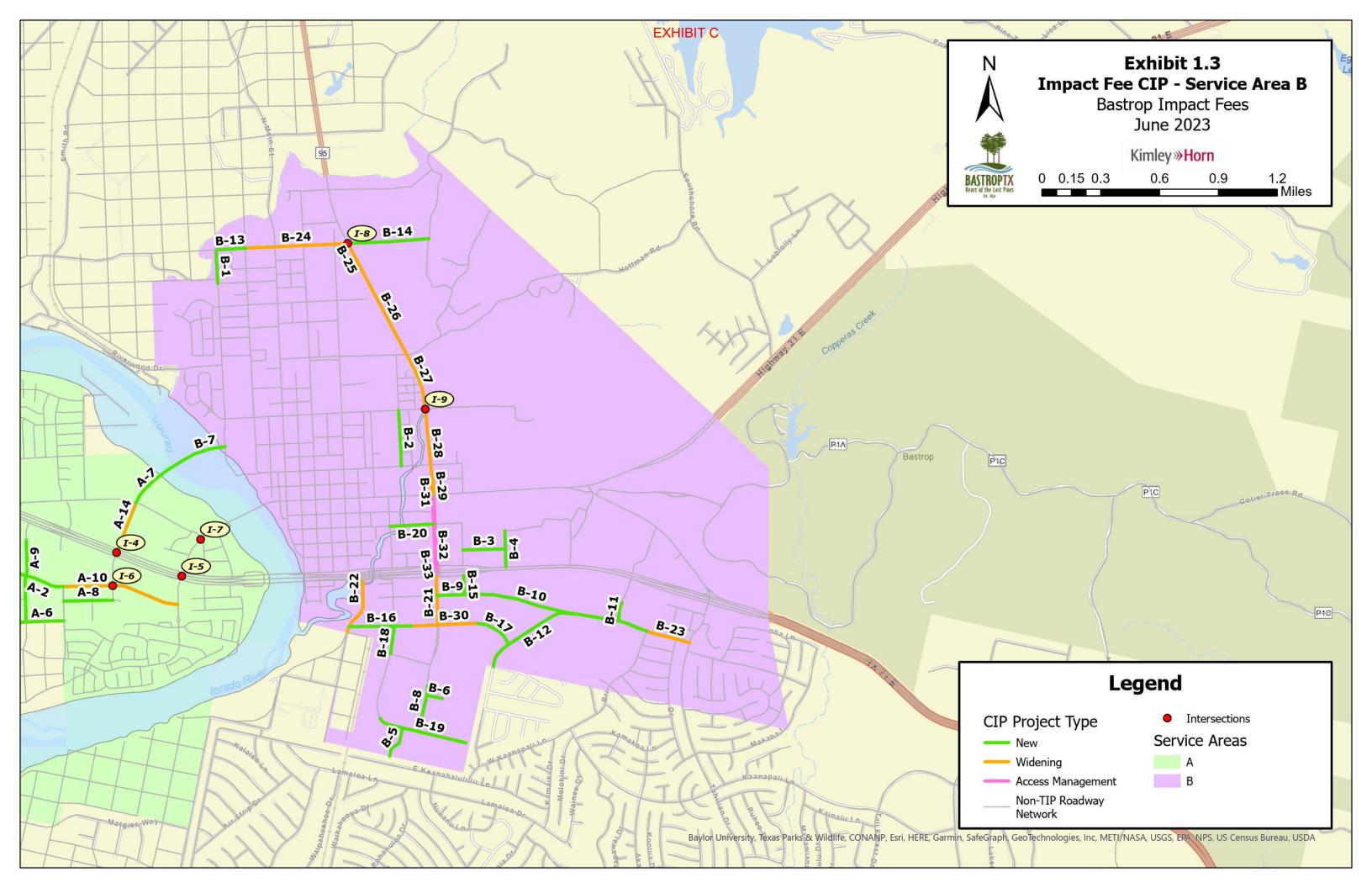




## Table 3. Capital Improvement Plan for Transportation Impact Fees - Service Area B

Service Area	Proj. #	Impact Fee Class	Project	Limits	Length (mi)	% In Service Area		
	Roadway Improvements							
	B-1	2U_(50)	Carter St	Mesquite St to Magnolia St	0.17	100%		
	B-2	2U_(50)	Chambers St	Cedar St to Farm St	0.29	100%		
	B-3	2U_(50)	Future Collector A	Pitt St to Future Collector B	0.22	100%		
	B-4	2U_(50)	Future Collector B	Lost Pines Ave to SH 71	0.19	100%		
	B-5	2U_(50)	Future Collector C	Technology Drive extension to City Limits	0.17	100%		
	B-6	2U_(50)	Future Collector D	Jackson St extension to 420' E of Jackson St extension	0.08	100%		
	B-7	4D_(80)	Hasler Blvd (3)	Colorado River to Willow St	0.29	100%		
	B-8	4D_(80)	Jackson St (1)	Jackson St (existing) to 1,260' S of Jackson St	0.24	100%		
	B-9	2U_(50)	Jasper St (1)	Jackson St to 930' E of Jackson St	0.18	100%		
	B-10	2U_(50)	Jasper St (2)	930' E of Jackson St to Hidden Hollow Ct	0.51	100%		
	B-11	2U_(50)	Majestic Pine Dr	Majestic Pine Dr (existing) to Mauna Loa Ln	0.10	100%		
	B-12	2U_(50)	Mauna Loa Ln (1)	Pine Lodge Dr to Briar Forest Dr	0.95	100%		
	B-13	3U_(56)	Mesquite St (1)	800' W of Wilson St to Wilson St	0.15	100%		
В	B-14	3U_(56)	Mesquite St (2)	SH 95 to Piney Ridge Dr	0.41	100%		
	B-15	2U_(50)	Pitt St	SH 71 to Jasper St	0.10	100%		
	B-16	3U_(56)	South Street (1)	Lovers Lane to South St (existing)	0.33	100%		
	B-17	3U_(56)	South Street (2)	1,200' E of Jackson St to Mauna Loa Ln	0.21	100%		
	B-18	2U_(50)	Technology Drive (1)	Mill St to Business Park Dr	0.14	100%		
	B-19	2U_(50)	Technology Drive (2)	Technology Drive (existing) to City Limits	0.46	100%		
	B-20	2U_(50)	Walnut Street	Martin Luther King Dr to SH 21	0.22	100%		
	B-21	4D_(80)	Jackson St (2)	SH 21 to South St	0.25	100%		
	B-22	3U_(56)	Lovers Ln	City Limits to College St	0.29	100%		
	B-23	2U_(50)	Mauna Loa Ln (2)	Briar Forest Dr to Tahitian Dr	0.23	100%		
	B-24	3U_(56)	Mesquite St (3)	Wilson St to SH 95	0.52	100%		
	B-25	4D_(110)	SH 95 (1)	Mesquite St to 700' S of Mesquite St	0.13	100%		
	B-26	4D_(110)	SH 95 (2)	700' S of Mesquite St to Hawthorne St	0.51	100%		
	B-27	4D_(110)	SH 95 (3)	Hawthorne St to Cedar St	0.30	100%		
	B-28	4D_(110)	SH 95 (4)	Cedar St to Spring St	0.36	100%		
	B-29	4D_(110)	SH 95 (5)	Farm St to Chestnut St/SH 21	0.16	100%		
	B-30	3U_(56)	South Street (3)	650' W of Jackson St to 1,200' E of Jackson St	0.32	100%		
	B-31	4D_(110)	SH 21 (1)	Chestnut St to Walnut St	0.30	100%		
	B-32	4D_(110)	SH 21 (2)	Walnut St to SH 21 WBFR	0.43	100%		
	B-33	4D (110)	SH 95 (6)	SH 21 WBFR to SH 21 EBFR	0.11	100%		
	Intersection Improvements							
	I-8	-	Mesquite St & SH 95	Traffic Signal	-	100%		
	I-9	-	SH 95 & Cedar St	Traffic Signal	-	100%		









## 4. METHODOLOGY FOR TRANSPORTATION IMPACT FEES

#### A. SERVICE AREAS

The service areas used in the 2025 Transportation Impact Fee Study Update are shown in the previously referenced **Exhibit 1**. These service areas cover the entire corporate boundary of the City of Bastrop. Chapter 395 of the Texas Local Government Code specifies that "the service area is limited to an area within the corporate boundaries of the political subdivision and shall not exceed six (6) miles." This resulted in the creation of two (2) service areas in the City of Bastrop.

#### **B. SERVICE UNITS**

The "service unit" is a measure of consumption or use of the roadway facilities by new development. In other words, it is the measure of supply and demand for roads in the City. For transportation purposes, the service unit is defined as a vehicle-mile. On the supply side, this is a lane-mile of a system facility street. On the demand side, this is a vehicle-trip of one-mile in length. The application of this unit as an estimate of either supply or demand is based on travel during the afternoon peak hour of traffic. This time period is commonly used as the basis for transportation planning and the estimation of trips created by new development.

Another aspect of the service unit is the service volume that is provided (supplied) by a lane-mile of roadway facility. This number, also referred to as capacity, is a function of the facility type, facility configuration, number of lanes, and level of service. Below is the definition for vehicle-mile.

<u>Vehicle-Mile</u>: The capacity consumed in a single lane in the PM peak hour by a vehicle making a trip one mile in length.





<u>Total Vehicle-Miles of Supply</u>: Based on the total length (miles), number of lanes, and capacity (vehicles per hour) provided by the Transportation Impact Fee CIP.

<u>Total Vehicle-Miles of Demand</u>: Based on the 10-year growth projections. The demand is equal to PM Trip Rate (trips) \* Trip Length (miles).

The hourly service volumes used in the Transportation Impact Fee Study are based upon Thoroughfare Capacity Criteria published by the Capital Area Metropolitan Planning Organization (CAMPO) and daily volume ranges per functional classification presented in the City of Bastrop's Thoroughfare Plan. **Table 4** shows the service volumes as a function of the proposed facility type, and **Table 5** shows the service volumes as a function of the existing facility type.

TxDOT-maintained roadways generally operate higher speeds than City facilities. With this increase in speed comes a potential increase in capacity, as drivers are more likely to travel along higher-speed roads when available. With this understanding, a 20% increase in roadway capacity was applied to all TxDOT-maintained roads that are not already identified under the State Highway System on the City's Thoroughfare Plan.

**Table 4. Service Volumes for Proposed Facilities** 

(used in Appendix A – CIP Units of Supply)

Thoroughfare Plan Classification	Impact Fee Classification <sup>1</sup>	Median Configuration	Hourly Vehicle-Mile Capacity per Lane-Mile of Roadway Facility	
State Highway System	4D_(110)	Divided	900	
Primary Multimodal Street A	3U_(56)	Undivided	525	
Filliary Waltimodal Street A			630 (TxDOT)	
Primary Multimodal Street B	4D_(80)	Divided	725	
Filliary Waltimodal Street B			870 (TxDOT)	
Local Connector Street	2U_(50)	Undivided	425	
Local Connector Street			510 (TxDOT)	

<sup>&</sup>lt;sup>1</sup>Represents "Number of Lanes", whether "Divided" or "Undivided", and with approximate Right-of-Way.





**Table 5. Service Volumes for Existing Facilities** 

(used in Appendix B – Existing Facilities Inventory)

Roadway Type <sup>1</sup>	Description	Hourly Vehicle-Mile Capacity per Lane-Mile of Roadway Facility		
1U	One-lane undivided	325		
2∪ <b>(TxDOT)</b>	Two-lane undivided	425 <b>(510)</b>		
20 (1201)	(with curb & gutter)	423 (310)		
2U-R	Two-lane undivided	350		
20 10	(Rural Cross-Section)	330		
3U <b>(TxDOT)</b>	Three-lane undivided	525 <b>(630)</b>		
4U	Four-lane undivided	550		
4D <b>(TxDOT)</b>	Four-lane divided	725 <b>(870)</b>		
5U	Five-lane undivided	750		
4D – State Highway System	Four-lane divided	900		
4D - State Highway System	(Highway Facility)	500		

<sup>&</sup>lt;sup>1</sup>Represents "Number of Lanes", whether "Divided" or "Undivided" and if State Maintained/Owned.

### C. COST PER SERVICE UNIT

A fundamental step in the impact fee process is to establish the cost for each service unit. In the case of the Transportation Impact Fee, this is the cost for each vehicle-mile of travel. This cost per service unit is the cost to construct a roadway (lane-mile) needed to accommodate a vehicle-mile of travel at a level of service corresponding to the City's standards. The cost per service unit is calculated for each service area based on a specific list of projects within that service area.

The second component of the cost per service unit is the number of service units in each service area. This number is the measure of the growth in transportation demand that is projected to occur in the ten-year period. Chapter 395 requires that impact fees be assessed only to pay for growth projected to occur in the City limits within the next ten





years (see **Section 4.D**). As noted earlier, the units of demand are vehicle-miles of travel.

### D. COST OF THE CIP

All of the project costs for a facility which serves the overall transportation system are eligible to be included in the Transportation Impact Fee CIP. Chapter 395 of the Texas Local Government Code specifies that the allowable costs are "...including and limited to the:

- 1. Construction contract price;
- 2. Surveying and engineering fees;
- 3. Land acquisition costs, including land purchases, court awards and costs, attorney's fees, and expert witness fees; and
- 4. Fees actually paid or contracted to be paid to an independent qualified engineer or financial consultant preparing or updating the Capital Improvement Plan who is not an employee of the political subdivision."

**Tables 6-7** present the CIP project list for the City of Bastrop with conceptual level project cost projections, which have been provided by the City (see **Appendix C**). It should be noted that these tables reflect only conceptual-level opinions or assumptions regarding the portions of future project costs that are potentially recoverable through impact fees. Actual costs of construction are likely to change with time and are dependent on market and economic conditions that cannot be precisely predicted at this time. TxDOT projects are included with a projected City contribution of 20% of the total project cost. CIP Costing is unchanged in the 2025 Update.





# Table 6. 10-Year Capital Improvement Plan for Transportation Impact Fees with Conceptual Level Project Cost Projections – Service Area A

Service Area	Proj. #	Impact Fee Class	Project	Limits	Length (mi)	% In Service Area		ject Cost in rvice Area	
				Roadway Improvements					
	A-1	4D_(80)	Agnes (1)	Bear Hunter Drive to Hunter's Crossing	0.46	100%	\$	4,370,000	
	A-2	4D_(80)	Agnes (2)	Hospital Drive to Schaefer Blvd	0.35	100%	\$	3,325,000	
	A-3	4D_(80)	Bear Hunter Drive (1)	Bear Hunter Drive (existing) to 1,000' N of Shiloh Rd	0.42	100%	\$	4,069,000	
	A-4	2U_(50)	Blakey Ln (1)	Edward Burleson Ln to 1,830' E of Edward Burleson Ln	0.35	100%	\$	1,423,000	
	A-5	2U_(50)	Blakey Ln (2)	City Limits to Old Austin Highway	0.43	100%	\$	1,773,000	
	A-6	3U_(56)	Greenleaf Fisk Dr	Bass Drive to Schaefer Blvd	0.57	100%	\$	2,664,000	
	A-7	4D_(80)	Hasler Blvd (1)	Old Austin Hwy to Colorado River	0.26	100%	\$	2,518,000	
	A-8	2U_(50)	Marie St	Schaefer Blvd to Hasler Blvd	0.25	100%	\$	1,032,000	
	A-9	3U_(56)	Orchard Pkwy	SH 71 to Hunters Point Drive	0.42	100%	\$	1,976,000	
	A-10	4D_(80)	Agnes (3)	Schaefer Blvd to Childers Drive	0.60	100%	\$	5,959,000	
	A-11	4D_(80)	Edward Burleson	Blakey to SH 21 EBFR	0.32	100%	\$	2,862,000	
	A-12	4D_(110)	FM 969 (1)	City Limits to Blakey Ln	0.46	100%	\$	768,800	
	A-13	4D_(110)	FM 969 (2)	Blakey Ln to State Highway 21	0.28	100%	\$	479,600	
	A-14	4D_(80)	Hasler Blvd (2)	Old Austin Hwy to SH 21	0.25	100%	\$	2,516,000	
A	A-15	4D_(80)	Home Depot Way	Hunter's Crossing to SH 304	0.34	100%	\$	3,388,000	
	A-16	4D_(80)	Agnes (4)	SH 304 to Hospital Drive	0.41	100%	\$	3,614,000	
	A-17	4D_(80)	Bear Hunter Drive (2)	State Highway 21 to Bear Hunter Drive (existing)	0.63	100%	\$	5,582,000	
	A-18	4D_(110)	SH 304	SH 21 EBFR to Hunters Point Dr	0.55	100%	\$	935,200	
	Intersection Improvements								
	I-1	-	Highway 71 & FM 20	Traffic Signal	-	100%	\$	500,000	
	I-2	-	FM 969 / Bear Hunter & SH 21	Overpass	-	100%	\$	10,000,000	
	I-3	-	Edward Burleson Ln / SH 304 & SH 21	Intersection Improvements	-	100%	\$	300,000	
	I-4	-	Hasler Blvd & SH 21	Intersection Improvements	-	100%	\$	300,000	
	I-5	-	Loop 150 / Childers Dr & SH 21	Intersection Improvements	-	100%	\$	300,000	
	I-6	-	Agnes & Hasler	Roundabout	-	100%	\$	2,000,000	
	I-7	-	Old Austin & Loop 150	Roundabout	-	100%	\$	2,000,000	
				Service Area Roadway	Project Co	st Subtotal	\$	49,254,600	
				Service Area Intersection	Project Co	st Subtotal	\$	15,400,000	
				2023 Transportation Impact Fee Study O	-		-	39,980	
	Total Cost in SERVICE AREA A \$								

### Notes:

- a. The planning level cost projections have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.
- b. The planning level cost projections shall not supersede the City's design standards contained within the Subdivision Ordinance or the determination of the City Engineer for a specific project.
- c. The project cost total within Service Area may differ from the total shown in the Summary sheets contained within **Appendix C** due to some projects that are split between City limits and ETJ.





# Table 7. 10-Year Capital Improvement Plan for Transportation Impact Fees with Conceptual Level Project Cost Projections – Service Area B

Service Area	Proj. #	Impact Fee Class	Project	Limits	Length (mi)	% In Service Area		ect Cost in vice Area
		•		Roadway Improvements		•		
	B-1	2U (50)	Carter St	Mesquite St to Magnolia St	0.17	100%	\$	707,000
	B-2	2U (50)	Chambers St	Cedar St to Farm St	0.29	100%	\$	1,172,000
	B-3	2U (50)	Future Collector A	Pitt St to Future Collector B	0.22	100%	\$	893,000
	B-4	2U (50)	Future Collector B	Lost Pines Ave to SH 71	0.19	100%	\$	764,000
	B-5	2U (50)	Future Collector C	Technology Drive extension to City Limits	0.17	100%	\$	695,000
	B-6	2U (50)	Future Collector D	Jackson St extension to 420' E of Jackson St extension	0.08	100%	\$	326,000
	B-7	4D (80)	Hasler Blvd (3)	Colorado River to Willow St	0.29	100%	\$	2,817,000
	B-8	4D (80)	Jackson St (1)	Jackson St (existing) to 1,260' S of Jackson St	0.24	100%	\$	2,299,000
	B-9	2U (50)	Jasper St (1)	Jackson St to 930' E of Jackson St	0.18	100%	\$	722,000
	B-10	2U (50)	Jasper St (2)	930' E of Jackson St to Hidden Hollow Ct	0.51	100%	\$	2,087,000
	B-11	2U (50)	Majestic Pine Dr	Majestic Pine Dr (existing) to Mauna Loa Ln	0.10	100%	\$	404,000
	B-12	2U (50)	Mauna Loa Ln (1)	Pine Lodge Dr to Briar Forest Dr	0.95	100%	\$	3,890,000
	B-13	3U (56)	Mesquite St (1)	800' W of Wilson St to Wilson St	0.15	100%	\$	701,000
	B-14	3U (56)	Mesquite St (2)	SH 95 to Piney Ridge Dr	0.41	100%	\$	1,954,000
	B-15	2U (50)	Pitt St	SH 71 to Jasper St	0.10	100%	\$	401,000
	B-16	3U (56)	South Street (1)	Lovers Lane to South St (existing)	0.33	100%	\$	1,553,000
	B-17	3U (56)	South Street (2)	1,200' E of Jackson St to Mauna Loa Ln	0.21	100%	\$	996,000
	B-18	2U (50)	Technology Drive (1)	Mill St to Business Park Dr	0.14	100%	\$	586,000
	B-19	2U (50)	Technology Drive (2)	Technology Drive (existing) to City Limits	0.46	100%	\$	1,885,000
В	B-20	2U (50)	Walnut Street	Martin Luther King Dr to SH 21	0.22	100%	\$	907,000
	B-21	4D (80)	Jackson St (2)	SH 21 to South St	0.25	100%	\$	500,000
	B-22	3U (56)	Lovers Ln	City Limits to College St	0.29	100%	\$	10,000,000
	B-23	2U (50)	Mauna Loa Ln (2)	Briar Forest Dr to Tahitian Dr	0.23	100%	\$	300,000
	B-24	3U (56)	Mesquite St (3)	Wilson St to SH 95	0.52	100%	\$	300,000
	B-25	4D (110)	SH 95 (1)	Mesquite St to 700' S of Mesquite St	0.13	100%	\$	300,000
	B-26	4D (110)	SH 95 (2)	700' S of Mesquite St to Hawthorne St	0.51	100%	\$	2,000,000
	B-27	4D (110)	SH 95 (3)	Hawthorne St to Cedar St	0.30	100%	\$	2,000,000
	B-28	4D (110)	SH 95 (4)	Cedar St to Spring St	0.36	100%	\$	754,000
	B-29	4D (110)	SH 95 (5)	Farm St to Chestnut St/SH 21	0.16	100%	\$	348,000
	B-30	3U (56)	South Street (3)	650' W of Jackson St to 1,200' E of Jackson St	0.32	100%	\$	1,544,000
	B-31	4D (110)	SH 21 (1)	Chestnut St to Walnut St	0.30	100%	\$	632,000
	B-32	4D (110)	SH 21 (2)	Walnut St to SH 21 WBFR	0.43	100%	\$	902,000
	B-33	4D (110)	SH 95 (6)	SH 21 WBFR to SH 21 EBFR	0.11	100%	\$	232,000
				Intersection Improvements				
	I-8	-	Mesquite St & SH 95	Traffic Signal	-	100%	\$	500,000
	I-9	-	SH 95 & Cedar St	Traffic Signal	-	100%	\$	500,000
		•		Service Area Roadway	Project Co	st Subtotal	\$ 4	15,571,000
				Service Area Intersection	3			1,000,000
				2023 Transportation Impact Fee Study C	3			39,980
	<u> </u>						•	)
				Total Cost in SE	KVICE	<u>akea b</u>	\$ 4	6,610,980

### Notes:

- a. The planning level cost projections have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.
- b. The planning level cost projections shall not supersede the City's design standards contained within the Subdivision Ordinance or the determination of the City Engineer for a specific project.
- c. The project cost total within Service Area may differ from the total shown in the Summary sheets contained within **Appendix C** due to some projects that are split between City limits and ETJ.





### E. Service Unit Calculation

The basic service unit for the computation of Bastrop's Transportation Impact Fees is the vehicle-mile of travel during the afternoon peak-hour. To determine the cost per service unit, it is necessary to project the growth in vehicle-miles of travel for the service area for the ten-year period.

The growth in vehicle-miles from 2023 to 2033 is based upon projected changes in residential and non-residential growth for the period. In order to determine this growth, baseline estimates of population, basic square feet, service square feet, and retail square feet for 2023 were made by the City, along with projections for each of these demographic statistics through 2033. The **Land Use Assumptions** section of this report details the growth estimates used for the impact fee determination.

The residential and non-residential statistics in the Land Use Assumptions provide the "independent variables" that are used to calculate the existing (2023) and projected (2033) transportation service units used to establish the Transportation Impact Fee maximum rates within each service area. The roadway demand service units (vehicle-miles) for each service area are the sum of the vehicle-miles "generated" by each category of land use in the service area.

For the purpose of impact fees, all developed and developable land is categorized as either residential or non-residential. For residential land uses, the existing and projected population is converted to dwelling units. The number of dwelling units in each service area is multiplied by a transportation demand factor to compute the vehicle-miles of travel that occur during the afternoon peak hour. This factor computes the average amount of demand caused by the residential land uses in the service area. The transportation demand factor is discussed in more detail below.





For non-residential land uses, the process is similar. The Land Use Assumptions provide existing and projected number of building square footages for three categories of non-residential land uses – basic, service, and retail. These categories correspond to an aggregation of other specific land use categories based on the North American Industrial Classification System (NAICS).

Building square footage is the most common independent variable for the estimation of non-residential trips in the Institute of Transportation Engineers' (ITE) Trip Generation Manual, 11th Edition. This characteristic is more appropriate than the number of employees because building square footage is tied more closely to trip generation and is known at the time of application for any development or development modification that would require the assessment of an impact fee.

The existing and projected Land Use Assumptions for the dwelling units and the square footage of basic, service, and retail land uses provide the basis for the projected increase in vehicle-miles of travel. As noted earlier, a transportation demand factor is applied to these values and then summed to calculate the total peak hour vehicle-miles of demand for each service area.

The transportation demand factors are aggregate rates derived from two sources – the ITE Trip Generation Manual, 11th Edition and the Replica online platform. ITE's Trip Generation Manual, 11th Edition provides the number of trips that are produced or attracted to the land use for each dwelling unit, square foot of building, or other corresponding unit. For the retail category of land uses, the rate is adjusted to account for the fact that a percentage of retail trips are made by people who would otherwise be traveling past that particular establishment anyway, such as a trip between work and home. These trips are called *pass-by trips*, and since the travel demand is accounted for in the land use calculations relative to the primary trip, it is necessary to discount the retail rate to avoid double counting trips.



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The next component of the transportation demand factor accounts for the length of each trip. The average trip length for each category is based on the region-wide travel characteristics determined through the Replica online platform. This database serves as an activity-based travel demand model from which several travel parameters can be extracted based on a combination of existing data and projected traffic conditions. Trips tied to lodging, recreational, and industrial land uses were assumed by considering traffic both entering Bastrop County. Trips for all remaining land uses were assumed to be exclusively within the City and County limits.





The computation of the transportation demand factor is detailed in the following

$$TDF = T*(1-P_b)*L_{\max}$$
 where...  $L_{\max} = \min(L*OD \text{ or } \mathrm{SA_L})$ 

equation:

Variables:

TDF = Transportation Demand Factor

T = Trip Rate (peak hour trips / unit)

P<sub>b</sub> = Pass-By Discount (% of trips)

L<sub>max</sub> = Maximum Trip Length (miles)

L = Average Trip Length (miles)

OD = Origin-Destination Reduction (50%)

SA<sub>L</sub> = Max Service Area Trip Length (see **Table 8**)

For land uses which are characterized by longer average trip lengths (primarily residential uses), the maximum trip length has been limited to a length based on the nature of the roadway network within the service area, along with consideration of the existing City boundaries. Although Chapter 395 of the Texas Local Government Code allows for a service area diameter of six miles, the longest trip length along Bastrop's roadway network is approximately five miles. Therefore, the maximum trip length was assumed to be five miles.

The adjustment made to the average trip length statistic in the computation of the maximum trip length is the origin-destination reduction. This adjustment is made because the Transportation Impact Fee is charged to both the origin and destination end of the trip. For example, impact fee methodology will account for a trip from home to work within Bastrop to both residential and non-residential land uses. To avoid counting these trips as both residential and non-residential trips, a 50% origin-destination (OD)



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reduction factor is applied. Therefore, only half of the trip length is assessed to each land use. This methodology is consistent with that used in the National Household Travel Survey.

**Table 8** shows the derivation of the Transportation Demand Factor for the two residential land use and the three non-residential land use categories for each service area. The values utilized for all variables shown in the transportation demand factor equation are also shown in the table.

**Table 8. Transportation Demand Factor Calculations** 

Variable	Single-Family	Multifamily	Basic	Service	Retail
Т	0.94	0.39	0.65	1.44	3.40
P <sub>b</sub>	0%	0%	0%	0%	29%
L	7.81	7.81	13.20	7.04	5.83
L <sub>max</sub> *	3.91	3.91	6.00	3.52	2.92
TDF	3.68	1.52	3.90	5.07	7.04

The application of the demographic projections and the transportation demand factors are presented in the 10-Year Growth Projections in **Table 9**. This table shows the total growth in vehicle-miles by service area for the years 2023 and 2033. These estimates and projections lead to the Vehicle-Miles of Travel for both 2023 and 2033. The 10-year growth projections are amended to account for additional service miles of demand in the 2025 Update due to newly annexed land in the City.





### **Table 9. 10-Year Growth Projections**

### 2023 - 2033 Growth Projections<sup>1</sup>

SERVICE		RESIDEN	ITIAL VEHICLI	E-MILES		NON-RES	IDENTIAL SQUA	RE FEET <sup>5</sup>	TRANS	DEMAND F	ACTOR <sup>6</sup>	NON-RE	SIDENTIAL	VEHICLE	-MILES <sup>10</sup>	TOTAL
AREA	Single	Trip Rate	Multi Family	Trip Rate	VEHICLE	BASIC	SERVICE	RETAIL	BASIC <sup>7</sup>	SERVICE <sup>8</sup>	RETAIL <sup>9</sup>	BASIC	SERVICE	RETAIL	TOTAL	VEHICLE
	Family Units	TDF <sup>2</sup>	Units	TDF <sup>3</sup>	MILES <sup>4</sup>	5	SERVICE	KLIAL	DASIC	SERVICE	RETAIL	5	SERVICE	KETAIL	TOTAL	MILES <sup>11</sup>
		0.94		0.39					0.65	1.44	2.41					
Α	1,942	3.68	3,680	1.52	12,740	0	491,000	2,382,000	3.90	5.07	7.04	0	2,489	16,769	19,258	31,998
В	1,780	3.00	1,575	1.02	8,944	2,170,000	217,000	949,000	5.80	5.07	7.04	8,463	1,100	6,681	16,244	25,188
Totals	3,722		5,255		21,685	2,170,000	708,000	3,331,000				8,463	3,589	23,450	35,502	57,187

#### VEHICLE-MILES OF INCREASE (2023 - 2033)

SERVICE AREA	VEH-MILES
Α	31,998
В	25,188

#### Notes:

- <sup>1</sup> From Chapter 1: Land Use Assumptions
- <sup>2</sup> Transportation Demand Factor for each Service Area (from LUVMET) using Single-Family Detached Housing land use and trip generation rate
- <sup>3</sup> Transportation Demand Factor for each Service Area (from LUVMET) using Multifamily Housing (Mid-Rise) land use and trip generation rate

<sup>&</sup>lt;sup>4</sup> Calculated by multiplying TDF by the number of dwelling units

<sup>&</sup>lt;sup>5</sup> From Chapter 1: Land Use Assumptions

<sup>&</sup>lt;sup>6</sup> Trip generation rate and Transportation Demand Factors from LUVMET for each land use

<sup>&</sup>lt;sup>7</sup> 'Basic' corresponds to *General Light Industrial* land use and *trip generation rate* 

<sup>8 &#</sup>x27;Service' corresponds to General Office Building land use and trip generation rate

<sup>&</sup>lt;sup>9</sup> 'Retail' corresponds to Shopping Center (>150k) land use and trip generation rate

<sup>&</sup>lt;sup>10</sup> Calculated by multiplying Transportation Demand Factor by the number of thousand square feet for each land use

<sup>&</sup>lt;sup>11</sup> Residential plus non-residential vehicle-mile totals for each Service Area





### TRANSPORTATION IMPACT FEE CALCULATION

### A. MAXIMUM ASSESSABLE IMPACT FEE PER SERVICE UNIT

This section presents the maximum assessable impact fee rate calculated for each service area. The maximum assessable impact fee is the sum of the eligible Transportation Impact Fee CIP costs for the service area divided by the growth in travel attributable to new development projected to occur within the ten-year period. A majority of the components of this calculation have been described and presented in previous sections of this report. The purpose of this section is to document the computation for each service area and to demonstrate that the guidelines provided by Chapter 395 of the Texas Local Government Code have been addressed. **Table 10** illustrates the computation of the maximum assessable impact fee computed for each service area. Each row in the table is numbered to simplify explanation of the calculation. This table was updated along with the maximum assessable Transportation Impact Fee Computation as part of the 2025 Update. The updates were limited to changes in Line 8 and Line 20.

Table 10. Maximum Assessable Transportation Impact Fee Computation

Line	Title	Description
	Total Vehicle-Miles of	The total number of vehicle-miles added to the service area
1	Capacity Added by the	based on the capacity, length, and number of lanes in each
	Impact Fee CIP	project (from <b>Appendix A</b> – TIF CIP Units of Supply)

Each project identified in the CIP will add a certain amount of capacity to the City's roadway network based on its length and classification. This line displays the total amount added within each service area.

	Total Vehicle-Miles of	A measure of the amount of traffic currently using the roadway $% \left\{ 1\right\} =\left\{ $			
2	Existing Demand	facilities upon which capacity is being added. (from <b>Appendix A</b>			
	_	– TIF CIP Units of Supply)			





A number of facilities identified in the CIP have traffic currently utilizing a portion of their existing capacity. This line displays the total amount of capacity along these facilities currently being used by existing traffic.

