# **CITY OF SEGUIN, TEXAS**

# 2022 Roadway Impact Fee Study Update

**SEPTEMBER 2022** 

Prepared for: CITY OF SEGUIN Prepared by: Kimley » Horn Expect More. Experience Better.

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TBPE Firm Registration Number: F-928 Project Number: 064500203 © Kimley-Horn and Associates, Inc.

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September 2022



It's real.

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# 1. Introduction

Chapter 395 of the Texas Local Government Code 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 has retained Kimley-Horn and Associates, Inc. to provide professional transportation engineering services for an update to their current Roadway Impact Fees, which were developed in 2016. This report includes the details of the Roadway Impact Fee calculation methodology in accordance with Chapter 395 and the development of the Land Use Assumptions, Capital Improvement Plan, and Land Use Equivalency Table.

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

- 1. Land Use Assumptions (Pg. 2)
- 2. Capital Improvement Plan (Pg. 4)

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

The final report will consist of a detailed discussion of the methodology for the computation of impact fees and is broken down into two components:

- 3. Methodology for Roadway Impact Fees (Pg. 11)
- 4. Roadway Impact Fee Calculation (Pg. 21)

The components of the Methodology for Roadway Impact Fee include development of:

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

The components of the Roadway 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 Roadway Impact Fee Credit. This plan details the maximum assessable impact fee per service unit the City of Seguin may apply under Chapter 395 of the Texas Local Government Code.

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





# 2. Roadway Impact Fee Calculation Inputs

# A. Land Use Assumptions

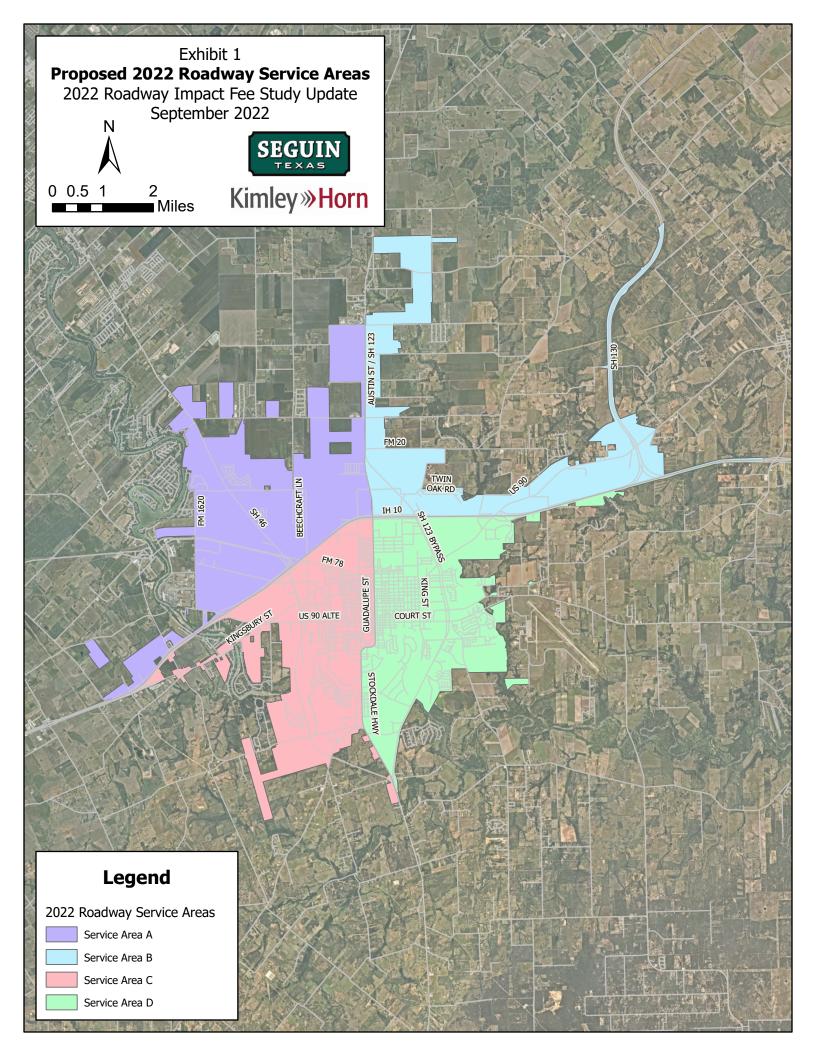
In order to assess an impact fee, land use assumptions must be developed to provide the basis for population and employment growth projections within a political subdivision. As defined by Chapter 395 of the Texas Local Government Code, these assumptions include a description of changes in land uses, densities, and population in the service area in a 10-year span. The land use assumptions used in this report were provided by City staff.

The geographic boundaries of the impact fee service areas for roadway facilities are shown in Exhibit 1, which shows the City of Seguin divided into four (4) service areas. Although Chapter 395 of the Texas Local Government Code allows for a service area of six (6) miles, each service area was limited to 5.0 miles based on a review of the City of Seguin's roadway network.

Table 1 summarizes the residential and non-residential 10-year growth projections by service area within the City of Seguin.

	Residential	Employment					
Service Area	Single & Multi-Family	Basic (Low) (i.e. Industrial)	Service (Medium) (i.e. Office)	Retail (High)			
	Dwelling Units	Sq. Ft.					
SA A	8,556	320,933	3,556,514	8,786,740			
SA B	2,017	916,944	144,696	3,633,196			
SA C	1,486	5,861,336	1,422,398	2,034,285			
SA D	1,487	1,611,688	1,531,042	2,669,668			
Sub-total	13,546	8,710,901 6,654,651		17,123,889			
Total	13,546		32,489,442				

#### Table 1 – Residential and Non-Residential 10-Year Growth Projections for the City of Seguin







## B. Capital Improvement Plan

The City has identified the City-funded roadway projects needed to accommodate the projected growth within the City in the next 10 years. The Capital Improvement Plan (CIP) for the Roadway Impact Fee Update is made up of the following:

- Projects currently under construction; and
- All remaining projects needed to complete the City's Master Thoroughfare Plan.

The CIP includes arterial, parkway, major collector and collector class roadway facilities as well as intersection improvements. All of the facilities are part of the Master Thoroughfare Plan or Regional Transportation Plan.

The CIP for the 2022 Roadway Impact Fee Update is listed in Tables 2A-D and mapped in Exhibits 2A-D. The tables show the length of each project as well as the facility's Master Thoroughfare Plan classification by service area. The CIP was developed in conjunction with input from City of Seguin staff and represents those projects that will be needed to accommodate the growth projected by the 2022 Land Use Assumptions for Roadway Impact Fee.





Table 2A – Capital	Improvement Plan f	or Roadway Impact	Fees – Service Area A

Service Area	Proj. #	Proj. # Impact Fee Class Project		Limits	Length (mi)	% In Service Area
			R	oadway Improvements		
	A-1	ARTE	Cordova Road	1,150' E of SH 46 to SH 123		100%
	A-2	PKWY	Outer Loop (1)	FM 1620 to SH 46		100%
	A-3	PKWY	Outer Loop (2)	SH 46 to Rudeloff Road	0.71	100%
	A-4	PKWY	Pecan Parkway (1)	Rudeloff Road to City Limits	0.63	100%
	A-5	MAJC	Rudeloff Road (1)	Ridge Crest Drive to 1,320' N of FM 78	0.70	50%
	A-6	MAJC	Rudeloff Road (2)	1,320' N of FM 78 to FM 78	0.23	50%
	A-7	A-7 MAJC Rudeloff Road (3) Ridge Crest Drive to SH 46		0.69	100%	
	A-8	ARTE Rudeloff Road (4) SH 46 to Huber Road		1.52	100%	
	A-9	ARTE	Rudeloff Road (5) Huber Road to 4156' E of Huber Road		0.96	100%
	A-10	ARTE	Rudeloff Road (6)	6126' E of Huber Road to SH 123		100%
Α	A-11	ARTE	Strempel Road (1)	Rudeloff Road to SH 123	0.84	100%
	A-12	ARTE	Huber Road (1)	IH 10 to Rudeloff Road	1.30	100%
	A-13	COL	Future Collector I	SH 46 to 775' E of Coral Way	0.82	100%
	A-14	COL	Pecan Parkway (2)	Cordova Road to 1,750' N of Cordova Road	0.33	100%
	A-15	COL	Huber Road (2)	Rudeloff Road to City Limits		100%
	A-16	ARTE	Austin Street / BUS SH 123	IH 10 Frontage Road to SH 123 Bypass	1.28	50%
	A-17	MAJC	MAJC Link Road SH 123 to City Limits		0.73	50%
			Int	tersection Improvements		
	A-S1	-	Outer Loop & SH 46	Future Grade Separated	-	100%
	A-S2	-	SH 123 & Cordova Road	Turn Lane Installation	-	50%
1	A-S3	-	Huber Road & Rudeloff Road	Intersection Improvements	-	100%
	A-S4	-	Rudeloff Road & Pecan Parkway	Signal Installation	-	100%

# Table 2B – Capital Improvement Plan for Roadway Impact Fees – Service Area B

Service Area	Proj. #	Impact Fee Class	Project	Limits	Length (mi)	% In Service Area	
	Roadway Improvements						
	B-1	MAJC	FM 20 (1)			100%	
	B-2	MAJC	FM 20 (2)	1067' E of SH 123 to City Limits	1.18	50%	
	B-3	PKWY	SH 123 Bypass	SH 123 to IH 10	1.65	100%	
	B-4	ARTE	Strempel Road (2)	SH 123 to SH 123 Bypass	0.47	100%	
	B-5	B-5 MAJC Strempel Road (3) SH 123 Bypass to 825' E of SH 123 By		SH 123 Bypass to 825' E of SH 123 Bypass	0.16	100%	
	B-6	MAJC	Martindale Rd (1)	825' E of SH 123 Bypass to 170' W of Parkwood Rd	0.17	100%	
	B-7	MAJC	Martindale Rd (2)	Martindale Rd (2) 170' W of Parkwood Rd to 160' E of Almond Crk		100%	
в	B-8	MAJC	Martindale Rd (3)	160' E of Almond Crk to Martindale Rd	0.07	100%	
Б	B-9	MAJC	Martindale Rd (4)	156' NE of Twin Oak Road to 1300' NE of Twin Oak Road	0.23	50%	
	B-10	MAJC	Future Major Collector C	1300' NE of Twin Oak Road to FM 20	0.60	100%	
	B-11	MAJC	Heideke Street (1) SH 123 to IH 10 Frontage Road		0.33	100%	
	B-12	MAJC	Glenewinkel Road	SH 123 to 2,970' E of SH 123		100%	
	B-13	ARTE	Laubach Road	SH 123 to 2,000' E of SH 123	0.38	100%	
	B-14	ARTE	Austin Street / BUS SH 123	IH 10 Frontage Road to SH 123 Bypass		50%	
	B-15	PKWY	Outer Loop (3)	1,300' W of Heinemeyer Road to Boenig Road	0.64	100%	
			Int	tersection Improvements			
	B-S1	_	SH 123 & Cordova Road	Turn Lane Installation	-	50%	

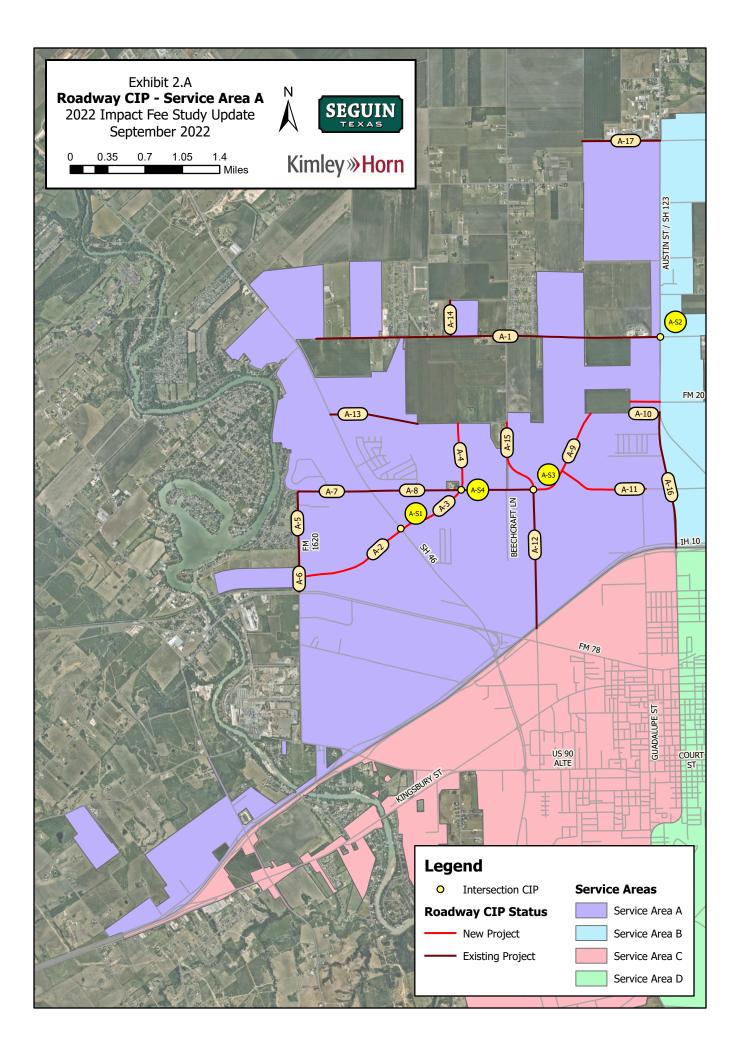


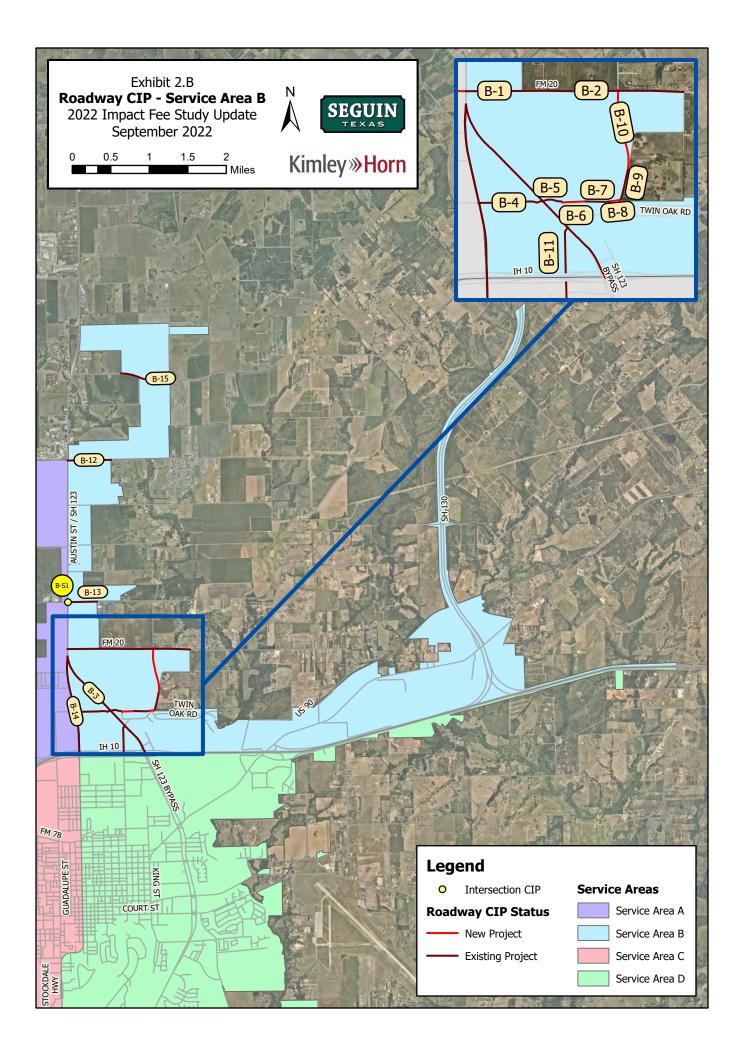


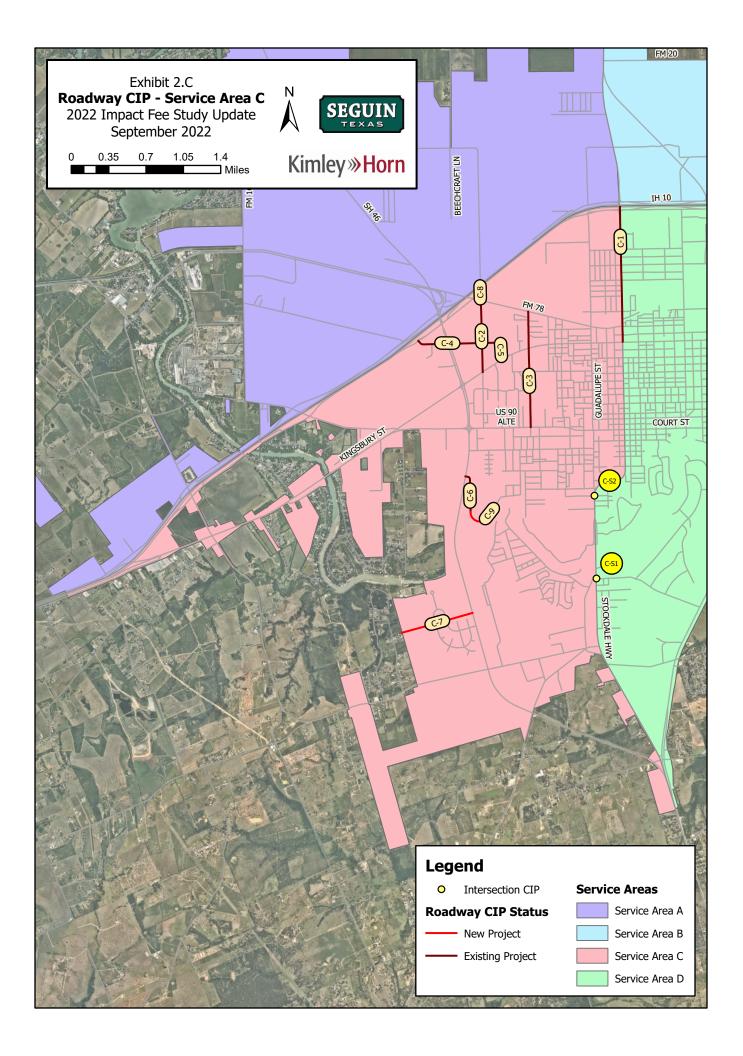
Service Area	Proj. #	Impact Fee Class	Project	Limits	Length (mi)	% In Service Area		
			R	oadway Improvements				
	C-1	ARTE	Austin Street	Kingsbury Street to IH 10 Frontage Road	1.27	50%		
	C-2	ARTE	Fleming Drive	FM 78 to Kingsbury Street	0.67	100%		
	C-3	COL	COL         Vaughn Ave, Hidalgo St         US 90 ALTE to FM 78           COL         C H Matthies Jr         IH 10 Frontage Road to Lawson Street           COL         Lawson Street         C H Matthies Jr to Kingsbury Street		1.08	100%		
	C-4	COL			0.78	100%		
	C-5	COL			0.16	100%		
С	C-6	COL	B and B Road (1)	Inner Loop to 930' S of MI Mountain	0.36	100%		
	C-7	C-7         COL         Rodeo Run         3,615' W of SH 46 to SH 46           C-8         ARTE         Huber Road (3)         IH 10 Frontage Road to FM 78		3,615' W of SH 46 to SH 46	0.68	100%		
	C-8			IH 10 Frontage Road to FM 78	0.13	100%		
	C-9	COL	B and B Road (2)	930' S of MI Mountain to Volunteer Street	0.34	100%		
			Int	ntersection Improvements				
	C-S1 - Stockdale Highway & Tor Drive Intersection Improvements		Intersection Improvements	-	50%			
	C-S2	-	SH 123 & Nelda Street / Guadalupe Street	Intersection Improvements	-	50%		

