CITY OF BASTROP, TEXAS 2023 TRANSPORTATION IMPACT FEE STUDY



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Prepared for the City of Bastrop

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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.

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 7,903 units within the City Limits. The 2033 projections show an increase of 6,174,000 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 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.

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 standalone 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 12th, 2023 with the intent of presenting a proposal for impact fee calculations and the adoption of an impact fee report (this study) and ordinance.





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 has retained Kimley-Horn to provide professional transportation engineering services for the 2023 Transportation Impact Fee Study. 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. 10)
- 2. Capital Improvement Plan (Pg. 16)

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. 21)
- 2. Transportation Impact Fee Calculation (Pg. 32)
- 3. Plan for Awarding the Transportation Impact Fee Credit (Pg. 35)





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.
- Land Use Assumptions Methodology An overview of the general methodology used to generate the land use assumptions.
- 3. Ten-Year Growth Assumptions Walk-through of the growth projections for 2023-2033.

Impact Fee Study Service Areas

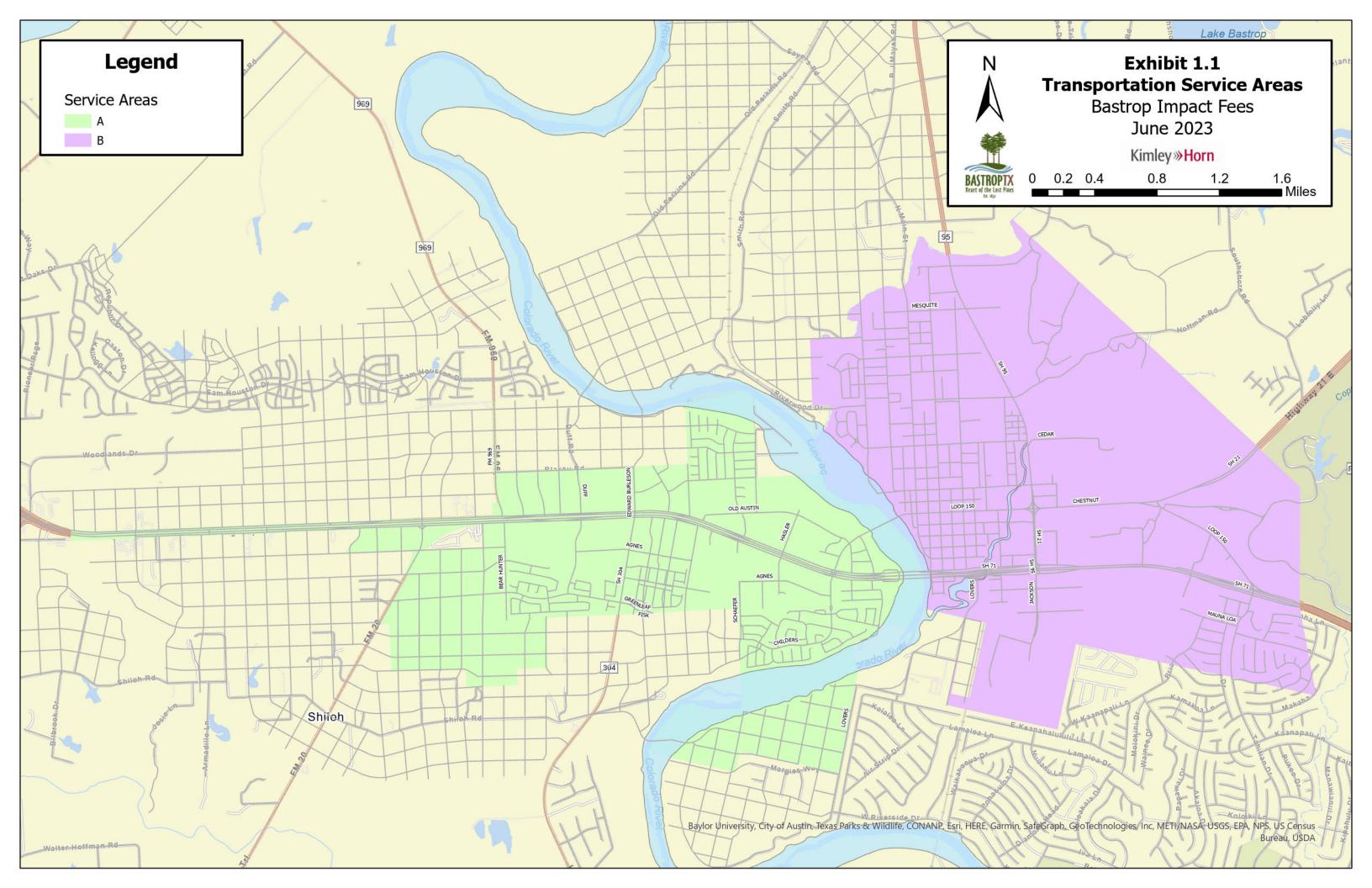
Service Area Definition

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.

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 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.

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

	Resid	ential	Commercial					
Service Area	Single-Family	Multifamily	Basic Service Retail					
	Dwellin	g Units	Sq. Ft.					
	4 units/acre	20 units/acre	FAR 0.25	FAR 0.25 FAR 0.2				
SA A	1,078	3,470	0	491,000	2,347,000			
SA B	1,780	1,575	2,170,000	217,000	949,000			
Sub-total	2,858	5,045	2,170,000 708,000 3,296,000					
Total	7,9	903	6,174,000					





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.

The CIP for Transportation Impact Fees for the 2023 Impact Fee Study are listed in **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.





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

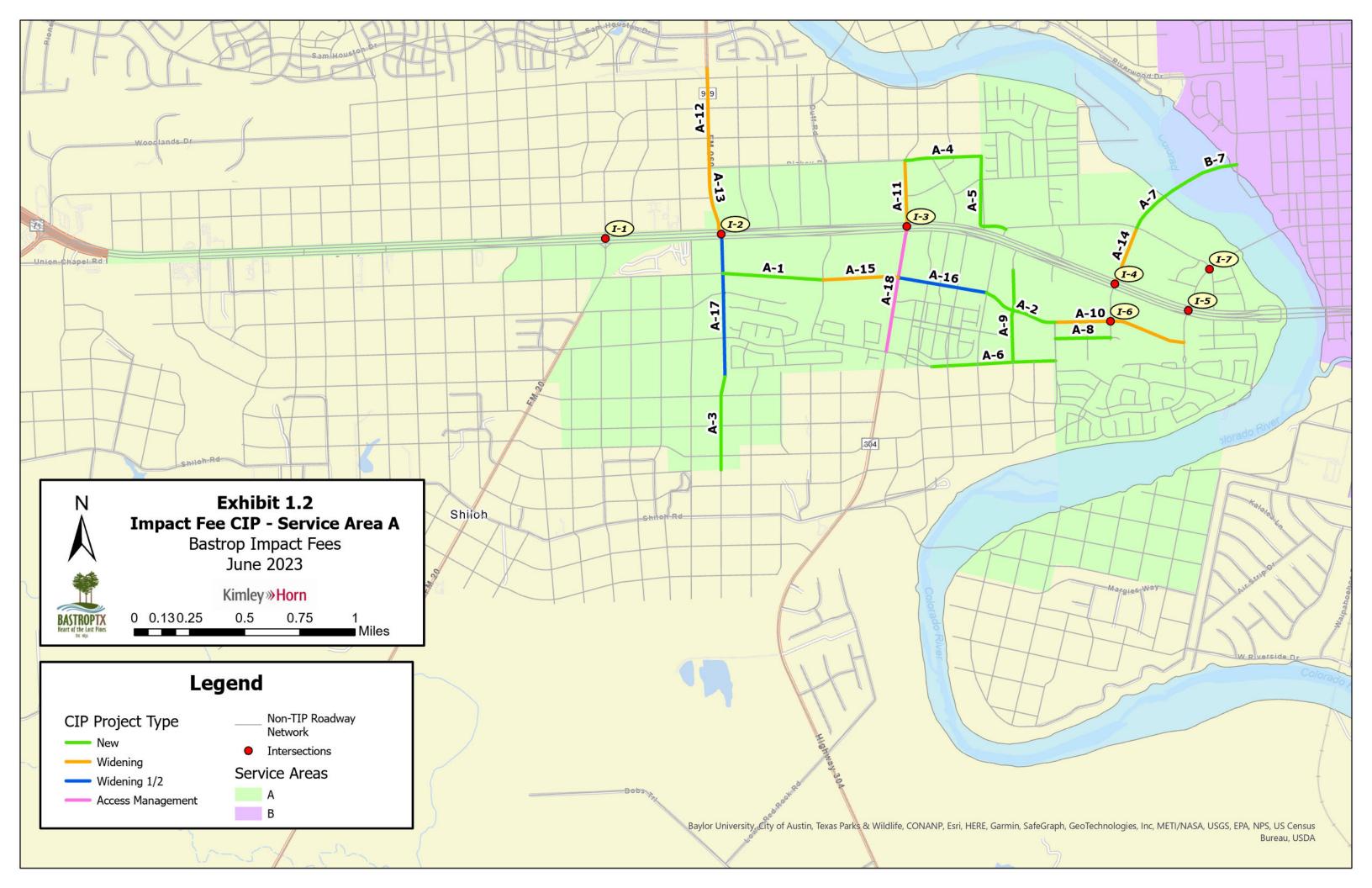
Service Area	Proj. #	Impact Fee Class	Project	Limits	Length (mi)	% In Service Area
			Roady	way Improvements		
	A-1 4D_(80) Agnes (1)		Agnes (1)	Bear Hunter Drive to Hunter's Crossing	0.46	100%
	A-2	4D_(80)	Agnes (2)	Hospital Drive to Schaefer Blvd	0.35	100%
	A-3	4D_(80)	Bear Hunter Drive (1)	Bear Hunter 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%
Α	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%

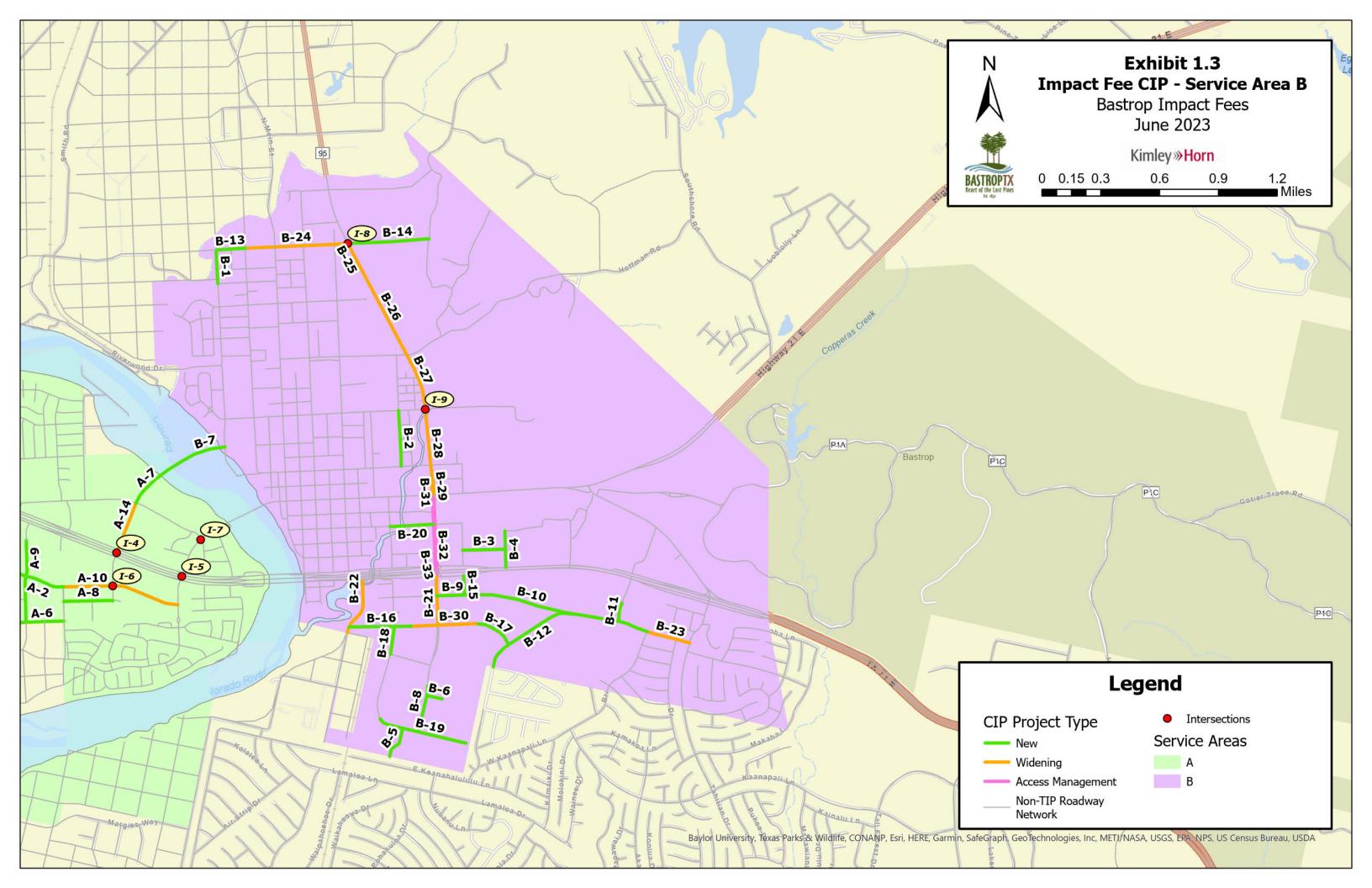




Table 3. Capital Improvement Plan for Transportation Impact Fees - Service Area B

Service Area	Proj. #	Impact Fee Class	Project	Project Limits			
			Roc	adway 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%	
	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)		100%	
	B-17	3U_(56)	South Street (2)	1,200' E of Jackson St to Mauna Loa Ln	0.21	100%	
В	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%	
			Inter	rsection 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 2023 Transportation Impact Fee Study 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 lanemile 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 ¹	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 Wultimodal Street A	30_(30)	Ondivided	630 (TxDOT)			
Primary Multimodal Street B	4D (80)	Divided	725			
Filliary Wultimodal Street B	40_(80)	Divided	870 (TxDOT)			
Local Connector Street	2U (50)	Undivided	425			
Local connector Street	20_(30)	Ondivided	510 (TxDOT)			

¹Represents "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 ¹	Description	Hourly Vehicle-Mile Capacity per Lane-Mile of Roadway Facility
1U	One-lane undivided	325
2U (TxDOT)	Two-lane undivided (with curb & gutter)	425 (510)
2U-R	Two-lane undivided (Rural Cross-Section)	350
3U (TxDOT)	Three-lane undivided	525 (630)
4U	Four-lane undivided	550
4D (TxDOT)	Four-lane divided	725 (870)
5U	Five-lane undivided	750
4D – State Highway System	Four-lane divided (Highway Facility)	900

¹Represents "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.





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						
	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	ı	100%	\$	1,100,000		
	I-4	-	Hasler Blvd & SH 21	Intersection Improvements	-	100%	\$	5,700,000		
	I-5	-	Loop 150 / Childers Dr & SH 21	Intersection Improvements	-	100%	\$	4,600,000		
	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	\$ 4	49,254,600		
				Service Area Intersection	Project Co	st Subtotal	\$:	25,900,000		
				2023 Transportation Impact Fee Study C	•			39,980		
				Total Cost in SE			-	75,194,580		

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	Class					ject Cost ir rvice 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	100%	\$	695,000				
	B-6	2U (50)	Future Collector D	Jackson St extension to 420' E of Jackson St extension							
	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)		100%	\$	1,553,000			
	B-17	3U (56)	South Street (2)	1,200' E of Jackson St to Mauna Loa Ln		100%	\$	996,000			
	B-18	2U (50)	Technology Drive (1)	Mill St to Business Park Dr		100%	\$	586,000			
	B-19	2U (50)	Technology Drive (2)	Technology Drive (existing) to City Limits		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	\$.	45,571,000			
				Service Area Intersection	Project Co	st Subtotal	_	1,000,000			
	2023 Transportation Impact Fee Study Cost Per Service Area										
	<u> </u>			Total Cost in SE			-	39,980 46,610,980			

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.

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 equation:

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

Variables:

TDF = Transportation Demand Factor

T = Trip Rate (peak hour trips / unit)

P_b = Pass-By Discount (% of trips)

 $L_{max} = Maximum Trip Length (miles)$

L = Average Trip Length (miles)

OD = Origin-Destination Reduction (50%)

SA_L = 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) 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
Pb	0%	0%	0%	0%	29%
L	7.81	<i>7</i> .81	13.20	7.04	5.83
L _{max} *	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.