	Total Vehicle-Miles of	Number of vehicle-miles of travel that are not accommodated
3	Existing Deficiencies	by the existing roadway system (from <b>Appendix B</b> – Existing Roadway Facilities Inventory)

A number of facilities identified in the CIP have traffic currently utilizing a portion of their existing capacity. This line displays the total amount of excess traffic over capacity on existing facilities to be deducted as recoverable from capacity expansions in the TIF CIP.

	Net Amount of Vehicle-	A measurement of the amount of vehicle-miles added by the RIF
4	Miles of Capacity	CIP that will not be utilized by existing demand (Line 1 – Line 2–
	Added	Line 3)

This calculation identifies the portion of the RIF CIP (in vehicle-miles) that may be recoverable through the collection of impact fees.

	Total Cost of the	The total cost of the Roadway projects within each service area
5	<u>Roadway</u> CIP within	(from <b>Tables 6-7</b> : 10-Year RIF CIP with Conceptual Level Cost
	the Service Area	Opinions)

This line simply identifies the total cost of all of the Roadway projects identified in each service area.

	6	Cost of Net Capacity Supplied	The total RIF CIP cost (Line 5) prorated by the ratio of Net
			Capacity Added (Line 4) to Total Capacity Added (Line 1). [(Line
			4 / Line 1) * (Line 5)]

Using the ratio of vehicle-miles added by the RIF CIP available to serve future growth to the total vehicle-miles added, the total cost of the RIF CIP is reduced to the amount available for future growth (i.e. excluding existing usage and deficiencies).

		The difference between the Total Cost of the Roadway Impact				
_	Cost to Meet Existing	Fee CIP (Line 5) and the Cost of the Net Capacity supplied (Line $$				
/	Needs and Usage	6)				
		(Line 5 – Line 6)				

This line is provided for information purposes only – it is to present the portion of the total cost of the RIF CIP that is required to meet existing demand.



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8	Total Vehicle-Miles of	Based upon the growth projection provided in the <i>Land Use</i>				
	New Demand over Ten	Assumptions, an estimate of the number of new vehicle-miles				
	Years	within the service area over the next ten years (from <b>Table 9</b> ).				

This line presents the amount of growth (in vehicle-miles) projected to occur within each service area over the next ten years.

		Percent of <u>Roadway</u>	The result of dividing Total Vehicle-Miles of New Demand ( <b>Line</b>
	9	Capacity Added	8) by the Net Amount of Capacity Added (Line 4), limited to
		Attributable to New	100%. This calculation is required by Chapter 395 to ensure
		Growth	capacity added is attributable to new growth. (Line 8 / Line 4)
	10	Chapter 395 Check	

In order to ensure that the vehicle-miles added by the Roadway CIP do not exceed the amount needed to accommodate growth beyond the ten-year window, a comparison of the two values is performed. If the amount of vehicle-miles added by the Roadway CIP exceeds the growth projected to occur in the next ten years, the Roadway CIP cost is reduced accordingly.

Ī		Cost of <u>Roadway</u> CIP	The result of multiplying the Cost of Net Capacity Added ( <b>Line 6</b> )					
	11	Attributable to New	attributable to New   by the Percent of Capacity Added Attributable to New Grow					
		Growth	limited to 100% ( <b>Line 10</b> ). ( <b>Line 6</b> * <b>Line 10</b> )					

This value is the total CIP Roadway project costs (excluding financial costs) that may be recovered through impact fees. This line is determined considering the limitations to impact fees required by the Texas legislature.

Total Cost of the The total cost of the Intersection projects within each									
	12	Intersection CIP within	area (from <b>Tables 6-7</b> : 10-Year Intersection CIP with						
		the Service Area	Conceptual Level Cost Opinions).						

This line simply identifies the total cost of all the intersection projects identified in each service area.

		Percent of <u>Intersection</u>	The result of dividing Total Vehicle-Miles of New Demand ( <b>from</b>
	13	Capacity Added	Table 9)         by the Total Vehicle-Miles of Existing and New Demand
	13	Attributable to New	in each service area. (see <i>Land Use Assumptions</i> )
		Growth	

In order to ensure that the capacity added by the Intersection CIP does not exceed the amount needed to accommodate growth beyond the ten-year window, the anticipated vehicle-mile growth in each service area is calculated as a percentage of the vehicle-miles.



	Cost of <u>Intersection</u> RIF	The result of multiplying the Cost of the Intersection RIF CIP							
14	CIP Attributable to New	(Line 12) by the Percent of Intersection Capacity Added							
	Growth	Attributable to New Growth (Line 13). (Line 12 * Line 13)							

This value is the total Intersection CIP project cost (excluding financial costs) that may be recovered through impact fees.

	Cost of Total RIF CIP Attributable to New Growth	The result of adding the Cost of the <u>Roadway</u> CIP Attributable to				
15		new growth (Line 11) to the Cost of the Intersection CIP				
13		Attributable to new growth ( <b>Line 14</b> ) less credits for previous				
	Olowali	contributions. (Line 11 + Line 14)				

This value is the Total RIF CIP project cost (including the study cost) that may be recovered through impact fees. This line is determined considering the limitations to impact fees required by the Texas legislature.





### B. Plan For Awarding the Transportation Impact Fee Credit

Chapter 395 of the Texas Local Government Code requires the Capital Improvements Plan for Transportation Impact Fees to contain specific enumeration of a plan for awarding the impact fee credit. Section 395.014 of the Code requires:

- (A) "a credit for the portion of ad valorem tax and utility service revenues generated by new service units during the program period that is used for the payment of improvements, including the payment of debt, that are included in the capital improvements plan; or
- (B) In the alternative, a credit equal to 50 percent of the total projected cost of implementing the capital improvements plan..."

The plan is summarized in **Appendix D** (Summary of Transportation Impact Fee Credit Determination) and **Appendix E** (Transportation Impact Fee Credit Determination Supporting Exhibits). These appendices are amended in the 2025 Update to account for additional Transportation Impact Fee Credits associated with added development. The following table summarizes the portions of **Table 11** that utilize this credit calculation.

Line	Title	Description					
16	Financing Costs	(from <b>Appendix D</b> – Summary of Transportation Impact Fee					
10	Tillanonig Costs	Credit Determination)					
17	Interest Earnings	(from <b>Appendix D</b> – Summary of Transportation Impact Fee					
'/	IIILETEST Laitiiligs	Credit Determination)					
	Cost of the Total						
	Transportation Impact	The sum of the Cost of Capacity Added Attributable to New					
18	Fee CIP and Financing	Growth, Financing Costs, less Interest Earnings.					
	Attributable to New	(Line 15 + Line 16 – Line 17)					
	Growth						
	Pre-Credit Maximum Fee Per Service Unit	Found by dividing the Cost of the CIP and Financing Attributable					
19		to New Growth ( <b>Line 18</b> ) by the Total Vehicle-Miles of New					
	ree rei Seivice Oliit	Demand Over Ten Years (Line 8). (Line 18 / Line 8)					
		A credit for the portion of ad valorem taxes projected to be					
20	Credit for Ad Valorem	generated by the new service units, as per Section 395.014 of the					
20	Taxes	Local Government Code. (from <b>Appendix E</b> – Transportation					
		Impact Fee Credit Determination Supporting Exhibits)					



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21	Recoverable Cost of the Transportation Impact Fee CIP and Financing	The difference between the Cost of the CIP and Financing Attributable to New Growth (Line 18) and the Credit for Ad Valorem Taxes (Line 20). (Line 18 - Line 20)
22	Maximum Assessable Fee Per Service Unit	Found by dividing the Recoverable Cost of the RIF CIP and Financing (Line 21) by the Total Vehicle-Miles of New Demand Over Ten Years (Line 5). (Line 21 / Line 5)



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Table 11. Maximum Assessable Impact Fee

	Table 11. Maximum Assessable		CAD				
	SERVICE AREA:	SA A	SA B				
1	TOTAL VEH-MI OF CAPACITY ADDED BY THE IMPACT FEE CIP (FROM CIP UNITS OF SUPPLY, <b>APPENDIX B</b> )	19,958	19,511				
2	TOTAL VEH-MI OF EXISTING DEMAND (FROM CIP UNITS OF SUPPLY, <b>APPENDIX B</b> )	2,124	5,189				
3	TOTAL VEH-MI OF EXISTING DEFICIENCIES (FROM EXISTING ROADWAY FACILITIES INVENTORY, <b>APPENDIX C</b> )	34	490				
4	NET AMOUNT OF VEH-MI OF CAPACITY ADDED (LINE 1 - LINE 2 - LINE 3)	1 1/ ×00					
5	TOTAL COST OF THE TRANSPORTATION IMPACT FEE CIP AND STUDY WITHIN THE SERVICE AREA (FROM TABLES 6-7)	\$49,294,580	\$45,610,980				
6	COST OF NET CAPACITY SUPPLIED (LINE 4 / LINE 1) * (LINE 5)	\$43,964,502	\$32,335,148				
7	COST TO MEET EXISTING NEEDS AND USAGE (LINE 5 - LINE 6)	\$5,330,078	\$13,275,832				
8	TOTAL VEH-MI OF NEW DEMAND OVER 10 YEARS (FROM TABLE 9 AND LAND USE ASSUMPTIONS)	31,998	25,188				
9	PERCENT OF CAPACITY ADDED ATTRIBUTABLE TO GROWTH (LINE 8 / LINE 4)	182.1%					
10	CHAPTER 395 CHECK (IF LINE 8 > LINE 4, REDUCE LINE 9 TO 100%, OTHERWISE NO CHANGE)	100.0%	100.0%				
11	COST OF CAPACITY ADDED ATTRIBUTABLE TO NEW GROWTH (LINE 6 * LINE 10)	\$32,335,148					
12	TOTAL COST OF THE INTERSECTION IMPACT FEE CIP WITHIN SERVICE AREA (FROM TABLES 6-7)	\$1,000,000					
13	PERCENT OF INTERSECTION CAPACITY ADDED ATTRIBUTABLE TO GROWTH (FROM TABLE 9 AND LAND USE ASSUMPTIONS)	94.7%					
14	COST OF INTERSECTION IMPACT FEE CIP ATTRIBUTABLE TO GROWTH (LINE 12 * LINE 13)	\$15,400,000	\$947,472				
15	COST OF TOTAL RECOVERABLE TRANSPORTATION IMPACT FEE CIP ATTRIBUTABLE TO GROWTH (LINE 11 + LINE 14)	\$59,364,502	\$33,282,620				
16	FINANCING COSTS (FROM SUMMARY OF TRANSPORTATION IMPACT FEE CREDIT DETERMINATION, APPENDIX D)	\$23,960,997	\$13,433,698				
17	INTEREST EARNINGS (FROM SUMMARY OF TRANSPORTATION IMPACT FEE CREDIT DETERMINATION, APPENDIX D)	\$10,391,403	\$5,825,510				
18	COST OF THE TOTAL TRANSPORTATION IMPACT FEE CIP AND FINANCING ATTRIBUTABLE TO GROWTH \$72,934,096 (LINE 15 + LINE 16 - LINE 17)		\$40,890,808				
19	PRE-CREDIT MAXIMUM FEE PER SERVICE UNIT (\$ PER VEH-MI) (LINE 18 / LINE 8)	\$2,279	\$1,623				
20	CREDIT FOR AD VALOREM TAXES (FROM TRANSPORTATION IMPACT FEE CREDIT DETERMINATION SUPPORTING EXHIBITS, APPENDIX E)	\$7,870,445	\$5,253,524				
21	RECOVERABLE COST OF THE TRANSPORTATION IMPACT FEE CIP AND FINANCING (LINE 18 - LINE 20)	\$65,063,651	\$35,637,284				
22	MAXIMUM ASSESSABLE FEE PER SERVICE UNIT (\$ PER VEH-MI) (LINE 21 / LINE 8)	\$2,033	\$1,414				





### C. Service Unit Demand Per Unit of Development

The Transportation Impact Fee is determined by multiplying the impact fee rate by the number of service units projected for the proposed development. For this purpose, the City utilizes the Land Use/Vehicle-Mile Equivalency Table (LUVMET), presented in **Table 12**. This table lists the predominant land uses that may occur within the City of Bastrop. For each land use, the development unit that defines the development's magnitude with respect to transportation demand is shown. Although every possible use cannot be anticipated, the majority of uses are found in this table. If the exact use is not listed, one similar in trip-making characteristics can serve as a reasonable proxy. The individual land uses are grouped into categories, such as residential, office, commercial, industrial, and institutional. The LUVMET is unchanged in the 2025 Update.

The trip rates presented for each land use are a fundamental component of the LUVMET. The trip rate is the average number of trips generated during the afternoon peak hour by each land use per development unit. The next column, if applicable to the land use, presents the number of trips to and from certain land uses reduced by pass-by trips, as previously discussed.

The source of the trip generation and pass-by statistics is ITE's Trip Generation Manual, 11th Edition, the latest edition of the definitive source for trip generation data. This manual utilizes trip generation studies for a variety of land uses throughout the United States, and is the standard used by traffic engineers and transportation planners for traffic impact analysis, site design, and transportation planning.

To convert vehicle trips to vehicle-miles, it is necessary to multiply trips by trip length. The adjusted trip length values are based on the region-wide travel characteristics determined by the Replica online travel demand model. The other adjustment to trip length is the 50% origin-destination reduction to avoid double counting of trips. At this stage, another important aspect of the state law is applied – the limit on transportation





service unit demand. If the adjusted trip length is above the maximum service area trip length, the maximum trip length used for calculation is reduced. This reduction, as discussed previously, limits the maximum trip length to the approximate size of the service areas.

The remaining column in the LUVMET shows the vehicle-miles per development unit. This number is the product of the trip rate and the maximum trip length. This number, previously referred to as the Transportation Demand Factor, is used in the impact fee estimate to compute the number of service units attributed to each land use category. The number of service units is multiplied by the impact fee rate (established by City ordinance) in order to determine the impact fee for a development.



## THE GOODMAN CORPORATION

Table 12. Land-Use Vehicle-Mile Equivalency Table (LUVMET)

Table	12. Lanu-03	e venicie-inii	<u>e Lqu</u>	Equivalency Table (LOVIMET							
Land Use Category	ITE Land Use Code	Development Unit	Trip Gen Rate (PM)	Pass-by Rate	Pass-by Source	Trip Rate	Trip Length (mi)	Adj. For O-D	Adj. Trip Mength (mi)	Max Trip Length (mi)	Veh-Mi Per Dev- Unit
										6.00	
PORT AND TERMINAL											
Truck Terminal	30	1,000 SF GFA	1.87	0%		1.87	13.20	50%	6.60	6.00	11.22
INDUSTRIAL											
General Light Industrial	110	1,000 SF GFA	0.65	0%		0.65	13.20	50%	6.60	6.00	3.90
Industrial Park	130	1,000 SF GFA	0.34	0%		0.34	13.20	50%	6.60	6.00	2.04
Warehousing	150	1,000 SF GFA	0.18	0%		0.18	13.20	50%	6.60	6.00	1.08
Mini-Warehouse	151	1,000 SF GFA	0.15	0%		0.15	13.20	50%	6.60	6.00	0.90
RESIDENTIAL											
Single-Family Detached Housing	210	Dwelling Unit(s)	0.94	0%		0.94	7.81	50%	3.91	3.91	3.68
Single-Family Attached Housing	215	Dwelling Unit(s)	0.57	0%		0.57	7.81	50%	3.91	3.91	2.23
Multifamily Housing (Low-Rise)	220	Dwelling Unit(s)	0.51	0%		0.51	7.81	50%	3.91	3.91	1.99
Multifamily Housing (Mid-Rise)	221	Dwelling Unit(s)	0.39	0%		0.39	7.81	50%	3.91	3.91	1.52
Multifamily Housing (High-Rise)	222	Dwelling Unit(s)	0.32	0%		0.32	7.81	50%	3.91	3.91	1.25
Senior Adult Housing-Detached	251	Dwelling Unit(s)	0.30	0%		0.30	7.81	50%	3.91	3.91	1.17
Senior Adult Housing-Attached	252	Dwelling Unit(s)	0.25	0%		0.25	7.81	50%	3.91	3.91	0.98
Assisted Living	254	Bed(s)	0.24	0%		0.24	7.81	50%	3.91	3.91	0.94
LODGING											
Hotel	310	Room(s)	0.59	0%		0.59	6.41	50%	3.20	3.20	1.89
Motel	320	Room(s)	0.36	0%		0.36	6.41	50%	3.20	3.20	1.15
RECREATIONAL											
Campground/RV Park	416	Occupied Campsites	0.27	0%		0.27	10.95	50%	5.47	5.47	1.48
Golf Driving Range	432	Driving Position(s)	1.25	0%		1.25	10.95	50%	5.47	5.47	6.84
Golf Course	430	Hole(s)	2.91	0%		2.91	10.95	50%	5.47	5.47	15.92
Recreational Community Center	495	1,000 SF GFA	2.50	0%		2.50	10.95	50%	5.47	5.47	13.68
Ice Skating Rink	465	1,000 SF GFA	1.33	0%		1.33	10.95	50%	5.47	5.47	7.28
Miniature Golf Course	431	Hole(s)	0.33	0%		0.33	10.95	50%	5.47	5.47	1.81
Multiplex Movie Theater	445	Screen(s)	13.96	0%		13.96	10.95	50%	5.47	5.47	76.36
Racquet/Tennis Club	491	Court(s)	3.82	0%		3.82	10.95	50%	5.47	5.47	20.90
INSTITUTIONAL											
Elementary School	520	Student(s)	0.16	0%		0.16	1.67	50%	0.83	0.83	0.13
Middle School/Junior High School	522	Student(s)	0.15	0%		0.15	1.67	50%	0.83	0.83	0.12
High School	525	Student(s)	0.14	0%		0.14	1.67	50%	0.83	0.83	0.12
Church	560	1,000 SF GFA	0.49	0%		0.49	1.51	50%	0.75	0.75	0.37
Day Care Center	565	1,000 SF GFA	11.12	44%	С	6.23	1.67	50%	0.83	0.83	5.17
University/College	550	Student(s)	0.15	0%		0.15	1.67	50%	0.83	0.83	0.12
MEDICAL		` '									
Clinic	630	1,000 SF GFA	3.69	0%		3.69	5.99	50%	3.00	3.00	11.07
Hospital	610	1,000 SF GFA	0.86	0%		0.86	5.99	50%	3.00	3.00	2.58
Nursing Home	620	Bed(s)	0.14	0%		0.14	5.99	50%	3.00	3.00	0.42
Animal Hospital/Veterinary Clinic	640	1,000 SF GFA	3.53	30%	В	2,47	5.99	50%	3.00	3.00	7.41



# THE GOODMAN CORPORATION

### Table 12. Land-Use Vehicle-Mile Equivalency Table (LUVMET) (Continued)

Land Use Category	ITE Land Use Code	Development Unit	Trip Gen Rate (PM)	Pass-by Rate	Pass-by Source	Trip Rate	Trip Length (mi)	Adj. For O-D	Adj. Trip Mength (mi)	Max Trip Length (mi)	Veh-Mi Per Dev- Unit
OFFICE											
Corporate Headquarters Building	714	1,000 SF GFA	1.30	0%		1.30	7.04	50%	3.52	3.52	4.58
General Office Building	710	1,000 SF GFA	1.44	0%		1.44	7.04	50%	3.52	3.52	5.07
Medical-Dental Office Building	720	1,000 SF GFA	3.93	0%		3.93	7.04	50%	3.52	3.52	13.83
Single Tenant Office Building	715	1,000 SF GFA	1.76	0%		1.76	7.04	50%	3.52	3.52	6.20
Office Park	750	1,000 SF GFA	1.30	0%		1.30	7.04	50%	3.52	3.52	4.58
COMMERCIAL											
Automobile Related											
Automobile Care Center	942	1,000 SF GFA	3.11	40%	В	1.87	5.83	50%	2.92	2.92	5.46
Automobile Parts Sales	843	1,000 SF GFA	4.90	43%	A	2.79	5.83	50%	2.92	2.92	8.15
Gasoline/Service Station	944	Fueling Position(s)	13.91	57%	С	5.98	1.51	50%	0.75	0.75	4.49
Gasoline Station w/ Convenience Market	945	Fueling Position(s)	18.42	56%	В	8.10	1.51	50%	0.75	0.75	6.08
Automobile Sales (New)	840	1,000 SF GFA	2.42	20%	В	1.94	5.83	50%	2.92	2.92	5.66
Quick Lubrication Vehicle Shop	941	Servicing Position(s)	4.85	40%	В	2.91	5.83	50%	2.92	2.92	8.50
Automated Car Wash	948	Car Wash Tunnel(s)	77.50	40%	В	46.50	1.51	50%	0.76	0.76	35.34
Tire Store	848	1,000 SF GFA	2.09	25%	C	1.57	5.83	50%	2.92	2.92	4.58
Dining											
Fast-Food Restaurant w/ D.T.	934	1,000 SF GFA	33.03	50%	A	16.52	1.55	50%	0.78	0.78	12.89
Fast-Food Restaurant w/o D.T.	933	1,000 SF GFA	33.21	50%	В	16.61	1.55	50%	0.78	0.78	12.96
High-Turnover (Sit-Down) Restaurant	932	1,000 SF GFA	9.05	43%	A	5.16	1.55	50%	0.78	0.78	4.02
Quality Restaurant	931	1,000 SF GFA	7.80	44%	A	4.37	1.55	50%	0.78	0.78	3.41
Coffee/Donut Shop w/ D.T.	937	1,000 SF GFA	38.99	70%	A	11.70	1.55	50%	0.78	0.78	9.13
Other Retail											
Free Standing Discount Store	813	1,000 SF GFA	4.83	20%	С	3.86	5.83	50%	2.92	2.92	11.27
Nursery (Garden Center)	817	1,000 SF GFA	6.94	30%	В	4.86	5.83	50%	2.92	2.92	14.19
Home Improvement Superstore	862	1,000 SF GFA	2.29	42%	A	1.33	5.83	50%	2.92	2.92	3.88
Pharmacy/Drugstore w/o Drive-Through Window	880	1,000 SF GFA	8.51	53%	A	4.00	5.83	50%	2.92	2.92	11.68
Pharmacy/Drugstore w/ Drive-Through Window	881	1,000 SF GFA	10.25	49%	A	5.23	5.83	50%	2.92	2.92	15.27
Shopping Center (>150k SF)	820	1,000 SF GFA	3.40	29%	С	2.41	5.83	50%	2.92	2.92	7.04
Shopping Plaza (40-150k)	821	1,000 SF GFA	5.19	40%	С	3.11	5.83	50%	2.92	2.92	9.08
Strip Retail Plaza (<40k SF)	822	1,000 SF GFA	6.59	40%	В	3.95	5.83	50%	2.92	2.92	11.53
Supermarket	850	1,000 SF GFA	8.95	24%	С	6.80	5.83	50%	2.92	2.92	19.86
Toy/Children's Superstore	864	1,000 SF GFA	5.00	30%	В	3.50	5.83	50%	2.92	2.92	10.22
Department Store	875	1,000 SF GFA	1.95	30%	В	1.37	5.83	50%	2.92	2.92	4.00
SERVICES											
Walk-In Bank	911	1,000 SF GFA	12.13	40%	В	7.28	6.11	50%	3.05	3.05	22.20
Drive-In Bank	912	Drive-In Lane(s)	21.01	35%	A	13.66	6.11	50%	3.05	3.05	41.66
Hair Salon	918	1,000 SF GLA	1.45	30%	В	1.02	6.11	50%	3.05	3.05	3.11

Key to Sources of Pass-by Rates:

A: ITE Trip Generation Handbook 3rd Edition (September 2017)

B: Estimated by Kimley-Horn based on ITE rates for similar categories

C: 2021 Pass-By Tables for ITETripGen Appendices





## 6. SAMPLE CALCULATIONS

The following section details two examples of maximum assessable Transportation Impact Fee calculations.

# Example 1: Development Type - One Unit of Single-Family Housing in Service Area B

	Transportation Impact Fee Calculation Steps – Example 1
	Determine Development Unit and Vehicle-Miles Per Development Unit
Step	From Table 12 [Land Use – Vehicle-Mile Equivalency Table]
3.ep	Development Type: 1 Dwelling Unit of Single-Family Detached Housing
•	Number of Development Units: 1 Dwelling Unit
	Veh-Mi Per Development Unit: 3.68
Step	Determine Maximum Assessable Impact Fee Per Service Unit
2	From Table 11, Line 22 [Maximum Assessable Fee Per Service Unit]
	Service Area B: \$1,414
	Determine Maximum Assessable Impact Fee
Step	Impact Fee = # of Development Units * Veh-Mi Per Dev Unit * Max. Fee Per Service Unit
3	Impact Fee = 1 * 3.68 * \$1,414
	Maximum Assessable Impact Fee = \$5,203.52

## Example 2: Development Type – 125,000 SF Home Improvement Superstore in Service Area B

	Transportation Impact Fee Calculation Steps – Example 2
	Determine Development Unit and Vehicle-Miles Per Development Unit
Ston	From Table 12 [Land Use – Vehicle-Mile Equivalency Table]
Step	Development Type: 125,000 square feet of Home Improvement Superstore
1	Development Unit: 1,000 square feet of Gross Floor Area
	Veh-Mi Per Development Unit: 3.88
Step	Determine Maximum Assessable Impact Fee Per Service Unit
2	From Table 11, Line 22 [Maximum Assessable Fee Per Service Unit]
	Service Area B: \$1,414
	Determine Maximum Assessable Impact Fee
Step	Impact Fee = # of Development Units * Veh-Mi Per Dev Unit * Max. Fee Per Service Unit
3	Impact Fee = 125 * 3.88 * \$1,414
	Maximum Assessable Impact Fee = \$685,790.00





### 7. CONCLUSION

The City of Bastrop has established a process to implement the assessment and collection of Transportation Impact Fees through the adoption of an impact fee ordinance that is consistent with Chapter 395 of the Texas Local Government Code.

This report establishes the maximum allowable Transportation Impact Fee that could be assessed by the City of Bastrop within each service area. The maximum assessable Transportation Impact Fees calculated in this report are as shown below:

Service Area	А	В
2025 Maximum Assessable Fee Per Service Unit (\$/Veh- mi)	<mark>\$2,033</mark>	\$1,414

This document serves as a guide to the assessment of Transportation Impact Fees pertaining to future development and the City's need for roadway improvements to accommodate that growth. Following the public hearing process, the City Council may establish an amount to be assessed (if any) up to the maximum established within this report and update the Transportation Impact Fee Ordinance accordingly.

In conclusion, it is our opinion that the data and methodology used in this update are appropriate and consistent with Chapter 395 of the Texas Local Government Code. Furthermore, the Land Use Assumptions and the proposed Capital Improvement Plan are appropriately incorporated into the process.





### 8. APPENDICES

- A. CIP SERVICE UNITS OF SUPPLY
- **B.** EXISTING ROADWAY FACILITIES INVENTORY
- C. CONCEPTUAL LEVEL PROJECT COST PROJECTIONS
- D. SUMMARY OF TRANSPORTATION IMPACT FEE CREDIT DETERMINATION
- E. Transportation Impact Fee Credit Determination Supporting Exhibits





## A. CIP SERVICE UNITS OF SUPPLY

# City of Bastrop - 2023 Transportation Impact Fee Study CIP Service Units of Supply

Service Area A

Project ID #	ROADWAY	LIMITS	LENGTH (MI)	LANES	IMPACT FEE CLASSIFICATION	PEAK HOUR VOLUME	% IN SERVICE AREA	VEH-MI CAPACITY PK-HR PER LN	VEH-MI SUPPLY PK-HR TOTAL	VEH-MI TOTAL DEMAND PK-HR	EXCESS CAPACITY PK-HR VEH-MI	TOTAL PROJECT COST
A-1	Agnes (1)	Bear Hunter Drive to Hunter's Crossing	0.46	4	4D (80)	0	100%	725	1321	0	1,321	\$ 4.370,000
A-2	Agnes (2)	Hospital Drive to Schaefer Blvd	0.35	4	4D (80)	0	100%	725	1005	0	1005	\$ 3,325,000
A-3	Bear Hunter Drive (1)	Bear Hunter Drive (existing) to 1,000' N of Shiloh Rd	0.42	4	4D_(80)	0	100%	725	1230	0	1230	\$ 4,069,000
A-4	Blakey Ln (1)	Edward Burleson Ln to 1,830' E of Edward Burleson Ln	0.35	2	2U_(50)	0	100%	425	295	0	295	\$ 1,423,000
A-5	Blakey Ln (2)	City Limits to Old Austin Highway	0.43	2	2U_(50)	0	100%	425	368	0	368	\$ 1,773,000
A-6	Greenleaf Fisk Dr	Bass Drive to Schaefer Blvd	0.57	3	3U_(56)	0	100%	525	890	0	890	\$ 2,664,000
A-7	Hasler Blvd (1)	Old Austin Hwy to Colorado River	0.26	4	4D_(80)	0	100%	725	761	0	761	\$ 2,518,000
A-8	Marie St	Schaefer Blvd to Hasler Blvd	0.25	2	2U_(50)	0	100%	425	214	0	214	\$ 1,032,000
A-9	Orchard Pkwy	SH 71 to Hunters Point Drive	0.42	3	3U_(56)	0	100%	525	661	0	661	\$ 1,976,000
A-10	Agnes (3)	Schaefer Blvd to Childers Drive	0.60	4	4D_(80)	378	100%	725	1744	227	1,517	\$ 5,959,000
A-11	Edward Burleson	Blakey to SH 21 EBFR	0.32	4	4D_(80)	774	100%	725	931	248	683	\$ 2,862,000
A-12	FM 969 (1)	City Limits to Blakey Ln	0.46	5	4D_(110)	1,035	100%	900	2050	471	1,579	\$ 768,800
A-13	FM 969 (2)	Blakey Ln to State Highway 21	0.28	5	4D_(110)	683	100%	900	1278	194	1,084	\$ 479,600
A-14	Hasler Blvd (2)	Old Austin Hwy to SH 21	0.25	4	4D_(80)	914	100%	725	736	232	504	\$ 2,516,000
A-15	Home Depot Way	Hunter's Crossing to SH 304	0.34	4	4D_(80)	17	100%	725	991	6	985	\$ 3,388,000
A-16	Agnes (4)	SH 304 to Hospital Drive	0.41	4	4D_(80)	17	100%	725	1175	7	1,168	\$ 3,614,000
A-17	Bear Hunter Drive (2)	State Highway 21 to Bear Hunter Drive (existing)	0.63	4	4D_(80)	63	100%	725	1815	39	1,776	\$ 5,582,000
A-18	SH 304	SH 21 EBFR to Hunters Point Dr	0.55	5	4D_(110)	1,264	100%	900	2493	700	1,793	\$ 935,200.00
SUBTOTAL									19,958	2,124	17,834	\$ 49,254,600
I-1	Highway 71 & FM 20	Traffic Signal					100%	-	·	-	-	\$ 500,000
I-2	FM 969 / Bear Hunter & SH 21	Overpass					100%	-	-	-	-	\$ 10,000,000
I-3	Edward Burleson Ln / SH 304 & SH 21	Intersection Improvements					100%	-	1	-	-	\$ 300,000
I-4	Hasler Blvd & SH 21	Intersection Improvements	INTERSECTION IMPROVEMENTS				100%	-	-	-	-	\$ 300,000
I-5	Loop 150 / Childers Dr & SH 21	Intersection Improvements					100%	-	-	-	-	\$ 300,000
I-6	Agnes & Hasler	Roundabout					100%	-	-	-	-	\$ 2,000,000
I-7	Old Austin & Loop 150	Roundabout					100%	-	-	-	-	\$ 2,000,000
SUBTOTAL	-	_						•	•			\$ 15,400,000