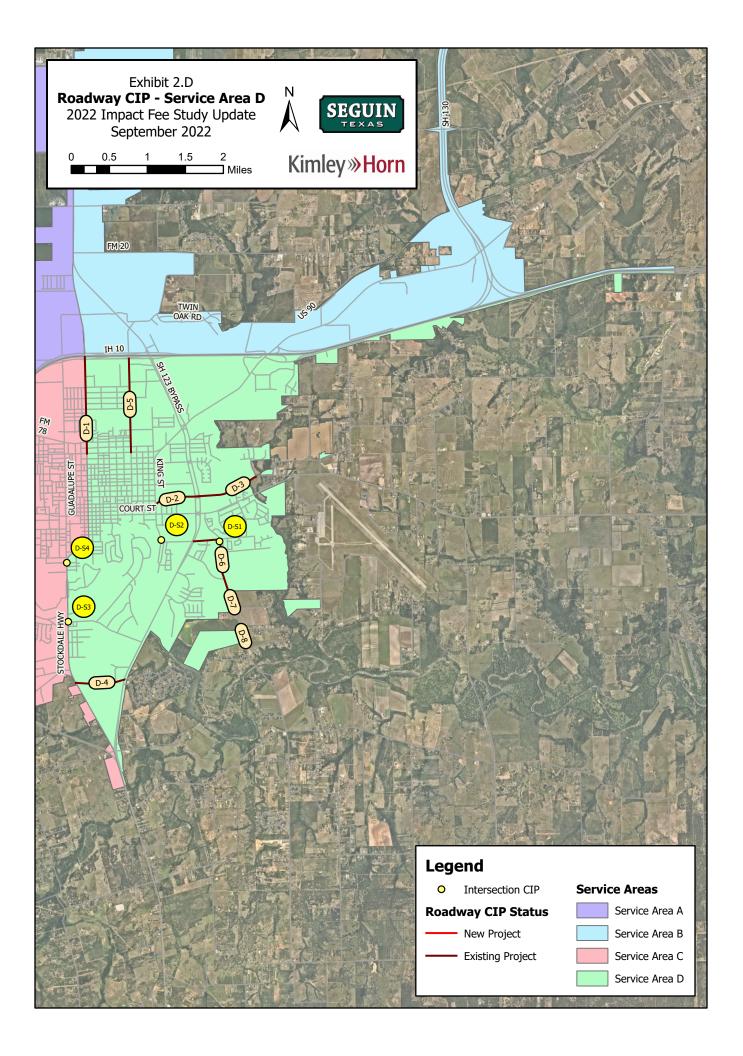
#### Table 2D – Capital Improvement Plan for Roadway Impact Fees – Service Area D

Service Area	Proj. #	Impact Fee Class	Project	Limits	Length (mi)	% In Service Area		
			R	oadway Improvements				
	D-1	ARTE	Austin Street	Kingsbury Street to IH 10	1.27	50%		
	D-2	COL	Walnut St (1)	King Street to SH 123	0.62	100%		
	D-3	MAJC	Walnut St (2)	0.80	100%			
	D-4	COL Meadow Lake Dr Stockdale Highway to SH 123 Bypass		Stockdale Highway to SH 123 Bypass	0.65	100%		
	D-5	COL	Heideke Street (2)	Kingsbury Street to IH 10	1.23	100%		
D	D-6	5 MAJC FM 466 (1) SH 123 Bypass to 950' S of Joe Carillo Blvd		1.01	100%			
D	D-7	MAJC	FM 466 (2)	950' S of Joe Carillo Blvd to 330' S of Mueller Lane	0.30	50%		
	D-8 PKWY FM 466 (3)		FM 466 (3)	100' S of Kimbrough Road to Hollub Lane	0.16	50%		
	Intersection Improvements							
	D-S1	D-S1 - Eastwood Drive & Preston Drive		Realignment	-	100%		
	D-S2	-	King Street & Gloria Drive	Turn Lane Installation	-	100%		
	D-S3	-	Stockdale Highway & Tor Drive	Intersection Improvements	-	50%		
	D-S4	-	SH 123 & Nelda Street / Guadalupe Street	Intersection Improvements	-	50%		













# 3. Methodology for Roadway Impact Fees

### A. Service Areas

The four (4) service areas used in the 2022 Roadway Impact Fee Update are shown in the previously referenced Exhibit 1. These service areas cover the entire corporate boundary of the City of Seguin. 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." Based on a review of the City of Seguin's roadway network, however, this limit was reduced to a maximum of five (5) miles for Service Areas A-D.

### 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.

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

<u>Vehicle-Mile</u>: The capacity consumed in a single lane in the PM peak hour by a vehicle making a trip one mile in length. The PM Peak is commonly used as the basis for transportation planning and the estimation of trips caused by new development.

<u>Total Vehicle-Miles of Supply</u>: Based on the total length (miles), number of lanes, and capacity (vehicles per hour) provided by Seguin's Master Thoroughfare Plan (see Appendix B).

<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 Roadway Impact Fee are based upon Thoroughfare Capacity Criteria based by information in the Highway Capacity Manual (HCM) and general transportation planning principles applied to the City of Seguin. Table 3 shows the service volumes as a function of the facility type.

#### Hourly Vehicle-Mile Capacity Roadway Type Median Configuration per Lane-Mile of Roadway (MTP Classifications) Facility Divided 925 6D\_(180) – Parkway 6D\_(120) - Major Arterial Divided 900 Divided 4D\_(90) - Arterial 750 Undivided 5U\_(120) - Arterial 700 4U\_(90) - Major Collector Undivided 575 Undivided 3U\_(60) - Collector 525

#### Table 3 – Level of Use for Proposed Facilities (used in Appendix B – CIP Units of Supply)





# 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 Roadway 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, a concept that will be covered in a later section of this report (see Section 3.E). As noted earlier, the units of demand are vehicle-miles of travel.

### D. Cost of the CIP

The costs that may be included in the cost per service unit are all of the implementation costs for the Roadway Impact Fee Study, as well as project costs for thoroughfare system elements within the Capital Improvement Plan. 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."

The engineer's opinion of the probable costs of the projects in the CIP is based, in part, on the calculation of a unit cost of construction. This means that a cost per linear foot of roadway is calculated based on an average price for the various components of roadway construction. This allows the probable cost to be determined by the type of facility being constructed, the number of lanes, and the length of the project. The costs for location-specific items such as bridges, highway ramps, drainage structures, and any other special components are added to each project as appropriate. The following is a detailed description of the costing worksheet/methodology for the Roadway Impact Fee CIP.

### 1. Overview of Roadway Impact Fee CIP Costing Worksheets

For each project a specific costing worksheet was developed (see Appendix A). Each worksheet contained the following four (4) main components:

- Project Information,
- Construction Pay Items,
- Construction Component Allowances and
- Summary of Costs and Allowances

An example costing sheet showing these four components is provided on the following page.





		City of Segui		h - 1 lm -la 4-		1	Kimle	ey-Horn an	d As	ssociates, Inc.
			Impact Fee Stud el Project Cost	• •				updated:		9/22/2022
		Project Informa	tion:		Description:		P	Project No.		A-5
	٢	Name:	Rudeloff Road (1)			This pro		consists	of th	-
		Limits:	Ridge Crest Drive to	1,320' N of FM 78				on of the		
Droject Information	J	Impact Fee Class:	4U_(80)			paveme	ent to	o a four la	ane	undivided
Project Information	ſ	Ultimate Class:	MAJC			major o	olled	ctor.		
		Length (If):	3700							
	L	Service Area(s):	A							
		Roadway Cons	truction Cost P	rojection						
	ſ	No. Item Descripti			Quantity	Unit	Un	it Price		Item Cost
		102 Unclassified St			25,489	су	\$	15.00	\$	382,333
		202 4" Type D Asp			23,433	ton	\$	30.00	\$	703,000
Construction Devillence	J	302 15" Crushed Li	mestone Flexible Ba	se Material	25,078	sy	\$	70.00	\$	1,755,444
Construction Pay Items	Ì	402 6" Lime Stabili	zation (with Lime @ 2	27#/sy)	25,078	sy	\$	5.00	\$	125,389
		502 4" Topsoil			4,522	sy	\$	4.00	\$	18,089
	l	602 5' Concrete Sic	lewalk		37,000	sf	\$	8.00	\$	296,000
		702 Turn Lanes and	d Median Openings		0	sy	\$	105.00	\$	-
				Pa	ving Constr	uction C	Cost S	Subtotal:	\$	3,280,256
		Maior Construction	Component Allow	ances**:						
	ſ	Item Descripti		Notes			Alle	owance		Item Cost
		√ Traffic Control						5%	\$	164,013
		✓ Pavement Markings/Signs/Posts Includes Striping/Signs for Bicycle Facilitie				Facilties		3%	\$	98,408
		√ Roadway Drain						15%	\$	492,038
Construction		√ Illumination						6%	\$	196,815
	$\prec$	Special Draina	ge Structures	None Anticipated				0%	\$	-
Component Allowances		√ Water		Minor Adjustments				5%	\$	164,013
		√ Sewer		Minor Adjustments				2%	\$	65,605
		√ Basic Landsca	ping and Irrigation					4%	\$	131,210
	U	Miscellaneous:						0%	\$	-
		**Allow ances based on	% of Paving Construction	n Cost Subtotal		Allowa	nce S	Subtotal:	\$	1,312,102
					Paving and	Allowa	nce S	Subtotal:	\$	4,592,358
				Constru	ction Contin	ngency:		15%	\$	688,854
					Mobi	lization		6%	\$	275,541
					Pre	p ROW		5%	\$	229,618
					Construct	ion Co	ost T	OTAL:	\$	5,787,000
			ject Cost Summ							
	r	Item Descripti	on	Notes:			Alle	owance	_	Item Cost
Summary of Costs		Construction:	<b>-</b>					-	\$	5,787,000
and Allowances	Ĩ	Engineering/Surve			1/2 DOM			20%	\$	1,157,400
	L	ROW/Easement Ac	quisition:	Existing Alignment (				10%	\$	578,700
						-		btotal:	\$	7,524,000
					ct Fee Pro				\$	7,524,000
			el cost projections listed i Capital Improvement Planr			offor Impac	ct Fee	calculations	s only	and should not

be used for any future Capital Improvement Planning within the City of Seguin The planning level cost projections shall not supersede the City's design standards contained or the determination of the City Engineer

for a specific project.





#### 2. Project Information

In order to correctly estimate the cost of a roadway project, several attributes are first identified:

- <u>Project Number</u> Identifies which Service Area the project is in with a corresponding number. The corresponding number does not represent any prioritizations and is used only to identify projects. For example, Project A-10 is in Service Area A and is the 10<sup>th</sup> project on the list.
- <u>Name</u> A unique identifier for each project.
- Limits Represents the beginning and ending location for each project.
- <u>Impact Fee Class</u> The costing class to be used in the analysis. The impact fee class provides the width for the various elements in the roadway. The construction costs are variable, based on the proposed Master Thoroughfare Plan classification of the roadway. For example, 4D\_(90) represents a four lane divided arterial within 90' of ROW.
- <u>Ultimate Class</u> The functional classification on Seguin's Master Thoroughfare Plan.
- Length (ft) The distance measured in feet that is used to cost out the project.
- <u>Service Area(s)</u> Represents the service area(s) where the project is located.
- <u>Description</u> Used to describe the project type assumed in the costing such as a widening or reconstruction.

#### 3. Construction Pay Items

A typical roadway project consists of a number of costs, including the following: planning, survey, design engineering, permitting, right-of way acquisition, construction and inspection. While the construction cost component of a project may actually consist of approximately 100 various pay items, a simplified approach was used for developing the conceptual level project costs. Each new project's construction cost was divided into three cost components: roadway construction cost, major construction component allowances, and summary of cost and allowances.

#### 4. Construction Component Allowances

A percentage of the paving construction cost is allotted for various major construction component allowances, as appropriate. These allowances include traffic control, pavement markings and signage, roadway drainage, illumination, minor water and sewer adjustments, landscaping and irrigation. These allowance percentages are also based on historical data.

In addition, lump sum dollar allowances are provided for special drainage structures, railroad crossings, and intersection improvements where needs are anticipated. The paving and allowance subtotal is given a fifteen percent (15%) contingency. An additional six percent (6%) of the construction cost total is added for mobilization and an additional five percent (5%) of the construction cost total is added for preparation of ROW.





#### 5. Summary of Cost and Allowances

To determine the total Impact Fee Project Cost, twenty percent (20%) of the construction cost total is added for engineering, surveying, and testing.

ROW/easement acquisition was based on a percentage of the total construction cost and is adjusted depending on whether the project was an existing alignment or future alignment. For an existing alignment, the ROW/easement acquisition cost was based on 10% of the total construction cost. For a new alignment, the ROW/easement acquisition cost was based on 20% of the total construction cost. The value for ROW/easement acquisition is an estimated contribution allocation and does not represent actual ROW/easement acquisition needs. For TxDOT facilities, no ROW/easement acquisition was allotted.

The Impact Fee Project Cost Total is the Construction Cost Total plus engineering, surveying, testing, and inspection; plus ROW/easement acquisition; and minus roadway escrow agreements.

# Table 4A – 10-Year Capital Improvement Plan for Roadway 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	ARTE	Cordova Road	1,150' E of SH 46 to SH 123	3.23	100%	\$	41,220,000
	A-2	PKWY	Outer Loop (1)	FM 1620 to SH 46	1.06	100%	\$	3,695,600
	A-3	PKWY	Outer Loop (2)	SH 46 to Rudeloff Road	0.71	100%	\$	13,477,000
	A-4	PKWY	Pecan Parkway (1)	Rudeloff Road to City Limits	0.63	100%	\$	9,334,000
	A-5	MAJC	Rudeloff Road (1)	Ridge Crest Drive to 1,320' N of FM 78	0.70	50%	\$	3,762,000
	A-6	MAJC	Rudeloff Road (2)	1,320' N of FM 78 to FM 78	0.23	50%	\$	1,240,500
	A-7	MAJC	Rudeloff Road (3)	Ridge Crest Drive to SH 46	0.69	100%	\$	7,391,000
	A-8	ARTE	Rudeloff Road (4)	SH 46 to Huber Road	1.52	100%	\$	19,502,000
	A-9	ARTE	Rudeloff Road (5)	Huber Road to 4156' E of Huber Road	0.96	100%	\$	12,596,000
	A-10	ARTE	Rudeloff Road (6)	6126' E of Huber Road to SH 123	0.27	100%	\$	3,600,000
	A-11	ARTE	Strempel Road (1)	Rudeloff Road to SH 123	0.84	100%	\$	10,384,000
	A-12	ARTE	Huber Road (1)	IH 10 to Rudeloff Road	1.30	100%	\$	15,669,000
Α	A-13	COL	Future Collector I	SH 46 to 775' E of Coral Way	0.82	100%	\$	5,521,000
	A-14	COL	Pecan Parkway (2)	Cordova Road to 1,750' N of Cordova Road	0.33	100%	\$	2,177,000
	A-15	COL	Huber Road (2)	Rudeloff Road to City Limits	0.74	100%	\$	4,962,000
	A-16	ARTE	Austin Street / BUS SH 123	IH 10 Frontage Road to SH 123 Bypass	1.28	50%	\$	1,430,600
	A-17	MAJC	Link Road	SH 123 to City Limits	0.73	50%	\$	3,904,000
				Intersection Improvements				
	A-S1	-	Outer Loop & SH 46	Future Grade Separated	-	100%	\$	3,000,000
	A-S2	-	SH 123 & Cordova Road	Turn Lane Installation	-	50%	\$	300,000
	A-S3	-	Huber Road & Rudeloff Road	Intersection Improvements	-	100%	\$	750,000
	A-S4	-	Rudeloff Road & Pecan Parkway	Signal Installation	-	100%	\$	500,000
				Service Area Roadway	Project Co	st Subtotal	\$1	59,865,700
				Service Area Intersection	Project Co	st Subtotal	\$	4,550,000
				2022 Roadway Impact Fee Study Update (	Cost Per Se	rvice Area	ı \$	10,750
				Total Cost in SE	RVICE	AREA A	\$10	64,426,450





#### Table 4B – 10-Year Capital Improvement Plan for Transportation Impact Fees with Conceptual Level Project Cost Projections – Service Area B

Service Area	Proj. #	Impact Fee Class	Project	Limits	Length (mi)	% In Service Area		ect Cost in vice Area
				Roadway Improvements				
	B-1	MAJC	FM 20 (1)	SH 123 to 1067' E of SH 123	0.41	100%	\$	816,600
	B-2	MAJC	FM 20 (2)	1067' E of SH 123 to City Limits	1.18	50%	\$	1,165,500
	B-3	PKWY	SH 123 Bypass	SH 123 to IH 10	1.65	100%	\$	5,185,800
	B-4	ARTE	Strempel Road (2)	SH 123 to SH 123 Bypass	0.47	100%	\$	5,635,000
	B-5	MAJC	Strempel Road (3)	SH 123 Bypass to 825' E of SH 123 Bypass	0.16	100%	\$	1,668,000
	B-6	MAJC	Martindale Rd (1)	825' E of SH 123 Bypass to 170' W of Parkwood Rd	0.17	100%	\$	1,840,000
	B-7	MAJC	Martindale Rd (2)	170' W of Parkwood Rd to 160' E of Almond Crk	0.18	100%	\$	1,830,000
	B-8	MAJC	Martindale Rd (3)	160' E of Almond Crk to Martindale Rd	0.07	100%	\$	719,000
	B-9	MAJC	Martindale Rd (4)	156' NE of Twin Oak Road to 1300' NE of Twin Oak Road	0.23	50%	\$	1,236,000
в	B-10	MAJC	Future Major Collector C	1300' NE of Twin Oak Road to FM 20	0.60	100%	\$	6,536,000
_	B-11	MAJC	Heideke Street (1)	SH 123 to IH 10 Frontage Road	0.33	100%	\$	3,590,000
	B-12	MAJC	Glenewinkel Road	SH 123 to 2,970' E of SH 123	0.56	100%	\$	6,029,000
	B-13	ARTE	Laubach Road	SH 123 to 2,000' E of SH 123	0.38	100%	\$	4,859,000
	B-14	ARTE	Austin Street / BUS SH 123	IH 10 Frontage Road to SH 123 Bypass	1.28	50%	\$	1,430,600
	B-15	PKWY	Outer Loop (3)	1,300' W of Heinemeyer Road to Boenig Road	0.64	100%	\$	2,347,000
				Intersection Improvements				
	B-S1	-	SH 123 & Cordova Road	Turn Lane Installation	-	50%	\$	300,000
				Service Area Roadway	Project Co	st Subtotal	\$ 4	4,887,500
				Service Area Intersection	Project Co	st Subtotal	\$	300,000
				2022 Roadway Impact Fee Study Update C	Cost Per Se	rvice Area	\$	10,750
				Total Cost in SE	RVICE	AREA B	\$4	5,198,250

#### Table 4C – 10-Year Capital Improvement Plan for Transportation Impact Fees with Conceptual Level Project Cost Projections – Service Area C

Service Area	Proj. #	pj. # Impact Fee Class Project		Limits	Length (mi)	% In Service Area		oject Cost in ervice Area
				Roadway Improvements				
	C-1	ARTE	Austin Street	Kingsbury Street to IH 10 Frontage Road	1.27	50%	\$	1,415,800
	C-2	ARTE	Fleming Drive	FM 78 to Kingsbury Street	0.67	100%	\$	8,115,000
	C-3	COL	Vaughn Ave, Hidalgo St	US 90 ALTE to FM 78	1.08	100%	\$	7,748,000
	C-4	COL	C H Matthies Jr	IH 10 Frontage Road to Lawson Street	0.78	100%	\$	5,122,000
	C-5	COL	Lawson Street	C H Matthies Jr to Kingsbury Street	0.16	100%	\$	1,026,000
	C-6	COL	B and B Road (1)	Inner Loop to 930' S of MI Mountain	0.36	100%	\$	2,376,000
	C-7	COL	Rodeo Run	3,615' W of SH 46 to SH 46	0.68	100%	\$	4,587,000
С	C-8	ARTE	Huber Road (3)	IH 10 Frontage Road to FM 78	0.13	100%	\$	1,555,000
	C-9	COL	B and B Road (2)	930' S of MI Mountain to Volunteer Street	0.34	100%	\$	2,294,000
	Intersection Improvements							
	C-S1	-	Stockdale Highway & Tor Drive	Intersection Improvements	-	50%	\$	375,000
	C-S2	-	SH 123 & Nelda Street / Guadalupe Street	Intersection Improvements	-	50%	\$	375,000
				Service Area Roadway	Project Co	st Subtotal	\$	34,238,800
				Service Area Intersection	Project Co	st Subtotal	\$	750,000
				2022 Roadway Impact Fee Study Update C	ost Per Se	rvice Area	\$	10,750
				Total Cost in SE	<b>RVICE</b>	AREA C	\$	34,999,550





#### Table 4D – 10-Year Capital Improvement Plan for Transportation Impact Fees with Conceptual Level Project Cost Projections – Service Area D

Service Area	Proj. #	Impact Fee Class	Project	Limits	Length (mi)	% In Service Area		oject Cost in ervice Area
				Roadway Improvements				
	D-1	ARTE	Austin Street	Kingsbury Street to IH 10	1.27	50%	\$	1,415,800
	D-2	COL	Walnut St (1)	King Street to SH 123	0.62	100%	\$	4,079,000
	D-3	MAJC	Walnut St (2)	SH 123 to Baer Creek Trail	0.80	100%	\$	8,570,000
	D-4	COL	Meadow Lake Dr	Stockdale Highway to SH 123 Bypass	0.65	100%	\$	4,253,000
	D-5	COL	Heideke Street (2)	Kingsbury Street to IH 10	1.23	100%	\$	8,086,000
	D-6	MAJC	FM 466 (1)	SH 123 Bypass to 950' S of Joe Carillo Blvd	1.01	100%	\$	2,006,200
	D-7	MAJC	FM 466 (2)	950' S of Joe Carillo Blvd to 330' S of Mueller Lane	0.30	50%	\$	294,800
D	D-8	PKWY	FM 466 (3)	100' S of Kimbrough Road to Hollub Lane	0.16	50%	\$	247,500
_	Intersection Improvements							
	D-S1	-	Eastwood Drive & Preston Drive	Realignment	-	100%	\$	1,000,000
	D-S2	-	King Street & Gloria Drive	Turn Lane Installation	-	100%	\$	600,000
	D-S3	-	Stockdale Highway & Tor Drive	Intersection Improvements	-	50%	\$	375,000
	D-S4	-	SH 123 & Nelda Street / Guadalupe Street	Intersection Improvements	-	50%	\$	375,000
				Service Area Roadway	Project Co	st Subtotal	\$	28,952,300
	Service Area Intersection Project Cost Subtotal							2,350,000
				2022 Roadway Impact Fee Study Update C	Cost Per Se	rvice Area	\$	10,750
				Total Cost in SE	RVICE .	AREA D	\$	31,313,050

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 Seguin.
- 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 each Service Area may differ from the total shown in the Summary sheets contained within Appendix A due to some projects that are split between multiple service areas.