Table 9. 10-Year Growth Projections

2023 - 2033 Growth Projections¹

SERVICE	RESIDENTIAL VEHICLE-MILES					NON-RESIDENTIAL SQUARE FEET ⁵		TRANS. DEMAND FACTOR ⁶			NON-RESIDENTIAL VEHICLE-MILES ¹⁰				TOTAL		
AREA	Single Family Units	Trip Rate	Multi Family Units	Trip Rate	VEHICLE MILES ⁴	BASIC	SERVICE	RETAIL	BASIC ⁷	SERVICE ⁸	RETAIL ⁹	BASIC	SERVICE	RETAIL	TOTAL	VEHICLE MILES ¹¹	
		0.94		0.39					0.65	1.44	2.41						
Α	1,078	3.68	3,470	1.52	9,241	0	491,000	2,347,000	3.90	2.00	E 07	5.07 7.04	0	2,489	16,523	19,012	28,253
В	1,780	3.00	1,575	1.52	8,944	2,170,000	217,000	949,000	3.90	5.07	7.04	8,463	1,100	6,681	16,244	25,188	
Totals	2,858		5,045		18,186	2,170,000	708,000	3,296,000				8,463	3,589	23,204	35,256	53,442	

VEHICLE-MILES OF INCREASE (2023 - 2033)

SERVICE AREA	VEH-MILES
Α	28,253
В	25,188

Notes:

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

⁴ Calculated by multiplying TDF by the number of dwelling units

⁵ From Chapter 1: Land Use Assumptions

⁶ Trip generation rate and Transportation Demand Factors from LUVMET for each land use

⁷ 'Basic' corresponds to *General Light Industrial* land use and *trip generation rate*

⁸ 'Service' corresponds to *General Office Building* land use and *trip generation rate*

⁹ 'Retail' corresponds to Shopping Center (>150k) land use and trip generation rate

¹⁰ Calculated by multiplying Transportation Demand Factor by the number of thousand square feet for each land use

¹¹ Residential plus non-residential vehicle-mile totals for each Service Area





5. 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.

Table 10. Maximum Assessable Transportation Impact Fee Computation

Li	ne	Title	Description
		Total Vehicle-Miles of	The total number of vehicle-miles added to the service area based
	1	Capacity Added by the	on the capacity, length, and number of lanes in each project (from
		Impact Fee CIP	Appendix A – 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
2	Existing Demand	facilities upon which capacity is being added. (from Appendix A –
	Existing Demand	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 by the
3	Existing Deficiencies	existing roadway system (from Appendix 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.





4	Net Amount of Vehicle-	A measurement of the amount of vehicle-miles added by the RIF CIP
4	Miles of Capacity Added	that will not be utilized by existing demand (Line 1 – Line 2– 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 (from
5	Roadway CIP within the	Tables 6-7: 10-Year RIF CIP with Conceptual Level Cost Opinions)
	Service Area	

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).

	Cost to Meet Existing Needs and Usage	The difference between the Total Cost of the Roadway Impact Fee
7		CIP (Line 5) and the Cost of the Net Capacity supplied (Line 6)
	needs and Osage	(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.

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

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 (Line 8) by
	Capacity Added	the Net Amount of Capacity Added (Line 4), limited to 100%. This
, ,	Attributable to New	calculation is required by Chapter 395 to ensure capacity added is
	Growth	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.





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

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 service area
12	Intersection CIP within the	(from Tables 6-7 : 10-Year Intersection CIP with Conceptual Level
	Service Area	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 (from
13	Capacity Added Attributable to New	Table 9) by the Total Vehicle-Miles of Existing and New Demand 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.

14	Cost of <u>Intersection</u> RIF CIP Attributable to New Growth	The result of multiplying the Cost of the Intersection RIF CIP (Line 12) by the Percent of Intersection Capacity Added 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 new	
	15		growth (Line 11) to the Cost of the Intersection CIP Attributable to	
			new growth (Line 14) less credits for previous 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). The following table summarizes the portions of **Table 11** that utilize this credit calculation.

Line	Title	Description	
16	Financing Costs	(from Appendix D — Summary of Transportation Impact Fee Credit Determination)	
17	Interest Earnings	(from Appendix D — Summary of Transportation Impact Fee Credit Determination)	
18	Cost of the Total Transportation Impact Fee CIP and Financing Attributable to New Growth	The sum of the Cost of Capacity Added Attributable to New Growth, Financing Costs, less Interest Earnings. (Line 15 + Line 16 - Line 17)	
19	Pre-Credit Maximum Fee Per Service Unit	Found by dividing the Cost of the CIP and Financing Attributable to New Growth (Line 18) by the Total Vehicle-Miles of New Demand Over Ten Years (Line 8). (Line 18 / Line 8)	
20	Credit for Ad Valorem Taxes	A credit for the portion of ad valorem taxes projected to be generated by the new service units, as per Section 395.014 of the Local Government Code. (from Appendix E – Transportation Impact Fee Credit Determination Supporting Exhibits)	
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 Impact Fee						
	SERVICE AREA:	SA A	SA B				
1	TOTAL VEH-MI OF CAPACITY ADDED BY THE IMPACT FEE CIP (FROM CIP UNITS OF SUPPLY, APPENDIX B)	19,958	19,511				
2	TOTAL VEH-MI OF EXISTING DEMAND (FROM CIP UNITS OF SUPPLY, APPENDIX B)	2,124	5,189				
3	TOTAL VEH-MI OF EXISTING DEFICIENCIES (FROM EXISTING ROADWAY FACILITIES INVENTORY, APPENDIX C)	34	490				
4	NET AMOUNT OF VEH-MI OF CAPACITY ADDED (LINE 1 - LINE 2 - LINE 3)	17,800	13,832				
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)	28,253	25,188				
9	PERCENT OF CAPACITY ADDED ATTRIBUTABLE TO GROWTH (LINE 8 / LINE 4)	158.7%	182.1%				
10	CHA PTER 395 CHECK (IF LINE 8 > LINE 4, REDUCE LINE 9 TO 100%, OTHERWISE NO CHA NGE)	100.0%	100.0%				
11	COST OF CAPACITY ADDED ATTRIBUTA BLE TO NEW GROWTH (LINE 6 * LINE 10)	\$43,964,502	\$32,335,148				
12	TOTAL COST OF THE INTERSECTION IMPACT FEE CIP WITHIN SERVICE A REA (FROM TABLES 6-7)	\$25,900,000	\$1,000,000				
13	PERCENT OF INTERSECTION CAPACITY ADDED ATTRIBUTABLE TO GROWTH (FROM TABLE9 AND LAND USE ASSUMPTIONS)	100.0%	94.7%				
14	COST OF INTERSECTION IMPACT FEE CIP A TTRIBUTABLE TO GROWTH (LINE 12 * LINE 13)	\$25,900,000	\$947,472				
15	COST OF TOTAL RECOVERABLE TRANSPORTATION IMPACT FEE CIP A TTRIBUTABLE TO GROWTH (LINE 11 + LINE 14)	\$69,864,502	\$33,282,620				
16	FINANCING COSTS (FROM SUMMARY OF TRANSPORTATION IMPACT FEE CREDIT DETERMINATION, APPENDIX D)	\$23,960,997	\$13,433,698				
17	INTEREST EA RNINGS (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 (LINE 15 + LINE 16 - LINE 17)	\$83,434,096	\$40,890,808				
19	PRE-CREDIT MAXIMUM FEE PER SERVICE UNIT (\$ PER VEH-MI) (LINE 18 / LINE 8)	\$2,953	\$1,623				
20	CREDIT FOR AD VALOREM TAXES (FROM TRANSPORTATION IMPACT FEE CREDIT DETERMINATION SUPPORTING EXHIBITS, APPENDIX E)	\$6,540,887	\$5,253,524				
21	RECOVERABLE COST OF THE TRANSPORTATION IMPACT FEE CIP AND FINANCING (LINE 18 - LINE 20)	\$76,893,209	\$35,637,284				
22	MAXIMUM ASSESSABLE FEE PER SERVICE UNIT (\$ PER VEH-MI) (LINE 21 / LINE 8)	\$2,721	\$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 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.





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

PORT AND TERMINAL	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
Truck Terminal 30									6.00	
INDUSTRIAL Ceneral Light Industrial 110 Industrial Park 130 Warehousing 150 Mini-Warehouse 151 RESIDENTIAL Single-Family Detached Housing 215 Multifamily Housing (Mid-Rise) 220 Multifamily Housing (Mid-Rise) 221 Multifamily Housing (Mid-Rise) 222 Senior Adult Housing-High-Rise) 222 Senior Adult Housing-Attached 251 Senior Adult Housing-Attached 252 Assisted Living 254 LODGING University of the Control of the Con										
General Light Industrial	1,000 SF GFA	1.87	0%		1.87	13.20	50%	6.60	6.00	11.22
Industrial Park										ļ
Warehousing 150 Mini-Warehouse 151 RESIDENTIAL Single-Family Detached Housing 210 Single-Family Detached Housing 215 Multifamily Housing (Low-Rise) 220 Multifamily Housing (Mid-Rise) 221 Multifamily Housing (High-Rise) 222 Senior Adult Housing-Detached 251 Senior Adult Housing-Attached 252 Assisted Living 254 LODGING	1,000 SF GFA	0.65	0%		0.65	13.20	50%	6.60	6.00	3.90
Mini-Warehouse	1,000 SF GFA	0.34	0%		0.34	13.20	50%	6.60	6.00	2.04
RESIDENTIAL Single-Family Detached Housing 210	1,000 SF GFA	0.18	0%		0.18	13.20	50%	6.60	6.00	1.08
Single-Family Detached Housing 210	1,000 SF GFA	0.15	0%		0.15	13.20	50%	6.60	6.00	0.90
Single-Family Attached Housing	D III II III	0.04	00/		0.04	7.01	500/	2.01	2.01	2.60
Multifamily Housing (Low-Rise) 220 Multifamily Housing (Mid-Rise) 221 Multifamily Housing (Migh-Rise) 222 Senior Adult Housing-Detached 251 Senior Adult Housing-Attached 252 Assisted Living 254 LODGING 310 Motel 320 RECREATIONAL 416 Campground/RV Park 416 Golf Driving Range 432 Golf Course 430 Recreational Community Center 495 Ice Skating Rink 465 Miniature Golf Course 431 Multiplex Movie Theater 445 Racquet/Tennis Club 491 INSTITUTIONAL 520 Middle School/Junior High School 522 Church 560 Day Care Center 565 University/College 550 MEDICAL Clinic	Dwelling Unit(s)	0.94	0%		0.94	7.81	50%	3.91	3.91	3.68 2.23
Multifamily Housing (Mid-Rise) 221 Multifamily Housing (High-Rise) 222 Senior Adult Housing-Detached 251 Senior Adult Housing-Attached 252 Assisted Living 254 LODGING 310 Hotel 310 Motel 320 RECREATIONAL 416 Colf Driving Range 432 Golf Course 430 Recreational Community Center 495 Ice Skating Rink 465 Miniature Golf Course 431 Multiplex Movie Theater 445 Racquet/Tennis Club 491 INSTITUTIONAL 520 Middle School/Junior High School 522 High School 525 Church 560 Day Care Center 565 University/College 550 MEDICAL 630	Dwelling Unit(s)	0.57	0%		0.57	7.81	50%	3.91	3.91 3.91	
Multifamily Housing (High-Rise) 222	Dwelling Unit(s) Dwelling Unit(s)	0.51	0% 0%		0.51	7.81 7.81	50%	3.91 3.91	3.91	1.99
Senior Adult Housing-Detached 251	Dwelling Unit(s)	0.39	0%		0.39	7.81	50%	3.91	3.91	1.32
Senior Adult Housing-Attached 252	Dwelling Unit(s)	0.32	0%		0.32	7.81	50%	3.91	3.91	1.17
Assisted Living	Dwelling Unit(s)	0.30	0%		0.30	7.81	50%	3.91	3.91	0.98
LODGING	Bed(s)	0.24	0%		0.23	7.81	50%	3.91	3.91	0.94
Hotel	Ded(3)	0.24	070		0.24	7.01	2070	3.71	3.71	0.74
Motel 320	Room(s)	0.59	0%		0.59	6.41	50%	3.20	3.20	1.89
RECREATIONAL Campground/RV Park 416 Golf Driving Range 432 430 Recreational Community Center 495 Ice Skating Rink 465 Miniature Golf Course 431 Multiplex Movie Theater 445 Racquet/Tennis Club 491 INSTITUTIONAL Elementary School 520 Middle School/Junior High School 522 High School 525 Church 560 Day Care Center 565 University/College 550 MDICAL Clinic 630 College Clinic College Coll	Room(s)	0.36	0%		0.36	6.41	50%	3.20	3.20	1.15
Campground/RVPark										
Golf Driving Range	Occupied Campsites	0.27	0%		0.27	10.95	50%	5.47	5.47	1.48
Recreational Community Center	Driving Position(s)	1.25	0%		1.25	10.95	50%	5.47	5.47	6.84
Ice Skating Rink	Hole(s)	2.91	0%		2.91	10.95	50%	5.47	5.47	15.92
Miniature Golf Course	1,000 SF GFA	2.50	0%		2.50	10.95	50%	5.47	5.47	13.68
Multiplex Movie Theater 445 Racquet/Tennis Club 491 INSTITUTIONAL 20 Elementary School 520 Middle School/Junior High School 522 High School 525 Church 560 Day Care Center 565 University/College 550 MEDICAL 630	1,000 SF GFA	1.33	0%		1.33	10.95	50%	5.47	5.47	7.28
Racquet/Tennis Club	Hole(s)	0.33	0%		0.33	10.95	50%	5.47	5.47	1.81
INSTITUTIONAL	Screen(s)	13.96	0%		13.96	10.95	50%	5.47	5.47	76.36
Elementary School 520 Middle School/Junior High School 522 High School 525 Church 560 Day Care Center 565 University/College 550 MEDICAL Clinic 630	Court(s)	3.82	0%		3.82	10.95	50%	5.47	5.47	20.90
Middle School/Junior High School 522 High School 525 Church 560 Day Care Center 565 University/College 550 MEDICAL 630										
High School 525	Student(s)	0.16	0%		0.16	1.67	50%	0.83	0.83	0.13
Church 560 Day Care Center 565 University/College 550 MEDICAL 630	Student(s)	0.15	0%		0.15	1.67	50%	0.83	0.83	0.12
Day Care Center 565 University/College 550 MEDICAL Clinic Clinic 630	Student(s)	0.14	0%		0.14	1.67	50%	0.83	0.83	0.12
University/College 550 MEDICAL Clinic Clinic 630	1,000 SF GFA	0.49	0%		0.49	1.51	50%	0.75	0.75	0.37
MEDICAL Clinic 630	1,000 SF GFA	11.12	44%	С	6.23	1.67	50%	0.83	0.83	5.17
Clinic 630	Student(s)	0.15	0%		0.15	1.67	50%	0.83	0.83	0.12
Hospital 610	1,000 SF GFA	3.69	0%		3.69	5.99	50%	3.00	3.00	11.07
	1,000 SF GFA	0.86	0%		0.86	5.99	50%	3.00	3.00	2.58
Nursing Home 620 Animal Hospital/Veterinary Clinic 640	Bed(s) 1,000 SF GFA	0.14 3.53	0% 30%	В	0.14 2.47	5.99 5.99	50%	3.00	3.00	7.41





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%	C	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%	C	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%	C	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]
316P	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 3iep	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
Step	From Table 12 [Land Use – Vehicle-Mile Equivalency Table]
316P	Development Type: 125,000 square feet of Home Improvement Superstore
'	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 3iep	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	A	В
2023 Maximum Assessable Fee Per Service Unit (\$/Veh-mi)	\$2,721	\$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

••••	AICAA											
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%	-	-	-	-	\$ 1,100,000
I-4	Hasler Blvd & SH 21	Intersection Improvements	11	NTERSE	CTION IMPROVEME	NTS	100%	-		-	-	\$ 5,700,000
I-5	Loop 150 / Childers Dr & SH 21	Intersection Improvements					100%	-	-	-	-	\$ 4,600,000
I-6	Agnes & Hasler	Roundabout					100%	-	-	-	-	\$ 2,000,000
I-7	Old Austin & Loop 150	Roundabout					100%	-	-	-	-	\$ 2,000,000
SUBTOTAL												\$ 25,900,000

2023 Roadway Impact Fee Study Cost Per Service Area \$ 39,980
TOTAL COST IN SERVICE AREA A \$ 75,194,580

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

Service Area B 6/20/2023

	AICU B		_									
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	- 10	NTEDEE	CTION IMPROVEME	NITO	100%	-	-	-	-	\$ 500,000
I-9	SH 95 & Cedar St	Traffic Signal	"	VIEROE	.CTION IIVIPROVEIVIE	INIO	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