2023 Roadway Impact Fee Study Cost Per Service Area \$ 39,980
TOTAL COST IN SERVICE AREA A \$ 64,694,580

### City of Bastrop - 2023 Transportation Impact Fee Study CIP Service Units of Supply

Service Area B 6/20/2023

	Aicab											•
Project ID #	ROADWAY	LIMITS	LENGTH (MI)	LANES	IMPACT FEE CLASSIFICATION	PEAK HOUR VOLUME	% IN SERVICE AREA	VEH-MI CAPACITY PK-HR PER LN	VEH-MI SUPPLY PK-HR TOTAL	VEH-MI TOTAL DEMAND PK-HR	EXCESS CAPACITY PK-HR VEH-MI	TOTAL PROJECT COST
B-1	Carter St	Mesquite St to Magnolia St	0.17	2	2U_(50)	0	100%	425	146	0	146	\$ 707,000
B-2	Chambers St	Cedar St to Farm St	0.29	2	2U_(50)	0	100%	425	243	0	243	\$ 1,172,000
B-3	Future Collector A	Pitt St to Future Collector B	0.22	2	2U_(50)	0	100%	425	185	0	185	\$ 893,000
B-4	Future Collector B	Lost Pines Ave to SH 71	0.19	2	2U_(50)	0	100%	425	159	0	159	\$ 764,000
B-5	Future Collector C	Technology Drive extension to City Limits	0.17	2	2U_(50)	0	100%	425	144	0	144	\$ 695,000
B-6	Future Collector D	Jackson St extension to 420' E of Jackson St extension	0.08	2	2U_(50)	0	100%	425	68	0	68	\$ 326,000
B-7	Hasler Blvd (3)	Colorado River to Willow St	0.29	4	4D_(80)	0	100%	725	851	0	851	\$ 2,817,000
B-8	Jackson St (1)	Jackson St (existing) to 1,260' S of Jackson St	0.24	4	4D_(80)	0	100%	725	695	0	695	\$ 2,299,000
B-9	Jasper St (1)	Jackson St to 930' E of Jackson St	0.18	2	2U_(50)	0	100%	425	150	0	150	\$ 722,000
B-10	Jasper St (2)	930' E of Jackson St to Hidden Hollow Ct	0.51	2	2U_(50)	0	100%	425	433	0	433	\$ 2,087,000
B-11	Majestic Pine Dr	Majestic Pine Dr (existing) to Mauna Loa Ln	0.10	2	2U_(50)	0	100%	425	84	0	84	\$ 404,000
B-12	Mauna Loa Ln (1)	Pine Lodge Dr to Briar Forest Dr	0.95	2	2U_(50)	0	100%	425	807	0	807	\$ 3,890,000
B-13	Mesquite St (1)	800' W of Wilson St to Wilson St	0.15	3	3U_(56)	0	100%	525	234	0	234	\$ 701,000
B-14	Mesquite St (2)	SH 95 to Piney Ridge Dr	0.41	3	3U_(56)	0	100%	525	653	0	653	\$ 1,954,000
B-15	Pitt St	SH 71 to Jasper St	0.10	2	2U_(50)	0	100%	425	83	0	83	\$ 401,000
B-16	South Street (1)	Lovers Lane to South St (existing)	0.33	3	3U_(56)	0	100%	525	519	0	519	\$ 1,553,000
B-17	South Street (2)	1,200' E of Jackson St to Mauna Loa Ln	0.21	3	3U_(56)	0	100%	525	333	0	333	\$ 996,000
B-18	Technology Drive (1)	Mill St to Business Park Dr	0.14	2	2U_(50)	0	100%	425	122	0	122	\$ 586,000
B-19	Technology Drive (2)	Technology Drive (existing) to City Limits	0.46	2	2U_(50)	0	100%	425	391	0	391	\$ 1,885,000
B-20	Walnut Street	Martin Luther King Dr to SH 21	0.22	2	2U_(50)	0	100%	425	188	0	188	\$ 907,000
B-21	Jackson St (2)	SH 21 to South St	0.25	4	4D_(80)	530	100%	725	717	131	586	\$ 500,000
B-22	Lovers Ln	City Limits to College St	0.29	3	3U_(56)	543	100%	525	455	157	298	\$ 10,000,000
B-23	Mauna Loa Ln (2)	Briar Forest Dr to Tahitian Dr	0.23	2	2U_(50)	20	100%	425	192	5	187	\$ 300,000
B-24	Mesquite St (3)	Wilson St to SH 95	0.52	3	3U_(56)	116	100%	525	825	61	764	\$ 300,000
B-25	SH 95 (1)	Mesquite St to 700' S of Mesquite St	0.13	5	4D_(110)	2,096	100%	900	592	276	316	\$ 300,000
B-26	SH 95 (2)	700' S of Mesquite St to Hawthorne St	0.51	5	4D_(110)	2,096	100%	900	2301	1,072	1,229	\$ 2,000,000
B-27	SH 95 (3)	Hawthorne St to Cedar St	0.30	5	4D_(110)	2,096	100%	900	1330	619	711	\$ 2,000,000
B-28	SH 95 (4)	Cedar St to Spring St	0.36	5	4D_(110)	2,096	100%	900	1607	748	859	\$ 754,000
B-29	SH 95 (5)	Farm St to Chestnut St/SH 21	0.16	5	4D_(110)	2,096	100%	900	741	345	396	\$ 348,000
B-30	South Street (3)	650' W of Jackson St to 1,200' E of Jackson St	0.32	3	3U_(56)	44	100%	525	500	14	486	\$ 1,544,000
B-31	SH 21 (1)	Chestnut St to Walnut St	0.30	5	4D_(110)	2,196	100%	900	1347	657	690	\$ 632,000
B-32	SH 21 (2)	Walnut St to SH 21 WBFR	0.43	5	4D_(110)	2,200	100%	900	1922	940	982	\$ 902,000
B-33	SH 95 (6)	SH 21 WBFR to SH 21 EBFR	0.11	5	4D_(110)	1,490	100%	900	494	164	330	\$ 232,000
SUBTOTAL					•		-		19,511	5,189	14,322	\$ 45,571,000
I-8	Mesquite St & SH 95	Traffic Signal		NITERSE	CTION IMPROVEME	NTS	100%	-	-	-	-	\$ 500,000
I-9	SH 95 & Cedar St	Traffic Signal	"	MILKOL	O HON IIVIF NO VEIVIE	1113	100%		-	-	-	\$ 500,000
SUBTOTAL	-				•	•	•	•				\$ 1,000,000

2023 Roadway Impact Fee Study Cost Per Service Area \$

39,980

TOTAL COST IN SERVICE AREA B \$ 46,610,980





## **B.** EXISTING ROADWAY FACILITIES INVENTORY



#### City of Bastrop - 2023 Transportation Impact Fee Study Existing Roadway Facilities Inventory

### Service Area A

Service Area A																				6/20/2023
				1						PM	% IN	VE	H-MI	VF	H-MI	II VEH-MI		EXCESS		EXISTING
ROADWAY	FROM	то	LENGTH	LENGTH	E	(IST	EXIST	TXDOT	P	EAK	SERVICE			SUI	PPLY	DEI	MAND		ACITY	DEFICIENCIES
		· ·	(ft)	(mi)		NES	LANES	(Y/N)		DUR	AREA	PK			-HR		(-HR		-HR	PK-HR
			(,	(,				()		OL		PEF			TAL		TAL		H-MI	VEH-MI
					NR/FR	SB/WB	-			SB/WB	7	NB/EB	SB/WB	NR/FR	SB/WB	NR/FR	SB/WB	NR/FR	SB/WB	NB/EB SB/WB
Agnes	SH 304	Hospital Drive	2140	0.41	1	1	2U		6	11	100%	425	425	172	172	2	4	170	168	HO/ED COME
Agnes	Schaefer Blvd	Childers Drive	3177	0.60	1	1	2U		179	199	100%	425	425	256	256	108	120	148	136	
Bear Hunter Drive	State Highway 21	Bear Hunter Drive (existing)	3305	0.63	1	1	2U		25	38	100%	425	425	266	266	16	24	250	242	
Blakey Ln	FM 969	Duff Dr	2764	0.52	1	1	3U	N	268	146	100%	525	525	275	275	140	76	135	198	
Blakey Ln	Duff Dr	Edward Burleson Ln	1915	0.36	1	1	3U	v	268	146	100%	630	630	229	229	97	53	131	176	
Childers Dr	Hasier Blvd	Trailside Ln	2661	0.50	1	1	2U		179	199	100%	425	425	214	214	90	100	124	114	
Childers Dr	Schaefer Blvd	Hasinr Blvd	2661	0.50	1	1	2U		179	199	100%	425	425	214	214	90	100	124	114	
Duff Drive	Blakey	SH 71	1485	0.28	1	1	3U		36	36	100%	525	525	148	148	10	10	138	138	
Edward Burleson	Blakey	SH 21 EBFR	1696	0.32	1	1	3U		229	545	100%	630	630	202	202	74	175	129	27	
FM 20	SH 21 EBFR	City Limits	1772	0.34	1	1	3U	v	386	557	100%	900	900	302	302	130	187	173	115	
FM 20	City Limits	Solomon Ln	4178	0.79	1	1	3U	v	212	211	50%	900	900	356	356	84	83	272	273	
FM 969	Blakey Ln	State Highway 21	1501	0.78	1	1	2U	v	305	378	100%	900	900	256	256	87	107	169	148	
FM 969	City Limits	Blakey Ln	2406	0.46	1	1	2U	v	387	648	100%	900	900	410	410	176	295	234	115	
Hasler Blvd	State Highway 21 W Frontage Rd	Walhart Drive	1187	0.40	-		2U	V	14	13	100%	510	510	115	115	3	250	111	112	
Hasler Blvd	Old Austin Hwy	SH 21	1342	0.25	1	-	3U	v	467	447	100%	630	630	160	160	119	114	41	47	-
		SH 21	1804	0.25	1		2U		407	11	100%	425	425	145	145	119	4	143	141	
Home Depot Way Hunter's Crossing	Hunter's Crossing SH 71	Hunter's Point	2573	0.49	1		3U		156	156	100%	525	525	256	256	76	76	180	180	
Hunters Point Dr			3943	0.49	1		2U	v	122	64				381	381	91	48		333	
	Bear Hunter Dr SH 21	State Highway 304	3943		1	1		Y V			100%	510	510					290 100	115	
Loop 150		Old Austin Hwy		0.22	-		3U 3U	- 1	446	376 835	100%	900	900	198	198 269	98 277	83 250	100	19	_
Loop 150	Old Austin Hwy	Colorado River	1580	0.30	1	1 1	2U	Y	926 217	835 326	100%	900 510	900 510	269 228	269	97	250 146	-8 131	19 82	8
Lovers Ln	Point approx. 700 ft north of intersection with Margies Way	Point along Lovers Ln where the road turn sharply right	2359	0.45		1		Y			100%									28 6
Old Austin Highway	Point approx 200 ft west of eastern entrance to Silver Pines Nursing and Rehabilitation Center	Texas Loop 150	2318	0.44	1	1	3U	Y V	694	643	100%	630	630	277	277	305	282	-28	-6	28 6
Old Austin Highway	Point approx 75 ft west of entrance to Brite & Shiny Car Wash Bastrop	Point approx 200 ft west of eastern entrance to Silver Pines Nursing and Rehabilitation Center	3037	0.58	2	2	4U	Y	171	324	100%	660	660	759	759	98	186	661	573	
Orchard Pkwy	SH 71	Hunters Point Drive	476	0.09		1	2U		27	43	100%	425	425	38	38	2	4	36	34	
Schaefer Blvd	Agnes	Childers Dr	1940	0.37	1	1	2U		179	199	100%	425	425	156	156	66	73	90	83	
SH 21/71	1,200' E of Colorado River	Colorado River	1202	0.23	2	2	4U	Y	941	1026	100%	900	900	410	410	214	234	196	176	
SH 21/71	Hasler Blvd	Point approx. 400ft west of bridge where divided lanes merge into undivided	444	0.08	2	2	4D	Y	941	1026	100%	900	900	151	151	79	86	72	65	
SH 304	SH 21 EBFR	Hunters Point Dr	2923	0.55	2	2	4U	Y	473	791	100%	900	900	996	996	262	438	735	559	
SH 304	Hunters Point Dr	City Limits	422	0.08	1	1	3U	Y	329	489	100%	900	900	72	72	26	39	46	33	
SH 71 EBFR	Hasler Blvd	Point approx. 400ft west of bridge where divided lanes merge into undivided	3516	0.67	2	2	4D	Y	792	0	100%	900	900	1,199	1,199	527	0	671	1,199	
SH 71 EBFR	Edward Burleson Ln	Hasler Blvd	5188	0.98	2	2	4D	Y	1054	0	100%	900	900	1,769	1,769	1,036	0	733	1,769	
SH 71 EBFR	Approx. Bastrop City Limit	Navarro Blvd	2189	0.41	2	2	4D	Y	222	0	100%	900	900	746	746	92	0	654	746	
SH 71 EBFR	Navarro Blvd	Point approx, at the beginning of the northern Frontage Rd & and the western driveway to Texas Tractor Country	6585	1.25	2	2	4D	Y	222	0	100%	900	900	2,245	2,245	277	0	1,968	2,245	
SH 71 EBFR	Point approx. at the beginning of the northern Frontage Rd & and the western driveway to Texas Tractor Country	FM 20	3135	0.59	2	2	4D	Y	222	0	100%	900	900	1,069	1,069	132	0	937	1,069	
SH 71 EBFR	FM 20	Edward Burleson Ln	7220	1.37	2	2	4D	Y	448	0	100%	900	900	2,461	2,461	613	0	1,849	2,461	
SH 71 WBFR	Edward Burleson Ln	Hasler Blvd	5219	0.99	2	2	4D	Y	0	2165	100%	900	900	1,779	1,779	0	2,140	1,779	-361	361
SH 71 WBFR	Hasier Blvd	Point approx. 400ft west of bridge where divided lanes merge into undivided	3427	0.65	2	2	4D	Y	0	957	100%	900	900	1,168	1,168	0	621	1,168	547	
SH 71 WBFR	Approx. Bastrop City Limit	Navarro Blvd	2176	0.41	2	2	4D	Y	0	139	100%	900	900	742	742	0	57	742	685	
SH 71 WBFR	Navarro Blvd	Point approx, at the beginning of the northern Frontage Rd & and the western driveway to Texas Tractor Country	6587	1.25	2	2	4D	Y	0	139	100%	900	900	2,246	2,246	0	173	2,246	2,072	
SH 71 WBFR	Point approx. at the beginning of the northern Frontage Rd & and the western driveway to Texas Tractor Country	FM 20	3134	0.59	2	2	4D	Y	0	139	100%	900	900	1,069	1,069	0	83	1,069	986	
SH 71 WBFR	FM 20	Edward Burleson Ln	7219	1.37	2	2	4D	Y	0	539	100%	900	900	2,461	2,461	0	737	2,461	1,724	
Woodlands Dr	North entrance of Lost Pines RV Park	State Highway 71 Frontage Road	444	0.08	1	1	2U		25	25	100%	425	425	36	36	2	2	34	34	
SUBTOTAL			80.985	15.34										14,939	14.939	4.984	3,401	9,955	11.538	28 6

Appendix B
City of Bastrop, Texas

Existing Roadway Facilities Inventory



## City of Bastrop - 2023 Transportation Impact Fee Study Existing Roadway Facilities Inventory

Service Area B																					6/20/202
									F	M	%IN	VEI	I-MI	VEI	I-MI	VE	H-MI	EX	CESS	EXIS	STING
ROADWAY	FROM	то	LENGTH	LENGTH	EX	UST	EXIST	TxDOT	PE	AK	SERVICE	CAPA	CITY	SUF	PLY	DE	MAND	CAF	PACITY	DEFICI	IENCIES
			(ft)	(mi)	LA	NES	LANES	(Y/N)	н	OUR	AREA	PK	-HR	PK	-HR	PF	(-HR	Pr	K-HR	PK-	C-HR
			1					, ,	V	OL		PER	RLN	TO	TAL	TC	TAL	VE	EH-MI	VEH	H-MI
					NB/EB	SB/WB			NB/EB	SB/WB		NB/EB	SB/WB	NB/EB	SB/WB	NB/EB	SB/WB	NB/EB	SB/WB	NB/EB	SB/WB
Jackson St	SH 21	South St	1307	0.25	1	1	3U		370	160	100%	525	525	130	130	92	40	38	90		
Loop 150	Main St	Water St	396	0.07	1	1	3U		610	460	100%	525	525	39	39	46	34	-6	5	6	
Loop 150	Water St	Pecan St	388	0.07	1	1	3U		610	460	100%	525	525	39	39	45	34	-6	5	6	
Loop 150	Pecan St	Jefferson St	392	0.07	1	1	3U	N	610	460	100%	525	525	39	39	45	34	-6	5	6	
Loop 150	Jefferson St	Hill St	396	0.08	1	1	3U	Y	610	460	100%	900	900	68	68	46	35	22	33		
Loop 150	Hill St	Haysel St	383	0.07	1	1	3U		610	460	100%	525	525	38	38	44	33	-6	5	6	
Loop 150	Haysel St	Fayette St	411	0.08	1	1	3U		610	460	100%	525	525	41	41	48	36	-7	5	7	
Loop 150	Fayette St	Point Approx. 170ft from driveway to Stem & Stone Craft Beer, Wine & Eats	1139	0.22	1	1	3U		610	460	100%	525	525	113	113	132	99	-18	14	18	
Loop 150	Point Approx. 170ft from driveway to Stem & Stone Craft Beer, Wine & Eats	SH 95	464	0.09	2	2	4U	Y	610	460	100%	900	900	158	158	54	40	105	118	I	
Loop 150	Point approx. at the northeastern driveway to Circle K	Northern frontage road of SH 71/95	515	0.10	2	2	4U	Y	523	423	100%	900	900	175	175	51	41	124	134		
Loop 150	SH 21	SH 71	4042	0.77	1	1	2U	Y	523	423	100%	900	900	689	689	400	324	289	365		
Loop 150	SH 21	Loop 150	723	0.14	1	0	1U	Y	238	0	100%	900	900	123	123	33	0	91	123		
Loop 150	Colorado River	Main St	960	0.18	1	1	3U	Y	610	460	100%	900	900	164	164	111	84	53	80		
Lovers Ln	City Limits	College St	1525	0.29	1	1	2U	Y	217	326	100%	510	510	147	147	63	94	85	53		
Mauna Loa Ln	Briar Forest Dr	Tahitian Dr	1193	0.23	1	1	2U-R	Y	10	10	100%	420	420	95	95	2	2	93	93		
Mesquite St	Wilson St	SH 95	2767	0.52	1	1	2U		36	80	100%	425	425	223	223	19	42	204	181		
N Main St	City Limits	Mesquite Rd	898	0.17	1	1	2U		37	37	100%	425	425	72	72	6	6	66	66		
SH 21	1,500' E of Loop 150	City Limits	5389	1.02	2	2	4D	Y	896	878	100%	900	900	1,837	1,837	914	896	923	941		
SH 21	Walnut St	SH 21 WBFR	2254	0.43	2	2	5U	Y	1250	950	100%	900	900	768	768	534	405	235	363		
SH 21	Chestnut St	Walnut St	1578	0.30	2	2	5U	Y	1190	1006	100%	900	900	538	538	356	301	182	237		
SH 21	Loop 150	1,500' E of Loop 150	1882	0.36	2	2	5U	Y	896	878	100%	900	900	641	641	319	313	322	329		
SH 21/71	Colorado River	Water St	300	0.06	2	2	4U	Y	941	1026	100%	900	900	102	102	54	58	49	44	I	
SH 21/71	End of bridge (where undivided lanes become divided)	SH 21	767	0.15	2	2	4D	Y	941	1026	100%	900	900	262	262	137	149	125	112		
SH 21/Loop 150	SH 95	Point at which SH 21 forks into SH 21 and Loop 150	3552	0.67	2	2	4U		830	640	100%	550	550	740	740	558	431	182	309		
SH 71 EBFR	End of bridge (where undivided lanes become divided)	SH 21	3160	0.60	2	2	4D		1090	0	100%	725	725	868	868	652	0	215	868		
SH 71 EBFR	Loop 150	City Limits	1672	0.32	2	2	4D	Y	193	0	100%	900	900	570	570	61	0	509	570		
SH 71 EBFR	SH 21	Arena Dr	3606	0.68	2	2	4D	Y	340	0	100%	900	900	1,229	1,229	232	0	997	1,229		
SH 71 EBFR	ArenaDr	Loop 150	3851	0.73	2	2	4D	Y	624	0	100%	900	900	1,313	1,313	455	0	858	1,313		
SH 71 WBFR	Loop 150	City Limits	1656	0.31	2	2	4D	Y	0	430	100%	900	900	565	565	0	135	565	430		
SH 71 WBFR	End of bridge (where undivided lanes become divided)	SH 21	3166	0.60	2	2	4D	Y	0	1095	100%	900	900	1,079	1,079	0	657	1,079	423		
SH 71 WBFR	SH 21	Arena Dr	3612	0.68	2	2	4D	Y	0	430	100%	900	900	1,231	1,231	0	294	1,231	937		
SH 71 WBFR	ArenaDr	Loop 150	3858	0.73	2	2	4D	Y	0	430	100%	900	900	1,315	1,315	0	314	1,315	1,001		
SH 95	SH 21 WBFR	SH 21 EBFR	580	0.11	2	2	5U	Y	1250	240	100%	900	900	198	198	137	26	60	171		
SH 95	Farm St	Chestnut St/SH 21	870	0.16	2	2	4U	Y	1120	976	100%	900	900	297	297	185	161	112	136		
SH 95	Cedar St	Spring St	1883	0.36	1	1	3U	Y	1120	976	100%	900	900	321	321	399	348	-78	-27	78	27
SH 95	Hawthorne St	Cedar St	1560	0.30	1	1	3U	Y	1120	976	100%	900	900	266	266	331	288	-65	-22	65	22
SH 95	700' S of Mesquite St	Hawthome St	2698	0.51	1	1	2U	Y	1120	976	100%	900	900	460	460	572	499	-112	-39	112	39
SH 95	City Limits	Mesquite St	1930	0.37	1	- 1	3U	Y	1120	976	100%	900	900	329	329	409	357	-80	-28	80	28
SH 95	Mesquite St	700' S of Mesquite St	697	0.13	1	1	3U	Y	1120	976	100%	900	900	119	119	148	129	-29	-10	29	10
South Street	650' W of Jackson St	1,200' E of Jackson St	1673	0.32	1	1	2U-R	Y	22	22	100%	420	420	133	133	7	7	126	126		
SUBTOTAL			70,091	13.27										17.534	17.534	7.696	6,746	9.838	10.788	364	126
	l .	t e e e e e e e e e e e e e e e e e e e					•							35.			.442		0.626		90

Appendix B Existing Roadway Facilities Inventory 2023 Transportation Impact Fee Study City of Bastrop, Texas





### C. CONCEPTUAL LEVEL PROJECT COST PROJECTIONS

### City of Bastrop - 2023 Transportation Impact Fee Study

Capital Improvement Plan for Transportation Impact Fees Summary of Conceptual Level Projects

### Roadway Improvements - Service Area A

<u>#</u>	Type	IF Classification	Project		<u>Limits</u>					
_				<u>From</u>	<u>To</u>			Serv	ice Area	
A-1	New	4D_(80)	Agnes (1)	Bear Hunter Drive	Hunter's Crossing	\$	4,370,000	\$	4,370,000	
A-2	New	4D_(80)	Agnes (2)	Hospital Drive	Schaefer Blvd	\$	3,325,000	\$	3,325,000	
A-3	New	4D_(80)	Bear Hunter Drive (1)	Bear Hunter Drive (existing)	1,000' N of Shiloh Rd	\$	4,069,000	\$	4,069,000	
A-4	New	2U_(50)	Blakey Ln (1)	Edward Burleson Ln	1,830' E of Edward Burleson Ln	\$	1,423,000	\$	1,423,000	
A-5	New	2U_(50)	Blakey Ln (2)	City Limits	Old Austin Highway	\$	1,773,000	\$	1,773,000	
A-6	New	3U_(56)	Greenleaf Fisk Dr	Bass Drive	Schaefer Blvd	\$	2,664,000	\$	2,664,000	
A-7	New	4D_(80)	Hasler Blvd (1)	Old Austin Hwy	Colorado River	\$	2,518,000	\$	2,518,000	
A-8	New	2U_(50)	Marie St	Schaefer Blvd	Hasler Blvd	\$	1,032,000	\$	1,032,000	
A-9	New	3U_(56)	Orchard Pkwy	SH 71	Hunters Point Drive	\$	1,976,000	\$	1,976,000	
A-10	Widening	4D_(80)	Agnes (3)	Schaefer Blvd	Childers Drive	\$	5,959,000	\$	5,959,000	
A-11	Widening	4D_(80)	Edward Burleson	Blakey	SH 21 EBFR	\$	2,862,000	\$	2,862,000	
A-12	Widening	4D_(110)	FM 969 (1)	City Limits	Blakey Ln	\$	768,800	\$	768,800	
A-13	Widening	4D_(110)	FM 969 (2)	Blakey Ln	State Highway 21	\$	479,600	\$	479,600	
A-14	Widening	4D_(80)	Hasler Blvd (2)	Old Austin Hwy	SH 21	\$	2,516,000	\$	2,516,000	
A-15	Widening	4D_(80)	Home Depot Way	Hunter's Crossing	SH 304	\$	3,388,000	\$	3,388,000	
A-16	Widening 1/2	4D_(80)	Agnes (4)	SH 304	Hospital Drive	\$	3,614,000	\$	3,614,000	
A-17	Widening 1/2	4D_(80)	Bear Hunter Drive (2)	State Highway 21	Bear Hunter Drive (existing)	\$	5,582,000	\$	5,582,000	
A-18	Access Management	4D_(110)	SH 304	SH 21 EBFR	Hunters Point Dr	\$	935,200	\$	935,200	

### **Intersection Improvements**

I-1	Traffic Signal	Highway 71 & FM 20	\$ 500,000	\$ 500,000
I-2	Overpass	FM 969 / Bear Hunter & SH 21	\$ 10,000,000	\$ 10,000,000
I-3	Intersection Improvements	Edward Burleson Ln / SH 304 & SH 21	\$ 300,000	\$ 300,000
I-4	Intersection Improvements	Hasler Blvd & SH 21	\$ 300,000	\$ 300,000
I-5	Intersection Improvements	Loop 150 / Childers Dr & SH 21	\$ 300,000	\$ 300,000
I-6	Roundabout	Agnes & Hasler	\$ 2,000,000	\$ 2,000,000
I-7	Roundabout	Old Austin & Loop 150	\$ 2,000,000	\$ 2,000,000

NOTE: The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop. The planning level cost projections shall not supersede the City's design standards or the determination of the City Engineer for a specific project.

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection

Kimley-Horn and Associates, Inc.

updated: 6/20/2023

Project Information: Description: New Project No. A-1

Name: Agnes (1) Construction of a 4 lane highway arterial with a median with

Limits: Bear Hunter Drive to Hunter's Crossing curb and gutter, underground drainage, and 6' sidewalks on

Impact Fee Class: Primary Multimodal Street B both sides of the street.

Ultimate Class: 4D\_(80) Length (If): 2,405

No.	dway Construction Cost Pro Item Description	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Quantity	Unit	Unit Price		Item Cost
103	Unclassified Street Excavation (3'	depth)	13,361	CY	\$ 8.73	\$	116,643
203	Earthwork/Topsoil (6" depth)	. ,	9,620	SY	\$ 1.83	\$	17,605
303	6" Asphalt (Type C)		705	TON	\$ 140.87	\$	99,379
403	Asphalt Prime Coat		7,055	GAL	\$ 6.00	\$	42,328
503	Lime Treated Subgrade (12" depti	า)	13,361	SY	\$ 3.46	\$	46,229
603	18" Flexible Base		13,361	SY	\$ 56.20	\$	750,894
703	6' Concrete Sidewalk (4" depth)		3,207	SY	\$ 62.92	\$	201,763
803	Machine Laid Curb & Gutter		9,620	LF	\$ 22.37	\$	215,199
903	Turn Lanes and Median Openings	}	492	SY	\$ 118.58	\$	58,286
			Paving	Construction (	Cost Subtotal:	\$	1,548,327
Majo	r Construction Component Allowa						
	Item Description	Notes			Allowance		Item Cost
	Traffic Control	None Anticipated			0%		-
$\sqrt{}$	Pavement Markings/Signs/Posts	Includes Striping/Signs f	or Bicycle Facilties	5	4%	_	61,933
	Roadway Drainage	Standard Internal Syster	n		30%	\$	464,498
$\sqrt{}$	Illumination				6%		92,900
$\sqrt{}$	Water	Minor Adjustments			3%	,	46,450
	Sewer	Minor Adjustments			2%	\$	30,967
	Landscaping and Irrigation				6%	-	92,900
**Allow	vances based on % of Paving Construction C	Cost Subtotal		Allowa	nce Subtotal:	\$	789,647
				ing and Allowa		4	2,337,974
			Construction	Contingency:			233,797
				Mobilization			257,177
				Prep ROW			93,519
1			Co	nstruction C	ost TOTAL:	\$	2,923,000

Impact Fee Project Cost Sur	nmary			
Item Description	Notes:		Allowance	Item Cost
Construction:			-	\$ 2,923,000
Engineering/Survey/Testing:			16%	\$ 467,680
Inspection			3.5%	\$ 102,305
ROW/Easement Acquisition:			30%	\$ 876,900
		Impact Fee Project C	Cost TOTAL	\$ 4,370,000

NOTE: The planning level cost projections listed in this appendix have been developed for Rough Proportionality calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.

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2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

6/20/2023 updated:

**Project Information:** Description: New Project No. **A-2** Name: Agnes (2) Construction of a 4 lane highway arterial with a median with Limits: Hospital Drive to Schaefer Blvd

Impact Fee Class: Primary Multimodal Street B

**Ultimate Class:** 4D\_(80) Length (If): 1,830

curb and gutter, underground drainage, and 6' sidewalks on both sides of the street.

Unit	Unit Price	Item Cost
CY	\$ 8.73	\$ 88,755
SY	\$ 1.83	\$ 13,396
TON	\$ 140.87	\$ 75,619
GAL	\$ 6.00	\$ 32,208
SY	\$ 3.46	\$ 35,177
SY	\$ 56.20	\$ 571,367
SY	\$ 62.92	\$ 153,525
LF	\$ 22.37	\$ 163,748
SY	\$ 118.58	\$ 44,351
	GAL SY SY SY LF	GAL \$ 6.00 SY \$ 3.46 SY \$ 56.20 SY \$ 62.92 LF \$ 22.37

Paving Construction Cost Subtotal: \$ 1,178,145

Item Description	wances**: Notes	Allowance		Item Cost
Traffic Control	None Anticipated	0%	\$	-
√ Pavement Markings/Signs/Post	Includes Striping/Signs for Bicycle Facilties	4%	\$	47,126
√ Roadway Drainage	Standard Internal System	30%	\$	353,443
√ Illumination		6%	\$	70,689
√ Water	Minor Adjustments	3%	\$	35,344
√ Sewer	Minor Adjustments	2%	\$	23,563
√ Landscaping and Irrigation		6%	\$	70,689
*Allowances based on % of Paving Constructio	n Cost Subtotal	Allowance Subtotal	: \$	600,854

Allowarious based on 70 of 1 aving oblishabilion obst outstatal	anoc oubtotan	•	000,004
Paving and Allowa	ance Subtotal:	\$	1,778,999
Construction Contingency:	10%	\$	177,900
Mobilization	11%	\$	195,690
Prep ROW	4%	\$	71,160
Construction C	ost TOTAL:	\$	2,224,000

Impact Fee Project Cost Sur Item Description	Notes:		Allowance	Item Cost
Construction:			-	\$ 2,224,000
Engineering/Survey/Testing:			16%	\$ 355,840
Inspection			3.5%	\$ 77,840
ROW/Easement Acquisition:			30%	\$ 667,200
		Impact Fee Project C	ost TOTAL	\$ 3,325,000

NOTE: The planning level cost projections listed in this appendix have been developed for Rough Proportionality calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.

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2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

6/20/2023 updated:

**Project Information:** Name:

Bear Hunter Drive (1)

Limits: Bear Hunter Drive (existing) to 1,000' N of Shiloh Rd

Impact Fee Class: Primary Multimodal Street B

**Ultimate Class:** 4D\_(80) Length (If): 2,240

Description: New Project No. **A-3** 

> Construction of a 4 lane highway arterial with a median with curb and gutter, underground drainage, and 6' sidewalks on

both sides of the street.

No.	Item Description	Quantity	Unit	U	nit Price		Item Cost
103	Unclassified Street Excavation (3' depth)	12,444	CY	\$	8.73	\$	108,640
203	Earthwork/Topsoil (6" depth)	8,960	SY	\$	1.83	\$	16,397
303	6" Asphalt (Type C)	657	TON	\$	140.87	\$	92,561
403	Asphalt Prime Coat	6,571	GAL	\$	6.00	\$	39,424
503	Lime Treated Subgrade (12" depth)	12,444	SY	\$	3.46	\$	43,058
603	18" Flexible Base	12,444	SY	\$	56.20	\$	699,378
703	6' Concrete Sidewalk (4" depth)	2,987	SY	\$	62.92	\$	187,921
803	Machine Laid Curb & Gutter	8,960	LF	\$	22.37	\$	200,435
903	Turn Lanes and Median Openings	458	SY	\$	118.58	\$	54,287
		Dovine	Construction	04	Culetatale	Φ	4 440 404

Paving Construction Cost Subtotal: \$ 1,442,101

11% \$

239,533

2,722,000

87,103

Mobilization

Prep ROW

**Construction Cost TOTAL:** 

Major Construction Component Allowances**:							
	Item Description	Notes	Allowance		Item Cost		
	Traffic Control	None Anticipated	0%	\$	-		
$\sqrt{}$	Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$	57,684		
$\sqrt{}$	Roadway Drainage	Standard Internal System	30%	\$	432,630		
$\sqrt{}$	Illumination		6%	\$	86,526		
$\sqrt{}$	Water	Minor Adjustments	3%	\$	43,263		
$\sqrt{}$	Sewer	Minor Adjustments	2%	\$	28,842		
$\sqrt{}$	Landscaping and Irrigation		6%	\$	86,526		
**Allowa	ances based on % of Paving Construction C	ost Subtotal Allowa	nce Subtotal:	\$	735,471		
		Paving and Allowa	nce Subtotal:	\$	2,177,572		
		Construction Contingency:	10%	\$	217,757		

Impact Fee Project Cost Summary								
Item Description	Notes:		Allowance		Item Cost			
Construction:			-	\$	2,722,000			
Engineering/Survey/Testing:			16%	\$	435,520			
Inspection			3.5%	\$	95,270			
ROW/Easement Acquisition:			30%	\$	816,600			
		Impact Fee Project C	ost TOTAL	\$	4,069,000			

NOTE: The planning level cost projections listed in this appendix have been developed for Rough Proportionality calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.