### E. Service Unit Calculation

The basic service unit for the computation of Seguin's Roadway 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 2022 to 2032 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 2022 were made by the City, along with projections for each of these demographic statistics through 2032. 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 (2022) and projected (2032) roadway service units used to establish the Roadway 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 nonresidential. 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 vehiclemiles 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 (3) 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, 11<sup>th</sup> 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, 11<sup>th</sup> Edition and the Replica online platform. ITE's Trip Generation Manual, 11<sup>th</sup> 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 residential and industrial land uses were assumed by considering traffic both entering and exiting the City of Seguin, as well as internal travel within the City limits. Trips for all remaining land uses were assumed to be exclusively within the City limits.

The computation of the *transportation demand factor* is detailed in the following equation:

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

Variables:

TDF = Transportation Demand Factor,

- T = Trip Rate (peak hour trips / unit),
- P<sub>b</sub> = Pass-By Discount (% of trips),
- L<sub>max</sub> = Maximum Trip Length (miles),
- L = Average Trip Length (miles),
- OD = Origin-Destination Reduction (50%)
- SA<sub>L</sub> = Max Service Area Trip Length (see Table 5)





Although Chapter 395 of the Texas Local Government Code allows for a service area of six (6) miles, the maximum trip length was limited to 5.0 miles for all Service Areas A-D based on a review of the City of Seguin's roadway network.

The adjustment made to the average trip length statistic in the computation of the maximum trip length is the origindestination reduction. This adjustment is made because the Roadway 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 Seguin to both residential and non-residential land uses. To avoid counting these trips as both residential and nonresidential 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 Replica platform and additional standard transportation practices.

Table 5 shows the derivation of the Transportation Demand Factor for the residential land uses and the three (3) 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.

Variable	Residential (ITE #210)	Basic (ITE #110)	Service (ITE #710)	Retail (ITE #821)
Т	0.94	0.65	1.44	3.11
Pb	0%	0%	0%	40%
L	5.01	10.18	3.70	1.95
Lmax	5.00	5.00	3.70	1.95
TDF	4.70	3.25	5.33	6.07

#### Table 5 – Transportation Demand Factor Calculations

The application of the demographic projections and the transportation demand factors are presented in the 10-Year Growth Projections in Table 6. This table shows the total vehicle-miles by service area for the years 2022 and 2032. These estimates and projections lead to the Vehicle-Miles of Travel for both 2022 and 2032.





SERVICE	RESIDENTIAL VEHICLE		E-MILES	NON-RESIDENTIAL SQUARE FEET <sup>4</sup>		TRANS	TRANS. DEMAND FACTOR <sup>5</sup>		NON-RESIDENTIAL VEHICLE-MILES <sup>9</sup>			TOTAL		
AREA	Single Family Units	rs TDF <sup>2</sup> VEHICLE BASIC SERVICE		RETAL	BASIC <sup>6</sup>	SERVICE <sup>7</sup>	<b>RETAL</b> <sup>8</sup>	BASIC	SERVICE	RETAIL	TOTAL	VEHICLE MILES <sup>10</sup>		
		0.94					0.65	1.44	3.11					
Α	8,556		40,213	320,933	3,556,514	8,786,740				1,043	18,956	53,336	73,335	113,548
В	2,017	4.70	9,480	916,944	144,696	3,633,196	2.05	5.33	6.07	2,980	771	22,053	25,804	35,284
С	1,486	4.70	6,984	5,861,336	1,422,398	2,034,285	3.25	5.33	0.07	19,049	7,581	12,348	38,978	45,962
D	1,487		6,989	1,611,688	1,531,042	2,669,668				5,238	8,160	16,205	29,603	36,592
Totals	13,546		63,666	8,710,901	6,654,651	17,123,889				28,310	35,468	103,942	167,720	231,386

#### Table 6 – 10-Year Growth Projections

#### VEHICLE-MILES OF INCREASE (2022 - 2032)

2022 - 2032 Growth Projections<sup>1</sup>

SERVICE AREA	VEH-MILES
Α	113,548
В	35,284
С	45,962
D	36,592

#### Notes:

<sup>1</sup> From Land Use Assumptions

<sup>2</sup> Transportation Demand Factor for each Service Area (from LUVMET) using Single Family Detached Housing land use and *trip generation rate* 

<sup>3</sup> Calculated by multiplying TDF by the number of dwelling units

<sup>4</sup> From Land Use Assumptions

<sup>5</sup> Trip generation rate and Transportation Demand Factors from LUVMET for each land use

<sup>6</sup> 'Basic' corresponds to General Light Industrial land use and trip generation rate

<sup>7</sup> 'Service' corresponds to General Office Building land use and trip generation rate

<sup>8</sup> 'Retail' corresponds to Shopping Plaza (40-150k) land use and trip generation rate

<sup>9</sup> Calculated by multiplying Transportation Demand Factor by the number of thousand square feet for each land use

<sup>10</sup> Residential plus non-residential vehicle-mile totals for each Service Area





# 4. Roadway 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 Roadway Impact Fee CIP costs for the service area divided by the growth in travel attributable to new development projected to occur within the 10-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 7 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 7 – Maximum Assessable Roadway Impact Fee Computation

Line	Title	Description
1	Total Vehicle-Miles of Capacity To Be Added by the CIP	The total number of vehicle-miles added to the service area based on the capacity, length, and number of lanes in each project (from Appendix B – CIP Service Units of Supply)

Each project identified in the Impact Fee 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.

2	Total Vehicle-Miles of Existing Demand	A measure of the amount of traffic currently using the roadway facilities upon which capacity is being added. (from Appendix B – CIP Service Units of Supply)
---	---	---

A number of facilities identified in the Impact Fee 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.

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

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

4	Total Vehicle-Miles of New Demand over Ten	Based upon the growth projection provided in the Land Use Assumptions, an estimate of the number of new vehicle-miles within the service area over				
	Years	the next ten years. (from Table 6)				
5	Chapter 395 Check	Does the 10-year demand exceed capacity to be provided by the CIP?				

This line presents the amount of growth (in vehicle-miles) projected to occur within each service area over the next ten years. This step is followed by a measure of projected demand vs. added capacity over the next ten years.





	Total Cost of the	The total cost of the roadway projects and Impact Fee Study within each
6	5 1	
0	and Study within the	Transportation Improvements Plan with Conceptual Level Cost Opinions)
	Service Area	

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

		Percent of Roadway Capacity Added	The result of dividing Net Amount of Capacity Added (Line 3) by the Total Vehicle-Miles of Capacity to be Added by the CIP (Line 1), limited to 100%.
	7	Attributable	This calculation is required by Chapter 395 to ensure capacity added is
		to New Growth	attributable to new growth.

In order to ensure that the vehicle-miles added by the Roadway Impact Fee 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 Impact Fee CIP exceeds the growth projected to occur in the next ten years, the Roadway Impact Fee CIP cost is reduced accordingly.

8	Cost of Roadway Impact Fee CIP Added Attributable to New	The result of multiplying the Total Cost of the Roadway Impact Fee CIP and Study (Line 6) by the Percent of Roadway Capacity Added Attributable to New Growth, limited to 100% (Line 7).
	Growth	

This value is the total roadway Impact Fee CIP 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.

9	Cost to Meet Existing Needs and Usage	The difference between the Total Cost of the Roadway Impact Fee CIP (Line 6) and the Cost of the Roadway CIP Added Attributable to New Growth (Line 8).
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This line is provided for information purposes only – it is to present the portion of the total cost of the Roadway Impact Fee CIP that is required to meet existing demand.

10	Total Cost of the Intersection Impact Fee CIP within the Service Area	The total cost of the intersection projects within each service area (from Table 4: 10-Year Transportation Impact Fee Transportation Improvements Plan with Conceptual Level Cost Opinions)
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This line simply identifies the total cost of all the intersection projects identified in each service area.

11	Percent of Intersection Capacity Added Attributable to New Growth	The result of dividing Total Vehicle-Miles of New Demand (Line 4) by the 10-year increase in vehicle-mile capacity per service area (Table 6).
----	--	--

In order to ensure that the capacity added by the Intersection Impact Fee 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-mile carrying capacity.





12	Cost of Intersection Impact Fee CIP Attributable to New	The result of multiplying the Total Cost of the Intersection Impact Fee CIP (Line 10) by the Percent of Intersection Capacity Added Attributable to New Growth (Line 11).
	Growth	

This value is the total Intersection Impact Fee CIP project cost (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.

13	Cost of Total Roadway Impact Fee CIP Attributable to New Growth	The result of adding the Cost of the Roadway Impact Fee CIP Attributable to New Growth (Line 8) to the Cost of the Intersection Impact Fee CIP Attributable to New Growth (Line 12).
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This value is the total Roadway (roadway + intersection projects) Impact Fee CIP project cost (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.

### B. Plan for Awarding the Roadway Impact Fee Credit

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

- "(7) A plan for awarding:
  - (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 following table summarizes the portions of Table 7 that utilize this credit calculation, based on awarding a 50 percent credit.

Line	Title	Description
14	Cost of Capacity Added Attributable to Growth with 50% Credit for Ad Valorem Taxes	A credit equal to 50% of the total projected cost, as per Section 395.014 of the Texas Local Government Code.
15	Maximum Assessable Fee Per Service Unit	Found by dividing the Total Recoverable Cost (after applying credits) of the CIP Attributable to New Growth (Line 14) by the Total Vehicle-Miles of New Demand Over Ten Years (Line 4).





# Table 8. Maximum Assessable Transportation Impact Fee

	SERVICE AREA:	T	A	Ĩ	B	С	D
1	TOTAL VEH-MI OF CAPACITY TO BE ADDED BY THE CIP (FROM ROADWAY IMPACT FEE CIP SERVICE UNITS OF SUPPLY, <b>APPENDIX B</b> )		49,362		27,937	11,578	13,471
2	TOTAL VEH-MI OF EXISTING DEMAND (FROM ROADWAY IMPACT FEE CIP SERVICE UNITS OF SUPPLY, <b>APPENDIX B</b> )	1	3,994	9	3,588	794	2,362
3	NET AMOUNT OF VEH-MI OF CAPACITY ADDED (LINE 1 - LINE 2)		45,368		24,349	10,784	11,109
4	TOTAL VEH-MI OF NEW DEMAND OVER TEN YEARS (FROM TABLE 6 AND LAND USE ASSUMPTIONS)		113,548		35,284	45,962	36,592
5	CHAPTER 395 CHECK: DOES THE 10 YEAR DEMAND EXCEED CAPACITY TO BE PROVIDED BY THE CIP? "YES" IF LINE 4 > LINE 3		YES		YES	YES	YES
6	TOTAL COST OF THE <b>ROADWAY</b> IMPACT FEE CIP AND STUDY WITHIN SERVICE AREA (FROM <b>TABLES 4A TO 4D</b> )	s	159,876,450	\$	44,898,250	\$ 34,249,550	\$ 28,963,050
7	PERCENT OF <b>ROADWAY</b> CAPACITY ADDED ATTRIBUTABLE TO NEW GROWTH (LINE 3 / LINE 1)	C	91.91%		87.16%	93.14%	82.47%
8	COST OF <b>ROADWAY</b> IMPACT FEE CIP ATTRIBUTABLE TO NEW GROWTH (LINE 6 * LINE 7)	s	146,940,456	s	39,131,886	\$ 31,900,773	\$ 23,884,680
9	COST TO MEET EXISTING NEEDS AND USAGE (LINE 6 - LINE 8)	s	12,935,994	s	5,766,364	\$ 2,348,777	\$ 5,078,370
10	TOTAL COST OF THE INTERSECTION IMPACT FEE CIP WITHIN THE SERVICE AREA (FROM <b>TABLES 4A TO 4Z</b> )	s	4,550,000	s	300,000	\$ 750,000	\$ 2,350,000
11	PERCENT OF INTERSECTION CAPACITY ADDED ATTRIBUTABLE TO NEW GROWTH (FROM TABLE 6 AND LAND USE ASSUMPTIONS)		71.90%		69.40%	32.60%	24.60%
12	COST OF INTERSECTION IMPACT FEE CIP ATTRIBUTABLE TO NEW GROWTH (LINE 10 * LINE 11)	s	3,271,450	S	208,200	\$ 244,500	\$ 578,100
13	COST OF TOTAL ROADWAY IMPACT FEE CIP ATTRIBUTABLE TO NEW GROWTH (LINE 8 + LINE 12)	s	150,211,906	S	39,340,086	\$ 32,145,273	\$ 2 <mark>4,4</mark> 62,780
14	CREDIT FOR AD VALOREM TAXES (50% OF LINE 13)	s	75,105,953	S	19,670,043	\$ 16,072,637	\$ 12,231,390
15	MAX ASSESSABLE FEE PER SERVICE UNIT (\$ PER VEH-MI) (LINE 14 / LINE 4)	s	661	s	557	\$ 350	\$ 334





## C. Service Unit Demand Per Unit of Development

The Roadway 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 9. This table lists the predominant land uses that may occur within the City of Seguin. 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, 11<sup>th</sup> 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 (SA A - D – 5.0 mi).

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 9 - Land Use / Vehicle-Mile Equivalency Table (LUVMET)

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
PORT AND TERMINAL		the second second									
Intermodal Truck Terminal	030	1,000 SF GFA	1.87			1.87	20.36	50%	10.18	5.00	9.35
INDUSTRIAL											
General Light Industrial	110	1,000 SF GFA	0.65	1		0.65	20.36	50%	10.18	5.00	3.25
Industrial Park	130	1,000 SF GFA	0.34	1		0.34	20.36	50%	10.18	5.00	1.70
Warehousing	150	1,000 SF GFA	0.18	192	12 - D2	0.18	20.36	50%	10.18	5.00	0.90
Mini-Warehouse	151	1,000 SF GFA	0.15	92. 	s	0.15	20.36	50%	10.18	5.00	0.75
RESIDENTIAL			ð.	8	S			1			
Single-Family Detached Housing	210	Dwelling Units	0.94	35	c	0.94	10.03	50%	5.01	5.00	4.70
Single-Family Attached Housing	215	Dwelling Units	0.57			0.57	10.03	50%	5.01	5.00	2.85
Multifamily Housing (Low-Rise)	220	Dwelling Units	0.51			0.51	10.03	50%	5.01	5.00	2.55
Multifamily Housing (Mid-Rise)	221	Dwelling Units	0.39	1		0.39	10.03	50%	5.01	5.00	1.95
Multifamily Housing (High-Rise)	222	Dwelling Units	0.32	1		0.32	10.03	50%	5.01	5.00	1.60
Mobile Home Park	240	Dwelling Units	0.58	1		0.58	10.03	50%	5.01	5.00	2.90
Senior Adult Housing - Single-Family	251	Dwelling Units	0.30			0.30	10.03	50%	5.01	5.00	1.50
Senior Adult Housing - Multifamily	252	Dwelling Units	0.25	8	s	0.25	10.03	50%	5.01	5.00	1.25
Assisted Living	254	Beds	0.24	8	K	0.24	10.03	50%	5.01	5.00	1.20
LODGING				2	Y						
Hotel	310	Rooms	0.59	<u> </u>		0.59	6.43	50%	3.22	3.22	1.90
Motel	320	Rooms	0.36	j.		0.36	6.43	50%	3.22	3.22	1.16
RECREATIONAL											
Golf Course	430	Holes	2.91	1		2.91	4.80	50%	2.40	2.40	6.98
Miniature Golf Course	431	Holes	0.33	-		0.33	4.80	50%	2.40	2.40	0.79
Golf Driving Range	432	Tees/Driving Positions	1.25	50 C	er (*)	1.25	4.80	50%	2.40	2.40	3.00
Multipurpose Recreational Facility	435	1.000 SF GFA	3.58	2	8. 3	3.58	4.80	50%	2.40	2.40	8.59
Movie Theater	445	Movie Screens	13.96	8	( ) (	13.96	4.80	50%	2.40	2.40	33,50
Ice Skating Rink	465	1,000 SF GFA	1.33			1.33	4.80	50%	2.40	2.40	3.19
Racquet/Tennis Club	491	Tennis Courts	3.82	1		3.82	4.80	50%	2.40	2.40	9.17
Health/Fitness Club	492	1.000 SF GFA	3.45			3.45	4.80	50%	2.40	2.40	8.28
Recreational Community Center	495	1,000 SF GFA	2.50			2.50	4.80	50%	2.40	2.40	6.00
INSTITUTIONAL				1							
Elementary School	520	Students	0.16			0.16	3.49	50%	1.75	1.75	0.28
Middle School/Junior High School	522	Students	0.15		1 () ()	0.15	3.49	50%	1.75	1.75	0.26
High School	525	Students	0.14	90. 1	e	0.14	3.49	50%	1.75	1.75	0.25
Private School (K-8)	530	Students	0.26	3	97	0.26	3.49	50%	1.75	1.75	0.46
Private High School	534	Students	0.19	2	8	0.19	3.49	50%	1.75	1.75	0.33
Charter Elementary School	536	Students	0.16			0.16	3.49	50%	1.75	1.75	0.28
Junior/Community College	540	Students	0.11			0.11	10.44	50%	5.22	5.00	0.55
University/College	550	Students	0.15			0.15	10.44	50%	5.22	5.00	0.75
Church	560	1.000 SF GFA	0.49	1	-	0.49	8.31	50%	4.16	4.16	2.04
Day Care Center	565	1,000 SF GFA	11.12	44%	С	6.23	3.49	50%	1.75	1.75	10.90
MEDICAL					6						
Hospital	610	1,000 SF GFA	0.86	S.	s (3)	0.86	9.85	50%	4.93	4.93	4.24
Nursing Home	620	Beds	0.14	3	97	0.14	9.85	50%	4.93	4.93	0.69
Clinic	630	1.000 SF GFA	3.69	2	( ) (	3.69	9.85	50%	4.93	4.93	18.19
Animal Hospital/Veterinary Clinic	640	1,000 SF GFA	3.53	30%	В	2.47	9.85	50%	4.93	4.93	12.18
OFFICE					1000						
General Office Building	710	1,000 SF GFA	1.44			1.44	7.40	50%	3.70	3.70	5.33
Corporate Headquarters Building	714	1,000 SF GFA	1.30	Ĩ		1.30	7.40	50%	3.70	3.70	4.81
Single Tenant Office Building	715	1,000 SF GFA	1.76			1.76	7.40	50%	3.70	3.70	6.51
Medical-Dental Office Building	720	1,000 SF GFA	3.93		1	3.93	9.85	50%	4.93	4.93	19.37
Office Park	750	1,000 SF GFA	1.30	S	e	1.30	7.40	50%	3.70	3.70	4.81