										PM	% IN	VE			H-MI		H-MI	EXCE		EXISTING
ROADWAY	FROM	то	LENGTH	LENGTH		IST	EXIST	TxDOT		EAK	SERVICE	CAP			PPLY		IAND	CAPAC		DEFICIENCIES
			(ft)	(mi)	LA	NES	LANES	(Y/N)		OUR	AREA	PK			-HR		-HR	PK-H		PK-HR
							_			OL			LN		TAL		TAL	VEH-		VEH-MI
					NB/EB	SB/WB		_	NB/EB			NB/EB	SB/WB		SB/WB		SB/WB	NB/EB		NB/EB SB/WB
	SH 304	Hospital Drive	2140	0.41	1	1	2U	_	6	11	100%	425	425	172	172	2	4	170	168	
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	
	FM 969	Duff Dr	2764	0.52	1	1	3U	N	268	146	100%	525	525	275	275	140	76	135	198	
	Duff Dr	Edward Burleson Ln	1915	0.36	1	1	3U	Y	268	146	100%	630	630	229	229	97	53	131	176	
	Hasler Blvd	Trailside Ln	2661	0.50	1	1	2U		179	199	100%	425	425	214	214	90	100	124	114	
Childers Dr	Schaefer Blvd	Hasler 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	
	Blakey	SH 21 EBFR	1696	0.32	1	- 1	3U	Y	229	545	100%	630	630	202	202	74	175	129	27	
	SH 21 EBFR	City Limits	1772	0.34	1	- 1	3U	Y	386	557	100%	900	900	302	302	130	187	173	115	
	City Limits	Solomon Ln	4178	0.79	1	1	3U	Y	212	211	50%	900	900	356	356	84	83	272	273	
FM 969	Blakey Ln	State Highway 21	1501	0.28	1	1	2U	Y	305	378	100%	900	900	256	256	87	107	169	148	
FM 969	City Limits	Blakey Ln	2406	0.46	1	1	2U	Y	387	648	100%	900	900	410	410	176	295	234	115	
Hasler Blvd	State Highway 21 W Frontage Rd	Walmart Drive	1187	0.22	1	1	2U	Y	14	13	100%	510	510	115	115	3	3	111	112	
Hasler Blvd	Old Austin Hwy	SH 21	1342	0.25	- 1	- 1	3U	Y	467	447	100%	630	630	160	160	119	114	41	47	
Home Depot Way	Hunter's Crossing	SH 304	1804	0.34	1	1	2U		6	11	100%	425	425	145	145	2	4	143	141	
Hunter's Crossing	SH 71	Hunter's Point	2573	0.49	- 1	- 1	3U		156	156	100%	525	525	256	256	76	76	180	180	
Hunters Point Dr	Bear Hunter Dr	State Highway 304	3943	0.75	- 1	- 1	2U	Y	122	64	100%	510	510	381	381	91	48	290	333	
Loop 150	SH 21	Old Austin Hwy	1161	0.22	- 1	- 1	3U	Y	446	376	100%	900	900	198	198	98	83	100	115	
Loop 150	Old Austin Hwy	Colorado River	1580	0.30	- 1	- 1	3U	Y	926	835	100%	900	900	269	269	277	250	-8	19	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	1	2U	Y	217	326	100%	510	510	228	228	97	146	131	82	
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	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	
	SH 71	Hunters Point Drive	476	0.09	- 1	- 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 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	
	Approx. Bastrop City Limit	Navarro Blvd	2189	0.41	2	2	4D	Ý	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	Ý	222	0	100%	900	900	1,069	1,069	132	0	937	1.069	
	FM 20	Edward Burleson Ln	7220	1.37	2	2	4D	Ý	448	0	100%	900	900	2,461	2,461	613	0	1.849	2.461	
	Edward Burleson Ln	Hasier Blvd	5219	0.99	2	2	4D	Ý	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	Ý	0	957	100%	900	900	1,168	1,168	0	621	1,168	547	- 1001
SH 71 WBFR	Approx. Bastrop City Limit	Navarro Blvd	2176	0.41	2	2	4D	Ý	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	v	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	Ý	0	139	100%	900	900	1,069	1.069	0	83	1.069	986	-
	FM 20	Edward Burleson Ln	7219	1.37	2	2	4D	v	0	539	100%	900	900	2.461	2.461	0	737	2.461	1.724	
	North entrance of Lost Pines RV Park	Edward Burieson Ln State Highway 71 Frontage Road	444	0.08	1	1	2U	+ '	25	25	100%	425	425	36	2,461	2	2	34	34	
SUBTOTAL	PROFESION OF LOST THE TOTAL THE	Joseph Lightney 7 1 1 10 mage 10000	80,985	15,34			20	1	23	20	10078	723	723		14,939	4 984	3,401		11.538	28 6
000101AL	II .	I .	30,303	10.04			-1		1						877		385	21.4		

6/20/2023

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

Service Area B

ROADWAY	FROM	то	LENGTH (ft)	LENGTH (mi)		XIST	EXIST LANES	TxDOT (Y/N)	PE HC	PM EAK OUR OL	%IN SERVICE AREA	CAPA PK	H-MI Acity -Hr R Ln	VEH SUP PK- TOT	PLY HR	DEN PK	H-MI IAND -HR TAL	CAP	CESS ACITY K-HR EH-MI	DEFICI PK	STING CIENCIES K-HR EH-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	4
Loop 150	Water St	Pecan St	388	0.07	1	1	3U		610	460	100%	525	525	39	39	45	34	-6	5	6	4
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	4
Loop 150	Jefferson St	Hill St	396	0.08	1	1	3U	Y	610	460	100%	900	900	68	68	46	35	22	33	<u> </u>	4
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		
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	Υ	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		1
SH 21	Chestnut St	Walnut St	1578	0.30	2	2	5U	Y	1190	1006	100%	900	900	538	538	356	301	182	237		1
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		1
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		1
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		1
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		1
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		1
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		1
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		1
SH 71 EBFR	ArenaDr	Loop 150	3851	0.73	2	2	4D	Ý	624	0	100%	900	900	1.313	1,313	455	0	858	1,313		1
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		1
SH 71 WBFR	End of bridge (where undivided lanes become divided)	SH 21	3166	0.60	2	2	4D	Ý	0	1095	100%	900	900	1.079	1.079	0	657	1.079	423		1
SH 71 WBFR	SH 21	Arena Dr	3612	0.68	2	2	4D	Ý	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	Ý	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	Ý	1120	976	100%	900	900	297	297	185	161	112	136		+
SH 95	Cedar St	Spring St	1883	0.16	1	1	3U	Ý	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	0.50	1	1	2U	Y	1120	976	100%	900	900	460	460	572	499	-112	-39	112	39
SH 95	City Limits	Mesquite St	1930	0.51	1	1	3U	Y	1120	976	100%	900	900	329	329	409	357	-112	-39	80	28
					+ :	-		Y													
SH 95 South Street	Mesquite St	700' S of Mesquite St	697 1673	0.13	1	1 1	3U 2U-R	Y	1120 22	976 22	100%	900 420	900 420	119 133	119	148	129	-29 126	-10 126	29	10
	650' W of Jackson St	1,200' E of Jackson St		13,27		1 1	2U-K	Y	- 22	22	100%	420	420				6.746	9.838			+
SUBTOTAL			70,091	13.27										17,534	17,534 068	7,696	442		10,788 0.626	364	126 490

Appendix B
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	<u>Project</u>		<u>Limits</u>	<u>Pr</u>	oject Cost		al Cost in
				<u>From</u>	<u>To</u>			<u>Sei</u>	VICE AI ea
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	\$ 1,100,000
I-4	Intersection Improvements	Hasler Blvd & SH 21	\$ 300,000	\$ 5,700,000
I-5	Intersection Improvements	Loop 150 / Childers Dr & SH 21	\$ 300,000	\$ 4,600,000
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.

Kimley-Horn and Associates, Inc.

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection

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

Road	Iway Construction Cost Pro	jection					
No.	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" depth	1)	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
Major	Construction Component Allowa	ınces**:					
						_	
	Item Description	Notes			Allowance		Item Cost
	Item Description Traffic Control	Notes None Anticipated			Allowance 0%	\$	Item Cost
√,	Traffic Control Pavement Markings/Signs/Posts		or Bicycle Faciltie	s		-	61,933
√ √	Traffic Control	None Anticipated	•	S	0%	\$	-
,	Traffic Control Pavement Markings/Signs/Posts	None Anticipated Includes Striping/Signs f	•	S	0% 4% 30% 6%	\$ \$ \$	61,933 464,498 92,900
V	Traffic Control Pavement Markings/Signs/Posts Roadway Drainage	None Anticipated Includes Striping/Signs f	•	S	0% 4% 30%	\$ \$ \$	61,933 464,498 92,900 46,450
V	Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination	None Anticipated Includes Striping/Signs f Standard Internal Syster	•	S	0% 4% 30% 6% 3% 2%	\$ \$ \$ \$ \$	61,933 464,498 92,900 46,450 30,967
V	Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water	None Anticipated Includes Striping/Signs f Standard Internal Syster Minor Adjustments	•	S	0% 4% 30% 6% 3%	\$ \$ \$ \$ \$	61,933 464,498 92,900 46,450
\[\frac{1}{\sqrt{1}} \]	Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water Sewer	None Anticipated Includes Striping/Signs f Standard Internal Syster Minor Adjustments Minor Adjustments	•		0% 4% 30% 6% 3% 2%	\$ \$ \$ \$ \$ \$	61,933 464,498 92,900 46,450 30,967
\[\frac{1}{\sqrt{1}} \]	Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water Sewer Landscaping and Irrigation	None Anticipated Includes Striping/Signs f Standard Internal Syster Minor Adjustments Minor Adjustments	n	Allowa	0% 4% 30% 6% 3% 2% 6% unce Subtotal:	\$ \$ \$ \$ \$ \$ \$ \$ \$	61,933 464,498 92,900 46,450 30,967 92,900 789,647
\[\frac{1}{\sqrt{1}} \]	Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water Sewer Landscaping and Irrigation	None Anticipated Includes Striping/Signs f Standard Internal Syster Minor Adjustments Minor Adjustments	Pav	Allowa	0% 4% 30% 6% 3% 2% 6% Ince Subtotal:	\$\$\$\$\$\$	61,933 464,498 92,900 46,450 30,967 92,900 789,647
\[\frac{1}{\sqrt{1}} \]	Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water Sewer Landscaping and Irrigation	None Anticipated Includes Striping/Signs f Standard Internal Syster Minor Adjustments Minor Adjustments	Pav	Allowa ring and Allowa n Contingency:	0% 4% 30% 6% 3% 2% 6% Ince Subtotal:	\$	61,933 464,498 92,900 46,450 30,967 92,900 789,647 2,337,974 233,797
\[\frac{1}{\sqrt{1}} \]	Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water Sewer Landscaping and Irrigation	None Anticipated Includes Striping/Signs f Standard Internal Syster Minor Adjustments Minor Adjustments	Pav	Allowa	0% 4% 30% 6% 2% 6% Ince Subtotal: 10%	\$	61,933 464,498 92,900 46,450 30,967 92,900 789,647

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

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.

2,923,000

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-2

Name: Agnes (2) Construction of a 4 lane highway arterial with a median with Limits: Hospital Drive to Schaefer Blvd 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): 1,830

Road	lway Construction Cost Projection						
No.	Item Description	Quantity	Unit	Un	it Price	Item Cost	
103	Unclassified Street Excavation (3' depth)	10,167	CY	\$	8.73	\$	88,755
203	Earthwork/Topsoil (6" depth)	7,320	SY	\$	1.83	\$	13,396
303	6" Asphalt (Type C)	537	TON	\$	140.87	\$	75,619
403	Asphalt Prime Coat	5,368	GAL	\$	6.00	\$	32,208
503	Lime Treated Subgrade (12" depth)	10,167	SY	\$	3.46	\$	35,177
603	18" Flexible Base	10,167	SY	\$	56.20	\$	571,367
703	6' Concrete Sidewalk (4" depth)	2,440	SY	\$	62.92	\$	153,525
803	Machine Laid Curb & Gutter	7,320	LF	\$	22.37	\$	163,748
903	Turn Lanes and Median Openings	374	SY	\$	118.58	\$	44,351

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

Item Description	Notes	Allowance	L	Item Cost
Traffic Control	None Anticipated	0%	\$	
Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$	47,12
Roadway Drainage	Standard Internal System	30%	\$	353,44
Illumination		6%	\$	70,68
Water	Minor Adjustments	3%	\$	35,34
Sewer	Minor Adjustments	2%	\$	23,56
Landscaping and Irrigation		6%	\$	70,68
owances based on % of Paving Construction (Cost Subtotal Allowa	ance Subtotal:	\$	600,8
	Paving and Allowa	nce Subtotal:	\$	1,778,99
	Construction Contingency:	10%	\$	177,90
	Mobilization	11%	\$	195,69
	Prep ROW	4%	\$	71,1
		ost TOTAL:		

Impact Fee Project Cost Sur	nmary			
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	Cost 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.

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

6/20/2023 updated:

Project Information: Name:

Description: New

Project No.

A-3

Limits:

Bear Hunter Drive (1)

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

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.

Impact Fee Class: Primary Multimodal Street B

Ultimate Class: 4D_(80) Length (If): 2,240

No.	Item Description	Quantity	Unit	Uı	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
903	Turn Lanes and Median Openings		Construction	Ŧ		,	<u> </u>

Item Description	Notes		Allowance	Item Cost
Traffic Control	None Anticipated		0%	\$
Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties		4%	\$ 57,
Roadway Drainage	Standard Internal System		30%	\$ 432,
Illumination			6%	\$ 86,
Water	Minor Adjustments		3%	\$ 43,
Sewer	Minor Adjustments		2%	\$ 28,
Landscaping and Irrigation			6%	\$ 86,
owances based on % of Paving Construction C	cost Subtotal	Allowa	nce Subtotal:	\$ 735,

7.1101.01.000 0.000 0.1.70 0.1. 0.111g		Τ,	
		₩	
Paving and All	owa <u>nce Subtotal:</u>	\$	2,177,572
Construction Continger	cy: 10%	\$	217,757
Mobiliza	ion 11%	\$	239,533
Prep R	OW 4%	\$	87,103
Constructio	Cost TOTAL:	\$	2,722,000

Impact Fee Project Cost Sur	nmary			
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	Cost 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.

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

Road	dway Construction Cost Pro	iection						
No.	Item Description	Jeduon	Quantity	Unit	Uni	it Price		Item Cost
104	Unclassified Street Excavation (2'	depth)	4,893	CY	\$	8.73	\$	42,719
204	Earthwork/Topsoil (6" depth)	1 /	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	n)	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		0	SY	\$	63.33	\$	-
			Paving	Construction (Cost S	Subtotal:	\$	504,280
Major	Construction Component Allowa	inces**:				-		
	Item Description	Notes			Allo	wance		Item Cost
	Traffic Control	None Anticipated				0%	\$	-
V	Pavement Markings/Signs/Posts	Includes Striping/Signs for	or Bicycle Facilties	S		4%	\$	20,171
V	Roadway Drainage	Standard Internal System	0					
2			1			30%	\$	151,284
V	Illumination		1			30% 6%	\$ \$	30,257
V	Illumination Water	Minor Adjustments	ı					•
√ √		,	1			6%	\$	30,257
\ \ \	Water	Minor Adjustments	1			6% 3% 2% 6%	·	30,257 15,128
Ż	Water Sewer	Minor Adjustments Minor Adjustments		Allowa	nce S	6% 3% 2%	·	30,257 15,128 10,086
Ż	Water Sewer Landscaping and Irrigation	Minor Adjustments Minor Adjustments				6% 3% 2% 6% Subtotal:	\$ \$ \$ \$ \$ \$	30,257 15,128 10,086 30,257 257,183
Ż	Water Sewer Landscaping and Irrigation	Minor Adjustments Minor Adjustments	Pav	ving and Allowa		6% 3% 2% 6% Subtotal:	\$ \$ \$ \$ \$ \$	30,257 15,128 10,086 30,257 257,183
Ż	Water Sewer Landscaping and Irrigation	Minor Adjustments Minor Adjustments	Pav	ving and Allowan Contingency:	nce S	6% 3% 2% 6% Subtotal: 10%	\$ \$ \$ \$ \$ \$	30,257 15,128 10,086 30,257 257,183 761,462 76,146
Ż	Water Sewer Landscaping and Irrigation	Minor Adjustments Minor Adjustments	Pav	ving and Allowa n Contingency: Mobilization	nce S	6% 3% 2% 6% Subtotal: 10% 11%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	30,257 15,128 10,086 30,257 257,183 761,462 76,146 83,761
Ż	Water Sewer Landscaping and Irrigation	Minor Adjustments Minor Adjustments	Pav Construction	ving and Allowan Contingency:	nce S	6% 3% 2% 6% Subtotal: 10% 11% 4%	\$ \$ \$ \$ \$ \$ \$ \$ \$	30,257 15,128 10,086 30,257 257,183 761,462 76,146

Impact Fee Project Cost Sur	nmary			
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

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-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

No.	Item Description	Quantity	Unit	Uı	nit Price	I	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	n Cost	Subtotal:	\$	627,945

	Item Description	Notes	Allowance	Item Cost
	Traffic Control	None Anticipated	0%	\$ -
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$ 25,118
	Roadway Drainage	Standard Internal System	30%	\$ 188,383
	Illumination		6%	\$ 37,677
$\sqrt{}$	Water	Minor Adjustments	3%	\$ 18,838
$\sqrt{}$	Sewer	Minor Adjustments	2%	\$ 12,559
	Landscaping and Irrigation		6%	\$ 37,677
'Allow	ances based on % of Paving Construction C	Cost Subtotal All	owance Subtotal:	\$ 320,252
		Paving and All	owance Subtotal:	\$ 948.197

Faviliy aliu Allowa	nce Subtotal.	Ψ	940,197
Construction Contingency:	10%	\$	94,820
Mobilization	11%	\$	104,302
Prep ROW	4%	\$	37,928
Construction C	ost TOTAL:	\$	1,186,000
Impact Fee Project Cost Summary			

Impact Fee Project Cost Sun 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 Cost 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.