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2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

updated: 6/20/2023

Project Information: Description: New Project No. A-4

Name: Blakey Ln (1) Construction of a 2 lane collector, underground drainage,

Limits: Edward Burleson Ln to 1,830' E of Edward Burleson Ln and 5' sidewalks on both sides of the street.

Impact Fee Class: Local Connector Street

Ultimate Class: 2U\_(50) Length (If): 1,835

No.	Item Description		Quantity	Unit	Ur	nit Price		Item Cost
104	Unclassified Street Excavation (2'	depth)	depth) 4,893 CY			8.73	\$	42,719
204	Earthwork/Topsoil (6" depth)	4,078	SY	\$	1.83	\$	7,462	
304	3" Asphalt (Type C)		367	TON	\$	140.87	\$	51,699
404	Asphalt Prime Coat		3,670	GAL	\$	6.00	\$	22,020
504	Lime Treated Subgrade (12" depth	า)	7,340	SY	\$	3.46	\$	25,396
604	10" Flexible Base		7,340	SY	\$	19.70	\$	144,598
704	6' Concrete Sidewalk (4" depth)		2,039	SY	\$	62.92	\$	128,287
804	Machine Laid Curb & Gutter		3,670	LF	\$	22.37	\$	82,098
904	Turn Lanes and Median Openings	<b>;</b>	0	SY	\$	63.33	\$	
			ravilly	Construction	CUSI	Subtotal.	Ψ	304,200
Majo	r Construction Component Allowa		raving	Construction			Ψ -	504,280
Majo	r Construction Component Allowa Item Description	ances**:	Faviliy	Construction		owance	, L	Item Cost
Majo			Faviliy	Construction				
Majo √	Item Description	Notes				owance		Item Cost
	Item Description Traffic Control	Notes None Anticipated	s for Bicycle Facilties			owance 0%	\$	20,171 151,284
√ √	Item Description Traffic Control Pavement Markings/Signs/Posts	Notes  None Anticipated Includes Striping/Signs	s for Bicycle Facilties			owance 0% 4% 30% 6%	\$ \$ \$	20,171 151,284 30,257
√ √	Item Description Traffic Control Pavement Markings/Signs/Posts Roadway Drainage	Notes  None Anticipated Includes Striping/Signs	s for Bicycle Facilties			owance 0% 4% 30%	\$ \$ \$	
√ √	Item Description  Traffic Control  Pavement Markings/Signs/Posts  Roadway Drainage  Illumination	Notes  None Anticipated Includes Striping/Signs Standard Internal Syst	s for Bicycle Facilties			owance 0% 4% 30% 6% 3% 2%	\$ \$ \$ \$ \$ \$	20,171 151,284 30,257 15,128 10,086
√ √	Item Description  Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water	Notes  None Anticipated Includes Striping/Signs Standard Internal Syst Minor Adjustments	s for Bicycle Facilties			0wance 0% 4% 30% 6% 3%	\$ \$ \$ \$ \$ \$	20,171 151,284 30,257 15,128 10,086
\ \ \ \ \ \	Item Description  Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water Sewer	Notes  None Anticipated Includes Striping/Signs Standard Internal Syst Minor Adjustments Minor Adjustments	s for Bicycle Facilties	s	All	owance 0% 4% 30% 6% 3% 2%	\$ \$ \$ \$ \$ \$	20,171 151,284 30,257 15,128 10,086 30,257
\ \ \ \ \ \	Item Description Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water Sewer Landscaping and Irrigation	Notes  None Anticipated Includes Striping/Signs Standard Internal Syst Minor Adjustments Minor Adjustments	s for Bicycle Facilities em Pav	s Allow ving and Allow	ance	0wance 0% 4% 30% 6% 3% 2% 6% Subtotal:	\$ \$ \$ \$ \$ \$ \$ \$	20,171 151,284 30,257
\ \ \ \ \ \	Item Description Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water Sewer Landscaping and Irrigation	Notes  None Anticipated Includes Striping/Signs Standard Internal Syst Minor Adjustments Minor Adjustments	s for Bicycle Facilities em Pav	S	ance	0wance 0% 4% 30% 6% 3% 2% 6% Subtotal:	\$ \$ \$ \$ \$ \$ \$ \$	20,171 151,284 30,257 15,128 10,086 30,257 257,183

Impact Fee Project Cost Summary								
Item Description	Notes:		Allowance		Item Cost			
Construction:			-	\$	952,000			
Engineering/Survey/Testing:			16%	\$	152,320			
Inspection			3.5%	\$	33,320			
ROW/Easement Acquisition:			30%	\$	285,600			
		Impact Fee Project C	Cost TOTAL	\$	1,423,000			

Prep ROW

**Construction Cost TOTAL** 

NOTE: The planning level cost projections listed in this appendix have been developed for Rough Proportionality calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.

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30,458

952,000

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

updated: 6/20/2023

Project Information: Description: New Project No. A-5

Name: Blakey Ln (2) Construction of a 2 lane collector, underground drainage,

Limits: City Limits to Old Austin Highway and 5' sidewalks on both sides of the street.

Impact Fee Class: Local Connector Street

Ultimate Class: 2U\_(50) Length (If): 2,285

Road	dway Construction Cost Projection				
No.	Item Description	Quantity	Unit	Unit Price	Item Cost
104	Unclassified Street Excavation (2' depth)	6,093	CY	\$ 8.73	\$ 53,195
204	Earthwork/Topsoil (6" depth)	5,078	SY	\$ 1.83	\$ 9,292
304	3" Asphalt (Type C)	457	TON	\$ 140.87	\$ 64,378
404	Asphalt Prime Coat	4,570	GAL	\$ 6.00	\$ 27,420
504	Lime Treated Subgrade (12" depth)	9,140	SY	\$ 3.46	\$ 31,624
604	10" Flexible Base	9,140	SY	\$ 19.70	\$ 180,058
704	6' Concrete Sidewalk (4" depth)	2,539	SY	\$ 62.92	\$ 159,747
804	Machine Laid Curb & Gutter	4,570	LF	\$ 22.37	\$ 102,231
904	Turn Lanes and Median Openings	0	SY	\$ 63.33	\$ -

Paving Construction Cost Subtotal: \$ 627,945

Mobilization

Prep ROW

**Construction Cost TOTAL:** 

	Item Description	Notes	Allowance		Item Cost
	Traffic Control	None Anticipated	0%	\$	-
$\sqrt{}$	Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$	25,118
$\sqrt{}$	Roadway Drainage	Standard Internal System	30%	\$	188,383
$\sqrt{}$	Illumination		6%	\$	37,677
$\sqrt{}$	Water	Minor Adjustments	3%	\$	18,838
$\sqrt{}$	Sewer	Minor Adjustments	2%	\$	12,559
$\sqrt{}$	Landscaping and Irrigation		6%	\$	37,677
Allowances based on % of Paving Construction Cost Subtotal  Allowance Subtotal:				\$	320,252
Paving and Allowance Subtotal:					948,197
		Construction Contingend	cv: 10%	\$	94.820

Impact Fee Project Cost Sur	nmary			
Item Description	Notes:		Allowance	Item Cost
Construction:			-	\$ 1,186,000
Engineering/Survey/Testing:			16%	\$ 189,760
Inspection			3.5%	\$ 41,510
ROW/Easement Acquisition:			30%	\$ 355,800
		Impact Fee Project C	ost TOTAL	\$ 1,773,000

NOTE: The planning level cost projections listed in this appendix have been developed for Rough Proportionality calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.

The planning level cost projections shall not supersede the City's design standards or the determination of the City Engineer for a specific project.

\$

104,302

1,186,000

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection

Roadway Construction Cost Projection

Kimley-Horn and Associates, Inc.

Project No.

updated: 6/20/2023

**A-6** 

Project Information: Description: New

Name: Greenleaf Fisk Dr Construction of a 3 lane collector (2 lanes plus a center turn Limits: Bass Drive to Schaefer Blvd lane) with curb and gutter, underground drainage, and 6'

Limits: Bass Drive to Schaefer Blvd Inne) with curb and gutter, underground drainage, and 6' Primary Multimodal Street A sidewalks on both sides of the street.

Ultimate Class: 3U\_(56)

Length (If): 2,985

No.	Item Description		Quantity	Unit	Unit Price		Item Cost
102	Unclassified Street Excavation (2'	depth)	9,287	CY	\$ 8.73	\$	81,073
202	Earthwork/Topsoil (6" depth)		6,633	SY	\$ 1.83	\$	12,139
302	2 3" Asphalt (Type C)		716	TON	\$ 140.87	\$	100,919
402	Asphalt Prime Coat		7,164	GAL	\$ 6.00	\$	42,984
502	Lime Treated Subgrade (12" depth	1)	13,930	SY	\$ 3.46	\$	48,198
602	10" Flexible Base		13,930	SY	\$ 19.70	\$	274,421
702	6' Concrete Sidewalk (4" depth)		3,980	SY	\$ 62.92	\$	250,422
802	Machine Laid Curb & Gutter		5,970	LF	\$ 22.37	\$	133,549
902	Turn Lanes and Median Openings		0	SY	\$ 71.37	\$	-
			Paving	Construction C	Cost Subtotal:	\$	943,704
Major	<b>Construction Component Allows</b>	inces**:					
	Item Description	Notes			Allowance		Item Cost
	Traffic Control	None Anticipated			0%	\$	-
	Pavement Markings/Signs/Posts	Includes Striping/Signs for	or Bicycle Faciltie	s	4%	\$	37,748
	Roadway Drainage	Standard Internal System	1		30%	\$	283,111
	Illumination				6%	\$	56,622
	Water	Minor Adjustments			3%	\$	28,311
	Sewer	Minor Adjustments			2%	\$	18,874
	Landscaping and Irrigation				6%	\$	56,622
**Allow	ances based on % of Paving Construction C	ost Subtotal		Allowa	nce Subtotal:	\$	481,289
	Paving and Allowance Subtotal:						1,424,993
	Construction Contingency: 10%					\$	142,499
				Mobilization	11%	\$	156,749
				Prep ROW		\$	57,000 <b>1,782,000</b>
	Construction Cost TOTAL: \$						

Impact Fee Project Cost Sur	nmary			
Item Description	Notes:		Allowance	Item Cost
Construction:			-	\$ 1,782,000
Engineering/Survey/Testing:			16%	\$ 285,120
Inspection			3.5%	\$ 62,370
ROW/Easement Acquisition:			30%	\$ 534,600
		Impact Fee Project C	Cost TOTAL	\$ 2,664,000

NOTE: The planning level cost projections listed in this appendix have been developed for Rough Proportionality calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection

Kimley-Horn and Associates, Inc.

updated: 6/20/2023

Project Information: Description: New Project No. A-7

Name: Hasler Blvd (1) Construction of a 4 lane arterial with a median with curb and Limits: Old Austin Hwy to Colorado River qutter, underground drainage, and 6' sidewalks on both

Limits: Old Austin Hwy to Colorado River gutter, underground drainage, and 6' sidewalks on both Impact Fee Class: Primary Multimodal Street B sides of the street.

Ultimate Class: 4D\_(80)

Length (If): 4D\_(80

No.	Item Description	Quantity	Unit	U	nit Price	l1	tem Cost
103	Unclassified Street Excavation (3' depth)	7,694	CY	\$	8.73	\$	67,173
203	Earthwork/Topsoil (6" depth)	5,540	SY	\$	1.83	\$	10,138
303	6" Asphalt (Type C)	406	TON	\$	140.87	\$	57,231
403	Asphalt Prime Coat	4,063	GAL	\$	6.00	\$	24,376
503	Lime Treated Subgrade (12" depth)	7,694	SY	\$	3.46	\$	26,623
603	18" Flexible Base	7,694	SY	\$	56.20	\$	432,428
703	6' Concrete Sidewalk (4" depth)	1,847	SY	\$	62.92	\$	116,192
803	Machine Laid Curb & Gutter	5,540	LF	\$	22.37	\$	123,930
903	Turn Lanes and Median Openings	283	SY	\$	118.58	\$	33,566
	Paving Construction Cost Subtotal: \$						

Major	Construction Component Allowa	ncos**•	_	
Iviajoi	Item Description	Notes	Allowance	Item Cost
	Traffic Control	None Anticipated	0%	\$ -
$\checkmark$	Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$ 35,666
$\sqrt{}$	Roadway Drainage	Standard Internal System	30%	\$ 267,497
$\checkmark$	Illumination		6%	\$ 53,499
$\checkmark$	Water	Minor Adjustments	3%	\$ 26,750
$\checkmark$	Sewer	Minor Adjustments	2%	\$ 17,833
$\sqrt{}$	Landscaping and Irrigation		6%	\$ 53,499
**Allow	ances based on % of Paving Construction C	ost Subtotal Allowa	nce Subtotal:	\$ 454,745
		Paving and Allowa	nce Subtotal:	\$ 1,346,401
		Construction Contingency:	10%	\$ 134,640
	\$ 148,104			
	\$ 53,856			
		Construction C	ost TOTAL:	\$ 1,684,000

Impact Fee Project Cost Sur	nmary			
Item Description	Notes:		Allowance	Item Cost
Construction:			-	\$ 1,684,000
Engineering/Survey/Testing:			16%	\$ 269,440
Inspection			3.5%	\$ 58,940
ROW/Easement Acquisition:			30%	\$ 505,200
		Impact Fee Project C	Cost TOTAL	\$ 2,518,000

NOTE: The planning level cost projections listed in this appendix have been developed for Rough Proportionality calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.

# 2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection

Kimley-Horn and Associates, Inc.

updated: 6/20/2023

Project Information: Description: New Project No. A-8

Name: Construction of a 2 lane collector, underground drainage,

Limits: Schaefer Blvd to Hasler Blvd and 5' sidewalks on both sides of the street.

Impact Fee Class: Local Connector Street

Ultimate Class: 2U\_(50) Length (If): 1,330

No.	Item Description	Quantity	Unit	Uı	nit Price	Item Cost
104	Unclassified Street Excavation (2' depth)	3,547	CY	\$	8.73	\$ 30,962
204	Earthwork/Topsoil (6" depth)	2,956	SY	\$	1.83	\$ 5,409
304	3" Asphalt (Type C)	266	TON	\$	140.87	\$ 37,471
404	Asphalt Prime Coat	2,660	GAL	\$	6.00	\$ 15,960
504	Lime Treated Subgrade (12" depth)	5,320	SY	\$	3.46	\$ 18,407
604	10" Flexible Base	5,320	SY	\$	19.70	\$ 104,804
704	6' Concrete Sidewalk (4" depth)	1,478	SY	\$	62.92	\$ 92,982
804	Machine Laid Curb & Gutter	2,660	LF	\$	22.37	\$ 59,504
904	Turn Lanes and Median Openings	0	SY	\$	63.33	\$ -
		Paving	Construction	ı Cost	Subtotal:	\$ 365,500

	Item Description	Notes	Allowance		Item Cost
	Traffic Control	None Anticipated	0%	\$	-
$\sqrt{}$	Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$	14,620
$\sqrt{}$	Roadway Drainage	Standard Internal System	30%	\$	109,650
$\sqrt{}$	Illumination		6%	\$	21,930
$\sqrt{}$	Water	Minor Adjustments	3%	\$	10,965
$\sqrt{}$	Sewer	Minor Adjustments	2%	\$	7,310
$\sqrt{}$	Landscaping and Irrigation		6%	\$	21,930
Allowances based on % of Paving Construction Cost Subtotal  Allowance Subtotal:				\$	186,405
Paving and Allowance Subtotal:					551,904
		Construction Contingency	v: 10%	\$	55.190

Mobilization

Prep ROW

**Construction Cost TOTAL:** 

Impact Fee Project Cost Sur	nmary			
Item Description	Notes:		Allowance	Item Cost
Construction:			-	\$ 690,000
Engineering/Survey/Testing:			16%	\$ 110,400
Inspection			3.5%	\$ 24,150
ROW/Easement Acquisition:			30%	\$ 207,000
		Impact Fee Project C	Cost TOTAL	\$ 1,032,000

NOTE: The planning level cost projections listed in this appendix have been developed for Rough Proportionality calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.

The planning level cost projections shall not supersede the City's design standards or the determination of the City Engineer for a specific project.

\$

60,709

22,076

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

updated: 6/20/2023

Project Information: Description: New Project No. A-9

Name: Orchard Pkwy Construction of a 3 lane collector (2 lanes plus a center turn Limits: SH 71 to Hunters Point Drive lane) with curb and gutter, underground drainage, and 6'

Limits: SH 71 to Hunters Point Drive lane) with curb and gutter, underground drainage, and 6' Impact Fee Class: Primary Multimodal Street A sidewalks on both sides of the street.

Ultimate Class: 3U\_(56) Length (If): 2,215

Roa	dway Construction Cost Projection					
No.	Item Description	Quantity	Unit	Uı	nit Price	Item Cost
102	Unclassified Street Excavation (2' depth)	6,891	CY	\$	8.73	\$ 60,159
202	Earthwork/Topsoil (6" depth)	4,922	SY	\$	1.83	\$ 9,008
302	3" Asphalt (Type C)	532	TON	\$	140.87	\$ 74,886
402	Asphalt Prime Coat	5,316	GAL	\$	6.00	\$ 31,896
502	Lime Treated Subgrade (12" depth)	10,337	SY	\$	3.46	\$ 35,765
602	10" Flexible Base	10,337	SY	\$	19.70	\$ 203,632
702	6' Concrete Sidewalk (4" depth)	2,953	SY	\$	62.92	\$ 185,824
802	Machine Laid Curb & Gutter	4,430	LF	\$	22.37	\$ 99,099
902	Turn Lanes and Median Openings	0	SY	\$	71.37	\$ -

Paving Construction Cost Subtotal: \$ 700,270

	Item Description	Notes		Allowance	Item Cost
	Traffic Control	None Anticipated		0%	\$ -
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties		4%	\$ 28,011
$\sqrt{}$	Roadway Drainage	Standard Internal System		30%	\$ 210,081
$\sqrt{}$	Illumination			6%	\$ 42,016
$\sqrt{}$	Water	Minor Adjustments		3%	\$ 21,008
$\sqrt{}$	Sewer	Minor Adjustments		2%	\$ 14,005
	Landscaping and Irrigation			6%	\$ 42,016
**Allowances based on % of Paving Construction Cost Subtotal Allowance Subtotal:				\$ 357,137	
		Paving a	nd Allowa	nce Subtotal:	\$ 1.057.407

i aving and Allowa	ince oubtotai.	Ψ	1,007,707
Construction Contingency:	10%	\$	105,741
Mobilization	11%	\$	116,315
Prep ROW	4%	\$	42,296
Construction C	ost TOTAL:	\$	1,322,000
Impact Fee Project Cost Summary			

Impact Fee Project Cost Summary						
Item Description	Notes:		Allowance		Item Cost	
Construction:			-	\$	1,322,000	
Engineering/Survey/Testing:			16%	\$	211,520	
Inspection			3.5%	\$	46,270	
ROW/Easement Acquisition:			30%	\$	396,600	
Impact Fee Project Cost TOTAL				\$	1,976,000	

NOTE: The planning level cost projections listed in this appendix have been developed for Rough Proportionality calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

6/20/2023 updated:

**Project Information:** 

Description: Widening

Project No. A-10

Name:

Agnes (3)

Construction of a 4 lane arterial with a median with curb and

Limits:

Schaefer Blvd to Childers Drive

gutter, underground drainage, and 6' sidewalks on both

Impact Fee Class: Primary Multimodal Street B

**Ultimate Class:** 

4D\_(80)

sides of the street.

Length (If): 3,175

No.	Item Description	Quantity	Unit	Uı	nit Price		Item Cost
103	Unclassified Street Excavation (3' depth)	17,639	CY	\$	8.73	\$	153,988
203	Earthwork/Topsoil (6" depth)	12,700	SY	\$	1.83	\$	23,241
303	6" Asphalt (Type C)	931	TON	\$	140.87	\$	131,197
403	Asphalt Prime Coat	9,313	GAL	\$	6.00	\$	55,880
503	Lime Treated Subgrade (12" depth)	17,639	SY	\$	3.46	\$	61,031
603	18" Flexible Base	17,639	SY	\$	56.20	\$	991,306
703	6' Concrete Sidewalk (4" depth)	4,233	SY	\$	62.92	\$	266,361
803	Machine Laid Curb & Gutter	12,700	LF	\$	22.37	\$	284,099
903	Turn Lanes and Median Openings	649	SY	\$	118.58	\$	76,947
	•	D	O	<u> </u>	<b>A</b> 14 4 1	•	2 244 242

Paving Construction Cost Subtotal: \$ 2,044,049

<b>Major Construction</b>	Component	Allowances**:

	Item Description	Notes		Allowance	Item Cost
	Traffic Control	Construction Phase Traffic Control		5%	\$ 102,202
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties		4%	\$ 81,762
	Roadway Drainage	Standard Internal System		30%	\$ 613,215
	Illumination			6%	\$ 122,643
	Water	Minor Adjustments		3%	\$ 61,321
	Sewer	Minor Adjustments		2%	\$ 40,881
	Landscaping and Irrigation			6%	\$ 122,643
**Allov	**Allowances based on % of Paving Construction Cost Subtotal			\$ 1.144.668	

Paving and Allowa	nce Subtotal:	\$	3,188,717
Construction Contingency:	10%	\$	318,872
Mobilization	11%	\$	350,759
Prep ROW	4%	\$	127,549
Construction C	oct TOTAL .	¢	3 086 000

Construction Cost 101AL: | \$ 3,986,000

Impact Fee Project Cost Sun	nmary				
Item Description	Notes:		Allowance		Item Cost
Construction:			-	\$	3,986,000
Engineering/Survey/Testing:			16%	\$	637,760
Inspection			3.5%	\$	139,510
ROW/Easement Acquisition:			30%	\$	1,195,800
Impact Fee Project Cost TOTAL					5.959.000

NOTE: The planning level cost projections listed in this appendix have been developed for Rough Proportionality calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

updated: 6/20/2023

Project Information:

Description: Widening

Project No.

A-11

Name: Edward Burleson Limits: Blakey to SH 21 E

Blakey to SH 21 EBFR

Construction of a 4 lane arterial with a median with curb and gutter, underground drainage, and 6' sidewalks on both

sides of the street.

Impact Fee Class: Primary Multimodal Street B

Ultimate Class: 4D\_(80) Length (If): 1,695

Road	dway Construction Cost Projection				
No.	Item Description	Quantity	Unit	Unit Price	Item Cost
103	Unclassified Street Excavation (3' depth)	9,417	CY	\$ 8.73	\$ 82,208
203	Earthwork/Topsoil (6" depth)	6,780	SY	\$ 1.83	\$ 12,407
303	6" Asphalt (Type C)	497	TON	\$ 140.87	\$ 70,041
403	Asphalt Prime Coat	4,972	GAL	\$ 6.00	\$ 29,832
503	Lime Treated Subgrade (12" depth)	9,417	SY	\$ 3.46	\$ 32,582
603	18" Flexible Base	9,417	SY	\$ 56.20	\$ 529,217
703	6' Concrete Sidewalk (4" depth)	2,260	SY	\$ 62.92	\$ 142,199
803	Machine Laid Curb & Gutter	6,780	LF	\$ 22.37	\$ 151,669
903	Turn Lanes and Median Openings	346	SY	\$ 118.58	\$ 41,079

Paving Construction Cost Subtotal: \$ 1,091,233

Major	Major Construction Component Allowances**:							
	Item Description	Notes	Allowance		Item Cost			
	Traffic Control	Construction Phase Traffic Control	5%	\$	54,562			
$\checkmark$	Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$	43,649			
$\checkmark$	Roadway Drainage	Standard Internal System	30%	\$	327,370			
$\checkmark$	Illumination		6%	\$	65,474			
$\checkmark$	Water	Minor Adjustments	3%	\$	32,737			
$\checkmark$	Sewer	Minor Adjustments	2%	\$	21,825			
	Landscaping and Irrigation		6%	\$	65,474			
**Allow	*Allowances based on % of Paving Construction Cost Subtotal Allowance Subtotal: \$							

011,000	ľ	Gubiolan	Allowards based on 70 or raving conditional cost capital
\$ 1,702,323	\$	wance Subtotal:	Paving and Allows
\$ 170,232	\$	y: 10%	Construction Contingency:
\$ 187,256	\$	on 11%	Mobilization
\$ 68,093	\$	W 4%	Prep ROW
\$ 2.128.000	\$	Cost TOTAL:	Construction C

Impact Fee Project Cost Sun Item Description	Notes:		Allowance	Item Cost
Construction:			-	\$ 2,128,000
Engineering/Survey/Testing:			16%	\$ 340,480
Inspection			3.5%	\$ 74,480
ROW/Easement Acquisition:			15%	\$ 319,200
Impact Fee Project Cost TOTAL				\$ 2,862,000

NOTE: The planning level cost projections listed in this appendix have been developed for Rough Proportionality calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection

\*Allowances based on % of Paving Construction Cost Subtotal

Kimley-Horn and Associates, Inc.

6/20/2023 updated:

**Project Information:** Description: Widening Project No. A-12 Name: FM 969 (1) Construction of a 4 lane highway arterial with a median with Limits: City Limits to Blakey Ln

Impact Fee Class: State Highway System

**Ultimate Class:** 4D\_(110) Length (If): 2,405

curb and gutter, underground drainage, and 6' sidewalks on

Allowance Subtotal:

10% \$

11% \$

4%

**Paving and Allowance Subtotal:** 

**Construction Cost TOTAL:** 

Mobilization

Prep ROW

**Construction Contingency:** 

both sides of the street.

Road	dway Construction Cost Pro	Jection						
No.	Item Description		Quantity	Unit	Uni	t Price		Item Cost
101	Unclassified Street Excavation (3'	depth)	14,430	CY	\$	8.73	\$	125,974
201	Earthwork/Topsoil (6" depth)		16,568	SY	\$	1.83	\$	30,319
301	6" Asphalt (Type C)		770	TON	\$	140.87	\$	108,414
401	Asphalt Prime Coat		7,696	GAL	\$	6.00	\$	46,176
501	Lime Treated Subgrade (12" depth)		14,430	SY	\$	3.46	\$	49,928
601	18" Flexible Base		14,430	SY	\$	56.20	\$	810,966
701	6' Concrete Sidewalk (4" depth)		3,207	SY	\$	62.92	\$	201,763
801	Machine Laid Curb & Gutter		9,620	LF	\$	22.37	\$	215,199
901	Turn Lanes and Median Openings	•	492	SY	\$	123.94	\$	60,919
	Paving Construction Cos				Cost S	Subtotal:	\$	1,649,658
Major	Construction Component Allowa	ances**:						
	Item Description	Notes			Allo	wance		Item Cost
	Traffic Control	0 1 1 0 7 1				Ε0/	Φ	82,483
		Construction Phase Traff	ic Control			5%	\$	02,403
$\checkmark$	Pavement Markings/Signs/Posts	Includes Striping/Signs for		S		5% 4%		65,986
$\sqrt{}$			or Bicycle Faciltie	S			\$	,
√ √ √	Pavement Markings/Signs/Posts	Includes Striping/Signs fo	or Bicycle Faciltie	s		4%	\$	65,986
\ \ \ \	Pavement Markings/Signs/Posts Roadway Drainage	Includes Striping/Signs fo	or Bicycle Faciltie	s	,	4% 30%	\$ \$ \$	65,986 494,897
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Pavement Markings/Signs/Posts Roadway Drainage Illumination	Includes Striping/Signs for Standard Internal System	or Bicycle Faciltie	s		4% 30% 6%	\$ \$ \$ \$	65,986 494,897 98,979

Impact Fee Project Cost Summary							
Item Description	Notes:	Allowance		Item Cost			
Construction:		-	\$	3,217,000			
Engineering/Survey/Testing:		16%	\$	514,720			
Inspection		3.5%	\$	112,595			
ROW/Easement Acquisition:		0%	\$	-			
	Impact Fee Project Cost TOTAL (1	TxDOT 20%)	\$	768,800			

NOTE: The planning level cost projections listed in this appendix have been developed for Rough Proportionality calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.

The planning level cost projections shall not supersede the City's design standards or the determination of the City Engineer for a specific project.

923,809

2,573,467 257,347

283,081

102,939

3,217,000

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection

Kimley-Horn and Associates, Inc.

updated: 6/20/2023

Project Information: Description: Widening Project No. A-13

Name: FM 969 (2) Construction of a 4 lane highway arterial with a median with

Limits: Blakey Ln to State Highway 21
Impact Fee Class: State Highway System

Ultimate Class: 4D\_(110) Length (If): 1,500 curb and gutter, underground drainage, and 6' sidewalks on

both sides of the street.

Road	dway Construction Cost Projection					
No.	Item Description	Quantity	Unit	Ur	nit Price	Item Cost
101	Unclassified Street Excavation (3' depth)	9,000	CY	\$	8.73	\$ 78,570
201	Earthwork/Topsoil (6" depth)	10,333	SY	\$	1.83	\$ 18,910
301	6" Asphalt (Type C)	480	TON	\$	140.87	\$ 67,618
401	Asphalt Prime Coat	4,800	GAL	\$	6.00	\$ 28,800
501	Lime Treated Subgrade (12" depth)	9,000	SY	\$	3.46	\$ 31,140
601	18" Flexible Base	9,000	SY	\$	56.20	\$ 505,800
701	6' Concrete Sidewalk (4" depth)	2,000	SY	\$	62.92	\$ 125,840
801	Machine Laid Curb & Gutter	6,000	LF	\$	22.37	\$ 134,220
901	Turn Lanes and Median Openings	307	SY	\$	123.94	\$ 37,995
		Paving	Construction (	Cost	Subtotal:	\$ 1,028,893

Major	Major Construction Component Allowances**:								
,	Item Description	Notes	Allowance		Item Cost				
V	Traffic Control	Construction Phase Traffic Control	5%	\$	51,445				
$\sqrt{}$	Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$	41,156				
	Roadway Drainage	Standard Internal System	30%	\$	308,668				
	Illumination		6%	\$	61,734				
	Water	Minor Adjustments	3%	\$	30,867				
	Sewer	Minor Adjustments	2%	\$	20,578				
	Landscaping and Irrigation		6%	\$	61,734				
**Allow	ances based on % of Paving Construction C	Cost Subtotal Allowa	ance Subtotal:	\$	576,180				
		Paving and Allowa	ance Subtotal:	\$	1,605,073				
Construction Contingency: 10% \$				\$	160,507				
		Mobilization	11%	\$	176,558				

Impact Fee Project Cost Summary							
Item Description	Notes:	Allowance		Item Cost			
Construction:		-	\$	2,007,000			
Engineering/Survey/Testing:		16%	\$	321,120			
Inspection		3.5%	\$	70,245			
ROW/Easement Acquisition:		0%	\$	-			
	Impact Fee Project Cost TOTAL (1	xDOT 20%)	\$	479,600			

Prep ROW

**Construction Cost TOTAL** 

NOTE: The planning level cost projections listed in this appendix have been developed for Rough Proportionality calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.

The planning level cost projections shall not supersede the City's design standards or the determination of the City Engineer for a specific project.

64,203

2,007,000

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

6/20/2023 updated:

**Project Information:** Description: Widening Project No. A-14 Name: Hasler Blvd (2) Construction of a 4 lane arterial with a median with curb and Limits: Old Austin Hwy to SH 21

Primary Multimodal Street B Impact Fee Class:

**Ultimate Class:** 4D\_(80) Length (If): 1,340

Item Description

No.

gutter, underground drainage, and 6' sidewalks on both sides of the street.