Key to Source: 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





# Table 9 Cont'd. - Land Use / Vehicle-Mile Equivalency Table (LUVMET)

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
COMMERCIAL								_			
Automobile Related				76							
Automobile Sales (New)	840	1,000 SF GFA	2.42	20%	В	1.94	5.00	50%	2.50	2.50	4.84
Automobile Sales (Used)	841	1,000 SF GFA	3.75	20%	В	3.00	5.00	50%	2.50	2.50	7.50
Automobile Parts Sales	843	1,000 SF GFA	4.90	43%	A	2.79	5.00	50%	2.50	2.50	6.98
Tire Store	848	1,000 SF GFA	3.75	25%	С	2.81	5.00	50%	2.50	2.50	7.03
Quick Lubrication Vehicle Shop	941	Servicing Positions	4.85	40%	В	2.91	5.00	50%	2.50	2.50	7.28
Automobile Care Center	942	1.000 SF GFA	3.11	40%	В	1.87	5.00	50%	2.50	2.50	4.67
Gasoline/Service Station	944	Vehicle Fueling Positions	13.91	57%	С	5.98	5.00	50%	2.50	2.50	14.95
Convenience Store/Gas Station	945	Vehicle Fueling Positions	13.51	56%	B	5.94	5.00	50%	2.50	2.50	14.86
Self-Service Car Wash	947	Wash Stalls	5.54	40%	B	3.32	5.00	50%	2.50	2.50	8.31
Car Wash and Detail Center	949	Wash Stalls	13.60	40%	B	8.16	5.00	50%	2.50	2.50	20.40
Dining											
Fast Casual Restaurant	930	1.000 SF GFA	12.55	43%	A	7.15	4.60	50%	2.30	2.30	16.45
Fine Dining Restaurant	931	1.000 SF GFA	7.80	44%	A	4.37	4.60	50%	2.30	2.30	10.05
High-Turnover (Sit-Down) Restaurant	932	1.000 SF GFA	9.05	43%	A	5.16	4.60	50%	2.30	2.30	11.86
Fast-Food Restaurant without Drive-Through Window	933	1,000 SF GFA	33.21	50%	B	16.61	4.60	50%	2.30	2.30	38.19
Fast-Food Restaurant with Drive-Through Window	934	1.000 SF GFA	33.03	50%	A	16.52	4.60	50%	2.30	2.30	37.98
Coffee/Donut Shop with Drive-Through Window	937	1,000 SF GFA	38.99	70%	A	11.70	4.60	50%	2.30	2.30	26.90
Other Retail											
Free-Standing Discount Store	815	1.000 SF GFA	4.86	20%	С	3.89	3.90	50%	1.95	1.95	7.58
Nursery (Garden Center)	817	1,000 SF GFA	6.94	30%	B	4.86	3.90	50%	1.95	1.95	9.47
Shopping Center (>150k SF)	820	1,000 SF GFA	3.40	29%	C	2.41	3.90	50%	1.95	1.95	4.71
Shopping Plaza (40-150k)	821	1.000 SF GFA	5.19	40%	c	3.11	3.90	50%	1.95	1.95	6.07
Strip Retail Plaza (<40k SF)	822	1,000 SF GFA	6.59	40%	B	3.95	3.90	50%	1.95	1.95	7.71
Supermarket	850	1.000 SF GFA	8.95	24%	c	6.80	3.90	50%	1.95	1.95	13.26
Home Improvement Superstore	862	1,000 SF GFA	2.29	42%	A	1.33	3.90	50%	1.95	1.95	2.59
Toy/Children's Superstore	864	1.000 SF GFA	5.00	30%	B	3.50	3.90	50%	1.95	1.95	6.83
Department Store	875	1.000 SF GFA	1.95	30%	B	1.37	3.90	50%	1.95	1.95	2.66
Pharmacy/Drugstore without Drive-Through Window	880	1,000 SF GFA	8.51	53%	A	4.00	3.90	50%	1.95	1.95	7.80
Pharmacy/Drugstore with Drive-Through Window	881	1,000 SF GFA	10.25	49%	A	5.23	3.90	50%	1.95	1.95	10.19
SERVICES	001	1,000 01 0171	10.25	77/0	A	5.23	5.70	2070	1.22	1.75	10.13
Walk-in Bank	911	1.000 SF GFA	12.13	40%	В	7.28	5.00	50%	2.50	2.50	18.20
Drive-in Bank	911	Drive-in Lanes	27.07	35%	A	17.60	5.00	50%	2.50	2.50	43.99
Hair Salon	912	1.000 SF GLA	1.45	30%	B	1.02	5.00	50%	2.50	2.50	2.54
rian Salon	918	1,000 SF GLA			D D		0.00	JU/0	2.30	2.50	2.34

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





# 5. Sample Calculations

The following section details two (2) examples of maximum assessable Roadway Impact Fee calculations.

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

	Roadway Impact Fee Calculation Steps – Example 1						
	Determine Development Unit and Vehicle-Miles Per Development Unit						
Step 1	From Table 9 [Land Use – Vehicle-mile Equivalency Table] Development Type: 1 Dwelling Unit of Single-Family Detached Housing Number of Development Units: 1 Dwelling Unit Veh-Mi Per Development Unit: 4.70						
Step	Determine Maximum Assessable Impact Fee Per Service Unit						
2	From Table 8, Line 12 [Maximum Assessable Fee Per Service Unit] Service Area A: \$661						
	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 * 4.70 * \$661						
	Maximum Assessable Impact Fee = \$3,106.70						

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

	Roadway Impact Fee Calculation Steps – Example 2							
	Determine Development Unit and Vehicle-Miles Per Development Unit							
Step 1	From Table 9 [Land Use – Vehicle-mile Equivalency Table] 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: 2.59							
Step	Determine Maximum Assessable Impact Fee Per Service Unit							
2	From Table 8, Line 12 [Maximum Assessable Fee Per Service Unit] Service Area B: \$557							
	Determine Maximum Assessable Impact Fee							
Step 3	Impact Fee = # of Development Units * Veh-Mi Per Dev Unit * Max. Fee Per Service Unit Impact Fee = 125 * 2.59 * \$557 Maximum Assessable Impact Fee = \$180,328.75							





# 6. Conclusion

The City of Seguin has established a process to implement the assessment and collection of Roadway 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 Roadway Impact Fee that could be assessed by the City of Seguin within each of the four (4) service areas. The maximum assessable Roadway Impact Fees calculated in this report are presented in the table below:

Service Area		1 2		2	3		4	
2022 Roadway Impact Fee Study Maximum Assessible Fee Per Vehicle-Mile	\$	661	\$	557	\$	350	\$	334

This document serves as a guide to the assessment of Roadway 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 Roadway 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.





# 7. Appendices

A. Conceptual Level Project Cost Projections

SERVICE AREA A SERVICE AREA B SERVICE AREA C SERVICE AREA D

B. CIP Service Units of Supply





# A. Conceptual Level Project Cost Projections

Kimley **»Horn** 

### **City of Seguin**

2022 Roadway Impact Fee Study Update Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

updated: 9/22/2022

Name: _imits: mpact Fee Class: Jltimate Class: _ength (lf): Service Area(s):		A-1 he sting divided arterial							
Roadway Const	ruction Cost Pro	ojection							
No. Item Descripti				Unit Unit Price			Item Cost		
	Unclassified Street Excavation			су	\$	15.00	\$	1,873,300	
205 4" Type D Aspł			105,964	ton	\$	30.00	\$	3,178,933	
	mestone Flexible Ba		121,102	sy	\$	70.00	\$	8,477,156	
	zation (with Lime @ 2	27#/sy)	121,102	sy	\$	5.00	\$	605,511	
505 4" Topsoil			37,844	sy	\$	4.00	\$	151,378	
605 5' Concrete Sic			170,300	sf	\$	8.00	\$	1,362,400	
705 Turn Lanes and	d Median Openings		12,622 aving Constr	sy	\$	105.00	\$	1,325,308 <b>16,973,986</b>	
	n Component Allow								
Item Descripti	on	Notes			All	owance	Ļ	Item Cost	
√ Traffic Control		Notes Construction Phase		-141	All	5%		848,699	
<ul> <li>√ Traffic Control</li> <li>√ Pavement Mart</li> </ul>	kings/Signs/Posts	Notes Construction Phase Includes Striping/Sig	ins for Bicycle Fa	cilties	All	5% 3%	\$	848,699 509,220	
<ul> <li>√ Traffic Control</li> <li>√ Pavement Marl</li> <li>√ Roadway Drain</li> </ul>	kings/Signs/Posts	Notes Construction Phase	ins for Bicycle Fa	cilties	All	5% 3% 15%	\$ \$	848,699 509,220 2,546,098	
<ul> <li>√ Traffic Control</li> <li>√ Pavement Marl</li> <li>√ Roadway Drain</li> <li>√ Illumination</li> </ul>	kings/Signs/Posts nage	Notes Construction Phase Includes Striping/Sig Standard Internal Sy	ins for Bicycle Fa	cilties	All	5% 3% 15% 6%	\$ \$ \$	848,699 509,220 2,546,098 1,018,439	
<ul> <li>√ Traffic Control</li> <li>√ Pavement Marl</li> <li>√ Roadway Drair</li> <li>√ Illumination</li> </ul>	kings/Signs/Posts nage	Notes Construction Phase Includes Striping/Sig	ins for Bicycle Fa	cilties	All	5% 3% 15% 6% 0%	\$ \$ \$ \$ \$	848,699 509,220 2,546,098 1,018,439 1,400,000	
<ul> <li>√ Traffic Control</li> <li>√ Pavement Marl</li> <li>√ Roadway Drair</li> <li>√ Illumination</li> <li>√ Special Drainage</li> </ul>	kings/Signs/Posts nage	Notes Construction Phase Includes Striping/Sig Standard Internal Sy Bridge Crossing	ins for Bicycle Fa	cilties	All	5% 3% 15% 6%	\$ \$ \$ \$ \$ \$ \$	848,699 509,220 2,546,098 1,018,439	
<ul> <li>√ Traffic Control</li> <li>√ Pavement Marl</li> <li>√ Roadway Drair</li> <li>√ Illumination</li> <li>√ Special Drainag</li> <li>√ Water</li> <li>√ Sewer</li> </ul>	kings/Signs/Posts nage	Notes Construction Phase Includes Striping/Sig Standard Internal Sy Bridge Crossing Minor Adjustments	ins for Bicycle Fa	cilties	All	5% 3% 15% 6% 0% 5%	\$ \$ \$ \$ \$ \$	848,699 509,220 2,546,098 1,018,439 1,400,000 848,699	
<ul> <li>√ Traffic Control</li> <li>√ Pavement Marl</li> <li>√ Roadway Drain</li> <li>√ Illumination</li> <li>√ Special Drainag</li> <li>√ Water</li> <li>√ Sewer</li> </ul>	kings/Signs/Posts nage ge Structures ping and Irrigation	Notes Construction Phase Includes Striping/Sig Standard Internal Sy Bridge Crossing Minor Adjustments	ins for Bicycle Fa			5% 3% 15% 6% 0% 2% 4% 0%	\$\$\$\$\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	848,699 509,220 2,546,098 1,018,439 1,400,000 848,699 339,480 678,959	
<ul> <li>✓ Traffic Control</li> <li>✓ Pavement Marl</li> <li>✓ Roadway Drain</li> <li>✓ Illumination</li> <li>✓ Special Drainag</li> <li>✓ Water</li> <li>✓ Sewer</li> <li>✓ Basic Landscag</li> <li>Miscellaneous:</li> </ul>	kings/Signs/Posts nage ge Structures ping and Irrigation	Notes Construction Phase Includes Striping/Sig Standard Internal Sy Bridge Crossing Minor Adjustments Minor Adjustments	ins for Bicycle Fa			5% 3% 15% 6% 0% 5% 2% 4%	\$ \$ \$ \$ \$ \$ \$	848,699 509,220 2,546,098 1,018,439 1,400,000 848,699 339,480 678,959	
<ul> <li>√ Traffic Control</li> <li>√ Pavement Marl</li> <li>√ Roadway Drain</li> <li>√ Illumination</li> <li>√ Special Drainag</li> <li>√ Water</li> <li>√ Sewer</li> <li>√ Basic Landscag</li> <li>Miscellaneous:</li> </ul>	kings/Signs/Posts nage ge Structures ping and Irrigation	Notes Construction Phase Includes Striping/Sig Standard Internal Sy Bridge Crossing Minor Adjustments Minor Adjustments	ins for Bicycle Fa	Allowa	ince	5% 3% 15% 6% 0% 2% 4% 0% Subtotal:	\$\$\$\$\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	848,699 509,220 2,546,098 1,018,439 1,400,000 848,699 339,480 678,959	
<ul> <li>√ Traffic Control</li> <li>√ Pavement Marl</li> <li>√ Roadway Drain</li> <li>√ Illumination</li> <li>√ Special Drainag</li> <li>√ Water</li> <li>√ Sewer</li> <li>√ Basic Landscag</li> <li>Miscellaneous:</li> </ul>	kings/Signs/Posts nage ge Structures ping and Irrigation	Notes Construction Phase Includes Striping/Sig Standard Internal Sy Bridge Crossing Minor Adjustments Minor Adjustments	Paving and ruction Contin	Allowa d Allowa ngency:		5% 3% 15% 6% 0% 5% 2% 4% 0% Subtotal: Subtotal: 15%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	848,699 509,220 2,546,098 1,018,439 1,400,000 848,699 339,480 678,959 8,189,594 25,163,580 3,774,537	
<ul> <li>√ Traffic Control</li> <li>√ Pavement Marl</li> <li>√ Roadway Drain</li> <li>√ Illumination</li> <li>√ Special Drainag</li> <li>√ Water</li> <li>√ Sewer</li> <li>√ Basic Landscag</li> <li>Miscellaneous:</li> </ul>	kings/Signs/Posts nage ge Structures ping and Irrigation	Notes Construction Phase Includes Striping/Sig Standard Internal Sy Bridge Crossing Minor Adjustments Minor Adjustments	Paving and uction Contin Mobi	Allowa d Allowa ngency: ilization		5% 3% 15% 6% 0% 2% 4% 0% Subtotal: <u>5%</u> 6%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	848,699 509,220 2,546,098 1,018,439 1,400,000 848,699 339,480 678,959 8,189,594 25,163,580 3,774,537 1,509,815	
<ul> <li>√ Traffic Control</li> <li>√ Pavement Marl</li> <li>√ Roadway Drain</li> <li>√ Illumination</li> <li>√ Special Drainag</li> <li>√ Water</li> <li>√ Sewer</li> <li>√ Basic Landscag</li> <li>Miscellaneous:</li> </ul>	kings/Signs/Posts nage ge Structures ping and Irrigation	Notes Construction Phase Includes Striping/Sig Standard Internal Sy Bridge Crossing Minor Adjustments Minor Adjustments	Paving and uction Contin Mobi	Allowa d Allowa ngency: ilization ep ROW		5% 3% 15% 6% 2% 2% 4% 0% Subtotal: <u>15%</u> 6% 5%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	848,699 509,220 2,546,098 1,018,439 1,400,000 848,699 339,480 678,959 8,189,594 25,163,580	

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 31,707,000
Engineering/Survey/Testing:		20%	\$ 6,341,400
ROW/Easement Acquisition:	Existing Alignment (1/2 ROW)	10%	\$ 3,170,700
	\$ 41,220,000		
	\$ 41,220,000		

**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 Seguin

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

#### 2022 Roadway Impact Fee Study Update **Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated: 9/22/2022

Pro	ject Information	tion:		Description:			Project No.		A-2
Nam	ne:	Outer Loop (1)			This project consists of the				
Limi	its:	FM 1620 to SH 46							lane divided
Impa	act Fee Class:	6D_(180)			parkwa	у.			
Ultir	nate Class:	PKWY			· ·				
Leng	gth (lf):	5600							
Serv	/ice Area(s):	A							
		ruction Cost Pro	jection						
	Item Descripti			Quantity	Unit		it Price	4	Item Cost
107		reet Excavation		52,267	су	\$	15.00	\$	784,000
	4" Type D Aspl			46,044	ton	\$	30.00	\$	1,381,333
		mestone Flexible Bas		51,022	sy	\$	70.00	\$	3,571,556
		zation (with Lime @ 2	(#/SY)	51,022	sy	\$	5.00	\$	255,111
	4" Topsoil	Dath		49,778	sy	\$	4.00	\$	199,111
	12' Shared Use			134,400	sf	\$	8.00	\$	1,075,200
107	707 Turn Lanes and Median Openings 5,883 sy \$ 105.0							\$	617,697
	Paving Construction Cost Subtotal:						\$	7,884,008	
Maio	or Construction	Component Allowa	inces**:						
in a je	Item Descripti		Notes				owance		Item Cost
	Traffic Control	-	None Anticipated					\$	-
		kings/Signs/Posts	Includes Striping/Sig	ans for Bicvcle Fa	acilties		3%		236,520
	Roadway Drair		Standard Internal Sy				15%	\$	1,182,601
	Illumination	0					6%		473,040
	Special Draina	ge Structures	None Anticipated				0%	\$	-
	Water	0	Minor Adjustments				5%	\$	394,200
	Sewer		Minor Adjustments				2%	\$	157,680
	Basic Landsca	ping and Irrigation					4%	\$	315,360
	Miscellaneous:						0%	\$	-
**Allo	wances based on %	6 of Paving Construction C	ost Subtotal		Allowa	ince S	Subtotal:	\$	2,759,403
				Paving an			Subtotal:	\$	10,643,411
			Constr	ruction Conti			15%	\$	1,596,512
					oilization		6%	\$	638,605
					ep ROW	-	3%	\$	319,302
				Constru	ction C	ost 1	<b>FOTAL</b> :	\$	13,198,000
Imp		ect Cost Summa							
~	Item Descripti	on	Notes:			Alle	owance		Item Cost
	struction:						-	\$	13,198,000
	ineering/Surve						20%		2,639,600
ROV	V/Easement Ac	quisition:							2,639,600
	Project Subtotal: \$							\$	18,478,000
								<b>•</b>	

Impact Fee Project Cost TOTAL (TxDOT 20%) 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 Seguin

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

\$

3.695.600

#### 2022 Roadway Impact Fee Study Update Conceptual Level Project Cost Projection

Kimley-Horn and Associates, Inc.

updated: 9/22/2022

Project Informa			Description:			Project No.		A-3
Name:	Outer Loop (2)					consists		
Limits:	SH 46 to Rudeloff F	Road				of a new	six	lane divided
Impact Fee Class:				parkwa	у.			
Ultimate Class:	PKWY							
Length (If):	3765							
Service Area(s):	A							
Roadway Const	ruction Cost Pro	ojection						
No. Item Descripti	on		Quantity	Unit	Un	nit Price		Item Cost
107 Unclassified St	reet Excavation		35,140	су	\$	15.00	\$	527,100
207 4" Type D Aspl	nalt		30,957	ton	\$	30.00	\$	928,700
	mestone Flexible Ba		34,303	sy	\$	70.00	\$	2,401,233
	zation (with Lime @ 2	27#/sy)	34,303	sy	\$	5.00	\$	171,517
507 4" Topsoil			33,467	sy	\$	4.00	\$	133,867
607 12' Shared Use			90,360	sf	\$	8.00	\$	722,880
707 Turn Lanes and	d Median Openings		3,955	sy	\$	105.00	\$	415,291
		Р	aving Const	ruction (	Cost	Subtotal:	\$	5,300,588
	Component Allow							
Item Descripti	on	Notes			All	owance		Item Cost
Traffic Control		None Anticipated				0%	\$	-
	kings/Signs/Posts	Includes Striping/Sig		acilties		3%		159,018
√ Roadway Drair	nage	Standard Internal Sy	/stem			15%		795,088
√ Illumination	•					6%		318,035
√ Special Draina	ge Structures	Bridge Crossing				0%	\$	607,000
√ Water		Minor Adjustments				5%	\$	265,029
√ Sewer		Minor Adjustments				2%	\$	106,012
	ping and Irrigation					4%	\$	212,024
Miscellaneous:	6 of Paving Construction	Cost Subtota		Allowa	ince :	0% Subtotal:	\$ \$	2,462,206
,							Ŧ	_,,
			Paving an			Subtotal:	<b>\$</b> \$	7,762,793
Construction Contingency: 15%								1,164,419
Mobilization 6%							\$	465,768
							\$	232,884 <b>9,626,000</b>
	Construction Cost TOTAL:							
	ect Cost Summa							
Item Descripti	on	Notes:				owance		Item Cost