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection

Turn Lanes and Median Openings

Kimley-Horn and Associates, Inc.

updated: 6/20/2023

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

Name: Greenleaf Fisk Dr 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): 2,985

902

Roadway Construction Cost Projection										
No.	Item Description	Quantity	Unit	U	nit 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	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)	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			

Paying Construction Cost Subtotal: \$ 943.704

Item Description	Notes	Allowance	Item Cost
Traffic Control	None Anticipated	0%	\$
Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$ 37
Roadway Drainage	Standard Internal System	30%	\$ 283
Illumination		6%	\$ 56
Water	Minor Adjustments	3%	\$ 28
Sewer	Minor Adjustments	2%	\$ 18
Landscaping and Irrigation		6%	\$ 56
wances based on % of Paving Construction (\$ 481
	Paving and Allowa		\$ 1,424
	Construction Contingency:	10%	\$ 142
	Mobilization	11%	\$ 156
	Prep ROW	4%	\$ 57

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 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.

6/20/2023 updated:

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

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): 1,385

Road	dway Construction Cost Projection							
No.	Item Description	Quantity	Unit	Unit Price		Unit Price		Item 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: \$ 891,656

Major	Major Construction Component Allowances**:								
	Item Description	Notes	Allowance		Item Cost				
	Traffic Control	None Anticipated	0%	\$	-				
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$	35,666				
\checkmark	Roadway Drainage	Standard Internal System	30%	\$	267,497				
\checkmark	Illumination		6%	\$	53,499				
	Water	Minor Adjustments	3%	\$	26,750				
	Sewer	Minor Adjustments	2%	\$	17,833				
	Landscaping and Irrigation		6%	\$	53,499				
**Allow	ances based on % of Paving Construction C	Cost Subtotal Allowa	ince Subtotal:	\$	454,745				
		Paving and Allowa	nce Subtotal:	\$	1,346,401				
		Construction Contingency:	10%	\$	134,640				
	Mobilization 11%								
	Prep ROW 4%								
	\$	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 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.

6/20/2023 updated:

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

Name: Marie St 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		Unit Price		Unit Price		Unit Price		Unit 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 Cost Subtotal:							365,500						

Paving Construction Cost Subtotal	\$	365,500
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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 Bicycle Facilties	4%	\$	14,620					
	Roadway Drainage	Standard Internal System	30%	\$	109,650					
	Illumination		6%	\$	21,930					
\checkmark	Water	Minor Adjustments	3%	\$	10,965					
\checkmark	Sewer	Minor Adjustments	2%	\$	7,310					
	Landscaping and Irrigation		6%	\$	21,930					
**Allow	ances based on % of Paving Construction C	ost Subtotal Allowa	nce Subtotal:	\$	186,405					
		Paving and Allowa	nce Subtotal:	\$	551,904					
		Construction Contingency:	10%	\$	55,190					
	Mobilization 11%									
	Prep ROW 4%									
		Construction C	ost TOTAL:	\$	690,000					

Impact Fee Project Cost Sur 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 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.

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' sidewalks on both sides of the street.

Ultimate Class: 3U_(56)
Length (If): 2.215

Long	j (<i>)</i> .	2,210			
Roa	dway Const	ruction Cost Projection			
No.	Item Descrip	ion	Quantity	Unit	Unit
102	Unclassified 9	Street Excavation (2' denth)	6 801	C۷	\$

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

Majo	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%	\$	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		
** A II	Allowones Subtotaly							

t Landodaping and impation	Θ/6 Φ	12,010
**Allowances based on % of Paving Construction Cost Subtotal	Allowance Subtotal: \$	357,137

7 monanoso bassa on 70 on annig constitution cost cabical	7 0		1 *	331,131
	Paving and Allowa	nce Subtotal:	\$	1,057,407
Cons	truction Contingency:			105,741
	Mobilization	11%	\$	116,315
	Prep ROW	4%	\$	42,296
	Construction Co	ost TOTAL:	\$	1,322,000

Impact Fee Project Cost Sur	nmary				
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				

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 Impact Fee Class: Primary Multimodal Street B

Ultimate Class: 4D_(80) Length (If): 3,175

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)	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
		Paving	Construction	Cost	Subtotal:	\$ 2,044,049
Majo	r Construction Component Allowances**:					
	Item Description Notes			Al	lowance	Item Cost

Major	Construction Component Allowa	nces**:		
	Item Description	Notes	Allowance	Item Cost
	Traffic Control	Construction Phase Traffic Control	5%	\$ 102,202
$\sqrt{}$	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
\checkmark	Sewer	Minor Adjustments	2%	\$ 40,881
	Landscaping and Irrigation		6%	\$ 122,643
**Allowa	ances based on % of Paving Construction C	ost Subtotal Allowa	nce 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	ost TOTAL:	\$ 3,986,000

Impact Fee Project Cost Sur	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				

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

A-11

Project Information: Description: Widening Project No.

Name: Edward Burleson Construction of a 4 lane arterial with a median

Limits: Blakey to SH 21 EBFR
Impact Fee Class: Primary Multimodal Street B

Ultimate Class: 4D_(80) Length (If): 1,695 Construction of a 4 lane arterial with a median with curb and gutter, underground drainage, and 6' sidewalks on both

sides of the street.

Roa	dway Construction Cost Projection						
No.	Item Description	Quantity	Unit	U	nit 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: \$						

	Item Description	Notes	Allowance	Item Cost
$\sqrt{}$	Traffic Control	Construction Phase Traffic Control	5%	\$ 54,562
$\sqrt{}$	Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$ 43,649
	Roadway Drainage	Standard Internal System	30%	\$ 327,370
	Illumination		6%	\$ 65,474
	Water	Minor Adjustments	3%	\$ 32,737
	Sewer	Minor Adjustments	2%	\$ 21,825
	Landscaping and Irrigation		6%	\$ 65,474
**Allow	ances based on % of Paving Construction C	Cost Subtotal Allowa	nce Subtotal:	\$ 611,090
		Paving and Allowa	nce Subtotal:	\$ 1,702,323
		Construction Contingency:	10%	\$ 170,232
		Mobilization	11%	\$ 187,256
		Prep ROW	4%	\$ 68,093
		Construction C	ost TOTAL:	\$ 2,128,000

Impact Fee Project Cost Sur	nmary			
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 C	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

Kimley-Horn and Associates, Inc.

6/20/2023 updated:

283,081

102,939

3,217,000

Description: Widening Project Information: 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

Roadway Construction Cost Projection

Ultimate Class: 4D_(110) Length (If): 2,405

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

both sides of the street.

No.	Item Description		Quantity	Unit	Unit Price		Item Cost
101	Unclassified Street Excavation (3'	depth)	14,430	CY	\$ 8.73	\$	125,974
201)1 Earthwork/Topsoil (6" depth)		16,568	SY	\$ 1.83	\$	30,319
301			770	TON	\$ 140.87	\$	108,414
401	Asphalt Prime Coat		7,696	GAL	\$ 6.00	\$	46,176
501	Lime Treated Subgrade (12" depth	າ)	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	1	492	SY	\$ 123.94	\$	60,919
			Paving	Construction (Cost Subtotal:	\$	1,649,658
Major	Construction Component Allowa	ances**:					
	Item Description	Notes			Allowance		Item Cost
√	Traffic Control	Notes Construction Phase Traff	ic Control		Allowance 5%	\$	Item Cost 82,483
√ √	•			s			
√ √ √	Traffic Control	Construction Phase Traff	or Bicycle Faciltie	s	5%	\$	82,483
√ √ √ √	Traffic Control Pavement Markings/Signs/Posts	Construction Phase Traff Includes Striping/Signs for	or Bicycle Faciltie	s	5% 4%	\$	82,483 65,986
\ \ \ \ \	Traffic Control Pavement Markings/Signs/Posts Roadway Drainage	Construction Phase Traff Includes Striping/Signs for	or Bicycle Faciltie	s	5% 4% 30%	\$ \$ \$	82,483 65,986 494,897
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination	Construction Phase Trafi Includes Striping/Signs fo Standard Internal System	or Bicycle Faciltie	s	5% 4% 30% 6%	\$ \$ \$ \$	82,483 65,986 494,897 98,979
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water	Construction Phase Trafi Includes Striping/Signs to Standard Internal System Minor Adjustments	or Bicycle Faciltie	s	5% 4% 30% 6% 3%	\$ \$ \$ \$	82,483 65,986 494,897 98,979 49,490
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water Sewer	Construction Phase Trafi Includes Striping/Signs for Standard Internal System Minor Adjustments Minor Adjustments	or Bicycle Faciltie		5% 4% 30% 6% 3% 2%	\$ \$ \$ \$ \$ \$	82,483 65,986 494,897 98,979 49,490 32,993
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water Sewer Landscaping and Irrigation	Construction Phase Trafi Includes Striping/Signs for Standard Internal System Minor Adjustments Minor Adjustments	or Bicycle Faciltie		5% 4% 30% 6% 3% 2% 6%	\$ \$ \$ \$ \$ \$	82,483 65,986 494,897 98,979 49,490 32,993 98,979
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water Sewer Landscaping and Irrigation	Construction Phase Trafi Includes Striping/Signs for Standard Internal System Minor Adjustments Minor Adjustments	or Bicycle Faciltie		5% 4% 30% 6% 3% 2% 6% ance Subtotal:	\$ \$ \$ \$ \$ \$ \$ \$	82,483 65,986 494,897 98,979 49,490 32,993 98,979

Impact Fee Project Cost Sun	nmary		
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	xDOT 20%)	\$ 768,800

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%

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-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.

No.	Item Description	Quantity	Unit	Uı	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

Maior	Construction Component Allowa	inces**:	_	÷	
	Item Description	Notes	Allowance	П	Item Cost
	Traffic Control	Construction Phase Traffic Control	5%	\$	51,445
\checkmark	Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$	41,156
\checkmark	Roadway Drainage	Standard Internal System	30%	\$	308,668
\checkmark	Illumination		6%	\$	61,734
\checkmark	Water	Minor Adjustments	3%	\$	30,867
\checkmark	Sewer	Minor Adjustments	2%	\$	20,578
	Landscaping and Irrigation		6%	\$	61,734
**Allow	ances based on % of Paving Construction C	ost Subtotal Allowa	nce Subtotal:	\$	576,180
		Paving and Allowa	nce Subtotal:	\$	1,605,073
		Construction Contingency:	10%	\$	160,507
		Mobilization	11%	\$	176,558
		Prep ROW	4%	\$	64,203
		Construction C	ost TOTAL:	\$	2,007,000

Impact Fee Project Cost Sur	nmary		
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	TxDOT 20%)	\$ 479,600

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-14 Name: Hasler Blvd (2) Construction of a 4 lane arterial with a median with curb and Limits: Old Austin Hwy to SH 21

Impact Fee Class: Primary Multimodal Street B

Ultimate Class: 4D_(80) Length (If): 1,340

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)	7,444	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
		Paving	Construction	Cost	Subtotal:	\$ 862,685

Major	Construction Component Allowa Item Description	Inces**: Notes	Allowance	Item Cost
	Traffic Control	Construction Phase Traffic Control	5%	\$ 43,134
\checkmark	Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$ 34,507
\checkmark	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	ances based on % of Paving Construction C	ost Subtotal Allowa	ince Subtotal:	\$ 483,104
		Paving and Allowa	ince 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	U	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

jor Construction Component Allowatem Description	Notes	Allowance		Item Cost
Traffic Control	Construction Phase Traffic Control	5%	\$	58,10
Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$	46,4
Roadway Drainage	Standard Internal System	30%	\$	348,6
Illumination		6%	\$	69,7
Water	Minor Adjustments	3%	\$	34,8
Sewer	Minor Adjustments	2%	\$	23,2
Landscaping and Irrigation		6%	\$	69,7
owances based on % of Paving Construction (Cost Subtotal Allowa	ınce Subtotal:	\$	650,7
	Paving and Allowa	ince Subtotal:	\$	1,812,7
	Construction Contingency:	10%	\$	181,2
	Mobilization	11%	\$	199,4
	Prep ROW	4%	\$	72,5
	Construction C	OST TOTAL .	¢	2,266,0

Impact Fee Project Cost Sur	nmary			
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 C	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.

6/20/2023 updated:

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.

	Item Description	Quantity	Unit	U	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	6" Asphalt (Type C)	628	TON	\$	140.87	\$ 88,429
103	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
303	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

Maior	Construction Component Allowa	ances**:							
	Item Description	Notes	Allowance		Item Cost				
	Traffic Control	Construction Phase Traffic Control	5%	\$	68,886				
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$	55,109				
	Roadway Drainage	Standard Internal System	30%	\$	413,316				
\checkmark	√ Illumination 6%								
	Water	3%	\$	41,332					
	Sewer	Minor Adjustments			27,554				
	Landscaping and Irrigation		6%	\$	82,663				
**Allowa	ances based on % of Paving Construction C	Cost Subtotal Allowa	ınce Subtotal:	\$	771,524				
		Paving and Allowa	ince Subtotal:	\$	2,149,245				
		Construction Contingency:	10%	\$	214,925				
	\$	236,417							
	\$	85,970							
	Prep ROW 4% Construction Cost TOTAL:								

Impact Fee Project Cost Summary								
Item Description	Notes:		Allowance		Item Cost			
Construction:			-	\$	2,687,000			
Engineering/Survey/Testing:			16%	\$	429,920			
Inspection			3.5%	\$	94,045			
ROW/Easement Acquisition:			15%	\$	403,050			
		Impact Fee Project C	Cost TOTAL	\$	3,614,000			

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.

Kimley-Horn and Associates, Inc.

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection

updated: 6/20/2023

Project Informat	tion:	Description: Widening 1/2	Project No.	A-17
Name:	Bear Hunter Drive (2)	Construction of a 4 lane	arterial with a mediar	n with curb and
Limits:	State Highway 21 to Bear Hur	nter Drive (r <mark>gutter, underground dr</mark> a	ainage, and 6' sidewall	ks on both
Impact Fee Class:	Primary Multimodal Street B	sides of the street.		
Ultimate Class:	4D_(80)			

Ultimate Class: 4D_(80 Length (If): 3,305

No.	Item Description	Quantity	Unit	U	Unit 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:							2,127,743

		Cost Subtotal:	\$	2,127,743				
Major	Construction Component Allowa	ances**:						
	Item Description	Notes	Allowance		Item Cost			
\checkmark	Traffic Control	Construction Phase Traffic Control	5%	\$	106,387			
\checkmark	√ Pavement Markings/Signs/Posts Includes Striping/Signs for Bicycle Facilities 4%							
\checkmark	√ Roadway Drainage Standard Internal System 30% \$							
\checkmark	√ Illumination 6% S				127,665			
\checkmark	Water	Minor Adjustments	3%	\$	63,832			
\checkmark	Sewer	Minor Adjustments	2%	\$	42,555			
	Landscaping and Irrigation		6%	\$	127,665			
**Allow	ances based on % of Paving Construction C	Cost Subtotal Allowa	nce Subtotal:	\$	1,191,536			
		Paving and Allowa	nce Subtotal:	\$	3,319,279			
	Construction Contingency: 10%							
		Mobilization	11%	\$	365,121			
	Prep ROW 4% \$							

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 C	Cost TOTAL	\$	5,582,000			

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.

4,150,000

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection

Kimley-Horn and Associates, Inc.

6/20/2023 updated:

A-18

Project Information: Description: Access Management Project No. Name: SH 304 Construction 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.

No.	Idway Construction Cost Pro	•	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)	1 /	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" dept	า)	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	3	598	SY	\$	123.94	\$ 74,091
			Paving	Construction	Cost	Subtotal:	\$ 2,006,341
Majo	r Construction Component Allow	ances**:	_				
	Item Description	Notes			Al	lowance	Item Cost
	Traffic Control	Construction Phase	Traffic Control			5%	\$ 100,317
√ V	Pavement Markings/Signs/Posts	Includes Striping/Sig	one for Ricycle Faciltie	9		4%	\$ 80 254

Major	Construction Component Allowa	nces**:						
	Item Description	Notes	Allowance		Item Cost			
	Traffic Control	Construction Phase Traffic Control	5%	\$	100,317			
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$	80,254			
	Roadway Drainage	Standard Internal System	30%	\$	601,902			
	√ Illumination				120,380			
	Water	Minor Adjustments	3%	\$	60,190			
	Sewer	Minor Adjustments			40,127			
	Landscaping and Irrigation		6%	\$	120,380			
**Allow	ances based on % of Paving Construction C	ost Subtotal Allowa	nce Subtotal:	\$	1,123,551			
		Paving and Allowa	nce Subtotal:	\$	3,129,892			
		Construction Contingency:	10%	\$	312,989			
	\$	344,288						
	Prep ROW 4% 5							
	Construction Cost TOTAL: \$							

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%	\$	-				
	Impact Fee Project Cost TOTAL (1	TxDOT 20%)	\$	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.

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>	Pre	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	\$ 902,000
B-33	Access Management	4D (110)	SH 95 (6)	SH 21 WBFR	SH 21 EBFR	\$	232,000	

Intersection Improvements

		<u>.</u>		=00.000	
I-8	Traffi	c Signal	Mesquite St & SH 95	\$ 500,000	\$ 500,000
I-9	Traffi	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 **B-1** Project No.