**Roadway Construction Cost Projection** Quantity Unit **Unit Price** Item Cost

103	Unclassified Street Excavation (3' depth)	7,444	CY	\$	8.73	\$ 64,990
203	Earthwork/Topsoil (6" depth)	5,360	SY	\$	1.83	\$ 9,809
303	6" Asphalt (Type C)	393	TON	\$	140.87	\$ 55,371
403	Asphalt Prime Coat	3,931	GAL	\$	6.00	\$ 23,584
503	Lime Treated Subgrade (12" depth)	7,444	SY	\$	3.46	\$ 25,758
603	18" Flexible Base	7,444	SY	\$	56.20	\$ 418,378
703	6' Concrete Sidewalk (4" depth)	1,787	SY	\$	62.92	\$ 112,417
803	Machine Laid Curb & Gutter	5,360	LF	\$	22.37	\$ 119,903
903	Turn Lanes and Median Openings	274	SY	\$	118.58	\$ 32,475
		Pavino	Construction (	Cost	Subtotal:	\$ 862.685

Major	ajor Construction Component Allowances**:						
	Item Description	Notes		Allowance		Item Cost	
V	Traffic Control	Construction Phase Traffic Control		5%	\$	43,134	
$\checkmark$	Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties		4%	\$	34,507	
	Roadway Drainage	Standard Internal System		30%	\$	258,806	
$\checkmark$	Illumination			6%	\$	51,761	
$\checkmark$	Water	Minor Adjustments		3%	\$	25,881	
$\checkmark$	Sewer	Minor Adjustments		2%	\$	17,254	
	Landscaping and Irrigation			6%	\$	51,761	
**Allow	**Allowances based on % of Paving Construction Cost Subtotal  Allowance Subtotal: \$				\$	483,104	

Allowances based on % of Paving Construction Cost Subtotal	Allowa	nice Subtotal.	Ф	403,104
	Paving and Allowa	nce Subtotal:	\$	1,345,789
	Construction Contingency:	10%	\$	134,579
	Mobilization	11%	\$	148,037
	Prep ROW	4%	\$	53,832
	Construction C	ost TOTAL:	\$	1,683,000

Impact Fee Project Cost Sur	nmary			
Item Description	Notes:		Allowance	Item Cost
Construction:			-	\$ 1,683,000
Engineering/Survey/Testing:			16%	\$ 269,280
Inspection			3.5%	\$ 58,905
ROW/Easement Acquisition:			30%	\$ 504,900
		Impact Fee Project C	Cost TOTAL	\$ 2,516,000

NOTE: The planning level cost projections listed in this appendix have been developed for Rough Proportionality calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

6/20/2023 updated:

A-15

**Project Information:** Description: Widening Project No. Name: Home Depot Way Construction of a 4 lane arterial with a median with curb and

Limits: Hunter's Crossing to SH 304 Impact Fee Class: Primary Multimodal Street B

**Ultimate Class:** 4D\_(80) Length (If): 1,805

gutter, underground drainage, and 6' sidewalks on both

sides of the street.

No.	Item Description	Quantity	Unit	Uı	nit Price	Item Cost
103	Unclassified Street Excavation (3' depth)	10,028	CY	\$	8.73	\$ 87,543
203	Earthwork/Topsoil (6" depth)	7,220	SY	\$	1.83	\$ 13,213
303	6" Asphalt (Type C)	529	TON	\$	140.87	\$ 74,586
403	Asphalt Prime Coat	5,295	GAL	\$	6.00	\$ 31,768
503	Lime Treated Subgrade (12" depth)	10,028	SY	\$	3.46	\$ 34,696
603	18" Flexible Base	10,028	SY	\$	56.20	\$ 563,561
703	6' Concrete Sidewalk (4" depth)	2,407	SY	\$	62.92	\$ 151,427
803	Machine Laid Curb & Gutter	7,220	LF	\$	22.37	\$ 161,511
903	Turn Lanes and Median Openings	369	SY	\$	118.58	\$ 43,745
		Paving	Construction	Cost	Subtotal:	\$ 1,162,050

	Item Description	Notes	Allowance		Item Cost
	Traffic Control	Construction Phase Traffic Control	5%	\$	58,103
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$	46,482
	Roadway Drainage	Standard Internal System	30%	\$	348,615
	Illumination		6%	\$	69,723
$\checkmark$	Water	Minor Adjustments	3%	\$	34,862
$\checkmark$	Sewer	Minor Adjustments	2%	\$	23,241
	Landscaping and Irrigation		6%	\$	69,723
**Allowances based on % of Paving Construction Cost Subtotal Allowance Subtotal:					650,748
		Paving and Allow	/ance Subtotal:	\$	1,812,798
		0 1 0 1 0	4.00/	Φ.	404 000

Paving and Allowa	\$ 1,812,798	
Construction Contingency:	10%	\$ 181,280
Mobilization	11%	\$ 199,408
Prep ROW	4%	\$ 72,512
Construction C	ost TOTAL:	\$ 2,266,000

Impact Fee Project Cost Sur Item Description	Notes:		Allowance	Item Cost
Construction:			-	\$ 2,266,000
Engineering/Survey/Testing:			16%	\$ 362,560
Inspection			3.5%	\$ 79,310
ROW/Easement Acquisition:			30%	\$ 679,800
Impact Fee Project Cost TOTAL				\$ 3,388,000

NOTE: The planning level cost projections listed in this appendix have been developed for Rough Proportionality calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection

Kimley-Horn and Associates, Inc.

updated: 6/20/2023

 Project Information:
 Description: Widening 1/2
 Project No.
 A-16

 Name:
 Agnes (4)
 Construction of a 4 lane arterial with a median with curb and

Limits: SH 304 to Hospital Drive Impact Fee Class: Primary Multimodal Street B

Ultimate Class: 4D\_(80) Length (If): 2,140 gutter, underground drainage, and 6' sidewalks on both

sides of the street.

Road	dway Construction Cost Pro	jection					
No.	Item Description	_	Quantity	Unit	Ur	nit Price	Item Cost
103	Unclassified Street Excavation (3'	depth)	11,889	CY	\$	8.73	\$ 103,790
203	Earthwork/Topsoil (6" depth)		8,560	SY	\$	1.83	\$ 15,665
303	S" Asphalt (Type C)		628	TON	\$	140.87	\$ 88,429
403	Asphalt Prime Coat	6,277	GAL	\$	6.00	\$ 37,664	
503	Lime Treated Subgrade (12" depth)		11,889	SY	\$	3.46	\$ 41,136
603	18" Flexible Base	11,889	SY	\$	56.20	\$ 668,156	
703	6' Concrete Sidewalk (4" depth)	2,853	SY	\$	62.92	\$ 179,532	
803	Machine Laid Curb & Gutter	8,560	LF	\$	22.37	\$ 191,487	
903	Turn Lanes and Median Openings		437	SY	\$	118.58	\$ 51,864
Paving Construction					Cost	Subtotal:	\$ 1,377,721
Major	Construction Component Allowa	ınces**:	_	_		_	
	Item Description	Notes			All	owance	Item Cost
	Traffic Control	Construction Phase Tra	Construction Phase Traffic Control			5%	\$ 68,886
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties				4%	\$ 55,109
$\sqrt{}$	Roadway Drainage	Standard Internal Syste	em			30%	\$ 413,316
$\sqrt{}$	Illumination					6%	\$ 82,663
	Water	Minor Adjustments				3%	\$ 41.332

$\checkmark$	Illumination			6%	\$	82,663
$\checkmark$	Water	Minor Adjustments		3%	\$	41,332
$\checkmark$	Sewer	Minor Adjustments		2%	\$	27,554
$\checkmark$	Landscaping and Irrigation			6%	\$	82,663
**Allow	ances based on % of Paving Construction	Cost Subtotal	Allowa	nce Subtotal:	\$	771,524
	\$	2,149,245				
Construction Contingency: 10%						214,925
Mobilization 11%						236,417
			Prep ROW	4%	\$	85,970
			Construction C	ost TOTAL:	\$	2,687,000

Engineering/Survey/Testing:         16%         \$ 429,9           Inspection         3.5%         \$ 94,0	Item Description	Notes:	Allowance	Item Cost
Inspection 3.5% \$ 94,0	Construction:		-	\$ 2,687,000
· ·	Engineering/Survey/Testing:		16%	\$ 429,920
ROW/Fasement Acquisition: 15% \$ 403.0	Inspection		3.5%	\$ 94,045
TO THE LOCATION TO THE TOO, O	ROW/Easement Acquisition:		15%	\$ 403,050

NOTE: The planning level cost projections listed in this appendix have been developed for Rough Proportionality calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

updated: 6/20/2023

Project Information: Description: Widening 1/2 Project No. A-17

Name: Bear Hunter Drive (2) Construction of a 4 lane arterial with a median with curb and Limits: State Highway 21 to Bear Hunter Drive (rgutter, underground drainage, and 6' sidewalks on both

Impact Fee Class: Primary Multimodal Street B sides of the street.

Ultimate Class: 4D\_(80) Length (If): 3,305

No.	Item Description	Quantity	Unit	U	nit Price		Item Cost	
103	Unclassified Street Excavation (3' depth)	18,361	CY	\$	8.73	\$	160,293	
203	Earthwork/Topsoil (6" depth)	13,220	SY	\$	1.83	\$	24,193	
303	6" Asphalt (Type C)	969	TON	\$	140.87	\$	136,569	
403	Asphalt Prime Coat	9,695	GAL	\$	6.00	\$	58,168	
503	Lime Treated Subgrade (12" depth)	18,361	SY	\$	3.46	\$	63,529	
603	18" Flexible Base	18,361	SY	\$	56.20	\$	1,031,894	
703	6' Concrete Sidewalk (4" depth)	4,407	SY	\$	62.92	\$	277,267	
803	Machine Laid Curb & Gutter	13,220	LF	\$	22.37	\$	295,731	
903	Turn Lanes and Median Openings	675	SY	\$	118.58	\$	80,098	
	Paving Construction Cost Subtotal							

Major	Construction Component Allowa	nces**:				
	Item Description	Notes	Allowance		Item Cost	
	Traffic Control	Construction Phase Traffic Control	5%	\$	106,387	
$\sqrt{}$	√ Pavement Markings/Signs/Posts Includes Striping/Signs for Bicycle Facilities 4%					
	√ Roadway Drainage Standard Internal System 30%					
	\$	127,665				
	√ Water Minor Adjustments 3%					
	√ Sewer Minor Adjustments 2%					
	√ Landscaping and Irrigation 6%					
**Allow	\$	1,191,536				
	\$	3,319,279				
	\$	331,928				
	\$	365,121				
		Prep ROW	4%	\$	132,771	
		Construction C	ost TOTAL:	\$	4,150,000	

Impact Fee Project Cost Sur	Impact Fee Project Cost Summary						
Item Description	Notes:		Allowance		Item Cost		
Construction:			-	\$	4,150,000		
Engineering/Survey/Testing:			16%	\$	664,000		
Inspection			3.5%	\$	145,250		
ROW/Easement Acquisition:			15%	\$	622,500		
Impact Fee Project Cost TOTAL				\$	5,582,000		

NOTE: The planning level cost projections listed in this appendix have been developed for Rough Proportionality calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

updated: 6/20/2023

Project Information:Description: Access ManagementProject No.A-18Name:SH 304Construction of a 4 lane highway arterial with a median with

Limits: SH 21 EBFR to Hunters Point Dr

Impact Fee Class: State Highway System

Ultimate Class: 4D\_(110) Length (If): 2,925 curb and gutter, underground drainage, and 6' sidewalks on

both sides of the street.

Roa	dway Construction Cost Projection					
No.	Item Description	Quantity	Unit	Uı	nit Price	Item Cost
101	Unclassified Street Excavation (3' depth)	17,550	CY	\$	8.73	\$ 153,212
201	Earthwork/Topsoil (6" depth)	20,150	SY	\$	1.83	\$ 36,875
301	6" Asphalt (Type C)	936	TON	\$	140.87	\$ 131,854
401	Asphalt Prime Coat	9,360	GAL	\$	6.00	\$ 56,160
501	Lime Treated Subgrade (12" depth)	17,550	SY	\$	3.46	\$ 60,723
601	18" Flexible Base	17,550	SY	\$	56.20	\$ 986,310
701	6' Concrete Sidewalk (4" depth)	3,900	SY	\$	62.92	\$ 245,388
801	Machine Laid Curb & Gutter	11,700	LF	\$	22.37	\$ 261,729
901	Turn Lanes and Median Openings	598	SY	\$	123.94	\$ 74,091
		Paving	Construction	Cost	Subtotal:	\$ 2,006,341

Paving Construction Cost Subtotal: \$ 2,006,341

Construction Cost TOTAL:

	Item Description	Notes	Allowance		Item Cost		
$\sqrt{}$	Traffic Control	Construction Phase Traffic Control	5%	\$	100,317		
√ Pavement Markings/Signs/Posts Includes Striping/Signs for Bicycle Facilities 4%							
√ Roadway Drainage Standard Internal System 30%							
√ Illumination 6%							
√ Water Minor Adjustments 3%					60,190		
	Sewer	Minor Adjustments	2%	\$	40,127		
	Landscaping and Irrigation		6%	\$	120,380		
**Allowances based on % of Paving Construction Cost Subtotal Allowance Subtotal:							
Paving and Allowance Subtotal:							
Construction Contingency: 10%							
		Mobilization	11%	\$	344,288		
Prep ROW 4% 9							

Impact Fee Project Cost Sur	Impact Fee Project Cost Summary					
Item Description	Notes:	Allowance		Item Cost		
Construction:		-	\$	3,913,000		
Engineering/Survey/Testing:		16%	\$	626,080		
Inspection		3.5%	\$	136,955		
ROW/Easement Acquisition:		0%	\$	-		
	<b>\$\$</b>	935,200				

NOTE: The planning level cost projections listed in this appendix have been developed for Rough Proportionality calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.

The planning level cost projections shall not supersede the City's design standards or the determination of the City Engineer for a specific project.

3,913,000

#### **EXHIBIT C**

#### City of Bastrop - 2023 Transportation Impact Fee Study

Capital Improvement Plan for Transportation Impact Fees Summary of Conceptual Level Projects

Roadway Improvements - Service Area B

<u>#</u>	Type	IF Classification	<u>Project</u>		<u>Limits</u>	Pr	oject Cost	Total Cost in
				<u>From</u>	<u>To</u>			Service Area
B-1	New	2U_(50)	Carter St	Mesquite St	Magnolia St	\$	707,000	\$ 707,000
B-2	New	2U_(50)	Chambers St	Cedar St	Farm St	\$	1,172,000	\$ 1,172,000
B-3	New	2U_(50)	Future Collector A	Pitt St	Future Collector B	\$	893,000	\$ 893,000
B-4	New	2U_(50)	Future Collector B	Lost Pines Ave	SH 71	\$	764,000	\$ 764,000
B-5	New	2U_(50)	Future Collector C	Technology Drive extension	City Limits	\$	695,000	\$ 695,000
B-6	New	2U_(50)	Future Collector D	Jackson St extension	420' E of Jackson St extension	\$	326,000	\$ 326,000
B-7	New	4D_(80)	Hasler Blvd (3)	Colorado River	Willow St	\$	2,817,000	\$ 2,817,000
B-8	New	4D_(80)	Jackson St (1)	Jackson St (existing)	1,260' S of Jackson St	\$	2,299,000	\$ 2,299,000
B-9	New	2U_(50)	Jasper St (1)	Jackson St	930' E of Jackson St	\$	722,000	\$ 722,000
B-10	New	2U_(50)	Jasper St (2)	930' E of Jackson St	Hidden Hollow Ct	\$	2,087,000	\$ 2,087,000
B-11	New	2U_(50)	Majestic Pine Dr	Majestic Pine Dr (existing)	Mauna Loa Ln	\$	404,000	\$ 404,000
B-12	New	2U_(50)	Mauna Loa Ln (1)	Pine Lodge Dr	Briar Forest Dr	\$	3,890,000	\$ 3,890,000
B-13	New	3U_(56)	Mesquite St (1)	800' W of Wilson St	Wilson St	\$	701,000	\$ 701,000
B-14	New	3U_(56)	Mesquite St (2)	SH 95	Piney Ridge Dr	\$	1,954,000	\$ 1,954,000
B-15	New	2U_(50)	Pitt St	SH 71	Jasper St	\$	401,000	\$ 401,000
B-16	New	3U_(56)	South Street (1)	Lovers Lane	South St (existing)	\$	1,553,000	\$ 1,553,000
B-17	New	3U_(56)	South Street (2)	1,200' E of Jackson St	Mauna Loa Ln	\$	996,000	\$ 996,000
B-18	New	2U_(50)	Technology Drive (1)	Mill St	Business Park Dr	\$	586,000	\$ 586,000
B-19	New	2U_(50)	Technology Drive (2)	Technology Drive (existing)	City Limits	\$	1,885,000	\$ 1,885,000
B-20	New	2U_(50)	Walnut Street	Martin Luther King Dr	SH 21	\$	907,000	\$ 907,000
B-21	Widening	4D_(80)	Jackson St (2)	SH 21	South St	\$	500,000	\$ 500,000
B-22	Widening	3U_(56)	Lovers Ln	City Limits	College St	\$	10,000,000	\$ 10,000,000
B-23	Widening	2U_(50)	Mauna Loa Ln (2)	Briar Forest Dr	Tahitian Dr	\$	300,000	\$ 300,000
B-24	Widening	3U_(56)	Mesquite St (3)	Wilson St	SH 95	\$	300,000	\$ 300,000
B-25	Widening	4D_(110)	SH 95 (1)	Mesquite St	700' S of Mesquite St	\$	300,000	\$ 300,000
B-26	Widening	4D_(110)	SH 95 (2)	700' S of Mesquite St	Hawthorne St	\$	2,000,000	\$ 2,000,000
B-27	Widening	4D_(110)	SH 95 (3)	Hawthorne St	Cedar St	\$	2,000,000	\$ 2,000,000
B-28	Widening	4D_(110)	SH 95 (4)	Cedar St	Spring St	\$	754,000	\$ 754,000
B-29	Widening	4D_(110)	SH 95 (5)	Farm St	Chestnut St/SH 21	\$	348,000	\$ 348,000
B-30	Widening	3U_(56)	South Street (3)	650' W of Jackson St	1,200' E of Jackson St	\$	1,544,000	\$ 1,544,000
B-31	Access Management	4D_(110)	SH 21 (1)	Chestnut St	Walnut St	\$	632,000	\$ 632,000
B-32	Access Management	4D_(110)	SH 21 (2)	Walnut St	SH 21 WBFR	\$	902,000	
B-33	Access Management	4D (110)	SH 95 (6)	SH 21 WBFR	SH 21 EBFR	\$	232,000	

#### **Intersection Improvements**

I-8	Traffic Signal	Mesquite St & SH 95	\$ 500,000	\$ 500,000
I-9	Traffic Signal	SH 95 & Cedar St	\$ 500,000	\$ 500,000

NOTE: The planning level cost projections listed in this appendix have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop. The planning level cost projections shall not supersede the City's design standards or the determination of the City Engineer for a specific project.

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

6/20/2023 updated:

**Project Information:** Description: New Project No. **B-1** 

Name: Carter St Construction of a 2 lane collector, underground drainage,

Limits: Mesquite St to Magnolia St and 5' sidewalks on both sides of the street.

Impact Fee Class: **Local Connector Street** 

**Ultimate Class:** 2U\_(50) Length (If): 910

lo. Item Description		Quantity	Unit	Ur	nit Price		Item Cost
04 Unclassified Street Excavation	(2' depth)	2,427	CY	\$	8.73	\$	21,18
204 Earthwork/Topsoil (6" depth)		2,022	SY	\$	1.83	\$	3,70
3" Asphalt (Type C)		182	TON	\$	140.87	\$	25,638
04 Asphalt Prime Coat		1,820	GAL	\$	6.00	\$	10,920
Lime Treated Subgrade (12" de	pth)	3,640	SY	\$	3.46	\$	12,59
10" Flexible Base		3,640	SY	\$	19.70	\$	71,708
'04 6' Concrete Sidewalk (4" depth)		1,011	SY	\$	62.92	\$	63,619
Machine Laid Curb & Gutter		1,820	LF	\$	22.37	\$	40,713
004 Turn Lanes and Median Openir	ngs	0	SY	\$	63.33	\$	
		Paving	Construction	COSI	Subtotal.	Ψ	230,07
lajor Construction Component Allo		Paving	Construction				250,079
Item Description	Notes	Paving	Construction		lowance		Item Cost
Item Description Traffic Control	Notes  None Anticipated				lowance	\$	Item Cost
Item Description  Traffic Control  √ Pavement Markings/Signs/Post	Notes  None Anticipated Includes Striping/Signs	s for Bicycle Facilties			lowance 0% 4%	\$	Item Cost
Item Description  Traffic Control  √ Pavement Markings/Signs/Post	Notes  None Anticipated	s for Bicycle Facilties			lowance 0% 4% 30%	\$ \$ \$	10,003 75,024
Item Description  Traffic Control  √ Pavement Markings/Signs/Post √ Roadway Drainage	Notes  None Anticipated  Includes Striping/Signs Standard Internal Syst	s for Bicycle Facilties			lowance 0% 4% 30% 6%	\$ \$ \$	10,003 75,024 15,009
Item Description  Traffic Control  √ Pavement Markings/Signs/Post √ Roadway Drainage √ Illumination	Notes  None Anticipated Includes Striping/Signs Standard Internal Syst Minor Adjustments	s for Bicycle Facilties			lowance 0% 4% 30%	\$ \$ \$ \$	10,000 75,02 15,000 7,500
Item Description  Traffic Control  √ Pavement Markings/Signs/Post √ Roadway Drainage √ Illumination √ Water √ Sewer	Notes  None Anticipated  Includes Striping/Signs Standard Internal Syst	s for Bicycle Facilties			lowance 0% 4% 30% 6% 3%	\$ \$ \$ \$ \$	10,003 75,024 15,008 7,502 5,002
Item Description  Traffic Control  √ Pavement Markings/Signs/Post √ Roadway Drainage √ Illumination √ Water	Notes  None Anticipated  Includes Striping/Signs Standard Internal Syst  Minor Adjustments Minor Adjustments	s for Bicycle Facilties	S	All	lowance 0% 4% 30% 6% 3% 2%	\$ \$ \$ \$ \$ \$	10,003 75,024 15,009 7,502 5,002 15,009
Item Description  Traffic Control  ✓ Pavement Markings/Signs/Post ✓ Roadway Drainage ✓ Illumination ✓ Water ✓ Sewer ✓ Landscaping and Irrigation	Notes  None Anticipated  Includes Striping/Signs Standard Internal Syst  Minor Adjustments Minor Adjustments	s for Bicycle Facilties	S	All	lowance 0% 4% 30% 6% 3% 2% 6%	\$ \$ \$ \$ \$ \$	
Item Description  Traffic Control  ✓ Pavement Markings/Signs/Post ✓ Roadway Drainage ✓ Illumination ✓ Water ✓ Sewer ✓ Landscaping and Irrigation	Notes  None Anticipated  Includes Striping/Signs Standard Internal Syst  Minor Adjustments Minor Adjustments	s for Bicycle Facilties em	S	All	lowance	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,000 75,02- 15,000 7,500 5,000 15,000

Impact Fee Project Cost Sur	nmary			
Item Description	Notes:		Allowance	Item Cost
Construction:			-	\$ 473,000
Engineering/Survey/Testing:			16%	\$ 75,680
Inspection			3.5%	\$ 16,555
ROW/Easement Acquisition:			30%	\$ 141,900
		Impact Fee Project C	ost TOTAL	\$ 707,000

Mobilization

Prep ROW

**Construction Cost TOTAL:** 

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11% \$

4%

41,538

15,105

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection

Kimley-Horn and Associates, Inc.

updated: 6/20/2023

**B-2** 

Project Information: Description: New Project No.

Name: Chambers St Construction of a 2 lane collector, undergo

Name: Chambers St Construction of a 2 lane collector, underground drainage,
Limits: Cedar St to Farm St and 5' sidewalks on both sides of the street.

Impact Fee Class: Local Connector Street

Ultimate Class: 2U\_(50) Length (If): 1,510

Road	dway Construction Cost Projection					
No.	Item Description	Quantity	Unit	Un	it Price	Item Cost
104	Unclassified Street Excavation (2' depth)	4,027	CY	\$	8.73	\$ 35,153
204	Earthwork/Topsoil (6" depth)	3,356	SY	\$	1.83	\$ 6,141
304	3" Asphalt (Type C)	302	TON	\$	140.87	\$ 42,543
404	Asphalt Prime Coat	3,020	GAL	\$	6.00	\$ 18,120
504	Lime Treated Subgrade (12" depth)	6,040	SY	\$	3.46	\$ 20,898
604	10" Flexible Base	6,040	SY	\$	19.70	\$ 118,988
704	6' Concrete Sidewalk (4" depth)	1,678	SY	\$	62.92	\$ 105,566
804	Machine Laid Curb & Gutter	3,020	LF	\$	22.37	\$ 67,557
904	Turn Lanes and Median Openings	0	SY	\$	63.33	\$ -

Paving Construction Cost Subtotal: \$ 414,966

**Construction Cost TOTAL** 

Major	<b>Construction Component Allowa</b>	ances**:				
	Item Description	Notes	Allowance		Item Cost	
	Traffic Control	None Anticipated	0%	\$	-	
$\checkmark$	Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$	16,599	
$\checkmark$	Roadway Drainage	Standard Internal System	30%	\$	124,490	
$\checkmark$	Illumination		6%	\$	24,898	
$\checkmark$	Water	Minor Adjustments	3%	\$	12,449	
$\checkmark$	Sewer	Minor Adjustments	2%	\$	8,299	
	Landscaping and Irrigation		6%	\$	24,898	
**Allow	ances based on % of Paving Construction C	Cost Subtotal Allowa	nce Subtotal:	\$	211,633	
		Paving and Allowa	nce Subtotal:	\$	626,598	
		Construction Contingency:	10%	\$	62,660	
	Mobilization 11%					
	Prep ROW 4%					

Impact Fee Project Cost Sun	nmary			
Item Description	Notes:		Allowance	Item Cost
Construction:			-	\$ 784,000
Engineering/Survey/Testing:			16%	\$ 125,440
Inspection			3.5%	\$ 27,440
ROW/Easement Acquisition:			30%	\$ 235,200
		Impact Fee Project C	Cost TOTAL	\$ 1,172,000

NOTE: The planning level cost projections listed in this appendix have been developed for Rough Proportionality calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.

The planning level cost projections shall not supersede the City's design standards or the determination of the City Engineer for a specific project.

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection

Kimley-Horn and Associates, Inc.

updated: 6/20/2023

Project Information:Description:NewProject No.B-3Name:Future Collector AConstruction of a 2 lane collector, underground drainage,

Limits: Pitt St to Future Collector B Impact Fee Class: Local Connector Street

Ultimate Class: 2U\_(50) Length (If): 1,150

Roa	dway Construction Cost Projection					
No.	Item Description	Quantity	Unit	Uı	nit Price	Item Cost
104	Unclassified Street Excavation (2' depth)	3,067	CY	\$	8.73	\$ 26,772
204	Earthwork/Topsoil (6" depth)	2,556	SY	\$	1.83	\$ 4,677
304	3" Asphalt (Type C)	230	TON	\$	140.87	\$ 32,400
404	Asphalt Prime Coat	2,300	GAL	\$	6.00	\$ 13,800
504	Lime Treated Subgrade (12" depth)	4,600	SY	\$	3.46	\$ 15,916
604	10" Flexible Base	4,600	SY	\$	19.70	\$ 90,620
704	6' Concrete Sidewalk (4" depth)	1,278	SY	\$	62.92	\$ 80,398
804	Machine Laid Curb & Gutter	2,300	LF	\$	22.37	\$ 51,451
904	Turn Lanes and Median Openings	0	SY	\$	63.33	\$ -

Paving Construction Cost Subtotal: \$ 316,034

and 5' sidewalks on both sides of the street.

Item Description	Notes	Allowance		Item Cost
Traffic Control	None Anticipated	0%	\$	
√ Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$	12,64
√ Roadway Drainage	Standard Internal System	30%	\$	94,81
√ Illumination		6%	\$	18,96
√ Water	Minor Adjustments	3%	\$	9,48
√ Sewer	Minor Adjustments	2%	\$	6,32
√ Landscaping and Irrigation		6%	\$	18,96
Allowances based on % of Paving Construction C	Cost Subtotal Allowa	nce Subtotal:	\$	161,17
	Paving and Allowa	nce Subtotal:	\$	477,21
	Construction Contingency:	10%	\$	47,72
Mobilization 11%				52,49
	Prep ROW	4%	\$	19,08
	Construction C			597,00

Impact Fee Project Cost Sur	nmary			
Item Description	Notes:		Allowance	Item Cost
Construction:			-	\$ 597,000
Engineering/Survey/Testing:			16%	\$ 95,520
Inspection			3.5%	\$ 20,895
ROW/Easement Acquisition:			30%	\$ 179,100
		Impact Fee Project C	Cost TOTAL	\$ 893,000

NOTE: The planning level cost projections listed in this appendix have been developed for Rough Proportionality calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

6/20/2023 updated:

**B-4** 

**Project Information:** Description: New Project No. Name: Future Collector B Construction of a 2 lane collector, underground drainage,

Limits: Lost Pines Ave to SH 71 Impact Fee Class: Local Connector Street

**Ultimate Class:** 2U\_(50) Length (If): 985

and 5' sidewalks on both sides of the street.

No.	Item Description	Quantity	Unit	Uı	nit Price		Item Cost
104	Unclassified Street Excavation (2' depth)	2,627	CY	\$	8.73	\$	22,931
204	Earthwork/Topsoil (6" depth)	2,189	SY	\$	1.83	\$	4,006
304	3" Asphalt (Type C)	197	TON	\$	140.87	\$	27,751
404	Asphalt Prime Coat	1,970	GAL	\$	6.00	\$	11,820
504	Lime Treated Subgrade (12" depth)	3,940	SY	\$	3.46	\$	13,632
604	10" Flexible Base	3,940	SY	\$	19.70	\$	77,618
704	6' Concrete Sidewalk (4" depth)	1,094	SY	\$	62.92	\$	68,862
804	Machine Laid Curb & Gutter	1,970	LF	\$	22.37	\$	44,069
904	Turn Lanes and Median Openings	0	SY	\$	63.33	\$	-
		Doving	Construction	Coot	Cubtotali	¢	270.60

Paving Construction Cost Subtotal: \$	270,690
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Item Description	Notes	Allowance	 Item Cost
Traffic Control	None Anticipated	0%	\$
√ Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$ 10,82
√ Roadway Drainage	Standard Internal System	30%	\$ 81,20
√ Illumination		6%	\$ 16,24
√ Water	Minor Adjustments	3%	\$ 8,12
√ Sewer	Minor Adjustments	2%	\$ 5,4
√ Landscaping and Irrigation		6%	\$ 16,24
lowances based on % of Paving Construction C	Cost Subtotal Allowa	ince Subtotal:	\$ 138,0
	Paving and Allowa	nce Subtotal:	\$ 408,7
	Construction Contingency:	10%	\$ 40,8
	Mobilization	11%	\$ 44,9
	Prep ROW	4%	\$ 16,3

Impact Fee Project Cost Sur	nmary				
Item Description	Notes:		Allowance		Item Cost
Construction:			-	\$	511,000
Engineering/Survey/Testing:			16%	\$	81,760
Inspection			3.5%	\$	17,885
ROW/Easement Acquisition:			30%	\$	153,300
		Impact Fee Project C	Cost TOTAL	<b>\$</b>	764,000

NOTE: The planning level cost projections listed in this appendix have been developed for Rough Proportionality calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection

Kimley-Horn and Associates, Inc.

updated: 6/20/2023

Project Information: Description: New Project No. B-5

Name: Future Collector C Construction of a 2 lane collector, underground drainage,

Limits: Technology Drive extension to City Limits

Impact Fee Class: Local Connector Street

Ultimate Class: 2U\_(50) Length (If): 895

Roa	dway Construction Cost Projection					
No.	Item Description	Quantity	Unit	U	nit Price	Item Cost
104	Unclassified Street Excavation (2' depth)	2,387	CY	\$	8.73	\$ 20,836
204	Earthwork/Topsoil (6" depth)	1,989	SY	\$	1.83	\$ 3,640
304	3" Asphalt (Type C)	179	TON	\$	140.87	\$ 25,216
404	Asphalt Prime Coat	1,790	GAL	\$	6.00	\$ 10,740
504	Lime Treated Subgrade (12" depth)	3,580	SY	\$	3.46	\$ 12,387
604	10" Flexible Base	3,580	SY	\$	19.70	\$ 70,526
704	6' Concrete Sidewalk (4" depth)	994	SY	\$	62.92	\$ 62,570
804	Machine Laid Curb & Gutter	1,790	LF	\$	22.37	\$ 40,042
904	Turn Lanes and Median Openings	0	SY	\$	63.33	\$ -

Paving Construction Cost Subtotal: \$ 245,957

and 5' sidewalks on both sides of the street.

Item Description	Notes	Allowance		Item Cost
Traffic Control	None Anticipated	0%	\$	
Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$	9,83
Roadway Drainage	Standard Internal System	30%	\$	73,78
Illumination		6%	\$	14,75
Water	Minor Adjustments	3%	\$	7,37
Sewer	Minor Adjustments	2%	\$	4,91
Landscaping and Irrigation		6%	\$	14,75
lowances based on % of Paving Construction (	Cost Subtotal Allowa	ance Subtotal:	\$	125,43
	Paving and Allowa	ance Subtotal:	\$	371,39
	Construction Contingency:	10%	\$	37,13
	Mobilization	11%	\$	40,85
	Prep ROW	4%	\$	14,85
	Construction C	TOTAL	•	465,00

Impact Fee Project Cost Summary								
Item Description	Notes:		Allowance		Item Cost			
Construction:			-	\$	465,000			
Engineering/Survey/Testing:			16%	\$	74,400			
Inspection			3.5%	\$	16,275			
ROW/Easement Acquisition:			30%	\$	139,500			
		Impact Fee Project C	ost TOTAL	\$	695,000			

NOTE: The planning level cost projections listed in this appendix have been developed for Rough Proportionality calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

updated: 6/20/2023

Project Information: Description: New Project No. B-6

Name: Future Collector D Construction of a 2 lane collector, underground drainage,

Limits: Jackson St extension to 420' E of Jacksc and 5' sidewalks on both sides of the street.