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 9,626,000
Engineering/Survey/Testing:		20%	\$ 1,925,200
<b>ROW/Easement Acquisition:</b>		20%	\$ 1,925,200
	Proje	ct Subtotal:	\$ 13,477,000
	Impact Fee Project C	Cost TOTAL	\$ 13,477,000

**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 Seguin

## 2022 Roadway Impact Fee Study Update Conceptual Level Project Cost Projection

Kimley-Horn and Associates, Inc.

updated: 9/22/2022

Project Information:Name:Pecan Parkway (1)Limits:Rudeloff Road to CImpact Fee Class:6D_(180)Ultimate Class:PKWYLength (If):3300Service Area(s):A	o. s of w si	A-4 the x lane divided						
Roadway Construction Cost P	oiection							
No. Item Description		Quantity	Unit	Unit Price		Item Cost		
107 Unclassified Street Excavation		30,800	су	\$ 15.00	) \$	462,000		
207 4" Type D Asphalt		27,133	ton	\$ 30.00	) \$	814,000		
307 15" Crushed Limestone Flexible Ba	ase Material	30,067	sy	\$ 70.00	) \$	2,104,667		
407 6" Lime Stabilization (with Lime @	27#/sy)	30,067	sy	\$ 5.00	) \$	150,333		
507 4" Topsoil		29,333	sy	\$ 4.00	) \$	117,333		
607 12' Shared Use Path		79,200	sf	\$ 8.00		633,600		
707 Turn Lanes and Median Openings		3,467	sy	\$ 105.00	) \$	364,000		
Major Construction Component Allov		aving Constr	uction C	_		4,645,933		
Item Description	Notes			Allowance		Item Cost		
Traffic Control	None Anticipated			09		-		
√ Pavement Markings/Signs/Posts	Includes Striping/Sig		acilties		6\$	139,378		
√ Roadway Drainage	Standard Internal Sy	/stem			6\$	696,890		
√ Illumination				6%		278,756		
Special Drainage Structures	None Anticipated			0%		-		
√ Water	Minor Adjustments			5%	- T	232,297		
√ Sewer	Minor Adjustments			2%		92,919		
Basic Landscaping and Irrigation				49	· •	185,837		
Miscellaneous:			All	0% Ince Subtota	- <b>T</b>	-		
**Allowances based on % of Paving Construction	Cost Subtotal		Allowa	ince Subtota	: \$	1,626,077		
		Paving and	d Allowa	ince Subtota	: \$	6,272,010		
	Constr	uction Conti				940,802		
	Mobilization 6%							
	<mark>6</mark> \$ 6\$	376,321 188,160						
	: \$							
Impact Fee Project Cost Summ								
Item Description	Notes:			Allowance		Item Cost		
Construction:					- \$	7,778,000		

Engineering/Survey/Testing:		20%	\$ 1,555,600
ROW/Easement Acquisition:	NO ROW ACQUISITION	0%	\$ -
	Proje	ct Subtotal:	\$ 9,334,000
	Impact Fee Project C	\$ 9,334,000	

**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 Seguin

Kimley-Horn and Associates, Inc.

updated: 9/22/2022

Pro	ject Informa	tion:		Description:			Project No.		A-5			
Nam	e:	Rudeloff Road (1)			This pro	oject	consists	of t	he			
Limi	ts:	Ridge Crest Drive to	o 1,320' N of FM 78	3	reconst	ructi	on of the	exis	sting			
Impa	act Fee Class:				paveme	nt to	a four la	ne u	Individed			
	nate Class:	MAJC			major c	ollec	tor.					
	gth (lf):	3700										
Serv	ice Area(s):	A										
_												
Roadway Construction Cost Projection												
	Item Descripti			Quantity	Unit	Ur	nit Price		Item Cost			
	Unclassified St			25,489	су	\$	15.00	\$	382,333			
202	4" Type D Aspl			23,433	ton	\$	30.00	\$	703,000			
302		mestone Flexible Ba		25,078	sy	\$	70.00	\$	1,755,444			
		zation (with Lime @ 2	27#/sy)	25,078	sy	\$	5.00	\$	125,389			
502				4,522	sy	\$	4.00	\$	18,089			
	5' Concrete Sic			37,000	sf	\$	8.00	\$	296,000			
702									3,280,256			
	Paving Construction Cost Subtotal:											
		<b>O</b>										
Majo		Component Allow				1			Item Coot			
	Item Descripti	on	Notes			All	owance	۴	Item Cost			
	Traffic Control		Construction Phase				5%		164,013			
N		kings/Signs/Posts	Includes Striping/Sig	-					98,408			
$\sqrt{1}$	Roadway Drair Illumination	lage	Standard Internal Sy	stem			15% 6%	-	492,038			
Ŋ		0.							196,815			
1	Special Draina	ge Structures	None Anticipated				0%		-			
	Water		Minor Adjustments				5%		164,013			
	Sewer	aliana and herters (to	Minor Adjustments				2%		65,605			
		ping and Irrigation					4%		131,210			
** ^ 11	Miscellaneous:				Allowe		0%	\$ \$	-			
"^Allo	wances based on %	6 of Paving Construction	JOST SUDIOTAI		Allowa	ince	Subtotal:	Þ	1,312,102			
	Paving and Allowance Subtotal:											
	Construction Contingency: 15%											
	Mobilization 6%								688,854 275,541			
	Mobilization 6% Prep ROW 5%								229,618			
Construction Cost TOTAL:									5,787,000			
<b> </b>				Constitu		บอเ	IUTAL.	\$	5,767,000			
Imp	mpact Fee Project Cost Summary											
шu			ar y									

Item Description	Notes:	Allowance		Item Cost
Construction:		-	\$	5,787,000
Engineering/Survey/Testing:		20%	\$	1,157,400
<b>ROW/Easement Acquisition:</b>	Existing Alignment (1/2 ROW)	10%	\$	578,700
	Project Subtotal:			
	\$	7,524,000		

**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 Seguin

2022 Roadway Impact Fee Study Update Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

updated: 9/22/2022

Project Informa			Description:			Project No.		A-6				
lame:	Rudeloff Road (2)					consists						
.imits:	1,320' N of FM 78 t	io FM 78				on of the						
mpact Fee Class:	_, ,			-		a four la	ne u	ndivided				
Jltimate Class:	MAJC			major c	ollect	or.						
_ength (If):	1220											
Service Area(s):	A											
Roadway Const	truction Cost Pro	ojection										
No. Item Descripti		-	Quantity	Unit	Un	it Price		Item Cost				
102 Unclassified St	reet Excavation		8,404	су	\$	15.00	\$	126,067				
202 4" Type D Aspl			7,727	ton	\$	30.00	\$	231,80				
	mestone Flexible Ba	8,269	sy	\$	70.00	\$	578,82					
	zation (with Lime @ 2	27#/sy)	8,269	sy	\$	5.00	\$	41,34				
502 4" Topsoil			1,491	sy	\$	4.00	\$	5,96				
602 5' Concrete Sid	Jewalk		12,200	sf	\$	8.00	\$	97,60				
12Turn Lanes and Median Openings0sy\$105.00							\$					
		P	Paving Constr	ruction (	Cost S	Subtotal:	\$	1,081,59				
	n Component Allow				1		1					
Item Descripti	on	Notes				owance	*	Item Cost				
√ Traffic Control		Construction Phase				5%	\$	54,08				
	kings/Signs/Posts	Includes Striping/Sig		acilties		3%	\$	32,44				
✓ Roadway Drain	lage	Standard Internal Sy	/stem			15%	\$	162,24				
√ Illumination						6%	\$	64,89				
Special Draina	ge Structures	None Anticipated				0%	\$					
√ Water		Minor Adjustments				5%	\$	54,08				
√ Sewer		Minor Adjustments				2%	\$	21,63				
	ping and Irrigation					4%	\$	43,26				
Miscellaneous:						0%	\$					
Allowances based on %	6 of Paving Construction	Cost Subtotal		Allowa	nce S	Subtotal:	\$	432,63				
			Paving and	d Allowa	nce S	Subtotal:	\$	1,514,23				
Construction Contingency: 15%								227,13				
	Mobilization 6%											
	Prep ROW 5%											
				Construction Cost TOTAL:								
				ction C	ost 1	<b>FOTAL</b> :	\$	1,908,00				
				ction C	ost 1	FOTAL:	\$	1,908,00				
mpact Fee Proj	ect Cost Summ	ary Notes:		ction C		FOTAL:	\$	1,908,000				

Item Description	Notes:	Allowance		Item Cost
Construction:		-	\$	1,908,000
Engineering/Survey/Testing:		20%	\$	381,600
<b>ROW/Easement Acquisition:</b>	Existing Alignment (1/2 ROW)	10%	\$	190,800
	Project Subtotal:			
	\$	2,481,000		

**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 Seguin

#### 2022 Roadway Impact Fee Study Update Conceptual Level Project Cost Projection

Kimley-Horn and Associates, Inc.

updated: 9/22/2022

Name:RuLimits:RidImpact Fee Class:4UUltimate Class:M/Length (If):36	Limits:       Ridge Crest Drive to SH 46         Impact Fee Class:       4U_(80)         Ultimate Class:       MAJC         Length (If):       3635				Description: Project No. A-7 This project consists of the reconstruction of the existing pavement to a four lane undivided major collector.					
Service Area(s): A										
Roadway Construe	ction Cost Projection									
No. Item Description	2	Quantity	Unit	Un	it Price		Item Cost			
102 Unclassified Street	t Excavation	25,041	су	\$	15.00	\$	375,617			
202 4" Type D Asphalt		23,022	ton	\$	30.00	\$	690,650			
302 15" Crushed Limes	stone Flexible Base Material	24,637	sy	\$	70.00	\$	1,724,606			
	on (with Lime @ 27#/sy)	24,637	sy	\$	5.00	\$	123,186			
502 4" Topsoil		4,443	sy	\$	4.00	\$	17,771			
602 5' Concrete Sidew		36,350	sf	\$ \$	8.00 105.00	\$ \$	290,800			
702 Turn Lanes and M	702   Turn Lanes and Median Openings   0   sy						- 3,222,629			
	Paving Construction Cost Subtotal:									
Moior Construction Co										
Item Description	omponent Allowances**: Notes				owance		Item Cost			
$\sqrt{\frac{1}{1}}$ Traffic Control		hase Traffic Control					161,131			
<ul> <li>√ Pavement Marking</li> </ul>		ng/Signs for Bicycle Fa	cilties		3%		96,679			
1000000000000000000000000000000000000	-		londeo		15%		483,394			
1000000000000000000000000000000000000					6%		193,358			
Special Drainage S	Structures None Anticipat	ed			0%		-			
√ Water	Minor Adjustm				5%		161,131			
√ Sewer	Minor Adjustm				2%		64,453			
<ul> <li>√ Basic Landscaping</li> </ul>					4%		128,905			
Miscellaneous:	, and miganen				0%	\$				
	Paving Construction Cost Subtota		Allowa	nce S	Subtotal:	\$	1,289,052			
							-			
		Paving and	d Allowa	nce S	Subtotal:	\$	4,511,681			
	Co	onstruction Contin	ngency:		15%	\$	676,752			
			ilization		6%	\$	270,701			
			ep ROW		5%	\$ <b>\$</b>	225,584 <b>5,685,000</b>			
	Construction Cost TOTAL:									
Impact Fee Project						_				
Item Description	Notes:			Alle	owance	_	Item Cost			
Construction:					-	\$	<b>5,685,000</b> 1,137,000			
	Engineering/Survey/Testing: 20%									
ROW/Easement Acquisition: Existing Alignment (1/2 ROW) 10% S							568,500			
	\$	7,391,000								

**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 Seguin

**Impact Fee Project Cost TOTAL** 

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

\$

7.391.000

#### 2022 Roadway Impact Fee Study Update Conceptual Level Project Cost Projection

Kimley-Horn and Associates, Inc.

updated: 9/22/2022

Project Informa Name: Limits: Impact Fee Class: Ultimate Class: Length (If): Service Area(s):		A-8 the sting ndivided						
	struction Cost Pro	ojection	O	11		L Dui a a		literation of the set
No. Item Descrip			Quantity	Unit		t Price	¢	Item Cost
	Street Excavation		66,024	СУ	\$	15.00	\$	990,367
204 4" Type D Asp		NA-('-1	61,563	ton	\$	30.00	\$	1,846,900
	_imestone Flexible Bas		65,132	sy	\$	70.00	\$	4,559,256
	lization (with Lime @ 2	21#/SY)	65,132	sy	\$	5.00	\$	325,661
504 4" Topsoil			34,797	sy	\$	4.00	\$	139,187
604 5' Concrete S			80,300	sf	\$ \$	8.00	\$	642,400
704 Turn Lanes ar							\$	-
		P	Paving Constr	uction C	Cost S	ubtotal:	\$	8,503,770
		بل بل						
	on Component Allow	Notes			<b>A</b> 11a	wance		Item Cost
Item Descrip           √         Traffic Contro			Traffic Ocastas		Allu		¢	
		Construction Phase				5%		425,189
	rkings/Signs/Posts	Includes Striping/Sig		cilties		3%		255,113
<ul> <li>√ Roadway Dra</li> <li>√ Illumination</li> </ul>	inage	Standard Internal Sy	/stem			15%		1,275,566
	<b>O</b> ( )					6%		510,226
-	age Structures	None Anticipated				0%		-
√ Water		Minor Adjustments				5%		425,189
√ Sewer		Minor Adjustments				2%		170,075
	aping and Irrigation					4%		340,151
Miscellaneous	S:					0%		-
**Allowances based on	% of Paving Construction (	Cost Subtotal		Allowa	nce S	ubtotal:	\$	3,401,508
			Paving and		nco S	ubtotal	\$	11,905,278
		Const	ruction Conti			15%	₽ \$	1,785,792
		Constr		ilization		15% 6%	э \$	714,317
				ep ROW		<u> </u>		
				•			\$	595,264
			Construc	tion C	ost I	UTAL:	\$	15,001,000
Impact Fee Pro	oject Cost Summa	arv						
Item Descrip		Notes:				wance		Item Cost
Construction:		10103.			Allo	wance	\$	15,001,000
Engineering/Surve	ov/Testing:					- 20%		3,000,200
		Existing Alignment (	1/2 PO(M/)			20%		1,500,200
	\$	19,502,000						

Impact Fee Project Cost TOTAL \$ 19,502,000 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 Seguin

Kimley-Horn and Associates, Inc.

updated: 9/22/2022

Conceptual Le	Conceptual Level Project Cost Projection updated:									
<b>Project Informa</b>	ation:		Description:			Project No.		A-9		
Name: Limits: Impact Fee Class: Ultimate Class: Length (If): Service Area(s):	Rudeloff Road (5) Huber Road to 4156	b' E of Huber Road		-	ctior	consists of a new terial.				
	struction Cost Pro	ojection								
No. Item Descript			Quantity	Unit		nit Price		Item Cost		
104 Unclassified S			41,728	су	\$	15.00	\$	625,917		
204 4" Type D Asp			38,908	ton	\$	30.00	\$	1,167,250		
	imestone Flexible Bas		41,164	sy	\$	70.00	\$	2,881,472		
	ization (with Lime @ 2	27#/sy)	41,164	sy	\$	5.00	\$	205,819		
504 4" Topsoil			21,992	sy	\$	4.00	\$	87,967		
604 5' Concrete S			50,750	sf	\$	8.00	\$ \$	406,000		
704 Turn Lanes ar	04       Turn Lanes and Median Openings       0       sy       \$ 105.00         Paving Construction Cost Subtotal:							5,374,425		
Item Descrip           Traffic Contro           √           Pavement Ma           √           Roadway Dra	l rkings/Signs/Posts	Notes None Anticipated Includes Striping/Sig Standard Internal Sy		acilties	All	owance 0% 3% 15%	\$	Item Cost 161,233 806,164		
√ Illumination						6%		322,466		
	age Structures	None Anticipated				0%		-		
√ Water		Minor Adjustments				5%	Ŧ	268,721		
√ Sewer		Minor Adjustments				2%	\$	107,489		
	aping and Irrigation					4%	\$	214,977		
Miscellaneous **Allowances based on	S: % of Paving Construction C	Cost Subtotal		Allowa	nce	0% Subtotal:	\$ \$	1,881,049		
			Paving an	d Allowa	nce	Subtotal:	\$	7,255,474		
	Construction Contingency: 15%									
	\$	435,328								
	\$	217,664								
	\$	8,997,000								
Impact Fee Pro										
	Item Description Notes: Allowance									
Construction:						-	\$	Item Cost 8,997,000		

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 8,997,000
Engineering/Survey/Testing:		20%	\$ 1,799,400
ROW/Easement Acquisition:		20%	\$ 1,799,400
	\$ 12,596,000		
	Impact Fee Project C	Cost TOTAL	\$ 12,596,000

**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 Seguin

2022 Roadway Impact Fee Study Update Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

updated: 9/22/2022

Project Informa Name:	tion: Rudeloff Road (6)		Description:	This pro		Project No.		A-10			
Limits:	6126' E of Huber R	oad to SH 123	This project consists of the construction of a new five lane								
Impact Fee Class:				undivid							
Ultimate Class:	ARTE										
Length (If):	1450										
Service Area(s):	A										
Roadway Const		ojection									
No. Item Descripti			Quantity 11,922	Unit		it Price		Item Cost			
	4 Unclassified Street Excavation			су	\$	15.00	\$	178,833			
204 4" Type D Aspł			11,117	ton	\$	30.00	\$	333,500			
	mestone Flexible Ba		11,761	sy	\$	70.00	\$	823,278			
	zation (with Lime @ 2	27#/sy)	11,761	sy	\$	5.00	\$	58,806			
504 4" Topsoil	Laa. II		6,283	sy	\$	4.00	\$	25,133			
604 5' Concrete Sic			14,500	sf	\$ \$	8.00	\$ \$	116,000			
704 Turn Lanes and								1,535,550			
	Paving Construction Cost Subtotal:										
Major Constructior	Component Allow	ances**·									
Item Descripti		Notes			All	owance		Item Cost			
Traffic Control	-	None Anticipated				0%	\$	-			
√ Pavement Mar	kings/Signs/Posts	Includes Striping/Sig	ons for Bicycle Fa	cilties		3%		46,067			
√ Roadway Drair		Standard Internal S				15%	\$	230,333			
√ Illumination	-					6%	\$	92,133			
Special Draina	ge Structures	None Anticipated				0%	\$	-			
√ Water		Minor Adjustments				5%	\$	76,778			
√ Sewer		Minor Adjustments				2%		30,711			
√ Basic Landsca	ping and Irrigation					4%		61,422			
Miscellaneous:						0%	Ŧ	-			
		Allowa	nce	Subtotal:	\$	537,443					
**Allowances based on %	e er i armig e enten aenen										
**Allowances based on %											
**Allowances based on %			Paving and				\$	2,072,993			
**Allowances based on %			ruction Contin	ngency:		15%	\$	310,949			
**Allowances based on %			ruction Contin Mobi	ngency: ilization		15% 6%	\$ \$	310,949 124,380			
**Allowances based on %			ruction Contin Mobi	ngency: ilization ep ROW		15% 6% 3%	\$ \$	<b>2,072,993</b> 310,949 124,380 62,190 <b>2,571,000</b>			

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 2,571,000
Engineering/Survey/Testing:		20%	\$ 514,200
<b>ROW/Easement Acquisition:</b>		20%	\$ 514,200
	\$ 3,600,000		
	Impact Fee Project C	Cost TOTAL	\$ 3,600,000

**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 Seguin

#### 2022 Roadway Impact Fee Study Update Conceptual Level Project Cost Projection

Kimley-Horn and Associates, Inc.