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. **Local Connector Street**

Impact Fee Class:

Ultimate Class: 2U_(50) Length (If): 910

No.	Item Description	Quantity	Unit	Ur	nit Price		Item Cost
104	Unclassified Street Excavation (2' depth)	2,427	CY	\$	8.73	\$	21,185
204	Earthwork/Topsoil (6" depth)	2,022	SY	\$	1.83	\$	3,701
304	3" Asphalt (Type C)	182	TON	\$	140.87	\$	25,638
404	Asphalt Prime Coat	1,820	GAL	\$	6.00	\$	10,920
504	Lime Treated Subgrade (12" depth)	3,640	SY	\$	3.46	\$	12,594
604	10" Flexible Base	3,640	SY	\$	19.70	\$	71,708
704	6' Concrete Sidewalk (4" depth)	1,011	SY	\$	62.92	\$	63,619
804	Machine Laid Curb & Gutter	1,820	LF	\$	22.37	\$	40,713
904	Turn Lanes and Median Openings	0	SY	\$	63.33	\$	-
Paving Construction Cost Subtotal:							250,079

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%	\$	10,003		
$\sqrt{}$	Roadway Drainage	Standard Internal System	30%	\$	75,024		
$\sqrt{}$	Illumination		6%	\$	15,005		
$\sqrt{}$	√ Water Minor Adjustments		3%	\$	7,502		
$\sqrt{}$	Sewer	Minor Adjustments		\$	5,002		
	Landscaping and Irrigation		6%	\$	15,005		
**Allowances based on % of Paving Construction Cost Subtotal Allowance Subtotal: \$							
	Paving and Allowance Subtotal:						
	Construction Contingency: 10%						
	\$	41,538					
	\$	15,105					
	Construction Cost TOTAL:						

Impact Fee Project Cost Summary							
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 Cost TOTAL					707,000		

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-2Name:Chambers StConstruction of a 2 lane collector, underground drainage,

Limits: Cedar St to Farm St

Impact Fee Class: Local Connector Street

Ultimate Class: 2U_(50) Length (If): 1,510

Roa	dway Construction Cost Projection					
No.	Item Description	Quantity	Unit	Uı	nit 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

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%	\$	16,5		
Roadway Drainage	Standard Internal System	30%	\$	124,4		
Illumination		6%	\$	24,8		
Water	Minor Adjustments	3%	\$	12,4		
Sewer	Minor Adjustments	2%	\$	8,2		
Landscaping and Irrigation		6%	\$	24,8		
*Allowances based on % of Paving Construction Cost Subtotal Allowance Subtotal:						
				626,5		
Paving and Allowance Subtotal:						
	Construction Contingency: 10%					
			*	02,0		
	Construction Contingency: Mobilization		*	62,6 68,9		

Impact Fee Project Cost Sur 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 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.

784,000

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection

Kimley-Horn and Associates, Inc.

6/20/2023 updated:

Project Information: Description: New **B-3** Project No. Name: Future Collector A Construction of a 2 lane collector, underground drainage,

Limits: Pitt St to Future Collector B

impact ree 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: \$							

Paving Construction Cost Subtotal: \$	316,034
---------------------------------------	---------

and 5' sidewalks on both sides of the street.

		r aving conduction of	oot oubtotui.	Ψ	010,004				
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%	\$	12,641				
\checkmark	Roadway Drainage	Standard Internal System	30%	\$	94,810				
	Illumination		6%	\$	18,962				
\checkmark	Water	Minor Adjustments	3%	\$	9,481				
\checkmark	Sewer	Minor Adjustments	2%	\$	6,321				
\checkmark	Landscaping and Irrigation		6%	\$	18,962				
**Allow	ances based on % of Paving Construction C	ost Subtotal Allowa	nce Subtotal:	\$	161,177				
		Paving and Allowa	nce Subtotal:	\$	477,211				
		Construction Contingency:	10%	\$	47,721				
	\$	52,493							
		Prep ROW	4%	\$	19,088				
		Construction C	ost TOTAL:	\$	597,000				

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.

updated: 6/20/2023

Project Information:Description:NewProject No.B-4Name:Future Collector BConstruction of a 2 lane collector, underground drainage,

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

Roadway Construction Cost Projection

Ultimate Class: 2U_(50) Length (If): 985

and	5' sidewa	alks on bo	th sides of	the street.

Construction Cost TOTAL

Roac	iway Construction Cost Pro							
No.	Item Description		Quantity	Unit	Unit Price	е		Item Cost
104	Unclassified Street Excavation (2'	depth)	2,627	CY	\$ 8.7	73	\$	22,931
204	Earthwork/Topsoil (6" depth)		2,189	SY	\$ 1.8	33	\$	4,006
304	3" Asphalt (Type C)		197	TON	\$ 140.8	37	\$	27,751
404	Asphalt Prime Coat		1,970	GAL	\$ 6.0	00	\$	11,820
504	Lime Treated Subgrade (12" depth	n)	3,940	SY	\$ 3.4	16	\$	13,632
604	10" Flexible Base		3,940	SY	\$ 19.7	70	\$	77,618
704	6' Concrete Sidewalk (4" depth)		1,094	SY	\$ 62.9	92	\$	68,862
804	Machine Laid Curb & Gutter		1,970	LF	\$ 22.3	37	\$	44,069
904	Turn Lanes and Median Openings		0	SY	\$ 63.3	33	\$	-
			Paving	Construction (Cost Subtot	al:	\$	270,690
Major	Construction Component Allowa	ınces**:						
	Item Description	Notes			Allowanc	е		Item Cost
	Item Description Traffic Control					e)%	\$	Item Cost
√ √	•	Notes	or Bicycle Faciltie	s	(_		- 10,828
,	Traffic Control	Notes None Anticipated	•	s	()%	\$	-
√ √	Traffic Control Pavement Markings/Signs/Posts	Notes None Anticipated Includes Striping/Signs for	•	s	30)% 1%	\$	10,828
√ √ √	Traffic Control Pavement Markings/Signs/Posts Roadway Drainage	Notes None Anticipated Includes Striping/Signs for	•	s	30 6)% 1%)%	\$	- 10,828 81,207 16,241 8,121
√ √ √	Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination	Notes None Anticipated Includes Striping/Signs fo Standard Internal System	•	s	30 6)% 1%)% 6%	\$	- 10,828 81,207 16,241
√ √ √	Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water	Notes None Anticipated Includes Striping/Signs for Standard Internal System Minor Adjustments	•	s	30 6 32)% 1%)% 5% 8%	\$	- 10,828 81,207 16,241 8,121
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	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	•		30 6 32	0% 1% 0% 6% 8% 2%	\$ \$ \$ \$ \$ \$	- 10,828 81,207 16,241 8,121 5,414
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	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 ,	Allowa	30 6 3 2 6 nce Subtot)% 1%)% 8% 2% 6% al:	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,828 81,207 16,241 8,121 5,414 16,241 138,052
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	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 ,		30 6 3 2 6 nce Subtot)% 1%)% 8% 2% 6% al:	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- 10,828 81,207 16,241 8,121 5,414 16,241
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	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	30 30 32 4 3 3 4 9 9 9 9)% 1%)% 8% 2% 6% al:	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,828 81,207 16,241 8,121 5,414 16,241 138,052
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	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 ving and Allowa	30 30 30 32 4 3 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0% 1% 0% 8% 2% 6% al:	\$\$\$\$\$\$\$ \$	10,828 81,207 16,241 8,121 5,414 16,241 138,052

Impact Fee Project Cost Summary								
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	\$	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.

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

511,000

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-5**

Name: Future Collector C Construction of a 2 lane collector, underground drainage, Limits: Technology Drive extension to City Limits and 5' sidewalks on both sides of the street.

Impact Fee Class: **Local Connector Street**

Ultimate Class: 2U_(50) Length (If): 895

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

Prep ROW

Construction Cost TOTAL:

Major Construction Component Allowances**:								
	Item Description	Notes	Allowance		Item Cost			
	Traffic Control	None Anticipated	0%	\$	-			
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$	9,838			
	Roadway Drainage	Standard Internal System	30%	\$	73,787			
	Illumination		6%	\$	14,757			
	Water	Minor Adjustments	3%	\$	7,379			
	Sewer	Minor Adjustments	2%	\$	4,919			
	Landscaping and Irrigation		6%	\$	14,757			
**Allow	ances based on % of Paving Construction C	Cost Subtotal Allowa	nce Subtotal:	\$	125,438			
	\$	371,394						
	\$	37,139						
		Mobilization	11%	\$	40,853			

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.

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

14,856

465,000

Kimley-Horn and Associates, Inc.

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection

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	Construction Component Allowa						
	Item Description	Notes			Allowance		Item Cost
	Traffic Control	None Anticipated			0%		-
V	Pavement Markings/Signs/Posts	Includes Striping/Signs for	or Bicycle Facilties	5	4%	-	4,617
	Roadway Drainage	Standard Internal System	n		30%	\$	34,626
V	Illumination				6%	\$	6,925
V	Water	Minor Adjustments			3%	\$	3,463
V	Sewer	Minor Adjustments			2%		2,308
	Landscaping and Irrigation				6%	-	6,925
**Allow	ances based on % of Paving Construction C	ost Subtotal		Allowa	ınce Subtotal:	\$	58,865
							174,286
	Paving and Allowance Subtotal:						
			Construction	Contingency:		-	17,429
				Mobilization	, .		19,171
				Prep ROW			6,971
			Co	nstruction C	ost TOTAL:	\$	218,000

Impact Fee Project Cost Sur	nmary			
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.

updated: 6/20/2023

Project Information:

New Project No.

B-7

Name:
Hasler Blvd (3)
Colorado River to Willow St

Colorado River to Willow St

Description: New Project No.

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): 1,550

Roa	dway Construction Cost Projection					
No.	Item Description	Quantity	Unit	Uı	nit 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)	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	Construction Component Allowa	nnces**:			
	Item Description	Notes	Allowance		Item Cost
	Traffic Control	None Anticipated	0%	\$	-
\checkmark	Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$	39,915
\checkmark	Roadway Drainage	Standard Internal System	30%	\$	299,365
	Illumination		6%	\$	59,873
$\sqrt{}$	Water	Minor Adjustments	3%	\$	29,936
$\sqrt{}$	Sewer	Minor Adjustments	2%	\$	19,958
	Landscaping and Irrigation		6%	\$	59,873
**Allowa	ances based on % of Paving Construction C	Sost Subtotal Allowa	nce Subtotal:	\$	508,920
		Paving and Allowa	nce Subtotal:	\$	1,506,802
		Construction Contingency:	10%	\$	150,680
	Mobilization 11% S				
	Prep ROW 4% \$				
		Construction C	ost TOTAL:	\$	1,884,000

Impact Fee Project Cost Sur	nmary			
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.

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection

Kimley-Horn and Associates, Inc.

6/20/2023 updated:

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

Roadway Construction Cost Projection

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	Uı	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
	·	Davina	. Canaturation	04	01-1-1-1	•	044 404

Paving Construction Cost Subtotal: \$ 814,401

Item Description	Notes	Allowance		Item Cost
Traffic Control	None Anticipated	0%	6 \$	
Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	49	6 \$	32,5
Roadway Drainage	Standard Internal System	30%	6 \$	244,3
Illumination		6%	6 \$	48,8
Water	Minor Adjustments	3%	6\$	24,4
Sewer	Minor Adjustments	29	6\$	16,2
Landscaping and Irrigation		6%	6 \$	48,8
wances based on % of Paving Construction (Cost Subtotal	Allowance Subtotal	: \$	415,3

*Allowances based on % of Paving Construction Cost Subtotal	Allowance Subtotal.		415,344
Paving and Allowa	ince 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 Sur	nmary			
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

Road	dway Construction Cost Projection				
No.	Item Description	Quantity	Unit	Unit 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)	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	\$ -

Paving Construction Cost Subtotal: \$ 255,575

	Item Description	Notes	Allowance	Item Cost
	Traffic Control	None Anticipated	0%	\$ -
$\sqrt{}$	Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$ 10,223
$\sqrt{}$	Roadway Drainage	Standard Internal System	30%	\$ 76,672
$\sqrt{}$	Illumination		6%	\$ 15,334
	Water	Minor Adjustments	3%	\$ 7,667
	Sewer	Minor Adjustments	2%	\$ 5,111
	Landscaping and Irrigation		6%	\$ 15,334
**Allow	ances based on % of Paving Construction C	Cost Subtotal Allowa	nce Subtotal:	\$ 130,343
		Paving and Allowa	nce Subtotal:	\$ 385,918
		Construction Contingency:	10%	\$ 38,592
		Mobilization	11%	\$ 42,451
		Prep ROW	4%	\$ 15,437
		Construction C	ost TOTAL:	\$ 483,000

Impact Fee Project Cost Sur	nmary			
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	Cost TOTAL	\$ 722,000

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-10

Name: Jasper St (2) Construction of a 2 lane collector, underground drainage,
Limits: 930' E of Jackson St to Hidden Hollow Ct and 5' sidewalks on both sides of the street.

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	U	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

Item Description	Notes	Allowance	İ	Item Cost
Traffic Control	None Anticipated	0%	\$	
√ Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$	29,5
√ Roadway Drainage	Standard Internal System	30%	\$	221,7
/ Illumination		6%	\$	44,3
Water	Minor Adjustments	3%	\$	22,1
Sewer	Minor Adjustments	2%	\$	14,7
Landscaping and Irrigation		6%	\$	44,3
owances based on % of Paving Construction	Cost Subtotal Allow	ance Subtotal:	\$	377,0
			Ļ	
	Paving and Allow			1,116,2
	Construction Contingency	10%	\$	111,6
	Mobilization	n 11%	\$	122,7
	Prep ROV	V 4%	\$	44,6

Impact Fee Project Cost Sun 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	ost 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

Ultimate Class: 2U_(50) Length (If): 520

	dway Construction Cost Projection					
No.	Item Description	Quantity	Unit	Uı	nit 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: \$ 142,902

Prep ROW

Construction Cost TOTAL:

and 5' sidewalks on both sides of the street.

Major	r Construction Component Allowa	ances**:		
	Item Description	Notes	Allowance	Item Cost
	Traffic Control	None Anticipated	0%	\$ -
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$ 5,716
	Roadway Drainage	Standard Internal System	30%	\$ 42,871
	Illumination		6%	\$ 8,574
	Water	Minor Adjustments	3%	\$ 4,287
	Sewer	Minor Adjustments	2%	\$ 2,858
	Landscaping and Irrigation		6%	\$ 8,574
**Allow	ances based on % of Paving Construction C	Cost Subtotal Allowa	nce Subtotal:	\$ 72,880
		Paving and Allowa	nce Subtotal:	\$ 215,782
		Construction Contingency:	10%	\$ 21,578
l		Mobilization	11%	\$ 23,736

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	ost 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.

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

8,631

270,000

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. B-12

Name: Mauna Loa Ln (1) Construction of a 2 lane collector, underground drainage,
Limits: Pine Lodge Dr to Briar Forest Dr and 5' sidewalks on both sides of the street.

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

Ultimate Class: 2U_(50) Length (If): 5,015

Roa	dway Construction Cost Projection					
No.	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

Construction Cost TOTAL:

Major Construction Component Allowate 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
*Allowances based on % of Paving Construction 0	Cost Subtotal Allowa	nce Subtotal:	\$	702,872
	Paving and Allowa	nce Subtotal:	\$	2,081,053
	Construction Contingency:	10%	\$	208,105
	Construction Contingency: Mobilization		\$ \$	208,105 228,916

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.

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

2,602,000

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

No. Item Description

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

Quantity	Unit	Un	nit Price	Item Cost
2,442	CY	\$	8.73	\$ 21,321
1,744	SY	\$	1.83	\$ 3,192
188	TON	\$	140.87	\$ 26,540

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)	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	\$ -
		Pavino	Construction (:net	Subtotal:	\$ 248 177

Paving Construction Cost Subtotal: \$

Major	r Construction Component Allowa	nnces**:			
	Item Description	Notes		Allowance	Item Cost
	Traffic Control	None Anticipated		0%	\$ -
\checkmark	Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties		4%	\$ 9,927
$\sqrt{}$	Roadway Drainage	Standard Internal System		30%	\$ 74,453
	Illumination			6%	\$ 14,891
	Water	Minor Adjustments		3%	\$ 7,445
	Sewer	Minor Adjustments		2%	\$ 4,964
	Landscaping and Irrigation			6%	\$ 14,891
**Allow	ances based on % of Paving Construction C	ost Subtotal	Allowa	nce Subtotal:	\$ 126,570

Paving and Allowa	nce Subtotal:	\$ 374,747
Construction Contingency:	10%	\$ 37,475
Mobilization	11%	\$ 41,222
Prep ROW	4%	\$ 14,990
Construction C	ost TOTAL:	\$ 469,000

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			
	\$	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.

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection

Kimley-Horn and Associates, Inc.

6/20/2023 updated:

Project Information: Description: New **B-14** Project No. Name: Mesquite St (2) Construction of a 3 lane collector (2 lanes plus a center turn Limits: SH 95 to Piney Ridge Dr

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.