Impact Fee Class: Local Connector Street

Ultimate Class: 2U\_(50) Length (If): 420

Road	dway Construction Cost Pro	jection					
No.	Item Description		Quantity	Unit	Unit Price		Item Cost
104	Unclassified Street Excavation (2'	depth)	1,120	CY	\$ 8.73	\$	9,778
204	Earthwork/Topsoil (6" depth)		933	SY	\$ 1.83	\$	1,708
304	3" Asphalt (Type C)		84	TON	\$ 140.87	\$	11,833
404	Asphalt Prime Coat		840	GAL	\$ 6.00	\$	5,040
504	Lime Treated Subgrade (12" depth	1)	1,680	SY	\$ 3.46	\$	5,813
604	10" Flexible Base		1,680	SY	\$ 19.70	\$	33,096
704	6' Concrete Sidewalk (4" depth)		467	SY	\$ 62.92	\$	29,363
804	Machine Laid Curb & Gutter		840	LF	\$ 22.37	\$	18,791
904	Turn Lanes and Median Openings		0	SY	\$ 63.33	\$	-
			Paving	Construction (	Cost Subtotal:	\$	115,421
Major	<b>Construction Component Allowa</b>						
	Item Description	Notes			Allowance		Item Cost
	Traffic Control	None Anticipated			0%	\$	-
$\sqrt{}$	Pavement Markings/Signs/Posts	Includes Striping/Signs for	or Bicycle Facilties	S	4%	\$	4,617
$\sqrt{}$	Roadway Drainage	Standard Internal System	n		30%	\$	34,626
$\sqrt{}$	Illumination				6%	\$	6,925
	Water	Minor Adjustments			3%	\$	3,463
$\sqrt{}$	Sewer	Minor Adjustments			2%	\$	2,308
	Landscaping and Irrigation				6%	•	6,925
**Allow	ances based on % of Paving Construction C	ost Subtotal		Allowa	ince Subtotal:	\$	58,865
				ing and Allowa			174,286
			Construction	Contingency:		\$	17,429
				Mobilization		\$	19,171
				Prep ROW		\$	6,971
			Co	nstruction C	ost TOTAL:	\$	218,000

Impact Fee Project Cost Summary								
Item Description	Notes:		Allowance		Item Cost			
Construction:			-	\$	218,000			
Engineering/Survey/Testing:			16%	\$	34,880			
Inspection			3.5%	\$	7,630			
ROW/Easement Acquisition:			30%	\$	65,400			
		Impact Fee Project C	Cost TOTAL	\$	326,000			

NOTE: The planning level cost projections listed in this appendix have been developed for Rough Proportionality calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

6/20/2023 updated:

**Project Information:** Description: New Project No. **B-7** Name: Hasler Blvd (3) Construction of a 4 lane arterial with a median with curb and Limits: Colorado River to Willow St

Impact Fee Class: Primary Multimodal Street B

**Ultimate Class:** 4D\_(80) Length (If): 1,550

gutter, underground drainage, and 6' sidewalks on both sides of the street.

Roac	lway Construction Cost Pro	ejection				
No.	Item Description		Quantity	Unit	Unit Price	Item Cost
103	Unclassified Street Excavation (3'	depth)	8,611	CY	\$ 8.73	\$ 75,175
203	Earthwork/Topsoil (6" depth)		6,200	SY	\$ 1.83	\$ 11,346
303	6" Asphalt (Type C)		455	TON	\$ 140.87	\$ 64,049
403	Asphalt Prime Coat		4,547	GAL	\$ 6.00	\$ 27,280
503	Lime Treated Subgrade (12" depth	1)	8,611	SY	\$ 3.46	\$ 29,794
603	18" Flexible Base		8,611	SY	\$ 56.20	\$ 483,944
703	6' Concrete Sidewalk (4" depth)		2,067	SY	\$ 62.92	\$ 130,035
803	Machine Laid Curb & Gutter		6,200	LF	\$ 22.37	\$ 138,694
903	Turn Lanes and Median Openings		317	SY	\$ 118.58	\$ 37,565
			Paving	Construction (	Cost Subtotal:	\$ 997,882
Major	<b>Construction Component Allowa</b>	inces**:				
	Item Description	Notes			Allowance	Item Cost
	Traffic Control	None Anticipated			0%	\$ -
$\sqrt{}$	Pavement Markings/Signs/Posts	Includes Striping/Signs for	or Bicycle Faciltie	S	4%	\$ 39,915
$\sqrt{}$	Roadway Drainage	Standard Internal System	1		30%	\$ 299,365
$\sqrt{}$	Illumination				6%	\$ 59,873
$\sqrt{}$	Water	Minor Adjustments			3%	\$ 29,936
$\sqrt{}$	Sewer	Minor Adjustments			2%	\$ 19,958
$\sqrt{}$	Landscaping and Irrigation				6%	\$ 59,873
**Allowa	ances based on % of Paving Construction C	ost Subtotal		Allowa	nce Subtotal:	\$ 508,920
			Pav	ving and Allowa	nce Subtotal:	\$ 1,506,802
			Construction	n Contingency:	10%	150,680
				Mobilization		\$ 165,748
				Prep ROW	4%	\$ 60,272
			Co	nstruction C	ost TOTAL:	\$ 1,884,000

Impact Fee Project Cost Summary									
Item Description	Notes:		Allowance		Item Cost				
Construction:			-	\$	1,884,000				
Engineering/Survey/Testing:			16%	\$	301,440				
Inspection			3.5%	\$	65,940				
ROW/Easement Acquisition:			30%	\$	565,200				
		Impact Fee Project C	Cost TOTAL	\$	2,817,000				

NOTE: The planning level cost projections listed in this appendix have been developed for Rough Proportionality calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.

The planning level cost projections shall not supersede the City's design standards or the determination of the City Engineer for a specific project.

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

6/20/2023 updated:

**Project Information:** Description: New Project No. **B-8** Name: Jackson St (1) Construction of a 4 lane arterial with a median with curb and Limits: Jackson St (existing) to 1,260' S of Jackson St

Impact Fee Class: Primary Multimodal Street B

**Ultimate Class:** 4D\_(80) Length (If): 1,265

gutter, underground drainage, and 6' sidewalks on both

sides of the street.

No.	Item Description	Quantity	Unit	U	nit Price	Item Cost
103	Unclassified Street Excavation (3' depth)	7,028	CY	\$	8.73	\$ 61,353
203	Earthwork/Topsoil (6" depth)	5,060	SY	\$	1.83	\$ 9,260
303	6" Asphalt (Type C)	371	TON	\$	140.87	\$ 52,272
403	Asphalt Prime Coat	3,711	GAL	\$	6.00	\$ 22,264
503	Lime Treated Subgrade (12" depth)	7,028	SY	\$	3.46	\$ 24,316
603	18" Flexible Base	7,028	SY	\$	56.20	\$ 394,961
703	6' Concrete Sidewalk (4" depth)	1,687	SY	\$	62.92	\$ 106,125
803	Machine Laid Curb & Gutter	5,060	LF	\$	22.37	\$ 113,192
903	Turn Lanes and Median Openings	259	SY	\$	118.58	\$ 30,658
		Paving	Construction	Cost	Subtotal:	\$ 814,401

		· ·		,
Major	Construction Component Allowa	nces**:		
	Item Description	Notes	Allowance	Item Cost
	Traffic Control	None Anticipated	0%	\$ -
$\sqrt{}$	Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$ 32,576
$\sqrt{}$	Roadway Drainage	Standard Internal System	30%	\$ 244,320
$\sqrt{}$	Illumination		6%	\$ 48,864
$\checkmark$	Water	Minor Adjustments	3%	\$ 24,432
$\checkmark$	Sewer	Minor Adjustments	2%	\$ 16,288
$\sqrt{}$	Landscaping and Irrigation		6%	\$ 48,864
**Allow	ances based on % of Paving Construction C	ost Subtotal Allowa	nce Subtotal:	\$ 415,344
		Paving and Allowa	nce Subtotal:	\$ 1,229,745
		Construction Contingency:	10%	\$ 122,975
		Mobilization	11%	\$ 135,272
		Prep ROW	4%	\$ 49,190
		Construction C	ost TOTAL:	\$ 1,538,000

Impact Fee Project Cost Summary								
Item Description	Notes:		Allowance		Item Cost			
Construction:			-	\$	1,538,000			
Engineering/Survey/Testing:			16%	\$	246,080			
Inspection			3.5%	\$	53,830			
ROW/Easement Acquisition:			30%	\$	461,400			
		Impact Fee Project C	Cost TOTAL	\$	2,299,000			

NOTE: The planning level cost projections listed in this appendix have been developed for Rough Proportionality calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.

# 2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection

Kimley-Horn and Associates, Inc.

updated: 6/20/2023

Project Information: Description: New Project No. B-9

Name: Jasper St (1) Construction of a 2 lane collector, underground drainage,

Limits: Jackson St to 930' E of Jackson St and 5' sidewalks on both sides of the street.

Impact Fee Class: Local Connector Street

Ultimate Class: 2U\_(50) Length (If): 930

No.	Item Description		Quantity	Unit	Ur	nit Price		Item Cost
104	Unclassified Street Excavation (2'	depth)	2,480	CY	\$	8.73	\$	21,650
204	Earthwork/Topsoil (6" depth)		2,067	SY	\$	1.83	\$	3,782
304	3" Asphalt (Type C)		186	TON	\$	140.87	\$	26,202
404	Asphalt Prime Coat		1,860	GAL	\$	6.00	\$	11,160
504	Lime Treated Subgrade (12" depth	n)	3,720	SY	\$	3.46	\$	12,871
604	10" Flexible Base		3,720	SY	\$	19.70	\$	73,284
704	6' Concrete Sidewalk (4" depth)		1,033	SY	\$	62.92	\$	65,017
804	Machine Laid Curb & Gutter		1,860	LF	\$	22.37	\$	41,608
904	Turn Lanes and Median Openings	;	0	SY	\$	63.33	\$	-
			_					
Majo	r Construction Component Allowa	ances**:	_	_		-		_
Majo	r Construction Component Allowa Item Description	ances**:			All	owance		Item Cost
Majo					All	owance 0%	\$	Item Cost
Majo √	Item Description	Notes	for Bicycle Faciltie	s	All		\$	Item Cost - 10,223
,	Item Description Traffic Control	Notes None Anticipated		s	All	0%	\$ \$ \$	- 10,223
√,	Item Description Traffic Control Pavement Markings/Signs/Posts	Notes  None Anticipated Includes Striping/Signs		s	All	0% 4%	\$	- 10,223
√,	Item Description Traffic Control Pavement Markings/Signs/Posts Roadway Drainage	Notes  None Anticipated Includes Striping/Signs		s	All	0% 4% 30%	\$	- 10,223 76,672
√,	Item Description  Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination	Notes  None Anticipated Includes Striping/Signs Standard Internal Syste		s	All	0% 4% 30% 6%	\$	- 10,223 76,672 15,334
√,	Item Description  Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water	Notes  None Anticipated Includes Striping/Signs Standard Internal Syste Minor Adjustments		s	All	0% 4% 30% 6% 3%	\$	10,223 76,672 15,334 7,667 5,111
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Item Description Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water Sewer	Notes  None Anticipated Includes Striping/Signs Standard Internal Syste Minor Adjustments Minor Adjustments				0% 4% 30% 6% 3% 2%	\$ \$ \$ \$ \$ \$ s	10,223 76,672 15,334 7,667 5,111
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Item Description  Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water Sewer Landscaping and Irrigation	Notes  None Anticipated Includes Striping/Signs Standard Internal Syste Minor Adjustments Minor Adjustments	Pav		vance	0% 4% 30% 6% 3% 2% 6% Subtotal:	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 10,223 76,672 15,334 7,667 5,111 15,334

Impact Fee Project Cost Sur	Impact Fee Project Cost Summary								
Item Description	Notes:		Allowance		Item Cost				
Construction:			-	\$	483,000				
Engineering/Survey/Testing:			16%	\$	77,280				
Inspection			3.5%	\$	16,905				
ROW/Easement Acquisition:			30%	\$	144,900				
		Impact Fee Project C	ost TOTAL	\$	722,000				

Mobilization

Prep ROW

**Construction Cost TOTAL:** 

NOTE: The planning level cost projections listed in this appendix have been developed for Rough Proportionality calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.

The planning level cost projections shall not supersede the City's design standards or the determination of the City Engineer for a specific project.

4%

42,451

15,437

# 2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection

Kimley-Horn and Associates, Inc.

updated: 6/20/2023

Project Information:Description:NewProject No.B-10Name:Jasper St (2)Construction of a 2 lane collector, underground drainage,

Limits: 930' E of Jackson St to Hidden Hollow Ct

Impact Fee Class: Local Connector Street

Ultimate Class: 2U\_(50) Length (If): 2,690

Roa	dway Construction Cost Projection					
No.	Item Description	Quantity	Unit	Ur	nit Price	Item Cost
104	Unclassified Street Excavation (2' depth)	7,173	CY	\$	8.73	\$ 62,623
204	Earthwork/Topsoil (6" depth)	5,978	SY	\$	1.83	\$ 10,939
304	3" Asphalt (Type C)	538	TON	\$	140.87	\$ 75,788
404	Asphalt Prime Coat	5,380	GAL	\$	6.00	\$ 32,280
504	Lime Treated Subgrade (12" depth)	10,760	SY	\$	3.46	\$ 37,230
604	10" Flexible Base	10,760	SY	\$	19.70	\$ 211,972
704	6' Concrete Sidewalk (4" depth)	2,989	SY	\$	62.92	\$ 188,061
804	Machine Laid Curb & Gutter	5,380	LF	\$	22.37	\$ 120,351
904	Turn Lanes and Median Openings	0	SY	\$	63.33	\$ -

Paving Construction Cost Subtotal: \$ 739,244

and 5' sidewalks on both sides of the street.

Item Description	Notes	Allowance		Item Cost			
Traffic Control	None Anticipated	0%	\$	-			
√ Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$	29,570			
√ Roadway Drainage	Standard Internal System	30%	\$	221,773			
√ Illumination		6%	\$	44,355			
√ Water	Minor Adjustments	3%	\$	22,177			
√ Sewer	Minor Adjustments	2%	\$	14,785			
√ Landscaping and Irrigation		6%	\$	44,355			
Allowances based on % of Paving Construction C	Cost Subtotal Allowa	nce Subtotal:	\$	377,014			
	Paving and Allowa	nce Subtotal:	\$	1,116,258			
	Construction Contingency:	10%	\$	111,626			
Mobilization 11%							
	Prep ROW	4%	\$	44,650			
Construction Cost TOTAL:							

Impact Fee Project Cost Summary								
Item Description	Notes:		Allowance		Item Cost			
Construction:			-	\$	1,396,000			
Engineering/Survey/Testing:			16%	\$	223,360			
Inspection			3.5%	\$	48,860			
ROW/Easement Acquisition:			30%	\$	418,800			
		Impact Fee Project C	Cost TOTAL	\$	2,087,000			

NOTE: The planning level cost projections listed in this appendix have been developed for Rough Proportionality calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.

# 2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection

Kimley-Horn and Associates, Inc.

updated: 6/20/2023

Project Information:Description:NewProject No.B-11Name:Majestic Pine DrConstruction of a 2 lane collector, underground drainage,

Limits: Majestic Pine Dr (existing) to Mauna Loa Ln

Impact Fee Class: Local Connector Street

iiiipac	t i ee Class.	Local Confector Street				
Ultima	ite Class:	2U_(50)				
Lengt	h (lf):	520				
_						
Road	way Const	ruction Cost Projection				
No.	Item Descrip	tion	Quantity	Unit	Unit Price	Item Cost

Roa	dway Construction Cost Projection					
No.	Item Description	Quantity	Unit	Un	it Price	Item Cost
104	Unclassified Street Excavation (2' depth)	1,387	CY	\$	8.73	\$ 12,106
204	Earthwork/Topsoil (6" depth)	1,156	SY	\$	1.83	\$ 2,115
304	3" Asphalt (Type C)	104	TON	\$	140.87	\$ 14,650
404	Asphalt Prime Coat	1,040	GAL	\$	6.00	\$ 6,240
504	Lime Treated Subgrade (12" depth)	2,080	SY	\$	3.46	\$ 7,197
604	10" Flexible Base	2,080	SY	\$	19.70	\$ 40,976
704	6' Concrete Sidewalk (4" depth)	578	SY	\$	62.92	\$ 36,354
804	Machine Laid Curb & Gutter	1,040	LF	\$	22.37	\$ 23,265
904	Turn Lanes and Median Openings	0	SY	\$	63.33	\$ -

Paving Construction Cost Subtotal: \$

and 5' sidewalks on both sides of the street.

142,902

Major	Construction Component Allowa	nces**:		
	Item Description	Notes	Allowance	Item Cost
	Traffic Control	None Anticipated	0%	\$
$\checkmark$	Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$ 5,716
$\checkmark$	Roadway Drainage	Standard Internal System	30%	\$ 42,871
$\checkmark$	Illumination		6%	\$ 8,574
$\checkmark$	Water	Minor Adjustments	3%	\$ 4,287
$\checkmark$	Sewer	Minor Adjustments	2%	\$ 2,858
	Landscaping and Irrigation		6%	\$ 8,574
**Allow	ances based on % of Paving Construction C	ost Subtotal Allowa	nce Subtotal:	\$ 72,880
		Paving and Allowa	nce Subtotal:	\$ 215,782
		Construction Contingency:	10%	\$ 21,578
	\$ 23,736			
1		Prep ROW	4%	\$ 8,631
1		Construction C	ost TOTAL:	\$ 270,000

Impact Fee Project Cost Sur	nmary			
Item Description	Notes:		Allowance	Item Cost
Construction:			-	\$ 270,000
Engineering/Survey/Testing:			16%	\$ 43,200
Inspection			3.5%	\$ 9,450
ROW/Easement Acquisition:			30%	\$ 81,000
		Impact Fee Project C	Cost TOTAL	\$ 404,000

NOTE: The planning level cost projections listed in this appendix have been developed for Rough Proportionality calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection

Kimley-Horn and Associates, Inc.

updated: 6/20/2023

Project Information:Description:NewProject No.B-12Name:Mauna Loa Ln (1)Construction of a 2 lane collector, underground drainage,

Limits: Pine Lodge Dr to Briar Forest Dr

Impact Fee Class: Local Connector Street

Ultimate Class: 2U\_(50) Length (If): 5,015

No.	dway Construction Cost Projection Item Description	Quantity	Unit	Uı	nit Price	Item Cost
104	Unclassified Street Excavation (2' depth)	13,373	CY	\$	8.73	\$ 116,749
204	Earthwork/Topsoil (6" depth)	11,144	SY	\$	1.83	\$ 20,394
304	3" Asphalt (Type C)	1,003	TON	\$	140.87	\$ 141,293
404	Asphalt Prime Coat	10,030	GAL	\$	6.00	\$ 60,180
504	Lime Treated Subgrade (12" depth)	20,060	SY	\$	3.46	\$ 69,408
604	10" Flexible Base	20,060	SY	\$	19.70	\$ 395,182
704	6' Concrete Sidewalk (4" depth)	5,572	SY	\$	62.92	\$ 350,604
804	Machine Laid Curb & Gutter	10,030	LF	\$	22.37	\$ 224,371
904	Turn Lanes and Median Openings	0	SY	\$	63.33	\$ -

Paving Construction Cost Subtotal: \$ 1,378,181

and 5' sidewalks on both sides of the street.

	Item Description	Notes	Allowance	Item Cost
	Traffic Control	None Anticipated	0%	\$ -
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$ 55,127
	Roadway Drainage	Standard Internal System	30%	\$ 413,454
	Illumination		6%	\$ 82,691
	Water	Minor Adjustments	3%	\$ 41,345
	Sewer	Minor Adjustments	2%	\$ 27,564
	Landscaping and Irrigation		6%	\$ 82,691
**Allow	ances based on % of Paving Construction C	ost Subtotal Allowa	nce Subtotal:	\$ 702,872
		Paving and Allowa	nce Subtotal:	\$ 2,081,053
		Construction Contingency:	10%	\$ 208,105
	\$ 228,916			
l	\$ 83,242			
l	\$ 2,602,000			

Impact Fee Project Cost Sur	nmary			
Item Description	Notes:		Allowance	Item Cost
Construction:			-	\$ 2,602,000
Engineering/Survey/Testing:			16%	\$ 416,320
Inspection			3.5%	\$ 91,070
ROW/Easement Acquisition:			30%	\$ 780,600
		Impact Fee Project C	Cost TOTAL	\$ 3,890,000

NOTE: The planning level cost projections listed in this appendix have been developed for Rough Proportionality calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

6/20/2023 updated:

**Project Information:** Description: New Project No. **B-13** Name: Mesquite St (1) Construction of a 3 lane collector (2 lanes plus a center turn 800' W of Wilson St to Wilson St Limits:

Impact Fee Class: Primary Multimodal Street A

Roadway Construction Cost Projection

**Ultimate Class:** 3U\_(56) Length (If): 785

lane) with curb and gutter, underground drainage, and 6' sidewalks on both sides of the street.

Prep ROW

**Construction Cost TOTAL** 

Ruau		<i>,</i>				_	
No.	Item Description		Quantity	Unit	Unit Price		Item Cost
102	Unclassified Street Excavation (2'	depth)	2,442	CY	\$ 8.73	\$	21,321
202	Earthwork/Topsoil (6" depth)		1,744	SY	\$ 1.83	\$	3,192
302	3" Asphalt (Type C)		188	TON	\$ 140.87	\$	26,540
402	Asphalt Prime Coat		1,884	GAL	\$ 6.00	\$	11,304
502	Lime Treated Subgrade (12" depth	າ)	3,663	SY	\$ 3.46	\$	12,675
602	10" Flexible Base		3,663	SY	\$ 19.70	\$	72,168
702	6' Concrete Sidewalk (4" depth)		1,047	SY	\$ 62.92	\$	65,856
802	Machine Laid Curb & Gutter		1,570	LF	\$ 22.37	\$	35,121
902	Turn Lanes and Median Openings		0	SY	\$ 71.37	\$	-
			Paving	Construction (	Cost Subtotal:	\$	248,177
Maior	<b>Construction Component Allowa</b>	ances**·					
					_	_	
	Item Description	Notes			Allowance		Item Cost
		-			Allowance 0%	\$	Item Cost
<b>√</b>	Item Description	Notes	or Bicycle Faciltie	s		_	- 9,927
	Item Description Traffic Control	Notes None Anticipated	•	s	0%	\$	-
√ √	Item Description Traffic Control Pavement Markings/Signs/Posts	Notes  None Anticipated Includes Striping/Signs fo	•	s	0% 4%	\$	- 9,927
√ √	Item Description Traffic Control Pavement Markings/Signs/Posts Roadway Drainage	Notes  None Anticipated Includes Striping/Signs fo	•	s	0% 4% 30%	\$ \$ \$	9,927 74,453
√ √	Item Description Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination	Notes  None Anticipated Includes Striping/Signs fo Standard Internal System	•	s	0% 4% 30% 6%	\$ \$ \$ \$	9,927 74,453 14,891
\ \ \ \ \	Item Description Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water	Notes  None Anticipated Includes Striping/Signs for Standard Internal System Minor Adjustments	•	s	0% 4% 30% 6% 3%	\$ \$ \$ \$ \$ \$	9,927 74,453 14,891 7,445
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Item Description Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water Sewer	Notes  None Anticipated Includes Striping/Signs for Standard Internal System  Minor Adjustments Minor Adjustments	•		0% 4% 30% 6% 3% 2%	\$ \$ \$ \$ \$	9,927 74,453 14,891 7,445 4,964
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Item Description Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water Sewer Landscaping and Irrigation	Notes  None Anticipated Includes Striping/Signs for Standard Internal System  Minor Adjustments Minor Adjustments	•		0% 4% 30% 6% 3% 2% 6%	\$ \$ \$ \$ \$	9,927 74,453 14,891 7,445 4,964 14,891
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Item Description Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water Sewer Landscaping and Irrigation	Notes  None Anticipated Includes Striping/Signs for Standard Internal System  Minor Adjustments Minor Adjustments	n		0% 4% 30% 6% 3% 2% 6% ance Subtotal:	\$ \$ \$ \$ \$ \$ <b>\$</b>	9,927 74,453 14,891 7,445 4,964 14,891
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Item Description Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water Sewer Landscaping and Irrigation	Notes  None Anticipated Includes Striping/Signs for Standard Internal System  Minor Adjustments Minor Adjustments	Pav	Allowa	0% 4% 30% 6% 3% 2% 6% Ince Subtotal:	\$\$\$\$\$ <b>\$</b>	9,927 74,453 14,891 7,445 4,964 14,891
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Item Description Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water Sewer Landscaping and Irrigation	Notes  None Anticipated Includes Striping/Signs for Standard Internal System  Minor Adjustments Minor Adjustments	Pav	Allowa	0% 4% 30% 6% 3% 2% 6% ince Subtotal:	\$\$\$\$\$ <b>\$</b> \$\$	9,927 74,453 14,891 7,445 4,964 14,891 126,570

Impact Fee Project Cost Summary								
Item Description	Notes:		Allowance		Item Cost			
Construction:			-	\$	469,000			
Engineering/Survey/Testing:			16%	\$	75,040			
Inspection			3.5%	\$	16,415			
ROW/Easement Acquisition:			30%	\$	140,700			
		Impact Fee Project C	ost TOTAL	\$	701,000			

NOTE: The planning level cost projections listed in this appendix have been developed for Rough Proportionality calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.

The planning level cost projections shall not supersede the City's design standards or the determination of the City Engineer for a specific project.

14,990

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

updated: 6/20/2023

Project Information: Description: New Project No. B-14

Name: Mesquite St (2) Construction of a 3 lane collector (2 lanes plus a center turn lane) with curb and gutter, underground drainage, and 6'

Impact Fee Class: Primary Multimodal Street A

**Roadway Construction Cost Projection** 

Ultimate Class: 3U\_(56) Length (If): 2,190 lane) with curb and gutter, underground drainage, and 6' sidewalks on both sides of the street.

No.	Item Description		Quantity	Unit	Unit Price		Item Cost
102	Unclassified Street Excavation (2'	depth) 6,813 CY			\$ 8.73	\$	59,480
202	Earthwork/Topsoil (6" depth)		4,867	SY	\$ 1.83	\$	8,906
302	3" Asphalt (Type C)		526	TON	\$ 140.87	\$	74,041
402	Asphalt Prime Coat		5,256	GAL	\$ 6.00	\$	31,536
502	Lime Treated Subgrade (12" depth	1)	10,220	SY	\$ 3.46	\$	35,361
602	10" Flexible Base		10,220	SY	\$ 19.70	\$	201,334
702	6' Concrete Sidewalk (4" depth)		2,920	SY	\$ 62.92	\$	183,726
802	Machine Laid Curb & Gutter		4,380	LF	\$ 22.37	\$	97,981
902	Turn Lanes and Median Openings		0	SY	\$ 71.37	\$	-
			Paving	Construction (	Cost Subtotal:	\$	692,366
Major	Major Construction Component Allowances**:						
	Item Description	Notes			Allowance		Item Cost
	Traffic Control	None Anticipated			0%	\$	-
$\checkmark$	Pavement Markings/Signs/Posts	Includes Striping/Signs for	or Bicycle Faciltie	S	4%	\$	27,695
$\checkmark$	Roadway Drainage	Standard Internal System	า		30%	\$	207,710
$\checkmark$	Illumination				6%	\$	41,542
$\checkmark$	Water	Minor Adjustments			3%	\$	20,771
$\checkmark$	Sewer	Minor Adjustments			2%	\$	13,847
	Landscaping and Irrigation				6%	\$	41,542
**Allow	ances based on % of Paving Construction C	ost Subtotal		Allowa	nce Subtotal:	\$	353,107
Paving and Allowance Subtotal:						\$	1,045,472
			Construction	n Contingency:	10%	\$	104,547
				Mobilization	11%	\$	115,002
				Prep ROW	4%	\$	41,819
	· · · · · · · · · · · · · · · · · · ·					\$	1,307,000

Impact Fee Project Cost Sur				
Item Description	Notes:		Allowance	Item Cost
Construction:			-	\$ 1,307,000
Engineering/Survey/Testing:			16%	\$ 209,120
Inspection			3.5%	\$ 45,745
ROW/Easement Acquisition:			30%	\$ 392,100
		Impact Fee Project C	ost TOTAL	\$ 1,954,000

NOTE: The planning level cost projections listed in this appendix have been developed for Rough Proportionality calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

6/20/2023 updated:

Item Cost

**Unit Price** 

**Project Information:** Description: New Project No. B-15 Name: Pitt St Construction of a 2 lane collector, underground drainage, Limits:

Impact Fee Class: Local Connector Street

**Roadway Construction Cost Projection** 

**Ultimate Class:** 2U\_(50) Length (If): 515

Item Description

No.

SH 71 to Jasper St and 5' sidewalks on both sides of the street.

Unit

Quantity

104	Unclassified Street Excavation (2'	Unclassified Street Excavation (2' depth) 1,373 CY			\$ 8.73	\$	11,989
204	Earthwork/Topsoil (6" depth)		1,144	SY	\$ 1.83	\$	2,094
304	3" Asphalt (Type C)		103	TON	\$ 140.87	\$	14,510
404	Asphalt Prime Coat		1,030	GAL	\$ 6.00	\$	6,180
504	Lime Treated Subgrade (12" depth	٦)	2,060	SY	\$ 3.46	\$	7,128
604	10" Flexible Base		2,060	SY	\$ 19.70	\$	40,582
704	6' Concrete Sidewalk (4" depth)		572	SY	\$ 62.92	\$	36,004
804	Machine Laid Curb & Gutter		1,030	LF	\$ 22.37	\$	23,041
904	Turn Lanes and Median Openings	1	0	SY	\$ 63.33	\$	-
			Paving	Construction (	Cost Subtotal:	\$	141,528
Major							
	Item Description	Notes			Allowance		Item Cost
	Traffic Control	None Anticipated			0%	\$	-
$\sqrt{}$	Pavement Markings/Signs/Posts	Includes Striping/Signs fo	or Bicycle Faciltie	s	4%	\$	5,661
$\sqrt{}$	Roadway Drainage	Standard Internal System	1		30%	\$	42,458
	Illumination				6%	\$	8,492
	Water	Minor Adjustments			3%	\$	4,246
$\sqrt{}$	Sewer	Minor Adjustments			2%	\$	2,831
	Landscaping and Irrigation				6%	\$	8,492
**Allow	ances based on % of Paving Construction C	Cost Subtotal		Allowa	ince Subtotal:	\$	72,179
	Paving and Allowance Subtotal:						
			Construction	n Contingency:	10%	\$	21,371
				Mobilization	11%	\$	23,508
	Prep ROW 4%					\$	8,548
			Co	nstruction C	ost TOTAL:	\$	268,000

Impact Fee Project Cost Summary							
Item Description	Notes:		Allowance		Item Cost		
Construction:			-	\$	268,000		
Engineering/Survey/Testing:			16%	\$	42,880		
Inspection			3.5%	\$	9,380		
ROW/Easement Acquisition:			30%	\$	80,400		
		Impact Fee Project C	Cost TOTAL	\$	401,000		

NOTE: The planning level cost projections listed in this appendix have been developed for Rough Proportionality calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

6/20/2023 updated:

Project Information: Description: New Project No. **B-16** Name: South Street (1) Construction of a 3 lane collector (2 lanes plus a center turn Limits: Lovers Lane to South St (existing)

Impact Fee Class: Primary Multimodal Street A

Roadway Construction Cost Projection

**Ultimate Class:** 3U\_(56) Length (If): 1,740

lane) with curb and gutter, underground drainage, and 6' sidewalks on both sides of the street.

No.	Item Description		Quantity	Unit	Unit Price		Item Cost
102	Unclassified Street Excavation (2'	depth)	5,413	CY	\$ 8.73	\$	47,258
202	Earthwork/Topsoil (6" depth)	3,867 SY			\$ 1.83	\$	7,076
302	3" Asphalt (Type C)		418	TON	\$ 140.87	\$	58,827
402	Asphalt Prime Coat		4,176	GAL	\$ 6.00	\$	25,056
502	Lime Treated Subgrade (12" depth	n)	8,120	SY	\$ 3.46	\$	28,095
602	10" Flexible Base		8,120	SY	\$ 19.70	\$	159,964
702	6' Concrete Sidewalk (4" depth)		2,320	SY	\$ 62.92	\$	145,974
802	Machine Laid Curb & Gutter		3,480	LF	\$ 22.37	\$	77,848
902	Turn Lanes and Median Openings		0	SY	\$ 71.37	\$	-
			Paving	Construction (	Cost Subtotal:	\$	550,099
Major	Major Construction Component Allowances**:						
	Item Description	Notes			Allowance		Item Cost
	Traffic Control	None Anticipated			0%	\$	-
$\sqrt{}$	Pavement Markings/Signs/Posts	Includes Striping/Signs fo	or Bicycle Faciltie	s	4%	\$	22,004
$\sqrt{}$	Roadway Drainage	Standard Internal System	1		30%	\$	165,030
$\sqrt{}$	Illumination				6%		33,006
	Water	Minor Adjustments			3%	\$	16,503
	Sewer	Minor Adjustments			2%	\$	11,002
	Landscaping and Irrigation				6%		33,006
**Allowa	ances based on % of Paving Construction C	ost Subtotal		Allowa	ınce Subtotal:	\$	280,550
	Paving and Allowance Subtotal:						830,649
			Construction	n Contingency:	10%	\$	83,065
				Mobilization	11%		91,371
				Prep ROW			33,226
	Construction Cost TOTAL: \$						1,039,000

Impact Fee Project Cost Summary						
Item Description	Notes:		Allowance		Item Cost	
Construction:			-	\$	1,039,000	
Engineering/Survey/Testing:			16%	\$	166,240	
Inspection			3.5%	\$	36,365	
ROW/Easement Acquisition:			30%	\$	311,700	
		Impact Fee Project C	Cost TOTAL	\$	1,553,000	

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2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

6/20/2023 updated:

**Project Information:** Description: New Project No. **B-17** Name: South Street (2) Construction of a 3 lane collector (2 lanes plus a center turn Limits: 1,200' E of Jackson St to Mauna Loa Ln

Impact Fee Class: Primary Multimodal Street A

Pandway Construction Cost Projection

**Ultimate Class:** 3U\_(56) Length (If): 1,115

lane) with curb and gutter, underground drainage, and 6' sidewalks on both sides of the street.