updated: 9/22/2022

Project Informa			Description:			Project No.		A-11
Name:	Strempel Road (1)			This pro	oject	consists	of tl	ne
_imits:	Rudeloff Road to S	H 123		constru	ction	of a new	fou	ır lane divide
mpact Fee Class:	4D_(90)			arterial.				
Ultimate Class:	ARTE							
Length (If):	4445							
Service Area(s):	A							
Roadway Const	truction Cost Pre	ojection						
No. Item Descripti		-	Quantity	Unit	Un	it Price		Item Cost
105 Unclassified St	reet Excavation		32,597	су	\$	15.00	\$	488,95
205 4" Type D Aspl	halt		27,658	ton	\$	30.00	\$	829,73
305 15" Crushed Li	mestone Flexible Ba	se Material	31,609	sy	\$	70.00	\$	2,212,62
105 6" Lime Stabiliz	zation (with Lime @ 1	27#/sy)	31,609	sy	\$	5.00	\$	158,04
505 4" Topsoil			9,878	sy	\$	4.00	\$	39,51
605 5' Concrete Sid	dewalk		44,450	sf	\$	8.00	\$	355,60
705 Turn Lanes and	d Median Openings		3,294	sy	\$	105.00	\$	345,91
		F	Paving Constr	uction (	Cost S	Subtotal:	\$	4,430,38
Major Construction	n Component Allow	ances**:					_	
Item Descripti	on	Notes			All	owance		Item Cost
Traffic Control		None Anticipated				0%	\$	
	kings/Signs/Posts	Includes Striping/Si	gns for Bicycle Fa	acilties		3%		132,91
√ Roadway Drair	nage	Standard Internal S	ystem			15%		664,55
√ Illumination						6%	\$	265,82
Special Draina	ge Structures	None Anticipated				0%	\$	
√ Water		Minor Adjustments				5%	\$	221,51
√ Sewer		Minor Adjustments				2%	\$	88,60
√ Basic Landsca	ping and Irrigation					4%	\$	177,21
Miscellaneous:						0%	\$	
*Allowances based on %	6 of Paving Construction	Cost Subtotal		Allowa	ince \$	Subtotal:	\$	1,550,63
			Paving and			Subtotal:	\$	5,981,01
		Const	ruction Conti			15%	\$	897,15
			Mob	ilization		6%	\$	358,86
			Pre	ep ROW		3%	\$	179,43
			Construc	ction C	ost <sup>-</sup>	<b>FOTAL</b> :	\$	7,417,000
mpact Fee Pro	ect Cost Summ	ary						
Item Descripti	on	Notes:			All	owance		Item Cost
Construction:						-	\$	7,417,00
Engineering/Surve	y/Testing:					20%	\$	1,483,40

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 Seguin

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

\$ 10,384,000 \$ 10,384,000

Project Subtotal:

Impact Fee Project Cost TOTAL

2022 Roadway Impact Fee Study Update Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

updated: 9/22/2022

Project Information:Description:Project No.Name:Huber Road (1)This project consistsLimits:IH 10 to Rudeloff Roadreconstruction of theImpact Fee Class:4D_(90)pavement to a four larUltimate Class:ARTELength (If):6855Service Area(s):A						exis	sting	
Roadway Const	truction Cost Pro	ection						
No. Item Descripti			Quantity	Unit	Un	it Price		Item Cost
105 Unclassified St	reet Excavation		50,270	су	\$	15.00	\$	754,050
205 4" Type D Asp	halt		42,653	ton	\$	30.00	\$	1,279,600
	mestone Flexible Bas		48,747	sy	\$	70.00	\$	3,412,267
405 6" Lime Stabiliz	zation (with Lime @ 2	:7#/sy)	48,747	sy	\$	5.00	\$	243,733
505 4" Topsoil			15,233	sy	\$	4.00	\$	60,933
605 5' Concrete Sid			68,550	sf	\$	8.00	\$	548,400
705 Turn Lanes and	d Median Openings		5,081	sy	\$	105.00	\$	533,470
		P	aving Constr	uction C	Cost S	Subtotal:	\$	6,832,453
	n Component Allowa				-			
Item Descripti	on	Notes			Allo	owance		Item Cost
$\sqrt{1}$ Traffic Control		Construction Phase	Traffic Control			5%	\$	341,623
	kings/Signs/Posts	Includes Striping/Sig	ins for Bicycle Fa	cilties		3%	\$	204,974
Roadway Drair	nage	Standard Internal Sy	vstem			15%		1,024,868
√ Illumination						6%	\$	409,947
Special Draina	ge Structures	None Anticipated				0%	Ŧ	-
√ Water		Minor Adjustments				5%	\$	341,623
√ Sewer		Minor Adjustments				2%	\$	136,649
	ping and Irrigation					4%	\$	273,298
Miscellaneous:						0%	\$	-
**Allowances based on %	6 of Paving Construction C	Cost Subtotal		Allowa	nce S	Subtotal:	\$	2,732,981
			Paving and		nce S	Subtotal	\$	9,565,434
		Constr	uction Conti			15%	\$	1,434,815
		001130		ilization		6%	\$	573,926
				ep ROW		5%	\$	478,272
			Construc	•			\$	12,053,000
			Jonstia				Ψ	12,000,000
	ect Cost Summa							
Item Descripti	on	Notes:			Allo	owance		Item Cost
Construction:						-	\$	12,053,000
Engineering/Surve	y/Testing:					20%	\$	2,410,600

Project Subtotal: \$ 15,669,000 Impact Fee Project Cost TOTAL \$ 15,669,000

**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 Seguin

Existing Alignment (1/2 ROW)

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

**ROW/Easement Acquisition:** 

10% \$

1,205,300

2022 Roadway Impact Fee Study Update Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

updated: 9/22/2022

Project Informa	tion:		Description:		P	roject No.		A-13	
Name:	Future Collector I			This pro	oject c	onsists	of t	he	
imits:	SH 46 to 775' E of 0	Coral Way		constru	ction of	of a new	thr	ee lane	
mpact Fee Class:	3U_(60)			undivid	ed col	lector.			
Jltimate Class:	COL								
Length (If):	4345								
Service Area(s):	A								
Poodwoy Cons	truction Cost Pro	Diagtion							
No. Item Descripti		Jection	Quantity	Unit	Unit	Price		Item Cost	
	reet Excavation		19,311	су	\$	15.00	\$	289,66	
201 3" Type D Aspl			16,897	ton	\$	22.50	\$	380,188	
	mestone Flexible Ba	se Material	18,828	sy	\$	56.00	\$	1,054,38	
101 6" Lime Stabiliz	zation (with Lime @ 2	27#/sy)	18,828	sý	\$	5.00	\$	94,142	
501 4" Topsoil	,		3,862	sý	\$	4.00	\$	15,449	
601 5' Concrete Sid	dewalk + 10' Shared	Use Path	65,175	sf	\$	8.00	\$	521,40	
701 Turn Lanes and	d Median Openings		0	sy	\$	83.50	\$		
	Paving Construction Cost Subtotal:								
Major Constructior	n Component Allow	ances**:							
Item Descripti	on	Notes			Allo	wance		Item Cost	
Traffic Control		None Anticipated				0%			
	kings/Signs/Posts	Includes Striping/Sig	gns for Bicycle Fa	cilties		3%	-	70,65	
√ Roadway Drair	nage	Standard Internal Sy	ystem			15%		353,28	
1000000000000000000000000000000000000						6%		141,31	
Special Draina	ge Structures	None Anticipated				0%			
√ Water		Minor Adjustments				5%		117,762	
√ Sewer		Minor Adjustments				2%		47,108	
√ Basic Landsca	ping and Irrigation					4%	\$	94,209	
Miscellaneous:						0%	Ŧ		
*Allowances based on %	6 of Paving Construction	Cost Subtotal		Allowa	ince S	ubtotal:	\$	824,33 <sup>,</sup>	
			Paving and			ubtotal:	\$	3,179,56	
		Constr	ruction Conti	ngency:		15%	\$	476,934	
				ilization		6%	\$	190,77	
				ep ROW		3%	\$	95,38 <sup>-</sup>	
			Construc	ction C	ost T	OTAL:	\$	3,943,000	
mpact Fee Pro	ject Cost Summa	arv							
Item Descripti		Notes:			Allo	wance		Item Cost	
Construction:	-					-	\$	3,943,00	
	· · / <b>T</b> · · · · · · · ·					000/		700,000	

Engineering/Survey/Testing:		20%	\$	788,600	
ROW/Easement Acquisition:		20%	\$	788,600	
	Projec	Project Subtotal:			
	Impact Fee Project C	ost TOTAL	\$	5,521,000	

**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 Seguin

Kimley-Horn and Associates, Inc.

updated: 9/22/2022

•••			. ejeenen				upuutou.		0,22,2021	
Pro	ject Informati	on:		Description:			Project No.		A-14	
Nam	ne: F	Pecan Parkway (2)			This pro	s project consists of the				
Limi		Cordova Road to 1,	750' N of Cordova	a Road						
Impa	act Fee Class: [	3U_(60)							undivided	
Ultin	nate Class: 🤇	COL		collector.						
Leng	gth (lf): 1	750								
Serv	vice Area(s):	A								
Roa	adway Constru	uction Cost Pro	ojection							
No.	Item Description	n	-	Quantity	Unit	Un	it Price		Item Cost	
101	Unclassified Stre	et Excavation		7,778	су	\$	15.00	\$	116,667	
201	3" Type D Aspha	lt	6,806	ton	\$	22.50	\$	153,125		
301	12" Crushed Lim	estone Flexible Ba	se Material	7,583	sy	\$	56.00	\$	424,667	
401	6" Lime Stabiliza	tion (with Lime @ 2	27#/sy)	7,583	sy	\$	5.00	\$	37,917	
501	4" Topsoil			1,556	sy	\$	4.00	\$	6,222	
601	5' Concrete Side	walk + 10' Shared	Use Path	26,250	sf	\$	8.00	\$	210,000	
701	Turn Lanes and	Median Openings		0	sy	\$	83.50	\$	-	
			I	Paving Const	ruction (	Cost S	Subtotal:	\$	948,597	
Majo		Component Allow								
,	Item Description	n	Notes			Allo	owance		Item Cost	
V	Traffic Control		Construction Phase				5%		47,430	
	Pavement Marki	• •	Includes Striping/S	<b>o</b> ,	acilties		3%		28,458	
V	Roadway Draina	ge	Standard Internal S	System			15%		142,290	
$\checkmark$	Illumination						6%		56,916	
	Special Drainage	Structures	None Anticipated				0%	\$	-	
	Water		Minor Adjustments				5%	\$	47,430	
1	Sowor					1	20/	¢	10 070	

Sewer 2% \$ 18,972  $\sqrt{}$ Minor Adjustments Basic Landscaping and Irrigation \$ 37,944 1% Miscellaneous: 0% \$ Allowance Subtotal: 379,439 \*\*Allowances based on % of Paving Construction Cost Subtota \$ Paving and Allowance Subtotal: 1,328,036 \$ **Construction Contingency:** \$ 199,205 15% Mobilization \$ 79,682 6% Prep ROW 5% \$ 66,402 **Construction Cost TOTAL:** \$ 1,674,000

Impact Fee Project Cost Sun	nmary		
Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 1,674,000
Engineering/Survey/Testing:		20%	\$ 334,800
<b>ROW/Easement Acquisition:</b>	Existing Alignment (1/2 ROW)	10%	\$ 167,400
	\$ 2,177,000		
	\$ 2,177,000		

**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 Seguin

2022 Roadway Impact Fee Study Update Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

updated: 9/22/2022

<b>Project Informa</b>	tion:		Description:		Pro	oject No.		A-15	
Name:	Huber Road (2)			This project consists of the					
Limits:	Rudeloff Road to Cit	y Limits		constru	ction o	f a new	thr	ee lane	
Impact Fee Class:	3U_(60)			undivid	ed colle	ector.			
Ultimate Class:	COL								
Length (If):	3905								
Service Area(s):	A								
Roadway Const	truction Cost Pro	jection							
No. Item Descripti			Quantity	Unit	Unit	Price		Item Cost	
101 Unclassified St	reet Excavation		17,356	су	\$	15.00	\$	260,333	
201 3" Type D Aspl	halt		15,186	ton	\$	22.50	\$	341,688	
	mestone Flexible Bas		16,922	sy	\$	56.00	\$	947,613	
	zation (with Lime @ 2	7#/sy)	16,922	sy	\$	5.00	\$	84,608	
501 4" Topsoil			3,471	sy	\$	4.00	\$	13,884	
	dewalk + 10' Shared L	Jse Path	58,575	sf	\$	8.00	\$	468,600	
701 Turn Lanes and	d Median Openings		0	sy	\$	83.50	\$	2,116,727	
	Paving Construction Cost Subtotal:								
	n Component Allowa	1							
Item Descripti	on	Notes			Allov	vance		Item Cost	
Traffic Control		None Anticipated				0%	Ŧ	-	
	kings/Signs/Posts	Includes Striping/Sig		cilties		3%		63,502	
√ Roadway Drair	nage	Standard Internal Sy	ystem			15%		317,509	
√ Illumination						6%		127,004	
Special Draina	ge Structures	None Anticipated				0%			
√ Water		Minor Adjustments				5%		105,836	
√ Sewer		Minor Adjustments				2%		42,335	
	ping and Irrigation					4%	Ŧ	84,669	
Miscellaneous:						0%	Ŧ	-	
**Allowances based on %	6 of Paving Construction C	ost Subtotal		Allowa	ince Su	ibtotal:	\$	740,854	
			Paving and			btotal:	\$	2,857,581	
		Consti	ruction Conti	ngency:		15%	\$	428,637	
				ilization		6%	\$	171,455	
				ep ROW		3%		85,727	
			Construc	ction C	ost TC	DTAL:	\$	3,544,000	
Impact Fee Proj	ect Cost Summa	ry							
Item Descripti	on	Notes:			Allov	vance		Item Cost	
Construction:						-	\$	3,544,000	

· · · · · · · · · · · · · · · · · · ·	Projec	t Subtotal:	\$	4,962,000
Engineering/Survey/Testing: ROW/Easement Acguisition:		20% 20%	Ŧ	708,800 708,800

**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 Seguin

Kimley-Horn and Associates, Inc.

Cor	nceptual Lev	el Project Cost l	Projection				updated:		9/22/2022		
Pro	ject Informa	tion:		Description:			Project No.		A-16		
Nam	ie:	Austin Street / BUS					consists				
Limi		IH 10 Frontage Roa	id to SH 123 Bypas	SS			on of the		· · · · · · · · · · · · · · · · · · ·		
-	act Fee Class: nate Class:	4D_(90) ARTE			paveme	nt to	a four la	ne d	livided arterial.		
	gth (lf):	6780									
	vice Area(s):	A									
Roa	adway Const	ruction Cost Pro	pjection								
	Item Descripti			Quantity	Unit	Un	nit Price		Item Cost		
105	Unclassified St	reet Excavation		49,720	су	\$	15.00	\$	745,800		
	4" Type D Aspł		42,187	ton	\$	30.00	\$	1,265,600			
305	15" Crushed Li	se Material	48,213	sy	\$	70.00	\$	3,374,933			
	6" Lime Stabiliz	27#/sy)	48,213	sy	\$	5.00	\$	241,067			
	4" Topsoil	15,067	sy	\$	4.00	\$	60,267				
	5' Concrete Sic			67,800	sf	\$	8.00	\$	542,400		
705	Turn Lanes and	d Median Openings		5,025	sy	\$	105.00	\$	527,633		
			Р	aving Const	ruction C	Cost	Subtotal:	\$	6,757,700		
Maio	or Construction	Component Allow	20005**1								
waje	Item Descripti		Notes				owance		Item Cost		
	Traffic Control	•	Construction Phase	Traffic Control			5%	\$	337,885		
	Pavement Marl	kings/Signs/Posts	Includes Striping/Sig		acilties		3%		202,731		
$\checkmark$	Roadway Drair	0 0	Standard Internal Sy				15%		1,013,655		
$\checkmark$	Illumination	C C					6%	\$	405,462		
	Special Draina	ge Structures	None Anticipated				0%	\$	-		
$\checkmark$	Water		Minor Adjustments				5%	\$	337,885		
$\checkmark$	Sewer		Minor Adjustments				2%	\$	135,154		
$\checkmark$		oing and Irrigation					4%		270,308		
	Miscellaneous:						0%		-		
**Allo	wances based on %	of Paving Construction	Cost Subtotal		Allowa	ince	Subtotal:	\$	2,703,080		

<b>B</b> 1 1 411		•	0 400 770
Paving and Allowa	nce Subtotal:	\$	9,460,779
Construction Contingency:	15%	\$	1,419,117
Mobilization	6%	\$	567,647
Prep ROW	5%	\$	473,039
Construction Co	ost TOTAL:	\$	11,921,000

Impact Fee Project Cost Su							
Item Description	Notes:	Allowance		Item Cost			
Construction:		-	\$	11,921,000			
Engineering/Survey/Testing:		20%	\$	2,384,200			
<b>ROW/Easement Acquisition:</b>	NO ROW ACQUISITION	0%	\$	-			
	Project Subtotal:						
	xDOT 20%)	\$	2,861,200				

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 Seguin

2022 Roadway Impact Fee Study Update Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

updated: 9/22/2022

Project Information:Description:Project No.Name:Link RoadThis project consistsLimits:SH 123 to City Limitsreconstruction of theImpact Fee Class:4U_(80)pavement to a four larUltimate Class:MAJCmajor collector.Length (If):3840Service Area(s):Service Area(s):AUnitRoadway Construction Cost ProjectionNo.Item DescriptionQuantityUnitUnitUnit						exi	sting	
		ojection	Quantitu	1.1	L Inci			Ham Coat
			Quantity				¢	Item Cost
102 Unclassified S			26,453	Cy	\$	15.00	\$ ¢	396,800
202 4" Type D Asp		. Material	24,320	ton	\$	30.00	\$	729,600
302 15" Crushed L	26,027	sy	\$	70.00	\$	1,821,867		
	zation (with Lime @ 2	<i>1</i> #/SY)	26,027	sy	\$ \$	5.00	\$	130,133
502 4" Topsoil	4,693 sy					4.00	\$	18,773
602 5' Concrete Si			38,400	sf	\$	8.00	\$	307,200
702 Turn Lanes an	d Median Openings		0	sy	\$	105.00	\$	-
		Р	aving Constr	uction C	ost S	ubtotal:	\$	3,404,373
Major Construction	n Component Allow							
Item Descript	n Component Allowa	Notes				wance		Item Cost
√ Traffic Control		Construction Phase	Troffic Control			5%	¢	170,219
	rkings/Signs/Posts			ailtian		3%		102,131
✓ Roadway Drai		Includes Striping/Sig Standard Internal Sy		Cillies		15%		510,656
√ Illumination	naye	Standard Internal Sy	stem			6%		204,262
	an Structuren					0%		204,202
Special Draina	ige Structures	None Anticipated					-	470.040
√ Water		Minor Adjustments				5%		170,219
√ Sewer		Minor Adjustments				2%	\$	68,087
	ping and Irrigation					4%		136,175
Miscellaneous						0%		-
**Allowances based on 9	% of Paving Construction C	Cost Subtotal		Allowa	nce S	ubtotal:	\$	1,361,749
			Paving and		nce S	ubtotal	\$	4,766,123
		Constr	uction Conti			15%	\$	714,918
		001100		ilization		6%	\$	285,967
				ep ROW		5%		238,306
			Construc	•			\$	6,006,000
L							Ψ	0,000,000
	ject Cost Summa							
Item Descript	ion	Notes:			Allo	wance	<i></i>	Item Cost
Construction:						-	\$	6,006,000
Engineering/Surve						20%		1,201,200
<b>ROW/Easement Ac</b>	equisition:	Existing Alignment (	1/2 ROW)			10%	\$	600,600
				Proje	ct Su	btotal:	\$	7,808,000