Construction Cost TOTAL:

No.	. Item Description		Quantity	Unit	Un	it 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	. , , ,		526	TON	\$	140.87	\$	74,041
402	Asphalt Prime Coat		5,256	GAL	\$	6.00	\$	31,536
502	Lime Treated Subgrade (12" depth	າ)	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	Construction Component Allowa	inces**:						
	· · · · · · · · · · · · · · · · · · ·							
	Item Description	Notes			Alle	owance		Item Cost
	Traffic Control	None Anticipated			Alle	owance 0%	\$	Item Cost
√	·		or Bicycle Faciltie	s	Alle		-	- 27,695
√ √	Traffic Control	None Anticipated	•	s	Alle	0%	-	-
,	Traffic Control Pavement Markings/Signs/Posts	None Anticipated Includes Striping/Signs for	•	s	Alle	0% 4%	-	27,695
1	Traffic Control Pavement Markings/Signs/Posts Roadway Drainage	None Anticipated Includes Striping/Signs for	•	s	Alle	0% 4% 30%	-	27,695 207,710
1	Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination	None Anticipated Includes Striping/Signs fo Standard Internal System	•	s	Alle	0% 4% 30% 6%	-	27,695 207,710 41,542
1	Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water	None Anticipated Includes Striping/Signs fo Standard Internal System Minor Adjustments	•	s	Allo	0% 4% 30% 6% 3%	-	27,695 207,710 41,542 20,771
\lambda \lambd	Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water Sewer	None Anticipated Includes Striping/Signs for Standard Internal System Minor Adjustments Minor Adjustments	•			0% 4% 30% 6% 3% 2%	-	27,695 207,710 41,542 20,771 13,847
\lambda \lambd	Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water Sewer Landscaping and Irrigation	None Anticipated Includes Striping/Signs for Standard Internal System Minor Adjustments Minor Adjustments	n , ,	Allowa	ince s	0% 4% 30% 6% 3% 2% 6% Subtotal:	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	27,695 207,710 41,542 20,771 13,847 41,542 353,107
\lambda \lambd	Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water Sewer Landscaping and Irrigation	None Anticipated Includes Striping/Signs for Standard Internal System Minor Adjustments Minor Adjustments	Pav	Allowa	ince s	0% 4% 30% 6% 3% 2% 6% Subtotal:	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	27,695 207,710 41,542 20,771 13,847 41,542 353,107
\lambda \lambd	Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water Sewer Landscaping and Irrigation	None Anticipated Includes Striping/Signs for Standard Internal System Minor Adjustments Minor Adjustments	Pav	Allowa	ince s	0% 4% 30% 6% 2% 6% Subtotal:	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	27,695 207,710 41,542 20,771 13,847 41,542 353,107
\lambda \lambd	Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water Sewer Landscaping and Irrigation	None Anticipated Includes Striping/Signs for Standard Internal System Minor Adjustments Minor Adjustments	Pav	Allowa	ince s	0% 4% 30% 6% 2% 6% Subtotal:	\$\$\$\$\$ \$ \$	27,695 207,710 41,542 20,771 13,847 41,542 353,107

Impact Fee Project Cost Summary								
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 Cost 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.

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

1,307,000

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-15Name:Pitt StConstruction of a 2 lane collector, underground drainage,
and 5' sidewalks on both sides of the street.

Impact Fee Class: Local Connector Street

Ultimate Class: 2U_(50) Length (If): 515

Roa	dway Construction Cost Projection					
No.	Item Description	Quantity	Unit	Uı	nit Price	Item Cost
104	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)	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	0	SY	\$	63.33	\$ -

Paving Construction Cost Subtotal: \$ 141,528

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%	\$	5,661				
$\sqrt{}$	Roadway Drainage	Standard Internal System	30%	\$	42,458				
$\sqrt{}$	Illumination		6%	\$	8,492				
$\sqrt{}$	Water	Minor Adjustments	3%	\$	4,246				
$\sqrt{}$	Sewer	Minor Adjustments	2%	\$	2,831				
$\sqrt{}$	Landscaping and Irrigation		6%	\$	8,492				
**Allowa	nces based on % of Paving Construction C	Sost Subtotal Allowa	ince Subtotal:	\$	72,179				
		Paving and Allowa	ince Subtotal:	\$	213,707				
		Construction Contingency:	10%	\$	21,371				
	Mobilization 11%								
	Prep ROW 4%								
		Construction C	ost TOTAL:	\$	268,000				

Impact Fee Project Cost Sur 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 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

Ultimate Class: 3U_(56) Length (If): 1,740

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

Paving and Allowance Subtotal:

Construction Cost TOTAL:

Mobilization

Prep ROW

Construction Contingency:

Road	dway Construction Cost Pro	jection						
No.	Item Description	_	Quantity	Unit	Unit	t 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	65	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	65	-
	Paving Construction Cost Subtotal:					\$	550,099	
								330,033
Maior	Construction Component Allowa	ances**:				abiotai.	_	330,033
Major	Construction Component Allowatem Description	ances**:				wance	Ť	Item Cost
Major		-						
Major √	Item Description	Notes				wance	\$	
,	Item Description Traffic Control	Notes None Anticipated	or Bicycle Faciltie			wance 0%	\$	Item Cost
√,	Item Description Traffic Control Pavement Markings/Signs/Posts	Notes None Anticipated Includes Striping/Signs for	or Bicycle Faciltie			wance 0% 4%	\$ \$ \$	Item Cost - 22,004
√,	Item Description Traffic Control Pavement Markings/Signs/Posts Roadway Drainage	Notes None Anticipated Includes Striping/Signs for	or Bicycle Faciltie			wance 0% 4% 30%	\$ \$ \$	ltem Cost - 22,004 165,030
√,	Item Description Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination	Notes None Anticipated Includes Striping/Signs fo Standard Internal System	or Bicycle Faciltie			wance 0% 4% 30% 6%	\$ \$ \$ \$	22,004 165,030 33,006
√,	Item Description Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water	Notes None Anticipated Includes Striping/Signs fo Standard Internal System Minor Adjustments	or Bicycle Faciltie			wance 0% 4% 30% 6% 3%	\$ \$ \$ \$ \$	22,004 165,030 33,006 16,503

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			
	lı	npact Fee Project Co	ost TOTAL	\$	1,553,000			

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.

830,649

83,065

91,371

33,226

1,039,000

\$ 10%

11% \$

4%

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection

Kimley-Horn and Associates, Inc.

updated: 6/20/2023

Project Information:

New Project No. B-17

Name:
South Street (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

Ultimate Class: 3U_(56) Length (If): 1,115 lane) with curb and gutter, underground drainage, and 6' sidewalks on both sides of the street.

Roa	dway Construction Cost Pro	jection						
No.	Item Description		Quantity	Unit	Uı	nit Price		Item Cost
102	Unclassified Street Excavation (2'	depth)	3,469	CY	\$	8.73	\$	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	\$	6.00	\$	16,056
502	Lime Treated Subgrade (12" depth	5,203	SY	\$	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	\$	22.37	\$	49,885
902	Turn Lanes and Median Openings		0	SY	\$	71.37	\$	-
			Paving	Construction	Cost	Subtotal:	\$	352,506
Majo	r Construction Component Allowa	ınces**:		_		_		_
	Item Description	Notes			Al	lowance		Item Cost
	Traffic Control	None Anticipated	•	•		0%	\$	-
1	Payement Markings/Signs/Posts	Includes Strining/Sign	ne for Ricycla Faciltia	e	I	1%	Φ.	14 100

	Item Description	Notes	Allowance	Item Cost
	Traffic Control	None Anticipated	0%	\$ -
\checkmark	Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$ 14,100
\checkmark	Roadway Drainage	Standard Internal System	30%	\$ 105,752
\checkmark	Illumination		6%	\$ 21,150
\checkmark	Water	Minor Adjustments	3%	\$ 10,575
	Sewer	Minor Adjustments	2%	\$ 7,050
	Landscaping and Irrigation		6%	\$ 21,150
**Allow	ances based on % of Paving Construction C	ost Subtotal Allowa	nce Subtotal:	\$ 179,778
		Paving and Allowa	ince Subtotal:	\$ 532,284
		Construction Contingency:	10%	\$ 53,228
	\$ 58,551			
	\$ 21,291			
		Construction C	ost TOTAL:	\$ 666,000

Impact Fee Project Cost Summary								
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 Cost TOTAL					996,000			

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-18Name:Technology Drive (1)Construction of a 2 lane collector, underground drainage,

Limits: Mill St to Business Park Dr Impact Fee Class: Local Connector Street

Ultimate Class: 2U_(50) Length (If): 755

Landscaping and Irrigation

*Allowances based on % of Paving Construction Cost Subtotal

and 5' sidewalks on both sides of the street.

Roa	dway Construction Cost Pro	iection					
No.	Item Description	,	Quantity	Unit	Un	it 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" depti	າ)	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
Majo	r Construction Component Allowa	nces**:					
	Item Description	Notes			All	owance	Item Cost
	Traffic Control	None Anticipated				0%	\$ -
$\sqrt{}$	Pavement Markings/Signs/Posts	Includes Striping/Signs	for Bicycle Faciltie	S		4%	\$ 8,299
$\sqrt{}$	Roadway Drainage	Standard Internal Syste	m			30%	\$ 62,245
$\sqrt{}$	Illumination	·				6%	\$ 12,449
$\sqrt{}$	Water	Minor Adjustments				3%	\$ 6,224
	Sewer	Minor Adjustments				2%	\$ 4,150

		Mobilization	11%	\$	34,463
		Prep ROW	4%	\$	12,532
		Construction C	ost TOTAL:	\$	392,000
Impact Fee Project Cost Sun	nmary				
Item Description	Notes:		Allowance		Item Cost
Construction:			-	\$	392,000
Engineering/Survey/Testing:			16%	\$	62,720
				~	

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.

ROW/Easement Acquisition:

12.449

105,816

313,299

117,600

586,000

31,330

6%

30%

Allowance Subtotal:

Paving and Allowance Subtotal:

Impact Fee Project Cost TOTAL

Construction Contingency:

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-19
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

Roa	dway Construction Cost Projection				
No.	Item Description	Quantity	Unit	Unit 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	\$ -

Paving Construction Cost Subtotal: \$ 667,793

Construction Cost TOTAL:

and 5' sidewalks on both sides of the street.

Item Description	Notes	Allowance	Item Cost
Traffic Control	None Anticipated	0%	\$
Pavement Markings/Signs/Po	Includes Striping/Signs for Bicycle Facilties	4%	\$ 26,7
Roadway Drainage	Standard Internal System	30%	\$ 200,3
Illumination		6%	\$ 40,0
Water	Minor Adjustments	3%	\$ 20,0
Sewer	Minor Adjustments	2%	\$ 13,3
Landscaping and Irrigation		6%	\$ 40,0
owances based on % of Paving Construc	ion Cost Subtotal Allow	wance Subtotal:	\$ 340,5
	Paving and Allo	wance Subtotal:	\$ 1,008,3
	Construction Contingend	y : 10%	\$ 100,8
	Mobilization	on 11%	\$ 110,9
	Prep RO	W 4%	\$ 40.3

Impact Fee Project Cost Sur	nmary			
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 C	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.

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

1,261,000

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-20Name:Walnut StreetConstruction 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 and 5' sidewalks on both sides of the street.

eet Excavation (2' depth) oil (6" depth) e C) Coat ubgrade (12" depth) se	3,120 2,600 234 2,340 4,680	CY SY TON GAL SY	\$ \$ \$	8.73 1.83 140.87 6.00	\$ \$ \$	32,96
e C) Coat ubgrade (12" depth)	234 2,340	TON GAL	\$ \$	140.87	\$	
Coat ubgrade (12" depth)	2,340	GAL	\$		*	32,964 14,040
ubgrade (12" depth)				6.00	\$	14 040
	4,680	97	Φ.			14,040
		01	\$	3.46	\$	16,193
ie –	4,680	SY	\$	19.70	\$	92,196
ewalk (4" depth)	1,300	SY	\$	62.92	\$	81,796
urb & Gutter	2,340	LF	\$	22.37	\$	52,346
Median Openings	0	SY	\$	63.33	\$	
	Paving	Construction	ı Cost	Subtotal:	\$	321,530
d	d Median Openings Component Allowances**:	d Median Openings 0 Paving	d Median Openings 0 SY Paving Construction	d Median Openings 0 SY \$ Paving Construction Cost	d Median Openings 0 SY \$ 63.33 Paving Construction Cost Subtotal:	d Median Openings 0 SY \$ 63.33 \$ Paving Construction Cost Subtotal: \$

Maior	Construction Component Allowa	inces**:			
	Item Description	Notes	Allowance	П	Item Cost
	Traffic Control	None Anticipated	0%	\$	-
$\sqrt{}$	Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$	12,861
$\sqrt{}$	Roadway Drainage	Standard Internal System	30%	\$	96,459
$\sqrt{}$	Illumination		6%	\$	19,292
$\sqrt{}$	Water	Minor Adjustments	3%	\$	9,646
$\sqrt{}$	Sewer	Minor Adjustments	2%	\$	6,431
	Landscaping and Irrigation		6%	\$	19,292
**Allowa	ances based on % of Paving Construction C	ost Subtotal Allowa	nce Subtotal:	\$	163,980
		Paving and Allowa	nce Subtotal:	\$	485,510
		Construction Contingency:	10%	\$	48,551
		Mobilization	11%	\$	53,406
		Prep ROW	4%	\$	19,420
		Construction C	ost TOTAL:	\$	607,000

Impact Fee Project Cost Sur	nmary				
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 C	Cost TOTAL	\$	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

Roadway Construction Cost Projection

Ultimate Class: 4D_(80) Length (If): 1,305

gutter, underground drainage, and 6' sidewalks on both

Prep ROW

Construction Cost TOTAL:

sides of the street.

No.	Item Description		Quantity	Unit	Unit	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	า)	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 S	ubtotal:	\$	840,153
	O((O All							
Major	Construction Component Allows	ances^^:						
Major	Item Description	Notes			Allo	wance		Item Cost
Major √			fic Control		Allo	wance 5%	\$	Item Cost 42,008
Major √ √	Item Description	Notes		es	Allo		\$	
√ √	Item Description Traffic Control	Notes Construction Phase Traff	or Bicycle Faciltie	ss	Allo	5%	\$	42,008
√ √ √	Item Description Traffic Control Pavement Markings/Signs/Posts	Notes Construction Phase Traff Includes Striping/Signs for	or Bicycle Faciltie	es	Allo	5% 4%	\$	42,008 33,606
√ √ √	Item Description Traffic Control Pavement Markings/Signs/Posts Roadway Drainage	Notes Construction Phase Traff Includes Striping/Signs for	or Bicycle Faciltie	es	Allov	5% 4% 30%	\$	42,008 33,606 252,046
√ √ √	Item Description Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination	Notes Construction Phase Traff Includes Striping/Signs fo Standard Internal System	or Bicycle Faciltie	es	Allo	5% 4% 30% 6%	\$	42,008 33,606 252,046 50,409
√ √ √	Item Description Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water	Notes Construction Phase Traff Includes Striping/Signs for Standard Internal System Minor Adjustments	or Bicycle Faciltie	es	Allov	5% 4% 30% 6% 3%	\$	42,008 33,606 252,046 50,409 25,205
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Item Description Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water Sewer	Notes Construction Phase Trafi Includes Striping/Signs fo Standard Internal System Minor Adjustments Minor Adjustments	or Bicycle Faciltie			5% 4% 30% 6% 3% 2%	\$ \$ \$ \$ \$ \$ S	42,008 33,606 252,046 50,409 25,205 16,803
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Item Description Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water Sewer Landscaping and Irrigation	Notes Construction Phase Trafi Includes Striping/Signs fo Standard Internal System Minor Adjustments Minor Adjustments	or Bicycle Faciltie	Allowa	ince Si	5% 4% 30% 6% 3% 2% 6% ubtotal:	\$ \$ \$ \$ \$ \$	42,008 33,606 252,046 50,409 25,205 16,803 50,409 470,485
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Item Description Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water Sewer Landscaping and Irrigation	Notes Construction Phase Trafi Includes Striping/Signs fo Standard Internal System Minor Adjustments Minor Adjustments	or Bicycle Faciltie		ince Si	5% 4% 30% 6% 3% 2% 6% ubtotal:	\$ \$ \$ \$ \$ \$	42,008 33,606 252,046 50,409 25,205 16,803 50,409
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Item Description Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water Sewer Landscaping and Irrigation	Notes Construction Phase Trafi Includes Striping/Signs fo Standard Internal System Minor Adjustments Minor Adjustments	or Bicycle Faciltie	Allowa	nce Si	5% 4% 30% 6% 3% 2% 6% ubtotal:	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	42,008 33,606 252,046 50,409 25,205 16,803 50,409 470,485

Impact Fee Project Cost Sur	nmary			
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 C	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.