**Construction Cost TOTAL** 

	way Construction Cost Pro	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
No.	Item Description		Quantity	Unit	Unit Pri	се		Item Cost
102	Unclassified Street Excavation (2'	depth)	3,469	CY	\$ 8	3.73	\$	30,283
202	Earthwork/Topsoil (6" depth)		2,478	SY	\$ 1	.83	\$	4,534
302	3" Asphalt (Type C)		268	TON	\$ 140	.87	\$	37,697
402	Asphalt Prime Coat		2,676	GAL	-	00.3	\$	16,056
502	Lime Treated Subgrade (12" depti	٦)	5,203	SY	\$ 3	3.46	\$	18,004
602	10" Flexible Base		5,203	SY	\$ 19	.70	\$	102,506
702	6' Concrete Sidewalk (4" depth)		1,487	SY	\$ 62	.92	\$	93,541
802	Machine Laid Curb & Gutter		2,230	LF	\$ 22	2.37	\$	49,885
902	Turn Lanes and Median Openings	1	0	SY	\$ 71	.37	\$	-
			Paving	Construction (	Cost Subte	otal:	\$	352,506
Major	<b>Construction Component Allowa</b>	ances**:						
	Item Description	Notes			Allowan	се		Item Cost
	Item Description Traffic Control				Allowan	се 0%	\$	Item Cost
√ √	•	Notes	or Bicycle Faciltie	s	Allowan		-	- 14,100
	Traffic Control	None Anticipated	•	s		0%	\$	-
√,	Traffic Control Pavement Markings/Signs/Posts	Notes  None Anticipated Includes Striping/Signs for	•	s		0% 4%	\$	14,100
√ √	Traffic Control Pavement Markings/Signs/Posts Roadway Drainage	Notes  None Anticipated Includes Striping/Signs for	•	s		0% 4% 30%	\$ \$ \$	14,100 105,752
√ √	Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination	Notes  None Anticipated Includes Striping/Signs for Standard Internal System	•	s		0% 4% 30% 6%	\$ \$ \$	14,100 105,752 21,150
√ √	Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water	Notes  None Anticipated Includes Striping/Signs for Standard Internal System Minor Adjustments	•	s		0% 4% 30% 6% 3%	\$ \$ \$ \$ \$	14,100 105,752 21,150 10,575
\ \ \ \ \	Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water Sewer	Notes  None Anticipated Includes Striping/Signs for Standard Internal System Minor Adjustments Minor Adjustments	•			0% 4% 30% 6% 3% 2% 6%	\$ \$ \$ \$ \$ \$ \$ \$	14,100 105,752 21,150 10,575 7,050
\ \ \ \ \	Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water Sewer Landscaping and Irrigation	Notes  None Anticipated Includes Striping/Signs for Standard Internal System Minor Adjustments Minor Adjustments	•		;	0% 4% 30% 6% 3% 2% 6%	\$ \$ \$ \$ \$ \$ \$ \$	14,100 105,752 21,150 10,575 7,050 21,150
\ \ \ \ \	Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water Sewer Landscaping and Irrigation	Notes  None Anticipated Includes Striping/Signs for Standard Internal System Minor Adjustments Minor Adjustments	n		nce Subto	0% 4% 30% 6% 3% 2% 6% otal:	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	14,100 105,752 21,150 10,575 7,050 21,150
\ \ \ \ \	Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water Sewer Landscaping and Irrigation	Notes  None Anticipated Includes Striping/Signs for Standard Internal System Minor Adjustments Minor Adjustments	Pa	Allowa	nce Subto	0% 4% 30% 6% 3% 2% 6% otal:	\$\$\$\$\$\$ <b>\$</b>	14,100 105,752 21,150 10,575 7,050 21,150 179,778
\ \ \ \ \	Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water Sewer Landscaping and Irrigation	Notes  None Anticipated Includes Striping/Signs for Standard Internal System Minor Adjustments Minor Adjustments	Pa	Allowa	nce Subto	0% 4% 30% 6% 3% 2% 6% otal:	\$\$\$\$\$\$ <b>\$</b> \$\$\$\$\$	14,100 105,752 21,150 10,575 7,050 21,150 179,778
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water Sewer Landscaping and Irrigation	Notes  None Anticipated Includes Striping/Signs for Standard Internal System Minor Adjustments Minor Adjustments	Pa	Allowa ving and Allowa n Contingency:	nce Subte	0% 4% 30% 6% 2% 6% otal:	\$\$\$\$\$\$\$ <b>\$</b>	14,100 105,752 21,150 10,575 7,050 21,150 179,778 532,284 53,228

Impact Fee Project Cost Sur	nmary			
Item Description	Notes:		Allowance	Item Cost
Construction:			-	\$ 666,000
Engineering/Survey/Testing:			16%	\$ 106,560
Inspection			3.5%	\$ 23,310
ROW/Easement Acquisition:			30%	\$ 199,800
		Impact Fee Project C	Cost TOTAL	\$ 996,000

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2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection

Kimley-Horn and Associates, Inc.

updated: 6/20/2023

Project Information:
Name: Technology Drive (1)

Limits: Mill St to Business Park Dr

Impact Fee Class: Local Connector Street

Ultimate Class: 2U\_(50) Length (If): 755

Description: New	Project No.	B-18
Construction of a 2 lar	ne collector, underground	d drainage

and 5' sidewalks on both sides of the street.

Prep ROW

**Construction Cost TOTAL** 

Roa	dway Construction Cost Projection					
No.	Item Description	Quantity	Unit	Uı	nit Price	Item Cost
104	Unclassified Street Excavation (2' depth)	2,013	CY	\$	8.73	\$ 17,576
204	Earthwork/Topsoil (6" depth)	1,678	SY	\$	1.83	\$ 3,070
304	3" Asphalt (Type C)	151	TON	\$	140.87	\$ 21,271
404	Asphalt Prime Coat	1,510	GAL	\$	6.00	\$ 9,060
504	Lime Treated Subgrade (12" depth)	3,020	SY	\$	3.46	\$ 10,449
604	10" Flexible Base	3,020	SY	\$	19.70	\$ 59,494
704	6' Concrete Sidewalk (4" depth)	839	SY	\$	62.92	\$ 52,783
804	Machine Laid Curb & Gutter	1,510	LF	\$	22.37	\$ 33,779
904	Turn Lanes and Median Openings	0	SY	\$	63.33	\$ -
		Paving	Construction	Cost	Subtotal:	\$ 207,483

Major Construction Component Allowances**:							
·	Item Description	Notes	Allowance		Item Cost		
	Traffic Control	None Anticipated	0%	\$	-		
$\checkmark$	Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$	8,299		
$\checkmark$	Roadway Drainage	Standard Internal System	30%	\$	62,245		
$\checkmark$	Illumination		6%	\$	12,449		
$\sqrt{}$	Water	Minor Adjustments	3%	\$	6,224		
$\checkmark$	Sewer	Minor Adjustments	2%	\$	4,150		
$\sqrt{}$	Landscaping and Irrigation		6%	\$	12,449		
**Allowar	nces based on % of Paving Construction C	ost Subtotal Allowa	ince Subtotal:	\$	105,816		
1							
	\$	313,299					
Construction Contingency: 10%					31,330		
		Mobilization	11%	\$	34.463		

Impact Fee Project Cost Summary							
Item Description	Notes:		Allowance		Item Cost		
Construction:			-	\$	392,000		
Engineering/Survey/Testing:			16%	\$	62,720		
Inspection			3.5%	\$	13,720		
ROW/Easement Acquisition:			30%	\$	117,600		
		Impact Fee Project C	Cost TOTAL	\$	586,000		

NOTE: The planning level cost projections listed in this appendix have been developed for Rough Proportionality calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.

The planning level cost projections shall not supersede the City's design standards or the determination of the City Engineer for a specific project.

12,532

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

6/20/2023 updated:

**Project Information:** Description: New B-19 Project No. Name: Technology Drive (2) Construction of a 2 lane collector, underground drainage,

Limits: Technology Drive (existing) to City Limits

Impact Fee Class: Local Connector Street

**Ultimate Class:** 2U\_(50) Length (If): 2,430

No.	Item Description	Quantity	Unit	Uı	nit Price		Item Cost
104	Unclassified Street Excavation (2' depth)	6,480	CY	\$	8.73	\$	56,570
204	Earthwork/Topsoil (6" depth)	5,400	SY	\$	1.83	\$	9,882
304	3" Asphalt (Type C)	486	TON	\$	140.87	\$	68,463
404	Asphalt Prime Coat	4,860	GAL	\$	6.00	\$	29,160
504	Lime Treated Subgrade (12" depth)	9,720	SY	\$	3.46	\$	33,631
604	10" Flexible Base	9,720	SY	\$	19.70	\$	191,484
704	6' Concrete Sidewalk (4" depth)	2,700	SY	\$	62.92	\$	169,884
804	Machine Laid Curb & Gutter	4,860	LF	\$	22.37	\$	108,718
904	Turn Lanes and Median Openings	0	SY	\$	63.33	\$	-
	Paying Construction Cost Subtotal:						667.793

Paving Construction Cost Subtotal:	\$	667,793
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and 5' sidewalks on both sides of the street.

Major Construction Component Allowances**:								
	Item Description	Notes	Allowance		Item Cost			
	Traffic Control	None Anticipated	0%	\$				
$\checkmark$	Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$	26,712			
$\checkmark$	Roadway Drainage	Standard Internal System	30%	\$	200,338			
$\checkmark$	Illumination		6%	\$	40,068			
	Water	Minor Adjustments	3%	\$	20,034			
	Sewer	Minor Adjustments	2%	\$	13,356			
	Landscaping and Irrigation		6%	\$	40,068			
**Allowa	**Allowances based on % of Paving Construction Cost Subtotal  Allowance Subtotal:							
	\$	1,008,367						
	\$	100,837						
	\$	110,920						
	\$	40,335						
	Prep ROW 4% Construction Cost TOTAL:							

Impact Fee Project Cost Summary						
Item Description	Notes:		Allowance		Item Cost	
Construction:			-	\$	1,261,000	
Engineering/Survey/Testing:			16%	\$	201,760	
Inspection			3.5%	\$	44,135	
ROW/Easement Acquisition:			30%	\$	378,300	
Impact Fee Project Cost TOTAL			\$	1,885,000		

NOTE: The planning level cost projections listed in this appendix have been developed for Rough Proportionality calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection

Kimley-Horn and Associates, Inc.

updated: 6/20/2023

Project Information: Description: New Project No. B-20
Name: Walnut Street Construction of a 2 lane collector, underground drainage,

Limits: Martin Luther King Dr to SH 21

Impact Fee Class: Local Connector Street

Ultimate Class: 2U\_(50) Length (If): 1,170

Roa	dway Construction Cost Projection				
No.	Item Description	Quantity	Unit	Unit Price	Item Cost
104	Unclassified Street Excavation (2' depth)	3,120	CY	\$ 8.73	\$ 27,238
204	Earthwork/Topsoil (6" depth)	2,600	SY	\$ 1.83	\$ 4,758
304	3" Asphalt (Type C)	234	TON	\$ 140.87	\$ 32,964
404	Asphalt Prime Coat	2,340	GAL	\$ 6.00	\$ 14,040
504	Lime Treated Subgrade (12" depth)	4,680	SY	\$ 3.46	\$ 16,193
604	10" Flexible Base	4,680	SY	\$ 19.70	\$ 92,196
704	6' Concrete Sidewalk (4" depth)	1,300	SY	\$ 62.92	\$ 81,796
804	Machine Laid Curb & Gutter	2,340	LF	\$ 22.37	\$ 52,346
904	Turn Lanes and Median Openings	0	SY	\$ 63.33	\$ -

Paving Construction Cost Subtotal: \$ 321,530

and 5' sidewalks on both sides of the street.

Major	Construction Component Allowa	•			
	Item Description	Notes	Allowance		Item Cost
	Traffic Control	None Anticipated	0%	\$	-
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$	12,861
	Roadway Drainage	Standard Internal System			96,459
	√ Illumination 6%				19,292
	Water	Minor Adjustments			9,646
	Sewer	Minor Adjustments	2%	\$	6,431
	√ Landscaping and Irrigation 69				19,292
**Allow	ances based on % of Paving Construction C	ost Subtotal Allowa	nce Subtotal:	\$	163,980
		Paving and Allowa	nce Subtotal:	\$	485,510
	\$	48,551			
	\$	53,406			
	\$	19,420			
l		Construction C	ost TOTAL:	\$	607,000

Impact Fee Project Cost Summary							
Item Description	Notes:		Allowance		Item Cost		
Construction:			-	\$	607,000		
Engineering/Survey/Testing:			16%	\$	97,120		
Inspection			3.5%	\$	21,245		
ROW/Easement Acquisition:			30%	\$	182,100		
Impact Fee Project Cost TOTAL			<b>\$</b>	907,000			

NOTE: The planning level cost projections listed in this appendix have been developed for Rough Proportionality calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

6/20/2023 updated:

**Project Information:** Description: Widening Project No. **B-21** Name: Jackson St (2) Construction of a 4 lane arterial with a median with curb and Limits: SH 21 to South St

Impact Fee Class: Primary Multimodal Street B

**Ultimate Class:** 4D\_(80) Length (If): 1,305

gutter, underground drainage, and 6' sidewalks on both

sides of the street.

No.	Item Description	Quantity	Unit	U	nit Price		Item Cost
103	Unclassified Street Excavation (3' depth)	7,250	CY	\$	8.73	\$	63,293
203	Earthwork/Topsoil (6" depth)	5,220	SY	\$	1.83	\$	9,553
303	6" Asphalt (Type C)	383	TON	\$	140.87	\$	53,925
403	Asphalt Prime Coat	3,828	GAL	\$	6.00	\$	22,968
503	Lime Treated Subgrade (12" depth)	7,250	SY	\$	3.46	\$	25,085
603	18" Flexible Base	7,250	SY	\$	56.20	\$	407,450
703	6' Concrete Sidewalk (4" depth)	1,740	SY	\$	62.92	\$	109,481
803	Machine Laid Curb & Gutter	5,220	LF	\$	22.37	\$	116,771
903	Turn Lanes and Median Openings	267	SY	\$	118.58	\$	31,627
	Paving Construction Cost Subtotal:						840,153
							<u> </u>
Majo	r Construction Component Allowances**:						

Item Description	Notes	Allowance	Item Cost			
Traffic Control	Construction Phase Traffic Control	5%	\$ 42,			
Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$ 33			
Roadway Drainage	Standard Internal System	30%	\$ 252			
Illumination		6%	\$ 50,			
Water	Minor Adjustments	3%	\$ 25			
Sewer	Minor Adjustments	2%	\$ 16,			
Landscaping and Irrigation		6%	\$ 50,			
llowances based on % of Paving Construction Cost Subtotal Allowance Subtotal:						
	Paving and Allowa		<b>1,310</b> \$ 131.			
Construction Contingency: 10%						
Mobilization 11%						
	Prep ROW	4%	\$ 52,			
Construction Cost TOTAL:						

Impact Fee Project Cost Summary							
Item Description	Notes:		Allowance		Item Cost		
Construction:			-	\$	1,639,000		
Engineering/Survey/Testing:			16%	\$	262,240		
Inspection			3.5%	\$	57,365		
ROW/Easement Acquisition:			30%	\$	491,700		
Impact Fee Project Cost TOTAL			\$	2,450,000			

NOTE: The planning level cost projections listed in this appendix have been developed for Rough Proportionality calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection

Kimley-Horn and Associates, Inc.

updated: 6/20/2023

Project Information: Description: Widening

Name: Lovers Ln Construction of a 3 la

Project No. B-22

Limits: City Limits to College St

Construction of a 3 lane collector (2 lanes plus a center turn lane) with curb and gutter, underground drainage, and 6'

Impact Fee Class: Primary Multimodal Street A

sidewalks on both sides of the street.

Ultimate Class: 3U\_(56) Length (If): 1,525

No.	Item Description	Quantity	Unit	Ur	nit Price		Item Cost
102	Unclassified Street Excavation (2' de	epth) 4,744	CY	\$	8.73	\$	41,419
202	Earthwork/Topsoil (6" depth)	3,389	SY	\$	1.83	\$	6,202
302	3" Asphalt (Type C)	366	TON	\$	140.87	\$	51,558
402	Asphalt Prime Coat	3,660	GAL	\$	6.00	\$	21,960
502	Lime Treated Subgrade (12" depth)	7,117	SY	\$	3.46	\$	24,624
602	10" Flexible Base	7,117	SY	\$	19.70	\$	140,198
702	6' Concrete Sidewalk (4" depth)	2,033	SY	\$	62.92	\$	127,937
802	Machine Laid Curb & Gutter	3,050	LF	\$	22.37	\$	68,229
902	Turn Lanes and Median Openings	0	SY	\$	71.37	\$	-
		Paving	Construction	Cost	Subtotal:	\$	482,127
Majo	Construction Component Allowand	ces**:					
	Item Description	lotes		All	lowance		Item Cost
1	Traffic Control	Construction Phase Traffic Control			5%	¢	2/ 106

Major	Construction Component Allowa	nces**:				
	Item Description	Notes	Allowance		Item Cost	
V	Traffic Control	Construction Phase Traffic Control	5%	\$	24,106	
$\sqrt{}$	Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$	19,285	
$\checkmark$	Roadway Drainage	Standard Internal System	30%	\$	144,638	
$\checkmark$	Illumination		6%	\$	28,928	
$\sqrt{}$	Water	Minor Adjustments	3%	\$	14,464	
$\checkmark$	Sewer	Minor Adjustments	2%	\$	9,643	
	Landscaping and Irrigation		6%	\$	28,928	
**Allow	ances based on % of Paving Construction C	ost Subtotal Allowa	nce Subtotal:	\$	269,991	
		Paving and Allowa	nce Subtotal:	\$	752,118	
Construction Contingency: 10% S						
	Mobilization 11% \$					
	Prep ROW 4% \$					
		Construction C	ost TOTAL:	\$	941,000	

Impact Fee Project Cost Summary							
Item Description	Notes:		Allowance		Item Cost		
Construction:			-	\$	941,000		
Engineering/Survey/Testing:			16%	\$	150,560		
Inspection			3.5%	\$	32,935		
ROW/Easement Acquisition:			30%	\$	282,300		
		Impact Fee Project C	Cost TOTAL	\$	1,407,000		

NOTE: The planning level cost projections listed in this appendix have been developed for Rough Proportionality calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection

Kimley-Horn and Associates, Inc.

updated: 6/20/2023

Project Information: Description: Widening Project No. B-23

Name: Mauna Loa Ln (2) Construction of a 2 lane collector, underground drainage,
Limits: Briar Forest Dr to Tahitian Dr and 5' sidewalks on both sides of the street.

Limits: Briar Forest Dr to Tahitian Dr Impact Fee Class: Local Connector Street

Ultimate Class: 2U\_(50) Length (If): 1,195

Roa	dway Construction Cost Projection					
No.	Item Description	Quantity	Unit	Uı	nit Price	Item Cost
104	Unclassified Street Excavation (2' depth)	3,187	CY	\$	8.73	\$ 27,820
204	Earthwork/Topsoil (6" depth)	2,656	SY	\$	1.83	\$ 4,860
304	3" Asphalt (Type C)	239	TON	\$	140.87	\$ 33,668
404	Asphalt Prime Coat	2,390	GAL	\$	6.00	\$ 14,340
504	Lime Treated Subgrade (12" depth)	4,780	SY	\$	3.46	\$ 16,539
604	10" Flexible Base	4,780	SY	\$	19.70	\$ 94,166
704	6' Concrete Sidewalk (4" depth)	1,328	SY	\$	62.92	\$ 83,544
804	Machine Laid Curb & Gutter	2,390	LF	\$	22.37	\$ 53,464
904	Turn Lanes and Median Openings	0	SY	\$	63.33	\$ -

Paving Construction Cost Subtotal: \$ 328,400

	Item Description	Notes	Allowance		Item Cost	
	Traffic Control	Construction Phase Traffic Control	5%	\$	16,420	
$\sqrt{}$	Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$	13,136	
$\checkmark$	Roadway Drainage	Standard Internal System	30%	\$	98,520	
	Illumination		6%	\$	19,704	
$\sqrt{}$	Water	Minor Adjustments	3%	\$	9,852	
	Sewer	Minor Adjustments	2%	\$	6,568	
$\sqrt{}$	Landscaping and Irrigation		6%	\$	19,704	
Allow	ances based on % of Paving Construction C	Cost Subtotal Allowa	nce Subtotal:	\$	183,904	
		Paving and Allowa	nce Subtotal:	\$	512,304	
		Construction Contingency:	10%	\$	51,230	
Mobilization 11%						
		Prep ROW	4%	\$	20,492	
Construction Cost TOTAL:						

Impact Fee Project Cost Sur Item Description	Notes:		Allowance	Item Cost
Construction:			-	\$ 641,000
Engineering/Survey/Testing:			16%	\$ 102,560
Inspection			3.5%	\$ 22,435
ROW/Easement Acquisition:			30%	\$ 192,300
		Impact Fee Project C	Cost TOTAL	\$ 958,000

NOTE: The planning level cost projections listed in this appendix have been developed for Rough Proportionality calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection

Kimley-Horn and Associates, Inc.

Project No.

updated: 6/20/2023

**B-24** 

Project Information: Description: Widening

Name: Mesquite St (3) Construction of a 3 lane collector (2 lanes plus a center turn

Limits: Wilson St to SH 95 lane) with curb and gutter, underground drainage, and 6'

Impact Fee Class: Primary Multimodal Street A sidewalks on both sides of the street.

Ultimate Class: 3U\_(56) Length (If): 2,765

Road	lway Construction Cost Projection				
No.	Item Description	Quantity	Unit	Unit Price	Item Cost
102	Unclassified Street Excavation (2' depth)	8,602	CY	\$ 8.73	\$ 75,097
202	Earthwork/Topsoil (6" depth)	6,144	SY	\$ 1.83	\$ 11,244
302	3" Asphalt (Type C)	664	TON	\$ 140.87	\$ 93,481
402	Asphalt Prime Coat	6,636	GAL	\$ 6.00	\$ 39,816
502	Lime Treated Subgrade (12" depth)	12,903	SY	\$ 3.46	\$ 44,646
602	10" Flexible Base	12,903	SY	\$ 19.70	\$ 254,196
702	6' Concrete Sidewalk (4" depth)	3,687	SY	\$ 62.92	\$ 231,965
802	Machine Laid Curb & Gutter	5,530	LF	\$ 22.37	\$ 123,706
902	Turn Lanes and Median Openings	0	SY	\$ 71.37	\$ -

Paving Construction Cost Subtotal: \$ 874,151

11% \$

4%

150,004

54,547

1,705,000

Mobilization

Prep ROW

**Construction Cost TOTAL** 

Major	Major Construction Component Allowances**:							
	Item Description	Notes	Allowance		Item Cost			
	Traffic Control	Construction Phase Traffic Control	5%	\$	43,708			
$\checkmark$	Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$	34,966			
$\sqrt{}$	Roadway Drainage	Standard Internal System	30%	\$	262,245			
$\checkmark$	Illumination		6%	\$	52,449			
$\checkmark$	Water	Minor Adjustments	3%	\$	26,225			
$\checkmark$	Sewer	Minor Adjustments	2%	\$	17,483			
	Landscaping and Irrigation		6%	\$	52,449			
**Allowa	ances based on % of Paving Construction C	Sost Subtotal Allowa	ance Subtotal:	\$	489,525			
	\$	1,363,676						
		Construction Contingency:	10%	\$	136,368			

Impact Fee Project Cost Sun	nmary			
Item Description	Notes:		Allowance	Item Cost
Construction:			-	\$ 1,705,000
Engineering/Survey/Testing:			16%	\$ 272,800
Inspection			3.5%	\$ 59,675
ROW/Easement Acquisition:			30%	\$ 511,500
		Impact Fee Project C	Cost TOTAL	\$ 2,549,000

NOTE: The planning level cost projections listed in this appendix have been developed for Rough Proportionality calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

6/20/2023 updated:

Description: Widening **Project Information:** Project No. **B-25** Name: SH 95 (1) Construction of a 4 lane highway arterial with a median with

Limits: Mesquite St to 700' S of Mesquite St

Impact Fee Class: State Highway System

6' Concrete Sidewalk (4" depth)

Machine Laid Curb & Gutter

**Ultimate Class:** 4D\_(110) Length (If): 695

No.

101

201

301

401

501

601

701

801

curb and gutter, underground drainage, and 6' sidewalks on both sides of the street.

\$

\$

62.92

22.37

\$

\$

58,306

62,189

SY

LF

**Roadway Construction Cost Projection Item Description** Quantity Unit Price Unit **Item Cost** Unclassified Street Excavation (3' depth) 4,170 CY 8.73 36,404 Earthwork/Topsoil (6" depth) 4,788 SY \$ 1.83 \$ 8,762 6" Asphalt (Type C) 222 TON \$ 140.87 \$ 31,329 Asphalt Prime Coat 2,224 GAL \$ 6.00 \$ 13,344 Lime Treated Subgrade (12" depth) \$ 14,428 4,170 SY 3.46 \$ \$ 18" Flexible Base 4,170 SY \$ 234,354 56.20

927

2,780

901	Turn Lanes and Median Openings		142	SY	\$ 123.94	\$	17,604
			Paving	Construction (	Cost Subtotal:	\$	476,720
Major	Construction Component Allowa	ances**·	_		_		
major	Item Description	Notes			Allowance		Item Cost
V	Traffic Control	Construction Phase Traff	ic Control		5%	\$	23,836
$\sqrt{}$	Pavement Markings/Signs/Posts	Includes Striping/Signs for	or Bicycle Facilties	3	4%	\$	19,069
	Roadway Drainage	Standard Internal System	1		30%	\$	143,016
	Illumination				6%	\$	28,603
	Water	Minor Adjustments			3%	\$	14,302
	Sewer	Minor Adjustments			2%	\$	9,534
	Landscaping and Irrigation				6%	\$	28,603
**Allow	ances based on % of Paving Construction C	Cost Subtotal		Allowa	nce Subtotal:	\$	266,963
			Pay	ing and Allowa	nce Subtotal:	\$	743,684
				Contingency:		-	74,368
				Mobilization	11%		81,805
				Prep ROW			29,747
			Co	nstruction C			930,000

Impact Fee Project Cost Sum	nmary		
Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 930,000
Engineering/Survey/Testing:		16%	\$ 148,800
Inspection		3.5%	\$ 32,550
ROW/Easement Acquisition:		30%	\$ 279,000
	Impact Fee Project Cost TOTAL (1	TxDOT 20%)	\$ 278,000

NOTE: The planning level cost projections listed in this appendix have been developed for Rough Proportionality calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

updated: 6/20/2023

Project Information: Description: Widening Project No. B-26

Name: SH 95 (2) Construction of a 4 lane highway arterial with a median with a median with curb and gutter, underground drainage, and 6' sidewalks on

both sides of the street.

Impact Fee Class: State Highway System

Ultimate Class: 4D\_(110) Length (If): 2,700

Roa	dway Construction Cost Projection					
No.	Item Description	Quantity	Unit	Uı	nit Price	Item Cost
101	Unclassified Street Excavation (3' depth)	16,200	CY	\$	8.73	\$ 141,426
201	Earthwork/Topsoil (6" depth)	18,600	SY	\$	1.83	\$ 34,038
301	6" Asphalt (Type C)	864	TON	\$	140.87	\$ 121,712
401	Asphalt Prime Coat	8,640	GAL	\$	6.00	\$ 51,840
501	Lime Treated Subgrade (12" depth)	16,200	SY	\$	3.46	\$ 56,052
601	18" Flexible Base	16,200	SY	\$	56.20	\$ 910,440
701	6' Concrete Sidewalk (4" depth)	3,600	SY	\$	62.92	\$ 226,512
801	Machine Laid Curb & Gutter	10,800	LF	\$	22.37	\$ 241,596
901	Turn Lanes and Median Openings	552	SY	\$	123.94	\$ 68.391

Paving Construction Cost Subtotal: \$ 1,852,007

Item Description	Notes	Allowance		Item Cost		
√ Traffic Control	Construction Phase Traffic Control	5%	\$	92,600		
√ Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$	74,080		
√ Roadway Drainage	Standard Internal System	30%	\$	555,602		
√ Illumination		6%	\$	111,120		
√ Water	Minor Adjustments	3%	\$	55,560		
√ Sewer	Minor Adjustments	2%	\$	37,040		
√ Landscaping and Irrigation		6%	\$	111,120		
Allowances based on % of Paving Construction C	Cost Subtotal Allowa	nce Subtotal:	\$	1,037,124		
	Paving and Allowa	nce Subtotal:	\$	2,889,131		
Construction Contingency: 10%						
Mobilization 11%						
Prep ROW 4%						
Construction Cost TOTAL:						

Impact Fee Project Cost Summary								
Item Description	Notes:	Allowance		Item Cost				
Construction:		-	\$	3,612,000				
Engineering/Survey/Testing:		16%	\$	577,920				
Inspection		3.5%	\$	126,420				
ROW/Easement Acquisition:		30%	\$	1,083,600				
	Impact Fee Project Cost TOTAL (1	xDOT 20%)	\$	1,080,000				

NOTE: The planning level cost projections listed in this appendix have been developed for Rough Proportionality calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

updated: 6/20/2023

Project Information: Description: Widening Project No. B-27

Name: SH 95 (3) Construction of a 4 lane highway arterial with a median with Limits: Hawthorne St to Cedar St curb and gutter, underground drainage, and 6' sidewalks on

both sides of the street.

Impact Fee Class: State Highway System
Ultimate Class: 4D\_(110)

Ultimate Class: 4D\_(11 Length (lf): 1,560

No.	dway Construction Cost Projection  Item Description	Quantity	Unit	U	nit Price	Item Cost
101	Unclassified Street Excavation (3' depth)	9,360	CY	\$	8.73	\$ 81,713
201	Earthwork/Topsoil (6" depth)	10,747	SY	\$	1.83	\$ 19,666
301	6" Asphalt (Type C)	499	TON	\$	140.87	\$ 70,322
401	Asphalt Prime Coat	4,992	GAL	\$	6.00	\$ 29,952
501	Lime Treated Subgrade (12" depth)	9,360	SY	\$	3.46	\$ 32,386
601	18" Flexible Base	9,360	SY	\$	56.20	\$ 526,032
701	6' Concrete Sidewalk (4" depth)	2,080	SY	\$	62.92	\$ 130,874
801	Machine Laid Curb & Gutter	6,240	LF	\$	22.37	\$ 139,589
901	Turn Lanes and Median Openings	319	SY	\$	123.94	\$ 39,515

Paving Construction Cost Subtotal: \$ 1,070,049

Item Description	Notes	Allowance		Item Cost	
Traffic Control	Construction Phase Traffic Control	5%	\$	53,50	
Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$	42,8	
Roadway Drainage	Standard Internal System	30%	\$	321,0	
Illumination		6%	\$	64,2	
Water	Minor Adjustments	3%	\$	32,1	
Sewer	Minor Adjustments	2%	\$	21,4	
Landscaping and Irrigation		6%	\$	64,2	
owances based on % of Paving Construction (	Cost Subtotal Allowa	nce Subtotal:	\$	599,2	
	Paving and Allowa	nce Subtotal:	\$	1,669,2	
	Construction Contingency:	10%	\$	166,9	
Mobilization 11%					
Prep ROW 4%					
Construction Cost TOTAL:					

Impact Fee Project Cost Summary								
Item Description	Notes:	Allowance		Item Cost				
Construction:		-	\$	2,087,000				
Engineering/Survey/Testing:		16%	\$	333,920				
Inspection		3.5%	\$	73,045				
ROW/Easement Acquisition:		30%	\$	626,100				
	Impact Fee Project Cost TOTAL (1	xDOT 20%)	\$	624,000				

NOTE: The planning level cost projections listed in this appendix have been developed for Rough Proportionality calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

updated: 6/20/2023

Project Information:

Description: Widening

Project No.