**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 Seguin

Impact Fee Project Cost TOTAL

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

\$

7.808.000

2022 Roadway Impact Fee Study Update Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

updated: 9/22/2022

Project Informa			Description:			Project No.		B-1		
lame:	FM 20 (1)					consists				
.imits:	SH 123 to 1067' E	of SH 123				on of the				
mpact Fee Class:	_, ,						ne u	ndivided		
JItimate Class:	MAJC			major c	ollect	or.				
Length (If):	2175									
Service Area(s):	В									
	truction Cost Pr	ojection								
No. Item Descript			Quantity	Unit		it Price		Item Cost		
02 Unclassified St			14,983	су	\$	15.00	\$	224,750		
202 4" Type D Asp		13,775	ton	\$	30.00	\$	413,250			
	mestone Flexible Ba	14,742	sy	\$	70.00	\$	1,031,91			
	zation (with Lime @ 2	21#/sy)	14,742	sy	\$	5.00	\$	73,708		
502 4" Topsoil 502 5' Concrete Sig			2,658	sy	\$	4.00	\$	10,63		
			21,750	sf	\$ \$	8.00	\$ \$	174,000		
TUZ TUM Lanes an	d Median Openings		0 Paving Const	sy		105.00		1,928,258		
Major Construction	n Component Allow	ances**: Notes				owance		Item Cost		
✓ Traffic Control		Construction Phase	Traffic Control			5%	\$	96,413		
	kings/Signs/Posts	Includes Striping/Sig		acilties		3%		57,848		
√ Roadway Drain	5 5	Standard Internal Sy					-	289,239		
√ Illumination						6%		115,69		
Special Draina	ge Structures	None Anticipated				0%				
√ Water	•	Minor Adjustments				5%	\$	96,413		
√ Sewer		Minor Adjustments				2%	\$	38,56		
√ Basic Landsca	ping and Irrigation					4%	\$	77,130		
Miscellaneous						0%	\$			
	6 of Paving Construction	Cost Subtotal		Allowa	ince S	Subtotal:	\$	771,303		
*Allowances based on %			Paving an			Subtotal:	\$	2,699,562		
*Allowances based on %										
*Allowances based on %		Constr	uction Conti			15%	\$			
*Allowances based on %		Constr	uction Conti Mob	oilization		6%	\$	161,97		
*Allowances based on %		Constr	uction Conti Mob	oilization ep ROW		6% 5%		404,934 161,974 134,978 <b>3,402,000</b>		

Impact Fee Project Cost St Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 3,402,000
Engineering/Survey/Testing:		20%	\$ 680,400
<b>ROW/Easement Acquisition:</b>	NO ROW ACQUISITION	0%	\$ -
	Proje	ct Subtotal:	\$ 4,083,000
	\$ 816,600		

**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 Seguin

2022 Roadway Impact Fee Study Update Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

updated: 9/22/2022

Project Informa	tion:		Description:		F	Project No.		B-2
Name:	FM 20 (2)			This pro	oject o	onsists	of t	he
Limits:	1067' E of SH 123 to	City Limits		reconst	ructio	n of the	exis	sting
Impact Fee Class:	_ ,			paveme	nt to	a f <mark>our</mark> lai	ne u	Individed
Ultimate Class:	MAJC			major c	ollect	or.		
Length (If):	6210							
Service Area(s):	В							
Roadway Const	ruction Cost Pro	iection						
No. Item Descripti		jeotion	Quantity	Unit	Uni	it Price		Item Cost
102 Unclassified St			42,780	су	\$	15.00	\$	641,70
202 4" Type D Aspl	nalt		39,330	ton	\$	30.00	\$	1,179,90
302 15" Crushed Li	42,090	sy	\$	70.00	\$	2,946,30		
102 6" Lime Stabiliz	zation (with Lime @ 2	42,090	sy	\$	5.00	\$	210,45	
502 4" Topsoil			7,590	sy	\$	4.00	\$	30,36
502 5' Concrete Sid			62,100	sf	\$	8.00	\$	496,80
702 Turn Lanes and	d Median Openings		0	sy	\$	105.00	\$	
		Р	aving Constr	ruction C	Cost S	ubtotal:	\$	5,505,51
Major Construction	Component Allowa	nces**•						
Item Descripti	-	Notes			Allo	wance		Item Cost
√ Traffic Control		Construction Phase	Traffic Control			5%	\$	275,27
√ Pavement Mar	kings/Signs/Posts	Includes Striping/Sig	ns for Bicycle Fa	cilties		3%	\$	165,16
√ Roadway Drair	nage	Standard Internal Sy				15%	\$	825,82
√ Illumination	-					6%	\$	330,33
Special Draina	ge Structures	None Anticipated				0%	\$	
√ Water	•	Minor Adjustments				5%	\$	275,27
√ Sewer		Minor Adjustments				2%		110,110
√ Basic Landsca	ping and Irrigation					4%	\$	220,220
Miscellaneous:						0%	\$	
*Allowances based on %	6 of Paving Construction C	ost Subtotal		Allowa	ince S	Subtotal:	\$	2,202,20
			Paving and		nce S	ubtotal:	\$	7,707,71
		Constr	uction Conti			15%	<b>₽</b> \$	1,156,15
		001150		ilization		6%	\$	462,46
				ep ROW		5%		385,38
			Construc	•			\$	9,712,000
								· ·
Impact Fee Proj Item Descripti	ect Cost Summa	Notes:			٨	wance		Item Cost
Construction:		140165.			AIIC	wance	¢	
Sonstruction:						-	\$	9,712,00

 Engineering/Survey/Testing:
 NO ROW ACQUISITION
 20%
 \$ 1,942,400

 ROW/Easement Acquisition:
 NO ROW ACQUISITION
 \$ 11,655,000

 Project Subtotal:
 \$ 11,655,000

 Impact Fee Project Cost TOTAL (TxDOT 20%)
 \$ 2,331,000

**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 Seguin

2022 Roadway Impact Fee Study Update **Conceptual Level Project Cost Projection**  Kimley-Horn and Associates, Inc.

updated: 9/22/2022

Project Information:Description:PrName:SH 123 BypassThis project coLimits:SH 123 to IH 10reconstructionImpact Fee Class:6D_(180)pavement to aUltimate Class:PKWYparkway.Length (If):8700Service Area(s):B						on of the	exis	sting	
Roadwa	v Const	truction Cost Pro	iection						
No. Item				Quantity	Unit	Un	it Price		Item Cost
107 Uncla	ssified St	reet Excavation		81,200	су	\$	15.00	\$	1,218,000
207 4" Ty				71,533	ton	\$	30.00	\$	2,146,000
		mestone Flexible Bas	e Material	79,267	sy	\$	70.00	\$	5,548,667
	ne Stabiliz	79,267	sy	\$	5.00	\$	396,333		
507 4" To		<b>`</b>	• •	77,333	sy	\$	4.00	\$	309,333
	hared Use	208,800	sf	\$	8.00	\$	1,670,400		
707 Turn	Lanes and		9,139	sy	\$	105.00	\$	959,636	
	Paving Construction Cost Subtotal: \$ 12,248,370								
				-					
Major Con	structior	n Component Allowa	nces**:						
ltem	Descripti	ion	Notes			Allo	owance		Item Cost
√ Traffi	c Control		Construction Phase	Traffic Control			5%	\$	612,418
√ Pave	ment Mar	kings/Signs/Posts	Includes Striping/Sig	ins for Bicycle Fa	cilties		3%	\$	367,451
√ Road	way Drair	nage	Standard Internal Sy	vstem			15%	\$	1,837,255
√ Illumi	nation	-					6%	\$	734,902
Speci	ial Draina	ge Structures	None Anticipated				0%	\$	-
√ Wate		•	Minor Adjustments				5%	\$	612,418
√ Sewe			Minor Adjustments				2%		244,967
		ping and Irrigation	,				4%		489,935
	llaneous:						0%		-
**Allowances	based on %	6 of Paving Construction C	ost Subtotal		Allowa	nce S	Subtotal:	\$	4,899,348
		-							
				Paving and	d Allowa	nce S	Subtotal:	\$	17,147,718
			Constr	uction Conti			15%	\$	2,572,158
					ilization		6%	\$	1,028,863
				Pro	ep ROW		5%		857,386
				Construc	ction C	ost 1	OTAL:	\$	21,607,000
L								Ŧ	,,
Impact F	ee Pro	ect Cost Summa	ry						
	Descripti		Notes:			Allo	owance		Item Cost
Construct							-	\$	21,607,000
Engineeri		v/Testing:					20%	-	4,321,400
ROW/Ease			NO ROW ACQUISIT	TION			0%	\$	-,,
								т	

**Project Subtotal:** \$ 25,929 Impact Fee Project Cost TOTAL (TxDOT 20%) \$ 5.185.800

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 Seguin

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

2022 Roadway Impact Fee Study Update Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

updated: 9/22/2022

Project Informa			Description:			Project No.		B-4
Name:	Strempel Road (2)			This pro	oject	consists	of t	he
Limits:	SH 123 to SH 123 E	Bypass		reconst	ructio	on of the	exis	sting
Impact Fee Class:	,			paveme	ent to	a four la	ne d	ivided arteria
Ultimate Class:	ARTE							
Length (If):	2465							
Service Area(s):	В							
-	truction Cost Pro	ojection						
No. Item Descripti	ion		Quantity	Unit	Un	it Price		Item Cost
105 Unclassified St	reet Excavation		18,077	су	\$	15.00	\$	271,150
205 4" Type D Aspl			15,338	ton	\$	30.00	\$	460,133
	mestone Flexible Ba	17,529	sy	\$	70.00	\$	1,227,022	
	zation (with Lime @ 2	17,529	sy	\$	5.00	\$	87,644	
505 4" Topsoil			5,478	sy	\$	4.00	\$	21,911
605 5' Concrete Sid			24,650	sf	\$	8.00	\$	197,200
705 Turn Lanes and	d Median Openings		1,827	sy	\$	105.00	\$	191,831
		r	Paving Constr	uction (	JOST	Subtotal:	Þ	2,456,892
	n Component Allow				1			
Item Descripti	on	Notes	<b>T</b> (1) <b>O</b> (1)		All	owance	¢	Item Cost
Traffic Control $$ Pavement Mar	kingo/Signo/Dooto	Construction Phase		- 1141		5% 3%	Ŧ	122,845 73,707
<ul> <li>✓ Pavement Mar</li> <li>✓ Roadway Drair</li> </ul>	kings/Signs/Posts	Includes Striping/Si	• •	aclities		3% 15%		368,534
√ Illumination	lage	Standard Internal S	ystem			6%		147,414
Special Draina	ao Structuros	None Anticipated				0 <i>%</i>		147,41-
√ Water	ge Structures	None Anticipated				0 % 5%		122,845
√ Sewer		Minor Adjustments Minor Adjustments				5% 2%		49,138
	ping and Irrigation	winor Adjustments				2 % 4%	ֆ \$	98,276
Miscellaneous:						4 % 0%	\$	50,270
	6 of Paving Construction (	Cost Subtotal		Allowa	ince \$	Subtotal:	\$	982,757
			Paving and		nce (	Subtotal	\$	3,439,649
		Const	ruction Conti			15%	₽ \$	515,947
		001130		ilization		6%	\$	206,379
				ep ROW		5%	\$	171,982
			Construc	•			\$	4,334,000
Impact Eee Proj	ect Cost Summa	arv						
Item Descripti		Notes:			All	owance		Item Cost
Construction:							¢	1 334 000

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 4,334,000
Engineering/Survey/Testing:		20%	\$ 866,800
<b>ROW/Easement Acquisition:</b>	Existing Alignment (1/2 ROW)	10%	\$ 433,400
	\$ 5,635,000		
	\$ <b>5,635,000</b>		

**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 Seguin

Kimley-Horn and Associates, Inc.

updated:

9/22/2022

							upuutou.		0/22/2021
Pro	ject Informa			Description:			Project No.		B-5
Nam	ie:	Strempel Road (3)			This pro	oject	consists	of t	he
Limi		SH 123 Bypass to 8	325' E of SH 123 B	ypass	reconst	ructi	on of the	exis	sting
-	act Fee Class:	,			paveme	ent to	a four la	ne u	Individed
	nate Class:	MAJC			major c	ollec	tor.		
	gth (lf):	820							
Serv	vice Area(s):	В							
		ruction Cost Pre	ojection						
No.	Item Descripti	on		Quantity	Unit	Ur	nit Price		Item Cost
	Unclassified St			5,649	су	\$	15.00	\$	84,733
	4" Type D Aspl			5,193	ton	\$	30.00	\$	155,800
		mestone Flexible Ba		5,558	sy	\$	70.00	\$	389,044
		zation (with Lime @ 2	5,558	sy	\$	5.00	\$	27,789	
	4" Topsoil	1,002	sy	\$	4.00	\$	4,009		
	5' Concrete Sic	8,200	sf	\$	8.00	\$	65,600		
702								\$	-
			P	Paving Const	ruction (	Cost	Subtotal:	\$	726,976
Majo		Component Allow						1	
-	Item Descripti	on	Notes			All	owance		Item Cost
N	Traffic Control		Construction Phase				5%		36,349
		kings/Signs/Posts	Includes Striping/Sig		acilties		3%		21,809
N	Roadway Drain	lage	Standard Internal Sy	ystem			15%		109,046
	Illumination	_					6%		43,619
,	Special Draina	ge Structures	None Anticipated				0%	•	-
	Water		Minor Adjustments				5%		36,349
	Sewer		Minor Adjustments				2%	\$	14,540
		ping and Irrigation					4%	\$	29,079
	Miscellaneous:						0%	\$	-
**Allo	wances based on %	6 of Paving Construction	Cost Subtotal		Allowa	ance	Subtotal:	\$	290,790
				Paving an				\$	1,017,766
			Consti	ruction Conti			15%	\$	152,665
					oilization		6%	\$	61,066
					ep ROW		5%	\$	50,888
				Constru	ction C	ost	TOTAL:	\$	1,283,000
mp		ect Cost Summa							
	Item Descripti	on	Notes:			ι ΔII	owance		Item Cost

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 1,283,000
Engineering/Survey/Testing:		20%	\$ 256,600
ROW/Easement Acquisition:	Existing Alignment (1/2 ROW)	10%	\$ 128,300
	\$ 1,668,000		
	\$ 1,668,000		

**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 Seguin

2022 Roadway Impact Fee Study Update Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

updated: 9/22/2022

	ject Informa			Description:			Project No.		B-6
Nam		Martindale Rd (1)					consists		
Limi		825' E of SH 123 By	/pass to 170' W of						
-	act Fee Class:	,			undivid	ed ma	ajor colle	ctor	-
	nate Class:	MAJC							
	gth (lf):	885							
Serv	rice Area(s):	В							
Pee	dway Canat	ruption Cost Dro	isotion						
		ruction Cost Pro	Djection	Overstitue	11	Llus			Item Cent
	Item Descripti			Quantity	Unit	-	it Price	¢	Item Cost
	Unclassified St		6,097 5,605	cy	\$ \$	15.00	\$\$	91,450	
	4" Type D Aspł 15" Crushed Li	5,605 5,998	ton	ծ \$	30.00 70.00	Դ Տ	168,150 419,883		
			5,998	sy	э \$	5.00	э \$	29,992	
	4" Topsoil	ation (with Lime @ 2	27#/Sy)	1,082	sy	э \$	4.00	ֆ \$	4,327
					sy sf	Գ Տ	4.00	Գ Տ	70,800
	Turn Lanes and	8,850 0	Sy	\$	105.00	φ \$	70,000		
102			D	o aving Constr					784,602
			I			0310	Jubiolai.	Ψ	704,002
Maio	or Construction	Component Allowa	ances**:						
	Item Descripti		Notes			Allo	owance		Item Cost
	Traffic Control		None Anticipated				0%	\$	-
	Pavement Mar	kings/Signs/Posts	Includes Striping/Sig	ins for Bicycle Fa	cilties		3%	\$	23,538
	Roadway Drain	age	Standard Internal Sy	rstem			15%	\$	117,690
	Illumination	-					6%	\$	47,076
								Ψ	
	Special Drainag	ge Structures	None Anticipated				0%	\$	-
$\checkmark$	Special Drainag	ge Structures	None Anticipated Minor Adjustments				0% 5%		- 39,230
$\sqrt[]{}$		ge Structures						\$	-
	Water Sewer	ge Structures bing and Irrigation	Minor Adjustments				5%	\$ \$	- 39,230
V	Water Sewer		Minor Adjustments				5% 2% 4% 0%	\$ \$ \$ \$ \$ \$	39,230 15,692 31,384
	Water Sewer Basic Landsca Miscellaneous:		Minor Adjustments Minor Adjustments		Allowa	nce S	5% 2% 4%	\$ \$ \$ \$	39,230 15,692
	Water Sewer Basic Landsca Miscellaneous:	bing and Irrigation	Minor Adjustments Minor Adjustments				5% 2% 4% 0% Subtotal:	\$\$ \$\$ \$\$ \$ <b>\$</b>	39,230 15,692 31,384 - <b>274,611</b>
	Water Sewer Basic Landsca Miscellaneous:	bing and Irrigation	Minor Adjustments Minor Adjustments Cost Subtotal	Paving and	Allowa		5% 2% 4% 0% Subtotal: Subtotal:	\$\$ \$\$ \$\$ \$ <b>\$</b> <b>\$</b>	- 39,230 15,692 31,384 - <b>274,611</b> <b>1,059,212</b>
	Water Sewer Basic Landsca Miscellaneous:	bing and Irrigation	Minor Adjustments Minor Adjustments Cost Subtotal	uction Contin	d Allowa ngency:		5% 2% 4% 0% Subtotal: Subtotal: 15%	\$\$\$\$\$\$\$ <b>\$</b>	- 39,230 15,692 31,384 - - <b>274,611</b> <b>1,059,212</b> 158,882
	Water Sewer Basic Landsca Miscellaneous:	bing and Irrigation	Minor Adjustments Minor Adjustments Cost Subtotal	uction Contin Mobi	d Allowa ngency: ilization	nce S	5% 2% 4% 0% Subtotal: Subtotal: 15% 6%	\$\$\$\$\$\$	39,230 15,692 31,384 <b>274,611</b> <b>1,059,212</b> 158,882 63,553
	Water Sewer Basic Landsca Miscellaneous:	bing and Irrigation	Minor Adjustments Minor Adjustments Cost Subtotal	uction Contin Mobi	d Allowa ngency: ilization ep ROW	nce S	5% 2% 4% 0% Subtotal: <u>15%</u> 6% 3%	\$\$\$\$\$\$\$ <b>\$</b>	- 39,230 15,692 31,384 - - <b>274,611</b> <b>1,059,212</b> 158,882

Impact Fee Project Cost Sum	nary		
Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 1,314,000
Engineering/Survey/Testing:		20%	\$ 262,800
ROW/Easement Acquisition:		20%	\$ 262,800
	Proje	ct Subtotal:	\$ 1,840,000
	Impact Fee Project C	Cost TOTAL	\$ 1,840,000

**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 Seguin

Kimley-Horn and Associates, Inc.

updated:

9/22/2022

Project Informa Name: Limits: Impact Fee Class: Ultimate Class: Length (If): Service Area(s):	Ame:Martindale Rd (2)This project consists of reconstruction of the of pavement to a four lan major collector.ame:170' W of Parkwood Rd to 160' E of Almond Crk upact Fee Class:This project consists of reconstruction of the of pavement to a four lan major collector.ame:MAJCmajor collector.					of t exis	sting	
		ojection				· .		
No. Item Descripti			Quantity	Unit	-	it Price	¢	Item Cost
102 Unclassified St			6,717	су	\$	15.00	\$	100,750
202 4" Type D Aspl	nait mestone Flexible Ba	an Matarial	6,175	ton	\$	30.00	\$	185,250
			6,608	sy	\$	70.00	\$	462,583
	zation (with Lime @ 2	27#/Sy)	6,608	sy	\$ \$	5.00	\$	33,042
502 4" Topsoil 602 5' Concrete Sid	lawall.		1,192	sy	Դ \$	4.00	\$ \$	4,767
702 Turn Lanes and			9,750 0	sf		8.00		78,000
TUZ TUIN Lanes and	a median Openings	D	aving Const	Sy	\$	105.00	\$ ¢	864,392
Major Constructior Item Descripti	n Component Allow on	ances**: Notes			All	owance		Item Cost
√ Traffic Control		Construction Phase	Traffic Control			5%	\$	43,220
✓ Pavement Mar	kings/Signs/Posts	Includes Striping/Sig	ins for Bicycle Fa	acilties		3%	\$	25,932
✓ Roadway Drair	nage	Standard Internal Sy	rstem			15%	\$	129,659
√ Illumination						6%	\$	51,864
Special Draina	ge Structures	None Anticipated				0%	\$	-
√ Water		Minor Adjustments				5%	\$	43,220
√ Sewer		Minor Adjustments				2%	\$	17,288
√ Basic Landsca	ping and Irrigation					4%	\$	34,576
Miscellaneous:						0%	\$	-
*Allowances based on %	6 of Paving Construction	Cost Subtotal		Allowa	ince	Subtotal:	\$	345,757
			Paving an	d Allowa	nce	Subtotal:	\$	1,210,148
		Constr	uction Conti			15%	\$	181,522
				oilization		6%	\$	72,609
			-			5%	¢	60,507
			Pr	ep ROW		5%	\$	60,507

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 1,525,000
Engineering/Survey/Testing:		20%	\$ 305,000
<b>ROW/Easement Acquisition:</b>	NO ROW ACQUISITION	0%	\$ -
	\$ 1,830,000		
	Impact Fee Project (	Cost TOTAL	\$ 1,830,000