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

52.426

1,639,000

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. **B-22** Name: Lovers Ln Construction of a 3 lane collector (2 lanes plus a center turn Limits: City Limits to College St

Imp

Roadway Construction Cost Projection

Ulti Len

iiii.	City Limits to College St	iane) with curb and gutter, underground dramage, and o	
pact Fee Class:	Primary Multimodal Street A	sidewalks on both sides of the street.	
timate Class:	3U_(56)		
ength (lf):	1,525		

Item Description	_	Quantity	Unit	Unit Price		Item Cost
Unclassified Street Excavation (2'	depth)	4,744	CY	\$ 8.73	\$	41,419
Earthwork/Topsoil (6" depth)		3,389	SY	\$ 1.83	\$	6,202
3" Asphalt (Type C)		366	TON	\$ 140.87	\$	51,558
Asphalt Prime Coat		3,660	GAL	\$ 6.00	\$	21,960
Lime Treated Subgrade (12" depth	1)	7,117	SY	\$ 3.46	\$	24,624
10" Flexible Base		7,117	SY	\$ 19.70	\$	140,198
6' Concrete Sidewalk (4" depth)		2,033	SY	\$ 62.92	\$	127,937
Machine Laid Curb & Gutter		3,050	LF	\$ 22.37	\$	68,229
Turn Lanes and Median Openings		0	SY	\$ 71.37	\$	-
		Paving	Construction (Cost Subtotal:	\$	482,127
	ınces**:					
Item Description	Notes			Allowance		Item Cost
Traffic Control	Construction Phase Traff	ic Control		5%	\$	24,106
Pavement Markings/Signs/Posts	Includes Striping/Signs fo	or Bicycle Faciltie	S	4%	\$	19,285
Roadway Drainage	Standard Internal System	1		30%	\$	144,638
Illumination				6%	\$	28,928
Water	Minor Adjustments					14,464
Sewer	Minor Adjustments			2%	\$	9,643
Landscaping and Irrigation				6%	\$	28,928
ances based on % of Paving Construction C	ost Subtotal		Allowa	ınce Subtotal:	\$	269,991
					\$	752,118
		Construction	n Contingency:	10%	\$	75,212
			Mobilization	11%	\$	82,733
Prep ROW 4%				\$	30,085	
	Unclassified Street Excavation (2' Earthwork/Topsoil (6" depth) 3" Asphalt (Type C) Asphalt Prime Coat Lime Treated Subgrade (12" depth 10" Flexible Base 6' Concrete Sidewalk (4" depth) Machine Laid Curb & Gutter Turn Lanes and Median Openings Construction Component Allowaltem Description Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water Sewer Landscaping and Irrigation	Unclassified Street Excavation (2' depth) Earthwork/Topsoil (6" depth) 3" Asphalt (Type C) Asphalt Prime Coat Lime Treated Subgrade (12" depth) 10" Flexible Base 6' Concrete Sidewalk (4" depth) Machine Laid Curb & Gutter Turn Lanes and Median Openings Construction Component Allowances**: Item Description Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water Sewer Minor Adjustments Minor Adjustments	Unclassified Street Excavation (2' depth) Earthwork/Topsoil (6" depth) 3,389 3" Asphalt (Type C) Asphalt Prime Coat Lime Treated Subgrade (12" depth) 7,117 10" Flexible Base 7,117 6' Concrete Sidewalk (4" depth) Machine Laid Curb & Gutter Turn Lanes and Median Openings Construction Component Allowances**: Item Description Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water Sewer Landscaping and Irrigation Includes Striping/Signs for Bicycle Facilities Standard Internal System Minor Adjustments Unclassified Street Excavation (2' depth) 4,744 CY Earthwork/Topsoil (6" depth) 3,389 SY 3" Asphalt (Type C) 366 TON Asphalt Prime Coat 3,660 GAL Lime Treated Subgrade (12" depth) 7,117 SY 10" Flexible Base 7,117 SY 6' Concrete Sidewalk (4" depth) 2,033 SY Machine Laid Curb & Gutter 3,050 LF Turn Lanes and Median Openings 0 SY Paving Construction Construction Construction Construction Phase Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water Minor Adjustments Sewer Landscaping and Irrigation Incless based on % of Paving Construction Cost Subtotal Paving and Allowa Construction Contingency: Mobilization	Unclassified Street Excavation (2' depth)	Unclassified Street Excavation (2' depth)	

Impact Fee Project Cost Sur	nmary			
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

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.

941,000

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. 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

Road	dway Construction Cost Projection				
No.	Item Description	Quantity	Unit	Unit 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%	\$	16,42
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$	13,13
	Roadway Drainage	Standard Internal System	30%	\$	98,52
	Illumination		6%	\$	19,70
	Water	Minor Adjustments	3%	\$	9,85
	Sewer	Minor Adjustments	2%	\$	6,56
	Landscaping and Irrigation		6%	\$	19,70
Allow	vances based on % of Paving Construction C	Cost Subtotal Allowa	nce Subtotal:	\$	183,90
		Paving and Allowa	nce Subtotal:	\$	512,30
		Construction Contingency:	10/0	\$	51,2
		Construction Contingency: Mobilization		\$	56,3
		<u> </u>	11%	\$ \$	56,3 20,4

Impact Fee Project Cost Sur	nmary				
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.

updated: 6/20/2023

Project Information: Description: Widening Project No. B-24

Name: Mesquite St (3) 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

Ultimate Class: 3U_(56) Length (If): 2,765 lane) with 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
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

	Item Description	Notes	Allowance		Item Cost	
$\sqrt{}$	Traffic Control	Construction Phase Traffic Control	5%	\$	43,70	
V	Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$	34,96	
1	Roadway Drainage	Standard Internal System	30%	\$	262,24	
/	Illumination		6%	\$	52,44	
/	Water	Minor Adjustments	3%	\$	26,22	
	Sewer	Minor Adjustments	2%	\$	17,48	
	Landscaping and Irrigation		6%	\$	52,44	
low	ances based on % of Paving Construction C	Cost Subtotal Allowa	ince Subtotal:	\$	489,52	
		Paving and Allowa	nce Subtotal:	\$	1,363,67	
Construction Contingency: 10%					136,36	
	Mobilization 11%					
		WODIIIZATION	1.70	Ψ		
		Prep ROW		\$	150,00 54,54	

Impact Fee Project Cost Summary						
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. updated: 6/20/2023

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

Limits: Mesquite St to 700' S of Mesquite St curb and gutter, underground drainage, and 6' sidewalks on

Impact Fee Class: State Highway System both sides of the street.

Ultimate Class: 4D_(110) Length (If): 695

No.	Item Description	Quantity	Unit	Uı	nit Price	Item Cost
101	Unclassified Street Excavation (3' depth)	4,170	CY	\$	8.73	\$ 36,404
201	Earthwork/Topsoil (6" depth)	4,788	SY	\$	1.83	\$ 8,762
301	6" Asphalt (Type C)	222	TON	\$	140.87	\$ 31,329
401	Asphalt Prime Coat	2,224	GAL	\$	6.00	\$ 13,344
501	Lime Treated Subgrade (12" depth)	4,170	SY	\$	3.46	\$ 14,428
601	18" Flexible Base	4,170	SY	\$	56.20	\$ 234,354
701	6' Concrete Sidewalk (4" depth)	927	SY	\$	62.92	\$ 58,306
801	Machine Laid Curb & Gutter	2,780	LF	\$	22.37	\$ 62,189
901	Turn Lanes and Median Openings	142	SY	\$	123.94	\$ 17,604
		Paving (Construction	Cost	Subtotal:	\$ 476,720

	Construction Component Allowa		Allewanea		Ham Coot
	Item Description	Notes	Allowance		Item Cost
$\sqrt{}$	Traffic Control	Construction Phase Traffic Control	5%	\$	23,836
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$	19,069
\checkmark	Roadway Drainage	Standard Internal System	30%	\$	143,016
	Illumination		6%	\$	28,603
\checkmark	Water	Minor Adjustments	3%	\$	14,302
\checkmark	Sewer	Minor Adjustments	2%	\$	9,534
\checkmark	Landscaping and Irrigation		6%	\$	28,603
**Allow	ances based on % of Paving Construction C	ost Subtotal Allowa	nce Subtotal:	\$	266,963
		Paving and Allowa	nce Subtotal:	\$	743,684
		Construction Contingency:	10%	\$	74,368
		Mobilization	11%	\$	81,805
		Prep ROW	4%	\$	29,747
ł		Construction C	ost TOTAL :	¢	930,000

Impact Fee Project Cost Summary							
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.

6/20/2023 updated:

Project Information: Description: Widening Project No. **B-26** Name: SH 95 (2) Construction of a 4 lane highway arterial with a median with Limits: 700' S of Mesquite St to Hawthorne St

Impact Fee Class: State Highway System

Landscaping and Irrigation

Ultimate Class: 4D_(110) Length (If): 2,700

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

Roa	dway Construction Cost Pro	jection					
No.	Item Description		Quantity	Unit	Ur	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			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	1 Turn Lanes and Median Openings		552	SY	\$	123.94	\$ 68,391
			Paving	Construction	Cost	Subtotal:	\$ 1,852,007
Maio	r Construction Component Allowa	Incas**•					
Wajor	Item Description	Notes			All	owance	Item Cost
	Traffic Control	Construction Phase Tr	affic Control			5%	\$ 92,600
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties				4%	\$ 74,080
\checkmark	Roadway Drainage Standard Internal System		em			30%	\$ 555,602
$\sqrt{}$	Illumination					6%	\$ 111,120
	Water	Minor Adjustments				3%	\$ 55,560
						2%	

**Allowances based on % of Paving Construction Cost Subtotal	Allowa	nce Subtotal:	\$ 1,037,124
	Paving and Allowa	nce Subtotal:	\$ 2,889,131
	Construction Contingency:	10%	\$ 288,913
	Mobilization	11%	\$ 317,804
	Prep ROW	4%	\$ 115,565
	Construction Construction Construction Construction	ost TOTAL:	\$ 3,612,000
Impact Fee Project Cost Summary			

Impact Fee Project Cost Sum Item Description	mary 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.

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

111,120

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_(110) Length (If): 1,560

Roa	Roadway Construction Cost Projection										
No.	Item Description	Quantity	Unit	Unit 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

Construction Cost TOTAL

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%	\$	42,80	
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	
wances based on % of Paving Construction C	Cost Subtotal Allowa	ince Subtotal:	\$	599,2	
	Paving and Allowa	nce Subtotal:	\$	1,669,2	
Construction Contingency: 10%					
	Construction Contingency.	1070	Ψ	, -	
	Mobilization Contingency.		\$	166,9 183,6	

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.

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

2,087,000

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. B-28

Name: SH 95 (4) Construction of a 4 lane highway arterial with a median with Limits: Cedar St to Spring St curb and gutter, underground drainage, and 6' sidewalks on both sides of the street.

Ultimate Class: 4D_(110) Length (If): 1,885

Roa	dway Construction Cost Projection				
No.	Item Description	Quantity	Unit	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,
Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$	51,
Roadway Drainage	Standard Internal System	30%	\$	387
Illumination		6%	\$	77,
Water	Minor Adjustments	3%	\$	38
Sewer	Minor Adjustments	2%	\$	25
Landscaping and Irrigation		6%	\$	77,
wances based on % of Paving Construction (Cost Subtotal Allow	ance Subtotal:	\$	724
	Paving and Allow	ance Subtotal:	\$	2,017
	Construction Contingency	10%	\$	201
Mobilization 11%				
	Prep ROV	4%	\$	80,
	Construction (Ost TOTAL .	\$	2,522,0

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	TxDOT 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

Description: Widening

Project No.

37,238

1,164,000

B-29

Name: SH 95 (5)

Project Information:

Limits:

Farm St to Chestnut St/SH 21

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

Impact Fee Class: State Highway System

Ultimate Class: 4D_(110) Length (If): 870 both sides of the street.

Road	lway Construction Cost Projection				
No.	Item Description	Quantity	Unit	Unit 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

Prep ROW

Construction Cost TOTAL:

Major	Construction Component Allowa	inces**:	_	÷	
	Item Description	Notes	Allowance		Item Cost
	Traffic Control	Construction Phase Traffic Control	5%	\$	29,838
$\sqrt{}$	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
	Water	Minor Adjustments	3%	\$	17,903
$\sqrt{}$	Sewer	Minor Adjustments	2%	\$	11,935
	Landscaping and Irrigation		6%	\$	35,805
**Allowa	ances based on % of Paving Construction C	ost Subtotal Allowa	ince Subtotal:	\$	334,184
	\$	930,942			
	\$	93,094			
		Mobilization	11%	\$	102,404

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.

Kimley-Horn and Associates, Inc.

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection 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 650' W of Jackson St to 1,200' E of Jack lane) with curb and gutter, underground drainage, and 6'

sidewalks on both sides of the street.

Impact Fee Class: Primary Multimodal Street A

Ultimate Class: 3U_(56) Length (If): 1,675

No.	Item Description	•	Quantity	Unit	Uı	nit 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" dept	n)	7,817	SY	\$	3.46	\$	27,046
602	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
Majo	Construction Component Allowa	ances**:	_					
	Item Description	Notes			All	lowance		Item Cost
√	Traffic Control	Construction Phase	Traffic Control			5%	\$	26,477
- 1	Devemont Moulings/Circs/Desta				40/	Φ	04 400	

Major	Construction Component Allowa	inces**:						
	Item Description	Notes	Allowance		Item Cost			
	Traffic Control	Construction Phase Traffic Control	5%	\$	26,477			
\checkmark	Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$	21,182			
\checkmark	Roadway Drainage	Standard Internal System	30%	\$	158,865			
\checkmark	Illumination		6%	\$	31,773			
\checkmark	Water	Minor Adjustments	3%	\$	15,886			
\checkmark	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			
		Paving and Allowa	nce Subtotal:	\$	826,097			
		Construction Contingency:	10%	\$	82,610			
	Mobilization 11%							
	Prep ROW 4% S							
	Construction Cost TOTAL: \$							

Impact Fee Project Cost Summary								
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:

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

Description: Access Management Project No.

B-31

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): 1,580

Road	dway Construction Cost Pro	Jodilon					
No.	Item Description		Quantity	Unit	Unit 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	1)	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 (Cost Subtotal:	\$	1,083,767
Major	Construction Component Allowa	ances**:					
	Item Description	Notes			Allowance		Item Cost
	Item Description Traffic Control	-	ic Control		Allowance 5%	\$	Item Cost 54,188
√ √	•	Notes		s			
√ √ √	Traffic Control	Notes Construction Phase Traff	or Bicycle Faciltie	S	5%	\$	54,188
,	Traffic Control Pavement Markings/Signs/Posts	Notes Construction Phase Traff Includes Striping/Signs for	or Bicycle Faciltie	s	5% 4%	\$ \$	54,188 43,351
,	Traffic Control Pavement Markings/Signs/Posts Roadway Drainage	Notes Construction Phase Traff Includes Striping/Signs for	or Bicycle Faciltie	s	5% 4% 30%	\$ \$ \$	54,188 43,351 325,130
,	Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination	Notes Construction Phase Traff Includes Striping/Signs fo Standard Internal System	or Bicycle Faciltie	s	5% 4% 30% 6%	\$ \$ \$ \$	54,188 43,351 325,130 65,026
\[\sqrt{1} \]	Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water	Notes Construction Phase Traff Includes Striping/Signs fo Standard Internal System Minor Adjustments	or Bicycle Faciltie	S	5% 4% 30% 6% 3%	\$ \$ \$ \$ \$	54,188 43,351 325,130 65,026 32,513
\ \ \ \ \ \	Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water Sewer	Notes Construction Phase Trafi Includes Striping/Signs for Standard Internal System Minor Adjustments Minor Adjustments	or Bicycle Faciltie		5% 4% 30% 6% 3% 2%	\$ \$ \$ \$ \$ \$ \$	54,188 43,351 325,130 65,026 32,513 21,675
\ \ \ \ \ \	Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water Sewer Landscaping and Irrigation	Notes Construction Phase Trafi Includes Striping/Signs for Standard Internal System Minor Adjustments Minor Adjustments	or Bicycle Faciltie		5% 4% 30% 6% 3% 2% 6%	\$ \$ \$ \$ \$ \$ \$	54,188 43,351 325,130 65,026 32,513 21,675 65,026
\ \ \ \ \ \	Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water Sewer Landscaping and Irrigation	Notes Construction Phase Trafi Includes Striping/Signs for Standard Internal System Minor Adjustments Minor Adjustments	or Bicycle Faciltie		5% 4% 30% 6% 3% 2% 6% nce Subtotal:	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	54,188 43,351 325,130 65,026 32,513 21,675 65,026
\ \ \ \ \ \	Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water Sewer Landscaping and Irrigation	Notes Construction Phase Trafi Includes Striping/Signs for Standard Internal System Minor Adjustments Minor Adjustments	Pav	Allowa	5% 4% 30% 6% 3% 2% 6% Ince Subtotal:	\$ \$ \$ \$ \$ \$ \$ \$	54,188 43,351 325,130 65,026 32,513 21,675 65,026 606,910
\ \ \ \ \ \	Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Water Sewer Landscaping and Irrigation	Notes Construction Phase Trafi Includes Striping/Signs for Standard Internal System Minor Adjustments Minor Adjustments	Pav	Allowa ving and Allowa	5% 4% 30% 6% 3% 2% 6% Ince Subtotal:	\$ \$ \$ \$ \$ \$ \$ \$	54,188 43,351 325,130 65,026 32,513 21,675 65,026 606,910

Impact Fee Project Cost Sur	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	TxDOT 20%)	\$ 632,000

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.