B-28

Name:

Limits:

Cedar St to Spring St

State Highway System

Description: Widening

Construction of a 4 lane highway arterial with a median with curb and gutter, underground drainage, and 6' sidewalks on both sides of the street.

Ultimate Class: 4D\_(110) Length (If): 1,885

Road	Roadway Construction Cost Projection																
No.	Item Description	Quantity	Unit	Un	Unit Price		Unit Price		Unit Price		Unit Price		Unit Price		Unit Price		Item Cost
101	Unclassified Street Excavation (3' depth)	11,310	CY	\$	8.73	\$	98,736										
201	Earthwork/Topsoil (6" depth)	12,986	SY	\$	1.83	\$	23,764										
301	6" Asphalt (Type C)	603	TON	\$	140.87	\$	84,973										
401	Asphalt Prime Coat	6,032	GAL	\$	6.00	\$	36,192										
501	Lime Treated Subgrade (12" depth)	11,310	SY	\$	3.46	\$	39,133										
601	18" Flexible Base	11,310	SY	\$	56.20	\$	635,622										
701	6' Concrete Sidewalk (4" depth)	2,513	SY	\$	62.92	\$	158,139										
801	Machine Laid Curb & Gutter	7,540	LF	\$	22.37	\$	168,670										
901	Turn Lanes and Median Openings	385	SY	\$	123.94	\$	47,747										

Paving Construction Cost Subtotal: \$ 1,292,975

Item Description	Notes	Allowance		Item Cost		
Traffic Control	Construction Phase Traffic Control	5%	\$	64,6		
Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$	51,7		
Roadway Drainage	Standard Internal System	30%	\$	387,8		
Illumination		6%	\$	77,5		
Water	Minor Adjustments	3%	\$	38,7		
Sewer	Minor Adjustments	2%	\$	25,8		
Landscaping and Irrigation		6%	\$	77,5		
owances based on % of Paving Construction (		ince Subtotal:		724,0		
	Paving and Allowa		\$	2,017,0		
Construction Contingency: 10%						
Mobilization 11%						
	Prep ROW	4%	\$	80,6		
Construction Cost TOTAL:						

Impact Fee Project Cost Summary								
Item Description	Notes:	Allowance		Item Cost				
Construction:		-	\$	2,522,000				
Engineering/Survey/Testing:		16%	\$	403,520				
Inspection		3.5%	\$	88,270				
ROW/Easement Acquisition:		30%	\$	756,600				
	Impact Fee Project Cost TOTAL (1	xDOT 20%)	\$	754,000				

NOTE: The planning level cost projections listed in this appendix have been developed for Rough Proportionality calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

updated: 6/20/2023

Project Information:

Name: SH 95 (5)
Limits: Farm St to Chestnut St/SH 21

Impact Fee Class: State Highway System

Ultimate Class: 4D\_(110)

Ultimate Class: 4D\_(1 Length (If): 870

Description: Widening Project No. B-29

Construction of a 4 lane highway arterial with a median with

curb and gutter, underground drainage, and 6' sidewalks on

both sides of the street.

No.	Item Description	Quantity	Unit	U	nit Price	Item Cost
101	Unclassified Street Excavation (3' depth)	5,220	CY	\$	8.73	\$ 45,571
201	Earthwork/Topsoil (6" depth)	5,993	SY	\$	1.83	\$ 10,968
301	6" Asphalt (Type C)	278	TON	\$	140.87	\$ 39,218
401	Asphalt Prime Coat	2,784	GAL	\$	6.00	\$ 16,704
501	Lime Treated Subgrade (12" depth)	5,220	SY	\$	3.46	\$ 18,061
601	18" Flexible Base	5,220	SY	\$	56.20	\$ 293,364
701	6' Concrete Sidewalk (4" depth)	1,160	SY	\$	62.92	\$ 72,987
801	Machine Laid Curb & Gutter	3,480	LF	\$	22.37	\$ 77,848
901	Turn Lanes and Median Openings	178	SY	\$	123.94	\$ 22,037
		Paving	Construction	Cost	Subtotal:	\$ 596,758
Majo	r Construction Component Allowances**:					
	Item Description Notes			Al	lowance	Item Cost

Major	<b>Construction Component Allowa</b>	nces**:		
	Item Description	Notes	Allowance	Item Cost
	Traffic Control	Construction Phase Traffic Control	5%	\$ 29,838
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$ 23,870
$\sqrt{}$	Roadway Drainage	Standard Internal System	30%	\$ 179,027
$\sqrt{}$	Illumination		6%	\$ 35,805
$\sqrt{}$	Water	Minor Adjustments	3%	\$ 17,903
$\sqrt{}$	Sewer	Minor Adjustments	2%	\$ 11,935
$\sqrt{}$	Landscaping and Irrigation		6%	\$ 35,805
**Allowa	ances based on % of Paving Construction C	ost Subtotal Allowa	nce Subtotal:	\$ 334,184
		Paving and Allowa	nce Subtotal:	\$ 930,942
		Construction Contingency:	10%	\$ 93,094
	\$ 102,404			
	\$ 37,238			
		Construction C	ost TOTAL:	\$ 1,164,000

Impact Fee Project Cost Summary								
Item Description	Notes:	Allowance		Item Cost				
Construction:		-	\$	1,164,000				
Engineering/Survey/Testing:		16%	\$	186,240				
Inspection		3.5%	\$	40,740				
ROW/Easement Acquisition:		30%	\$	349,200				
	Impact Fee Project Cost TOTAL (1	xDOT 20%)	\$	348,000				

NOTE: The planning level cost projections listed in this appendix have been developed for Rough Proportionality calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

updated: 6/20/2023

Project Information: Description: Widening Project No. B-30

Name: South Street (3) Construction of a 3 lane collector (2 lanes plus a center turn being to 50' W of Jackson St to 1,200' E of Jack lane) with curb and gutter, underground drainage, and 6'

Impact Fee Class: Primary Multimodal Street A sidewalks on both sides of the street.

Ultimate Class: 3U\_(56) Length (If): 1,675

Road	dway Construction Cost Pro	jection					
No.	Item Description		Quantity	Unit	Unit Price		Item Cost
102	Unclassified Street Excavation (2'	depth)	5,211	CY	\$ 8.73	\$	45,493
202	Earthwork/Topsoil (6" depth)		3,722	SY	\$ 1.83	\$	6,812
302	3" Asphalt (Type C)		402	TON	\$ 140.87	\$	56,630
402	Asphalt Prime Coat		4,020	GAL	\$ 6.00	\$	24,120
502	Lime Treated Subgrade (12" depth	n)	7,817	SY	\$ 3.46	\$	27,046
602	10" Flexible Base		7,817	SY	\$ 19.70	\$	153,988
702	6' Concrete Sidewalk (4" depth)		2,233	SY	\$ 62.92	\$	140,521
802	Machine Laid Curb & Gutter		3,350	LF	\$ 22.37	\$	74,940
902	Turn Lanes and Median Openings		0	SY	\$ 71.37	\$	-
			Paving	Construction (	Cost Subtotal:	\$	529,549
Major	Construction Component Allowa						
	Item Description	Notes			Allowance		Item Cost
	Traffic Control	Construction Phase Traff	fic Control		5%		26,477
$\sqrt{}$	Pavement Markings/Signs/Posts	Includes Striping/Signs for	or Bicycle Facilties	S	4%		21,182
	Roadway Drainage	Standard Internal System	n		30%	\$	158,865
$\sqrt{}$	Illumination				6%	\$	31,773
$\sqrt{}$	Water	Minor Adjustments			3%	\$	15,886
$\sqrt{}$	Sewer	Minor Adjustments			2%	\$	10,591
	Landscaping and Irrigation				6%	\$	31,773
**Allow	ances based on % of Paving Construction C	ost Subtotal		Allowa	nce Subtotal:	\$	296,548
							826,097
	Paving and Allowance Subtotal:						
			Construction	n Contingency:		\$	82,610
				Mobilization		\$ \$	90,871 33,044
	Construction Cost TOTAL:						

Impact Fee Project Cost Sur	nmary			
Item Description	Notes:		Allowance	Item Cost
Construction:			-	\$ 1,033,000
Engineering/Survey/Testing:			16%	\$ 165,280
Inspection			3.5%	\$ 36,155
ROW/Easement Acquisition:			30%	\$ 309,900
		Impact Fee Project C	Cost TOTAL	\$ 1,544,000

NOTE: The planning level cost projections listed in this appendix have been developed for Rough Proportionality calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

updated: 6/20/2023

Project Information: Description: Access Management Project No. B-31

Name: SH 21 (1) Construction of a 4 lane highway arterial with a median with curb and gutter, underground drainage, and 6' sidewalks on lmpact Fee Class: State Highway System both sides of the street.

**Ultimate Class:** 4D\_(110) **Length (lf):** 1,580

No.	Item Description	Quantity	Unit	Uı	nit Price	Item Cost
101	Unclassified Street Excavation (3' depth)	9,480	CY	\$	8.73	\$ 82,760
201	Earthwork/Topsoil (6" depth)	10,884	SY	\$	1.83	\$ 19,919
301	6" Asphalt (Type C)	506	TON	\$	140.87	\$ 71,224
401	Asphalt Prime Coat	5,056	GAL	\$	6.00	\$ 30,336
501	Lime Treated Subgrade (12" depth)	9,480	SY	\$	3.46	\$ 32,801
601	18" Flexible Base	9,480	SY	\$	56.20	\$ 532,776
701	6' Concrete Sidewalk (4" depth)	2,107	SY	\$	62.92	\$ 132,551
801	Machine Laid Curb & Gutter	6,320	LF	\$	22.37	\$ 141,378
901	Turn Lanes and Median Openings	323	SY	\$	123.94	\$ 40,022
		Paving	Construction	n Cost	Subtotal:	\$ 1,083,767

Major	Construction Component Allowa	ances**:		
	Item Description	Notes	Allowance	Item Cost
	Traffic Control	Construction Phase Traffic Control	5%	\$ 54,188
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$ 43,351
	Roadway Drainage	Standard Internal System	30%	\$ 325,130
	Illumination		6%	\$ 65,026
	Water	Minor Adjustments	3%	\$ 32,513
	Sewer	Minor Adjustments	2%	\$ 21,675
	Landscaping and Irrigation		6%	\$ 65,026
**Allow	ances based on % of Paving Construction C	Cost Subtotal Allowa	nce Subtotal:	\$ 606,910
		Paving and Allowa	noo Subtotali	\$ 1,690,677
				, ,
		Construction Contingency:		169,068
		Mobilization		\$ 185,974
		Prep ROW		\$ 67,627
		Construction C	ost TOTAL:	\$ 2,114,000

Impact Fee Project Cost Sun	nmary		
Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 2,114,000
Engineering/Survey/Testing:		16%	\$ 338,240
Inspection		3.5%	\$ 73,990
ROW/Easement Acquisition:		30%	\$ 634,200
	Impact Fee Project Cost TOTAL (1	xDOT 20%)	\$ 632,000

NOTE: The planning level cost projections listed in this appendix have been developed for Rough Proportionality calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection

Impact Fee Class: State Highway System

Kimley-Horn and Associates, Inc.

updated: 6/20/2023

Project Information: Description: Access Management Project No. B-32

Name: SH 21 (2) Construction of a 4 lane highway arterial with a median with curb and gutter, underground drainage, and 6' sidewalks on

both sides of the street.

Ultimate Class: 4D\_(110) Length (If): 2,255

Roa	dway Construction Cost Projection					
No.	Item Description	Quantity	Unit	Unit	Price	Item Cost
101	Unclassified Street Excavation (3' depth)	13,530	CY	\$	8.73	\$ 118,117
201	Earthwork/Topsoil (6" depth)	15,534	SY	\$	1.83	\$ 28,428
301	6" Asphalt (Type C)	722	TON	\$	140.87	\$ 101,652
401	Asphalt Prime Coat	7,216	GAL	\$	6.00	\$ 43,296
501	Lime Treated Subgrade (12" depth)	13,530	SY	\$	3.46	\$ 46,814
601	18" Flexible Base	13,530	SY	\$	56.20	\$ 760,386
701	6' Concrete Sidewalk (4" depth)	3,007	SY	\$	62.92	\$ 189,179
801	Machine Laid Curb & Gutter	9,020	LF	\$	22.37	\$ 201,777
901	Turn Lanes and Median Openings	461	SY	\$	123.94	\$ 57,120

Paving Construction Cost Subtotal: \$ 1,546,769

Item Description	Notes	Allowance	l	Item Cost
Traffic Control	Construction Phase Traffic Control	5%	\$	77,33
Pavement Markings/Signs/Po	StS Includes Striping/Signs for Bicycle Facilties	4%	\$	61,8
Roadway Drainage	Standard Internal System	30%	\$	464,0
Illumination		6%	\$	92,8
Water	Minor Adjustments	3%	\$	46,4
Sewer	Minor Adjustments	2%	\$	30,9
Landscaping and Irrigation		6%	\$	92,8
owances based on % of Paving Construc	tion Cost Subtotal Allow	ance Subtotal:	\$	866,1
	Paving and Allow	ance Subtotal:	\$	2,412,9
	Construction Contingency	10%	\$	241,2
	Mobilization	n 11%	\$	265,4
	Prep ROV	<b>V</b> 4%	\$	96,5
		Cost TOTAL:		3,017,0

Impact Fee Project Cost Sun	nmary		
Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 3,017,000
Engineering/Survey/Testing:		16%	\$ 482,720
Inspection		3.5%	\$ 105,595
ROW/Easement Acquisition:		30%	\$ 905,100
	Impact Fee Project Cost TOTAL (1	xDOT 20%)	\$ 902,000

NOTE: The planning level cost projections listed in this appendix have been developed for Rough Proportionality calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

6/20/2023 updated:

**Project Information:** Description: Access Management Project No. **B-33** Name: SH 95 (6) Construction of a 4 lane highway arterial with a median with Limits: SH 21 WBFR to SH 21 EBFR

Impact Fee Class: State Highway System

**Ultimate Class:** 4D\_(110) Length (If): 580

curb and gutter, underground drainage, and 6' sidewalks on

both sides of the street.

No.	Item Description	Quantity	Unit	U	nit Price	Item Cost
101	Unclassified Street Excavation (3' depth)	3,480	CY	\$	8.73	\$ 30,380
201	Earthwork/Topsoil (6" depth)	3,996	SY	\$	1.83	\$ 7,312
301	6" Asphalt (Type C)	186	TON	\$	140.87	\$ 26,145
401	Asphalt Prime Coat	1,856	GAL	\$	6.00	\$ 11,136
501	Lime Treated Subgrade (12" depth)	3,480	SY	\$	3.46	\$ 12,041
601	18" Flexible Base	3,480	SY	\$	56.20	\$ 195,576
701	6' Concrete Sidewalk (4" depth)	773	SY	\$	62.92	\$ 48,658
801	Machine Laid Curb & Gutter	2,320	LF	\$	22.37	\$ 51,898
901	Turn Lanes and Median Openings	119	SY	\$	123.94	\$ 14,691
		Paving	Construction	Cost	Subtotal:	\$ 397,839

Item Description	Notes	Allowance	Item Cost
√ Traffic Control	Construction Phase Traffic Control	5%	\$ 19,892
√ Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$ 15,91
√ Roadway Drainage	Standard Internal System	30%	\$ 119,35
√ Illumination		6%	\$ 23,87
√ Water	Minor Adjustments	3%	\$ 11,93
√ Sewer	Minor Adjustments	2%	\$ 7,95
√ Landscaping and Irrigation		6%	\$ 23,87
Allowances based on % of Paving Construction (	Cost Subtotal Allowa	ince Subtotal:	\$ 222,79
	Paving and Allowa	nce Subtotal:	\$ 620,62
	Construction Contingency:	10%	\$ 62,06
	Mobilization	11%	\$ 68,26
	Prep ROW	4%	\$ 24,82
	Construction C	ost TOTAL:	\$ 776,00

Impact Fee Project Cost Sun	nmary		
Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 776,000
Engineering/Survey/Testing:		16%	\$ 124,160
Inspection		3.5%	\$ 27,160
ROW/Easement Acquisition:		30%	\$ 232,800
	Impact Fee Project Cost TOTAL (1	TxDOT 20%)	\$ 232,000

NOTE: The planning level cost projections listed in this appendix have been developed for Rough Proportionality calculations only and should not be used for any future Capital Improvement Planning within the City of Bastrop.





## D. SUMMARY OF TRANSPORTATION IMPACT FEE CREDIT DETERMINATION

Bond Debt - SA A

Sources

Par Amount +Premium / - Discount Equity contreibution

Total Sources

Project desposit Cost of Issuance (1%) Contingency

\$ 59,364,502.00

Total Uses

Debt Service Annually

Year Principal Coupon Interest Debt Service 91,896,249.10 \$ 5,988,394.14 59,364,502.00 \$ 1.02 \$ 2,968,225.10 4.00% \$ 1.55 \$ 32,531,747.10 \$ 86,078,527.90 \$ 2,968,225.10 4.25% \$ 2,901,440.04 5,869,665.14 2,968,225.10 2,968,225.10 4.50% \$ 2,775,290.47 \$ 2,641,720.34 \$ 5.743.515.57 3 \$ 5.00% \$ 5,609,945.44 2,968,225.10 2,968,225.10 5.25% \$ 5.25% \$ 2,493,309.08 \$ 2,337,477.27 \$ 5,461,534.18 5,305,702.37 6 \$ 7 \$ 2,968,225.10 5.25% \$ 2,181,645.45 5,149,870.55 2,968,225.10 2,968,225.10 5.25% \$ 5.25% \$ 2,025,813.63 \$ 1,869,981.81 \$ 4,994,038.73 4,838,206.91 8 \$ 9 \$ 10 \$ 2,968,225.10 5.25% \$ 1,714,150.00 4,682,375.10 4,526,543.28 4,370,711.46 11 \$ 2,968,225.10 2,968,225.10 5.25% \$ 5.25% \$ 1.558.318.18 \$ 1,402,486.36 \$ 1,246,654.54 \$ 12 \$ 2,968,225.10 2,968,225.10 2,968,225.10 13 \$ 5.25% \$ 4,214,879.64 1,090,822.72 \$ 934,990.91 \$ 5.25% \$ 4.059.047.82 14 \$ 15 \$ 5.25% \$ 3,903,216.01 16 \$ 17 \$ 2,968,225.10 2,968,225.10 5.25% \$ 5.25% \$ 779,159.09 \$ 623,327.27 \$ 3,747,384.19 3,591,552.37 2,968,225.10 5.25% \$ 467,495.45 \$ 3,435,720.55 2,968,225.10 2,968,225.10 5.25% \$ 5.25% \$ 311,663.64 \$ 155,831.82 \$ 3,279,888.74 3,124,056.92 19 \$ 20 \$

10-Year

\$ 23,960,997.12 \$ 83,325,499.12

72,934,095.79

1.228580942

Bond Debt - SA B

1,664,131.02

1,664,131.02

20 \$

5.25%

5.25%

174733.7574 \$

87366.87872 \$

Sources

Par Amount +Premium / - Discount Equity contreibution

**Total Sources** 

Project desposit Uses Cost of Issuance (1%) Contingency

\$ 33,282,620.47

Total Uses

Debt Service Annually

Principal Debt Service Year Coupon Interest 1.02 \$ 18,238,876.02 \$ 51,521,496.48 \$ 33,282,620.47 \$ 1.55 \$ 18,238,876.02 \$ 48,259,799.67 \$ 1,664,131.02 4.00% 1693253.316 \$ 3,357,384.34 1 \$ 1,664,131.02 4.25% 1626688.075 \$ 3,290,819.10 1555962.507 \$ 1481076.611 \$ 1397870.06 \$ 1310503.181 \$ 3 \$ 1,664,131.02 4.50% 3,220,093.53 3,145,207.63 3,062,001.08 4 \$ 1,664,131.02 5.00% 1,664,131.02 5.25% 5 \$ 1,664,131.02 5.25% 2,974,634.20 6 \$ 1,664,131.02 5.25% 1223136.302 \$ 2,887,267.33 1,664,131.02 5.25% 1135769.423 \$ 2,799,900.45 1048402.545 \$ 961035.6659 \$ 9 \$ 1,664,131.02 5.25% 2,712,533.57 2,625,166.69 1,664,131.02 10 \$ 5.25% 1,664,131.02 5.25% 873668.7872 \$ 2,537,799.81 11 \$ 1,664,131.02 5.25% 786301.9085 \$ 2,450,432.93 12 \$ 13 \$ 1,664,131.02 5.25% 698935.0298 \$ 2,363,066.05 1,664,131.02 5.25% 611568.1511 \$ 2,275,699.17 524201.2723 \$ 436834.3936 \$ 2,188,332.30 2,100,965.42 15 \$ 1,664,131.02 5.25% 16 \$ 1,664,131.02 5.25% 17 \$ 1,664,131.02 5.25% 349467.5149 \$ 2,013,598.54 18 \$ 1,664,131.02 5.25% 262100.6362 \$ 1,926,231.66

1,838,864.78

1,751,497.90

40,890,807.97 \$ 13,433,697.69 \$ 46,716,318.15 1.403625 10-Year





# E. TRANSPORTATION IMPACT FEE CREDIT DETERMINATION SUPPORTING EXHIBITS

AD VALOREM TAXES SUMMARY	Α	В
10-YEAR GROWTH PROJECTIONS		
Residential (single family dwelling units)	1,942	1,780
Residential (mulit-family dwelling units)	3,680	1,575
Basic (square Feet)	0	2,170,000
Service (square feet)	491,000	217,000
Retail (square feet)	2,382,000	949,000
AVERAGE PROPERTY VALUE BASED ON AD VALOREM TAX DATA		
per Residential Dwelling Unit (single-family)	242,000	242,000
per Residential Dwelling Unit (multi-family)	135,000	135,000
per Square Feet of Industrial (Basic)	60	60
per Square Feet of Office (Service)	110	110
per Square Feet of Retail (Retail)	180	180
TOTAL PROPERTY VALUE BASED ON AD VALOREM TAX DATA		
per Residential Dwelling Unit	\$ 2,558,667.47	\$ 2,335,821.95
per Residential Dwelling Unit (multi-family)	\$ 2,693,927.81	\$ 1,155,966.55
per Square Feet of Industrial (Basic)	\$ -	\$ 706,017.31
per Square Feet of Office (Service)	\$ 292,872.47	\$ 129,436.51
per Square Feet of Retail (Retail)	\$ 2,324,976.83	\$ 926,281.70
	\$ 7,870,444.57	\$ 5,253,524.02

						TAXES SUMMARY				
					ervice Area A - Ad					
	0	1	2	3	4	5	6	7	8	9
1										
2	195	195	195	195	195	195	195	195	195	195
3		195	195	195	195	195	195	195	195	195
4			195	195	195	195	195	195	195	195
5				195	195	195	195	195	195	195
	PERTY VALUE BA	SED ON AD VALO			195	195	195	195	195	195
7			1			195	195	195	195	195
8							195	195	195	195
9								195	195	195
									195	195
										193
	195	390	586	780	975	1170	1365	1560	1755	1948
TAL PRO					242	2,000				0.09859
\$	46 F3F F6 . ¢	93,051.13 \$ 13	20.015.20 6.10	26 102 26   ¢	222 627 02 6	279,153.39 \$	325,678.95 \$	372,204.52 \$	418,730.08 \$	464,778.46 \$
ڔ	40,323.30 \$	55,051.15 \$ 1.	35,013.25 \$ 10	50,102.20 \$	232,027.82 3	2/9,133.39 \$	323,076.33 3	372,204.32 3	410,730.00 3	404,776.40 \$
				Se	ervice Area B - Ad	Valorem				
	0	1	2	3	4	5	6	7	8	9
1										
2	178	178	178	178	178	178	178	178	178	178
3		178	178	178	178	178	178	178	178	178
4			178	178	178	178	178	178	178	178
5				178	178	178	178	178	178	178
6					178	178	178	178	178	178
7						178	178	178	178	178
8							178	178	178	178
9								178	178	178

0.09859 \$ 42,469.49 \$ 84,938.98 \$ 127,408.47 \$ 169,877.96 \$ 212,347.45 \$ 254,816.94 \$ 297,286.43 \$ 339,755.92 \$ 382,225.41 \$ 244,694.90 \$ 2,335,821.95

				RESIDENTIA	L AD VALOREM T	AXES SUMMARY				
					vice Area A - Ad					
	0	1	2	3	4	5	6	7	8	9
1										
2	368	368	368	368	368	368	368	368	368	368
3		368	368	368	368	368	368	368	368	368
4			368	368	368	368	368	368	368	368
5				368	368	368	368	368	368	368
GE PROF	PERTY VALUE BAS	SED ON AD VALOI	REM TAX DATA		368	368	368	368	368	368
7						368	368	368	368	368
8							368	368	368	368
9								368	368	368
									368	368
										368
	368	736	1104	1472	1840	2208	2576	2944	3312	3680
PRO					135	,000				
										0.09859
\$	48,980.51 \$	97,961.01 \$ 14	16,941.52 \$ 1	95,922.02 \$	244,902.53 \$	293,883.03 \$	342,863.54 \$	391,844.04 \$	440,824.55 \$	489,805.06
				Ser	vice Area B - Ad	Valorem				
	0	1	2	3	4	5	6	7	8	9
1	ŭ	-	-	3	•	3	Ü	•	Ü	,
2	158	158	158	158	158	158	158	158	158	158
3	250	158	158	158	158	158	158	158	158	158
4			158	158	158	158	158	158	158	158
5				158	158	158	158	158	158	158
6					158	158	158	158	158	158
7						158	158	158	158	158
8						255	158	158	158	158
9								158	158	158
,								133	158	158
									130	153
	158	316	474	632	790	948	1106	1264	1422	1575
	150	310		-52	135		1100	1201	1122	1373
										0.09859

\$ 21,029.67 \$ 42,059.35 \$ 63,089.02 \$ 84,118.69 \$ 105,148.37 \$ 126,178.04 \$ 147,207.72 \$ 168,237.39 \$ 189,267.06 \$ 209,631.24 \$ 1,155,966.55

0.09859

				INDUS	TRIAL AD VALOREM						
					Service Area A - A						
	0	1	2	3	4	5	6	7	8	9	
1	_	_	_	_	_	_	_	_	_	_	
2	0	0	0	0	0	0	0	0	0	0	
3		0	0	0	0	0	0	0	0	0	
4 5			0	0	0	0	0	0	0	0	
	EDTV MALLIE DACE	D ON AD VALOREN	ATAY DATA	U	0	0	0	0	0	0	
7	ERIT VALUE BASE	D ON AD VALUREN	I IAX DATA		U	0	0	0	0	0	
8						U	0	0	0	0	
9							U	0	0	0	
9								U	0	0	
									· ·	0	
	0	0	0	0	0	0	0	0	0	0	
L PRC			Ü	, ,		60		<u> </u>			
										0.09859	
\$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	
					Service Area B - A	d Valorem					
	0	1	2	3	4	5	6	7	8	9	
1											
2	217,000	217,000	217,000	217,000	217,000	217,000	217,000	217,000	217,000	217,000	
3		217,000	217,000	217,000	217,000	217,000	217,000	217,000	217,000	217,000	
4			217,000	217,000	217,000	217,000	217,000	217,000	217,000	217,000	
5				217,000	217,000	217,000	217,000	217,000	217,000	217,000	
6					217,000	217,000	217,000	217,000	217,000	217,000	
7						217,000	217,000	217,000	217,000	217,000	
8							217,000	217,000	217,000	217,000	
9								217,000	217,000	217,000	
									217,000	217,000	
										217,000	
	217,000.00	434,000.00	651,000.00	868,000.00	1,085,000.00	1,302,000.00	1,519,000.00	1,736,000.00	1,953,000.00	2,170,000.00	
						60					
	42.025.50.4	25.572.25 4	20.540.04 4	54 045 74 A		77.000.07.4	00.055.75. 4	400 500 40 4	445 500 44 . 4	0.09859	705
\$	12,836.68 \$	25,673.36 \$	38,510.04 \$	51,346.71 \$	64,183.39 \$	77,020.07 \$	89,856.75 \$	102,693.43 \$	115,530.11 \$	128,366.78 \$	706,0

#### SERVICE AD VALOREM TAXES SUMMARY

Service Area A - Ad Valorem											
	0	1	2	3	4	5	6	7	8	9	
1											
2	49100	49100	49100	49100	49100	49100	49100	49100	49100	49100	
3		49100	49100	49100	49100	49100	49100	49100	49100	49100	
4			49100	49100	49100	49100	49100	49100	49100	49100	
5				49100	49100	49100	49100	49100	49100	49100	
AVERAGE PROP	ERTY VALUE BASED	ON AD VALOREM	TAX DATA		49100	49100	49100	49100	49100	49100	
7						49100	49100	49100	49100	49100	
8							49100	49100	49100	49100	
9								49100	49100	49100	
									49100	49100	
										49100	
	49,100.00	98,200.00	147,300.00	196,400.00	245,500.00	294,600.00	343,700.00	392,800.00	441,900.00	491,000.00	
TOTAL PRO					11	0					
										0.09859	
\$	5,324.95 \$	10,649.91 \$	15,974.86 \$	21,299.82 \$	26,624.77 \$	31,949.72 \$	37,274.68 \$	42,599.63 \$	47,924.59 \$	53,249.54 \$	292,872.47
					Service Area B - Ad V						
	0	1	2	3	4	5	6	7	8	9	
1											
2	21,700.00	21,700.00	21,700.00	21,700.00	21,700.00	21,700.00	21,700.00	21,700.00	21,700.00	21,700.00	
3		21,700.00	21,700.00	21,700.00	21,700.00	21,700.00	21,700.00	21,700.00	21,700.00	21,700.00	
4			21,700.00	21,700.00	21,700.00	21,700.00	21,700.00	21,700.00	21,700.00	21,700.00	
5				21,700.00	21,700.00	21,700.00	21,700.00	21,700.00	21,700.00	21,700.00	
6					21,700.00	21,700.00	21,700.00	21,700.00	21,700.00	21,700.00	
7						21,700.00	21,700.00	21,700.00	21,700.00	21,700.00	
8							21,700.00	21,700.00	21,700.00	21,700.00	
9								21,700.00	21,700.00	21,700.00	
									21,700.00	21,700.00	
										21,700.00	
	21,700.00	43,400.00	65,100.00	86,800.00	108,500.00	130,200.00	151,900.00	173,600.00	195,300.00	217,000.00	
					11	0					
										0.09859	
\$	2,353.39 \$	4,706.78 \$	7,060.17 \$	9,413.56 \$	11,766.96 \$	14,120.35 \$	16,473.74 \$	18,827.13 \$	21,180.52 \$	23,533.91 \$	129,436.51

#### RETAIL AD VALOREM TAXES SUMMARY

Service Area A - Ad Valorem											
	0	1	2	3	4	5	6	7	8	9	
1											
2	238200	238200	238200	238200	238200	238200	238200	238200	238200	238200	
3		238200	238200	238200	238200	238200	238200	238200	238200	238200	
4			238200	238200	238200	238200	238200	238200	238200	238200	
5				238200	238200	238200	238200	238200	238200	238200	
AVERAGE PROF	PERTY VALUE BASED	ON AD VALOREM	TAX DATA		238200	238200	238200	238200	238200	238200	
7						238200	238200	238200	238200	238200	
8							238200	238200	238200	238200	
9								238200	238200	238200	
									238200	238200	
										238200	
	238,200.00	476,400.00	714,600.00	952,800.00	1,191,000.00	1,429,200.00	1,667,400.00	1,905,600.00	2,143,800.00	2,382,000.00	
TOTAL PRC					1	80					
										0.09859	
\$	42,272.31 \$	84,544.61 \$	126,816.92 \$	169,089.22 \$	211,361.53 \$	253,633.84 \$	295,906.14 \$	338,178.45 \$	380,450.75 \$	422,723.06 \$	2,324,976.83
					Service Area B - Ad						
	0	1	2	3	4	5	6	7	8	9	
1											
2	94,900.00	94,900.00	94,900.00	94,900.00	94,900.00	94,900.00	94,900.00	94,900.00	94,900.00	94,900.00	
3		94,900.00	94,900.00	94,900.00	94,900.00	94,900.00	94,900.00	94,900.00	94,900.00	94,900.00	
4			94,900.00	94,900.00	94,900.00	94,900.00	94,900.00	94,900.00	94,900.00	94,900.00	
5				94,900.00	94,900.00	94,900.00	94,900.00	94,900.00	94,900.00	94,900.00	
6					94,900.00	94,900.00	94,900.00	94,900.00	94,900.00	94,900.00	
7						94,900.00	94,900.00	94,900.00	94,900.00	94,900.00	
8							94,900.00	94,900.00	94,900.00	94,900.00	
9								94,900.00	94,900.00	94,900.00	
									94,900.00	94,900.00	
										94,900.00	
	94,900.00	189,800.00	284,700.00	379,600.00	474,500.00	569,400.00	664,300.00	759,200.00	854,100.00	949,000.00	
					18	80					
										0.09859	
\$	16,841.49 \$	33,682.97 \$	50,524.46 \$	67,365.94 \$	84,207.43 \$	101,048.91 \$	117,890.40 \$	134,731.88 \$	151,573.37 \$	168,414.85 \$	926,281.70