2,114,000

2023 Transportation Impact Fee Study Conceptual Level Project Cost Projection

Kimley-Horn and Associates, Inc.

updated: 6/20/2023

Project Information:

Name:
Limits:
Walnut St to SH 21 WBFR
Impact Fee Class:
State Highway System

Description: Access Management
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	 Item Cost
√ Traffic Control	Construction Phase Traffic Control	5%	\$ 77,33
Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$ 61,87
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 Construction (Cost Subtotal Allowa	ance Subtotal:	\$ 866,1
	Paving and Allowa	ance Subtotal:	\$ 2,412,9
	Construction Contingency:	10%	\$ 241,2
	Mobilization	11%	\$ 265,4
			20.5
	Prep ROW	4%	\$ 96,5

Impact Fee Project Cost Sur	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	TxDOT 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:

B-33

Project Information: Description: Access Management Project No. Name: SH 95 (6) Construction of a 4 lane highway arterial with a median with

Limits: SH 21 WBFR to SH 21 EBFR curb and gutter, underground drainage, and 6' sidewalks on

Impact Fee Class: State Highway System both sides of the street.

Ultimate Class: 4D_(110) Length (If): 580

No.	Item Description		Quantity	Unit	Uı	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" dept	h)	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	3	119	SY	\$	123.94	\$ 14,691
			Paving	Construction	Cost	Subtotal:	\$ 397,839
Majo	r Construction Component Allow	ances**:					
	Item Description	Notes			Al	lowance	Item Cost
	Traffic Control	Construction Phase T	raffic Control			5%	\$ 19,892
\checkmark	Pavement Markings/Signs/Posts	Includes Striping/Sign	s for Bicycle Facilties	;		4%	\$ 15,914
V	Roadway Drainage	Standard Internal Sys	tem ·			30%	\$ 119.352

	Item Description	Notes	Allowance	Item Cost
	Traffic Control	Construction Phase Traffic Control	5%	\$ 19,892
\checkmark	Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	4%	\$ 15,914
\checkmark	Roadway Drainage	Standard Internal System	30%	\$ 119,352
\checkmark	Illumination		6%	\$ 23,870
$\sqrt{}$	Water	Minor Adjustments	3%	\$ 11,935
	Sewer	Minor Adjustments	2%	\$ 7,957
	Landscaping and Irrigation		6%	\$ 23,870
**Allow	ances based on % of Paving Construction C	ost Subtotal Allowa	nce Subtotal:	\$ 222,790
		Paving and Allowa	nce Subtotal:	\$ 620,628
		Construction Contingency:	10%	\$ 62,063
		Mobilization	11%	\$ 68,269
		Prep ROW	4%	\$ 24,825

Impact Fee Project Cost Sur	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

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.

776,000





D. SUMMARY OF TRANSPORTATION IMPACT FEE CREDIT DETERMINATION

Sources

Par Amount +Premium / - Discount Equity contreibution

Total Sources

Uses 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% \$ 5.00% \$ 2,775,290.47 \$ 2,641,720.34 \$ 5.743.515.57 3 \$ 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 2,968,225.10 2,968,225.10 4,526,543.28 4,370,711.46 11 \$ 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

\$ 72,934,095.79

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

1.228580942

Sources

Par Amount +Premium / - Discount Equity contreibution

Total Sources

Project desposit Cost of Issuance (1%) Contingency Uses

\$ 33,282,620.47

Total Uses

Debt Service Annually

Year	Prir	ncipal	Coupon	Int	erest	Deb	t Service				
	\$	33,282,620.47	\$ 1.02	\$	18,238,876.02	\$	51,521,496.48	\$ 1.55	\$	18,238,876.02	\$ 48,259,799.67
	1 \$	1,664,131.02	4.00	%	1693253.316	\$	3,357,384.34				
	2 \$	1,664,131.02	4.25	%	1626688.075	\$	3,290,819.10				
	3 \$	1,664,131.02	4.50	%	1555962.507	\$	3,220,093.53				
	4 \$	1,664,131.02	5.00	%	1481076.611	\$	3,145,207.63				
	5 \$	1,664,131.02	5.25	%	1397870.06	\$	3,062,001.08				
	6 \$	1,664,131.02	5.25	%	1310503.181	\$	2,974,634.20				
	7 \$	1,664,131.02	5.25	%	1223136.302	\$	2,887,267.33				
	8 \$	1,664,131.02	5.25	%	1135769.423	\$	2,799,900.45				
	9 \$	1,664,131.02	5.25	%	1048402.545	\$	2,712,533.57				
1	0 \$	1,664,131.02	5.25	%	961035.6659	\$	2,625,166.69				
1	1 \$	1,664,131.02	5.25	%	873668.7872	\$	2,537,799.81				
1	2 \$	1,664,131.02	5.25	%	786301.9085	\$	2,450,432.93				
1	3 \$	1,664,131.02	5.25	%	698935.0298	\$	2,363,066.05				
1	4 \$	1,664,131.02	5.25	%	611568.1511	\$	2,275,699.17				
1	5 \$	1,664,131.02	5.25	%	524201.2723	\$	2,188,332.30				
1	6 \$	1,664,131.02	5.25	%	436834.3936	\$	2,100,965.42				
1	7 \$	1,664,131.02	5.25	%	349467.5149	\$	2,013,598.54				
1	8 \$	1,664,131.02	5.25	%	262100.6362	\$	1,926,231.66				
1	9 \$	1,664,131.02	5.25	%	174733.7574	\$	1,838,864.78				
2	0 \$	1,664,131.02	5.25	%	87366.87872	\$	1,751,497.90				
									•	10 000 007 07	

\$ 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 10-YEAR GROWTH PROJECTIONS	А	В
Residential (single family dwelling units)	1,078	1,780
Residential (mulit-family dwelling units)	3,470	1,575
Basic (square Feet)	0	2,170,000
Service (square feet)	491,000	217,000
Retail (square feet)	2,347,000	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	\$ 1,417,001.69	\$ 2,335,821.95
per Residential Dwelling Unit (multi-family)	\$ 2,540,198.23	\$ 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)	\$ 2,290,814.70	\$ 926,281.70
	\$ 6,540,887.08	\$ 5,253,524.02

DECIDENTIAL	AD VALODEM	TAXES SUMMARY
RESIDENTIAL	AD VALUREIVI	TAXES SUIVIIVIARY

		_				_		_		
1	0	1	2	3	4	5	6	7	8	9
1	108	108	108	108	108	108	108	108	108	108
3		108	108	108	108	108	108	108	108	108
4			108	108	108	108	108	108	108	108
5				108	108	108	108	108	108	108
SE PROF	PERTY VALUE E	ASED ON AD VAL	OREM TAX DATA	A	108	108	108	108	108	108
7			1			108	108	108	108	108
8							108	108	108	108
9								108	108	108
									108	108
										106
	108	216	325	432	540	648	756	864	972	1078
					242,0	000				
PRC										
										0.09859
	25,768.01 \$	51,536.01 \$	77,542.61 \$ 10	03,072.02 \$ 1		154,608.03 \$	180,376.04 \$	206,144.04 \$	231,912.05 \$	
				Serv	28,840.03 \$ ice Area B - Ad V	/alorem				257,202.87
\$	25,768.01 \$ 0	51,536.01 \$	77,542.61 \$ 10		28,840.03 \$		180,376.04 \$	206,144.04 \$	231,912.05 \$	
			2 178	Serv	28,840.03 \$ ice Area B - Ad V	/alorem		7 178		257,202.87
\$	0	1	2 178 178	Serv 3 178 178	128,840.03 \$ ice Area B - Ad V 4	/alorem 5 178 178	6	7 178 178	8	257,202.87 9 178 178
\$ 1 2 3 4	0	1 178	2 178	Serv 3 178 178 178	128,840.03 \$ ice Area B - Ad V 4 178 178 178	/alorem 5 178 178 178	6 178 178 178	7 178 178 178	8 178 178 178	257,202.87 9 178 178 178
1 2 3	0	1 178	2 178 178	Serv 3 178 178	128,840.03 \$ ice Area B - Ad V 4 178 178 178 178	/alorem 5 178 178 178 178 178	6 178 178 178 178	7 178 178 178 178	8 178 178 178 178	9 178 178 178 178 178
\$ 1 2 3 4 5 6	0	1 178	2 178 178	Serv 3 178 178 178	128,840.03 \$ ice Area B - Ad V 4 178 178 178	/alorem 5 178 178 178 178 178 178 178	6 178 178 178 178 178	7 178 178 178 178 178	8 178 178 178 178	257,202.87 9 178 178 178 178 178
\$ 1 2 3 4 5 6 7	0	1 178	2 178 178	Serv 3 178 178 178	128,840.03 \$ ice Area B - Ad V 4 178 178 178 178	/alorem 5 178 178 178 178 178	6 178 178 178 178 178	7 178 178 178 178 178 178	178 178 178 178 178 178	257,202.87 9 178 178 178 178 178 178
\$ 1 2 3 4 5 6 7 8	0	1 178	2 178 178	Serv 3 178 178 178	128,840.03 \$ ice Area B - Ad V 4 178 178 178 178	/alorem 5 178 178 178 178 178 178 178	6 178 178 178 178 178	7 178 178 178 178 178 178	178 178 178 178 178 178 178	257,202.87 9 178 178 178 178 178 178 178
\$ 1 2 3 4 5 6 7	0	1 178	2 178 178	Serv 3 178 178 178	128,840.03 \$ ice Area B - Ad V 4 178 178 178 178	/alorem 5 178 178 178 178 178 178 178	6 178 178 178 178 178	7 178 178 178 178 178 178	178 178 178 178 178 178 178 178	257,202.87 9 178 178 178 178 178 178 178
\$ 1 2 3 4 5 6 7 8	0	1 178	2 178 178	Serv 3 178 178 178	128,840.03 \$ ice Area B - Ad V 4 178 178 178 178	/alorem 5 178 178 178 178 178 178 178	6 178 178 178 178 178	7 178 178 178 178 178 178	178 178 178 178 178 178 178	257,202.87 9 178 178 178 178 178 178 178 178
\$ 1 2 3 4 5 6 7 8	0	1 178	2 178 178	Serv 3 178 178 178	128,840.03 \$ ice Area B - Ad V 4 178 178 178 178	/alorem 5 178 178 178 178 178 178 178	6 178 178 178 178 178	7 178 178 178 178 178 178	178 178 178 178 178 178 178 178	257,202.87 9 178 178 178 178 178 178 178

\$ 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 \$ 424,694.90 \$ 2,335,821.95

RESIDENTIAL A	TAYES	VAANALIZ

	_			ervice Area A - Ad			_		
	0 1	2	3	4	5	6	7	8	9
3	7 347	347	347	347	347	347	347	347	347
	347		347	347	347	347	347	347	347
		347	347	347	347	347	347	347	347
5			347	347	347	347	347	347	347
	UE BASED ON AD	VALOREM TAX D		347	347	347	347	347	347
7					347	347	347	347	347
8						347	347	347	347
9							347	347	347
								347	347
									347
3-	7 694	1041	1388	1735	2082	2429	2776	3123	3470
				135	,000				
RC				100	,				
									0.09859
	2 \$ 92,370.84	\$ 138,556.27	\$ 184,741.69 \$	230,927.11 \$		323,297.96 \$	369,483.38 \$	415,668.80 \$	
	2 \$ 92,370.84		Se		277,112.53 \$ Valorem	323,297.96 \$			461,854.22
\$ 46,185.4	2 \$ 92,370.84 0 1			230,927.11 \$	277,112.53 \$	323,297.96 \$	369,483.38 \$	415,668.80 \$	
\$ 46,185.4	0 1	2	Se	230,927.11 \$ ervice Area B - Ad	277,112.53 \$ Valorem				461,854.22
\$ 46,185.4	0 1	2 158	Se 3	230,927.11 \$ ervice Area B - Ad 4	277,112.53 \$ Valorem	6	7	8	461,854.22
\$ 46,185.4 1 2 1:	0 1	2 158	S€ 3 158	230,927.11 \$ ervice Area B - Ad 4 158	277,112.53 \$ Valorem 5 158	6	7 158	8 158	461,854.22 9 158
\$ 46,185.4 1 2 1:	0 1	2 158 158	S6 3 158 158	230,927.11 \$ ervice Area B - Ad 4 158 158	277,112.53 \$ Valorem 5 158 158	6 158 158	7 158 158	8 158 158	461,854.22 9 158 158
\$ 46,185.4 1 2 1:	0 1	2 158 158	Se 3 158 158 158	230,927.11 \$ ervice Area B - Ad 4 158 158 158	277,112.53 \$ Valorem 5 158 158 158	6 158 158 158	7 158 158 158	8 158 158 158	461,854.22 9 158 158 158
\$ 46,185.4 1 2 1: 3 4 5	0 1	2 158 158	Se 3 158 158 158	230,927.11 \$ ervice Area B - Ad 4 158 158 158 158	277,112.53 \$ Valorem 5 158 158 158 158	6 158 158 158 158	7 158 158 158 158	8 158 158 158 158	9 158 158 158 158
\$ 46,185.4 1 2 1: 3 4 5 6	0 1	2 158 158	Se 3 158 158 158	230,927.11 \$ ervice Area B - Ad 4 158 158 158 158	277,112.53 \$ Valorem 5 158 158 158 158 158	6 158 158 158 158	7 158 158 158 158 158	8 158 158 158 158	9 158 158 158 158 158 158
\$ 46,185.4 1 2 1 3 4 5 6 6 7	0 1	2 158 158	Se 3 158 158 158	230,927.11 \$ ervice Area B - Ad 4 158 158 158 158	277,112.53 \$ Valorem 5 158 158 158 158 158	6 158 158 158 158 158 158	7 158 158 158 158 158 158	158 158 158 158 158 158	461,854.22 9 158 158 158 158 158 158
\$ 46,185.4 1 2 1 3 4 5 6 6 7	0 1	2 158 158	Se 3 158 158 158	230,927.11 \$ ervice Area B - Ad 4 158 158 158 158	277,112.53 \$ Valorem 5 158 158 158 158 158	6 158 158 158 158 158 158	7 158 158 158 158 158 158	158 158 158 158 158 158 158	461,854.22 9 158 158 158 158 158 158 158 158
\$ 46,185.4 1 2 1 3 4 5 6 6 7	0 1 8 158 158	2 158 158 158	Se 3 158 158 158	230,927.11 \$ ervice Area B - Ad 4 158 158 158 158	277,112.53 \$ Valorem 5 158 158 158 158 158	6 158 158 158 158 158 158	7 158 158 158 158 158 158	158 158 158 158 158 158 158 158	9 158 158 158 158 158 158 158 158

\$ 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

				INDUS	RIAL AD VALOREM Service Area A - Ad						
	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			0	0	0	0	0	0	0	0	
5				0	0	0	0	0	0	0	
	ROPERTY VALUE BASE	D ON AD VALOREN	Л TAX DATA		0	0	0	0	0	0	
7						0	0	0	0	0	
8							0	0	0	0	
9								0	0	0	
									0	0	
										0	
TOTAL PRO	0	0	0	0	0	0 60	0	0	0	0	
TOTAL PRO						00				0.09859	
	\$ - \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	_
	V	•	*	¥	*	•	•	•	4	•	
					Service Area B - Ad	Walaram					
	0	1	2	3	4	5	6	7	8	9	
1	U	ı.	2	3	4	5	0	,	0	7	
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	217,000	
4		217,000	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					
										0.09859	
!	\$ 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 \$	706,017.31

SERVICE AD VALOREM TAXES SUMMARY

					Service Area A - Ad \	/alorem					
	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 PROPE	ERTY VALUE BASED	ON AD VALOREM	I 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 PRC					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 \		,	-			
	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

				IXE I	Service Area A - Ac	l Volorom					
			2	2	Sel vice Area A - Ac		,	-	0		
	0	1	2	3	4	5	6	7	8	9	
2	234700	234700	234700	234700	234700	234700	234700	234700	234700	234700	
	234700										
3		234700	234700	234700	234700	234700	234700	234700	234700	234700	
4			234700	234700	234700	234700	234700	234700	234700	234700	
5				234700	234700	234700	234700	234700	234700	234700	
AVERAGE PRO	OPERTY VALUE BASE	d on ad valoren	1 TAX DATA		234700	234700	234700	234700	234700	234700	
7						234700	234700	234700	234700	234700	
8							234700	234700	234700	234700	
9								234700	234700	234700	
									234700	234700	
										234700	
	234,700.00	469,400.00	704,100.00	938,800.00	1,173,500.00	1,408,200.00	1,642,900.00	1,877,600.00	2,112,300.00	2,347,000.00	
TOTAL PRC						180					
										0.09859	
\$	41,651.18 \$	83,302.35 \$	124,953.53 \$	166,604.71 \$	208,255.88 \$	249,907.06 \$	291,558.23 \$	333,209.41 \$	374,860.59 \$	416,511.76 \$	2,290,814.70
					Service Area B - Ac						
	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	
	7.1,700.00	107,030.00	201,730.00	577,550.00		180	551,550.00	737,230.00	551,100.00	, , , , , , , , , , , , , , , , , , , ,	
										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