**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 Seguin

2022 Roadway Impact Fee Study Update Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

updated: 9/22/2022

	•	•	•						
Pro	ject Informat	tion:		Description:			Project No.		B-8
Nam	e:	Martindale Rd (3)			This pro	oject	consists	of t	he
Limi	ts:	· · ·	Crk to Martindale R	d			n of a new		
Impa	act Fee Class:	4U_(80)			undivid	ed m	ajor colle	cto	r.
Ultimate Class: MAJC									
Length (If): 345									
-	vice Area(s):	В							
Pos	dway Const	ruction Cost Pr	aiection						
	Item Descripti		Ojection	Quantity	Unit	Ur	nit Price		Item Cost
102		reet Excavation		2,377	су	\$	15.00	\$	35,650
202	4" Type D Aspł	nalt		2,185	ton	\$	30.00	\$	65,550
302	15" Crushed Li	mestone Flexible Ba	ase Material	2,338	sy	\$	70.00	\$	163,683
402	6" Lime Stabiliz	zation (with Lime @	27#/sy)	2,338	sy	\$	5.00	\$	11,692
502	4" Topsoil			422	sy	\$	4.00	\$	1,687
602	5' Concrete Sid	lewalk		3,450	sf	\$	8.00	\$	27,600
702	Turn Lanes and	d Median Openings		0	sy	\$	105.00	\$	-
				Paving Const	ruction C	Cost	Subtotal:	\$	305,862
				-					
Majo	or Construction	Component Allov	vances**:						
	Item Descripti	on	Notes			All	owance		Item Cost
	Traffic Control		None Anticipated				0%	\$	-
1	Dense and Mari						00/	•	0.470

	Construction C	ost TOTAL:	\$ 513,000
	Prep ROW	3%	\$ 12,387
	Mobilization		\$ 24,775
	Construction Contingency:	15%	\$ 61,937
	Paving and Allowa	nce Subtotal:	\$ 412,913
**Allowances based on % of Paving Construction	Cost Subtotal Allowa	nce Subtotal:	\$ 107,052
Miscellaneous:		0%	-
Basic Landscaping and Irrigation		4%	12,234
√ Sewer	Minor Adjustments	2%	\$ 6,117
√ Water	Minor Adjustments	5%	\$ 15,293
Special Drainage Structures	None Anticipated	0%	\$ -
$\sqrt{10}$ Illumination		6%	\$ 18,352
√ Roadway Drainage	Standard Internal System	15%	\$ 45,879
√ Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	3%	\$ 9,176
Traffic Control	None Anticipated	0%	\$ -

Impact Fee Project Cost Sum	mary		
Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 513,000
Engineering/Survey/Testing:		20%	\$ 102,600
<b>ROW/Easement Acquisition:</b>		20%	\$ 102,600
	Proje	ct Subtotal:	\$ 719,000
	Impact Fee Project C	Cost TOTAL	\$ 719,000

**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 Seguin

Kimley-Horn and Associates, Inc.

updated:

9/22/2022

Pro	ject Informat	tion:	Description:			Project No.		B-9
Nam	e:	Martindale Rd (4)		This pro	oject	consists	of t	he
Limi	ts:	156' NE of Twin Oak Road to 1300' NE of Twin	n Oak Road	reconstruction of the existing				
Impa	act Fee Class:		paveme	nt to	a four la	ne ı	undivided	
Ultin	nate Class:		major c	ollec	tor.			
Leng	gth (lf):	1215						
Serv	ice Area(s):	В						
	dway Const	ruction Cost Projection	Quantity	Unit	Ur	nit Price		Item Cost
102	Unclassified St	reet Excavation	8,370	су	\$	15.00	\$	125,550
202	4" Type D Asph	nalt	7,695	ton	\$	30.00	\$	230,850
302	15" Crushed Lii	mestone Flexible Base Material	8,235	sy	\$	70.00	\$	576,450
402	6" Lime Stabiliz	ation (with Lime @ 27#/sy)	8,235	sy	\$	5.00	\$	41,175
502	4" Topsoil	1,485	sy	\$	4.00	\$	5,940	
602	5' Concrete Sid	lewalk	12,150	sf	\$	8.00	\$	97,200
702	Turn Lanes and	d Median Openings	0	sy	\$	105.00	\$	-

Paving Construction Cost Subtotal: \$

1,077,165

Maj	or Construction Component Allowa	ances**:	_	_	
	Item Description	Notes	Allowance		Item Cost
	Traffic Control	Construction Phase Traffic Control	5%	\$	53,858
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	3%	\$	32,315
	Roadway Drainage	Standard Internal System	15%	\$	161,575
	Illumination		6%	\$	64,630
	Special Drainage Structures	None Anticipated	0%	\$	-
$\checkmark$	Water	Minor Adjustments	5%	\$	53,858
	Sewer	Minor Adjustments	2%	\$	21,543
	Basic Landscaping and Irrigation		4%	\$	43,087
	Miscellaneous:		0%	\$	-
**Allo	wances based on % of Paving Construction C	cost Subtotal Allowa	ince Subtotal:	\$	430,866
<u> </u>		Paving and Allowa	nce Subtotal:	\$	1,508,031
		Construction Contingency:	15%	\$	226,205
	Mobilization 6%				
		Prep ROW	5%	\$	75,402
		Construction C	ost TOTAL:	\$	1,901,000

Impact Fee Project Cost Sun			
Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 1,901,000
Engineering/Survey/Testing:		20%	\$ 380,200
ROW/Easement Acquisition:	Existing Alignment (1/2 ROW)	10%	\$ 190,100
	\$ 2,472,000		
	Impact Fee Proje	\$ 2,472,000	

**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 Seguin

2022 Roadway Impact Fee Study Update Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

updated: 9/22/2022

•••							apaatoa		0/22/2022
Pro	ject Informa	tion:		Description:			Project No.		B-10
Nam		Future Major Collec	tor C	-	This pro		consists	of t	he
Limi		1300' NE of Twin O					of a new		
Impa	act Fee Class:						ajor colle		
-	nate Class:	MAJC			ununu	cu m	ajor conc	010	
	gth (lf):	3145							
	ice Area(s):	В							
Roa	dway Const	ruction Cost Pro	ojection						
	Item Descripti		-	Quantity	Unit	Un	it Price		Item Cost
102	Unclassified St	reet Excavation		21,666	су	\$	15.00	\$	324,983
	4" Type D Aspł			19,918	ton	\$	30.00	\$	597,550
		mestone Flexible Ba		21,316	sy	\$	70.00	\$	1,492,128
		zation (with Lime @ 2	27#/sy)	21,316	sy	\$	5.00	\$	106,581
	4" Topsoil			3,844	sy	\$	4.00	\$	15,376
	5' Concrete Sic			31,450	sf	\$	8.00	\$	251,600
702	Turn Lanes and	d Median Openings		0	sy	\$	105.00	\$	-
			Р	aving Constr	uction C	Cost	Subtotal:	\$	2,788,217
Majo		Component Allow				1			
	Item Descripti	on	Notes			All	owance	<b>*</b>	Item Cost
,	Traffic Control		None Anticipated				0%		-
		kings/Signs/Posts	Includes Striping/Sig		cilties		3%		83,647
	Roadway Drain	lage	Standard Internal Sy	stem			15%		418,233
	Illumination						6%		167,293
,	Special Draina	ge Structures	None Anticipated				0%		-
V	Water		Minor Adjustments				5%		139,411
	Sewer		Minor Adjustments				2%		55,764
$\checkmark$	•	ping and Irrigation					4%	\$	111,529
	Miscellaneous:				A 11		0%	\$	-
**Allo	wances based on %	of Paving Construction (	Cost Subtotal		Allowa	ince	Subtotal:	\$	975,876
				Paving and	d Allowa	nce	Subtotal:	\$	3,764,093
			Constr	uction Conti			15%	\$	564,614
					ilization		6%	\$	225,846
				Pro	ep ROW		3%		112,923
				Construc	•		TOTAL:	\$	4,668,000
									· · ·
Imp		ect Cost Summa							
1	Item Descripti	on	Notes:				owance		Item Cost

Item Description	y Notes:	Allowance	Item Cost
Construction:		-	\$ 4,668,000
Engineering/Survey/Testing:		20%	\$ 933,600
<b>ROW/Easement Acquisition:</b>		20%	\$ 933,600
	Proje	ct Subtotal:	\$ 6,536,000
	Impact Fee Project C	ost TOTAL	\$ 6,536,000

**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 Seguin

Kimley-Horn and Associates, Inc.

updated: 9/22/2022

Project Information: Description: Project No.					roject No.		B-11	
Name:	Heideke Street (1)			This pro	oject c	onsists	of t	he
Limits:	SH 123 to IH 10 Fro	ontage Road				n of the		
mpact Fee Class:				paveme	nt to a	a f <mark>our</mark> lai	ne i	Individed
Ultimate Class:	MAJC			major c	ollecto	or.		
Length (If):	1765							
Service Area(s):	В							
Roadway Const	truction Cost Pro	piection						
No. Item Descripti			Quantity	Unit	Uni	t Price		Item Cost
102 Unclassified St	treet Excavation		12,159	су	\$	15.00	\$	182,38
202 4" Type D Aspl	halt		11,178	ton	\$	30.00	\$	335,35
302 15" Crushed Li	imestone Flexible Bas	se Material	11,963	sy	\$	70.00	\$	837,39
	zation (with Lime @ 2	27#/sy)	11,963	sy	\$	5.00	\$	59,81
502 4" Topsoil			2,157	sy	\$	4.00	\$	8,62
602 5' Concrete Sid			17,650	sf	\$	8.00	\$	141,20
702 Turn Lanes and	d Median Openings		0	sy	\$	105.00	\$	
		P	aving Constr	uction (	Cost S	ubtotal:	\$	1,564,77
Aajor Construction	n Component Allowa	ances**:						
Item Descripti		Notes			Allo	wance		Item Cost
√ Traffic Control		Construction Phase	Traffic Control			5%	\$	78,23
√ Pavement Mar	kings/Signs/Posts	Includes Striping/Sig	ons for Bicycle Fa	acilties		3%	\$	46,94
√ Roadway Drair	nage	Standard Internal Sy	/stem			15%		234,71
√ Illumination						6%	\$	93,88
Special Draina	ge Structures	None Anticipated				0%	\$	
√ Water		Minor Adjustments				5%		78,23
√ Sewer		Minor Adjustments				2%	\$	31,29
	ping and Irrigation					4%	\$	62,59
Miscellaneous:						0%	\$	
*Allowances based on %	6 of Paving Construction C	Cost Subtotal		Allowa	ince S	ubtotal:	\$	625,90
			Paving and	d Allowa	nce S	ubtotal:	\$	2,190,67
		Constr	uction Conti	ngency:		15%	\$	328,60
				ilization		6%	\$	131,44
				ep ROW		5%	\$	109,53
			Construc	ction C	ost T	OTAL:	\$	2,761,000
mpact Fee Proi	ject Cost Summa	rv						
Item Descripti		Notes:			Allo	wance		Item Cost
Construction:						-	\$	2,761,00
Engineering/Surve	y/Testing:					20%	\$	552,20
	· · · · · · · · · · · · · · · · · · ·		1/2 2 2 1 1			400/	•	070 40

Project Subtotal: \$ 3,590,000 Impact Fee Project Cost TOTAL \$ 3,590,000

**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 Seguin

Existing Alignment (1/2 ROW)

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

**ROW/Easement Acquisition:** 

10% \$

276,100

Kimley-Horn and Associates, Inc.

updated: 9/22/2022

Project Informa	tion:		Description:			Project No.		B-12
Name:	Glenewinkel Road			This pro	ject	consists	of t	he
Limits:	SH 123 to 2,970' E	of SH 123		reconst	ructio	on of the	exis	sting
Impact Fee Class:				paveme	nt to	a four la	ne u	Individed
Ultimate Class:	MAJC			major c	ollect	or.		
Length (If):	2965							
Service Area(s):	В							
Roadway Const	ruction Cost Pr	ojection						
No. Item Descript			Quantity	Unit	Un	it Price		Item Cost
102 Unclassified St	reet Excavation		20,426	су	\$	15.00	\$	306,383
202 4" Type D Asp	nalt		18,778	ton	\$	30.00	\$	563,350
302 15" Crushed Li	mestone Flexible Ba	se Material	20,096	sy	\$	70.00	\$	1,406,728
402 6" Lime Stabiliz	zation (with Lime @ 2	27#/sy)	20,096	sy	\$	5.00	\$	100,481
502 4" Topsoil			3,624	sy	\$	4.00	\$	14,496
602 5' Concrete Sid			29,650	sf	\$	8.00	\$	237,200
702 Turn Lanes an	d Median Openings		0	sy	\$	105.00	\$	
			aving Constr	uction C	JOST	Subtotal:	\$	2,628,637
	Component Allow					owance		li and On al
Item Descript	on	Notes			Alle		<b>^</b>	Item Cost
√ Traffic Control		Construction Phase				5%	Ŧ	131,432
	kings/Signs/Posts	Includes Striping/Sig		acilties		3%		78,859
<ul> <li>√ Roadway Drain</li> <li>√ Illumination</li> </ul>	lage	Standard Internal Sy	/stem			15% 6%		394,296
								157,718
Special Draina	ge Structures	None Anticipated				0%		404 400
√ Water		Minor Adjustments				5%		131,432
√ Sewer		Minor Adjustments				2%	Ŧ	52,573
	ping and Irrigation					4%	Ŧ	105,145
Miscellaneous: *Allowances based on %	6 of Paving Construction	Cost Subtota		Allowa	nce S	0% Subtotal:	Ŧ	1,051,455
	Ũ							
			Paving and			Subtotal:	\$	3,680,092
						15%	\$	552,014
		Constr	uction Conti					,
		Constr	Mob	ilization		6%	\$	220,806
		Constr	Mob Pre	ilization ep ROW		6% 5%	\$ \$	220,806 184,005
		Constr	Mob	ilization ep ROW		6% 5%	\$	220,806 184,005 <b>4,637,000</b>
mnact Fee Pro	ect Cost Summ		Mob Pre	ilization ep ROW		6% 5%	\$ \$	220,806 184,005
mpact Fee Proj	ect Cost Summa		Mob Pre	ilization ep ROW	ost 7	6% 5%	\$ \$	220,806 184,005

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 4,637,000
Engineering/Survey/Testing:		20%	\$ 927,400
<b>ROW/Easement Acquisition:</b>	Existing Alignment (1/2 ROW)	10%	\$ 463,700
	ect Subtotal:	\$ 6,029,000	
	Impact Fee Project	Cost TOTAL	\$ 6,029,000

**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 Seguin

2022 Roadway Impact Fee Study Update Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

updated: 9/22/2022

Project Informa	tion:		Description:			Project No.		B-13
Name:	Laubach Road			This pro	oject	consists	of t	he
_imits:	SH 123 to 2,000' E	of SH 123		reconst	ructio	on of the	exis	sting
mpact Fee Class:	_, ,			paveme	ent to	a five lan	e u	ndivided
Ultimate Class:	ARTE			arterial.				
Length (If):	2000							
Service Area(s):	В							
Roadway Const	truction Cost Pro	piection						
No. Item Descript		•	Quantity	Unit	Un	it Price		Item Cost
104 Unclassified St	reet Excavation		16,444	су	\$	15.00	\$	246,66
204 4" Type D Asp			15,333	ton	\$	30.00	\$	460,00
	mestone Flexible Bas		16,222	sy	\$	70.00	\$	1,135,55
	zation (with Lime @ 2	27#/sy)	16,222	sy	\$	5.00	\$	81,11
504 4" Topsoil			8,667	sy	\$	4.00	\$	34,66
604 5' Concrete Sid			20,000	sf	\$	8.00	\$	160,00
704 Turn Lanes an	d Median Openings		0	sy	\$	105.00	\$	
		P	Paving Constr	uction (	Cost S	Subtotal:	\$	2,118,00
	n Component Allowa	1			1			
Item Descript	ion	Notes			Alle	owance		Item Cost
$\sqrt{1}$ Traffic Control		Construction Phase				5%		105,90
	kings/Signs/Posts	Includes Striping/Sig	-	acilties		3%		63,54
√ Roadway Drain	nage	Standard Internal Sy	ystem			15%		317,70
√ Illumination	<b>e</b>					6%	-	127,08
Special Draina	ge Structures	None Anticipated				0%		
√ Water		Minor Adjustments				5%		105,90
√ Sewer		Minor Adjustments				2%		42,36
	ping and Irrigation					4%	\$	84,72
Miscellaneous:	6 of Paving Construction 0	Cost Subtota		Allowa	ince S	0% Subtotal:	\$ \$	847,20
							·	
			Paving and				\$	2,965,20
		Constr	ruction Conti			15%	\$	444,78
				ilization		6%	\$	177,91
				ep ROW		5%	\$ <b>\$</b>	148,26
	Construction Cost TOTAL:							3,737,000
mpact Fee Pro	ject Cost Summa	arv						
Item Descript		Notes:			Alle	owance		Item Cost
Construction:					1		\$	3 737 00

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 3,737,000
Engineering/Survey/Testing:		20%	\$ 747,400
<b>ROW/Easement Acquisition:</b>	Existing Alignment (1/2 ROW)	10%	\$ 373,700
	\$ 4,859,000		
	Impact Fee Project	t Cost TOTAL	\$ 4,859,000

**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 Seguin

Kimley-Horn and Associates, Inc.

updated: 9/22/2022

									9/22/2022
Pro	ject Informa	tion:		Description:			Project No.		B-14
Nam	~	Austin Street / BUS	SH 123	-	This pro		consists	of tl	he
Limi	ts:	IH 10 Frontage Roa	d to SH 123 Bypas	SS		-	on of the		
Impa	act Fee Class:	4D_(90)			paveme	nt to	a four la	ne d	livided arterial.
Ultin	nate Class:	ARTE			-				
•	gth (lf):	6780							
Serv	rice Area(s):	В							
		ruction Cost Pro	ojection	Quantitu	11.0.1	11.	it Dries		Item Coot
	Item Descripti			Quantity	Unit		it Price	•	Item Cost
	Unclassified St			49,720	су	\$	15.00	\$	745,800
	4" Type D Aspl		a Matarial	42,187	ton	\$	30.00	\$	1,265,600
-		mestone Flexible Ba		48,213	sy	\$ \$	70.00	\$ \$	3,374,933
		zation (with Lime @ 2	27#/Sy)	48,213	sy	ծ \$	5.00 4.00	Դ Տ	241,067
	4" Topsoil 5' Concrete Sic	lowalk		15,067 67,800	sy sf	э \$	<u>4.00</u> 8.00	э \$	60,267 542,400
	5 Turn Lanes and Median Openings			5,025	SI SV	э \$	105.00	э \$	527,633
105	Turri Laries and	a median Openings	D		, ,				6,757,700
Paving Construction Cost Subtotal: \$ 6,757,700									
Maio	or Construction	Component Allow	ances**:						
	Item Descripti	-	Notes			All	owance		Item Cost
	Traffic Control		Construction Phase	Traffic Control			5%	\$	337,885
	Pavement Marl	kings/Signs/Posts	Includes Striping/Sig	ns for Bicycle Fa	acilties		3%	\$	202,731
	Roadway Drain	age	Standard Internal Sy	vstem			15%	\$	1,013,655
	Illumination	-					6%	\$	405,462
	Special Draina	ge Structures	None Anticipated				0%	\$	-
	Water	-	Minor Adjustments				5%	\$	337,885
	Sewer		Minor Adjustments				2%	\$	135,154
$\checkmark$	Basic Landsca	oing and Irrigation					4%	\$	270,308
	Miscellaneous:						0%	-	-
**Allov	wances based on %	6 of Paving Construction (	Cost Subtotal		Allowa	nce	Subtotal:	\$	2,703,080
				Paving an		nce		\$	9,460,779
1			Constr	uction Conti			15%	\$	1,419,117
1					ilization		6%	\$	567,647
					ep ROW		5%	\$	473,039
				Constru	ction C	ost	FOTAL:	\$	11,921,000
Imp	act Fee Proj	ect Cost Summa	ary						

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 11,921,000
Engineering/Survey/Testing:		20%	\$ 2,384,200
<b>ROW/Easement Acquisition:</b>	NO ROW ACQUISITION	0%	\$ -
	ct Subtotal:	\$ 14,306,000	
	\$ 2,861,200		

**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 Seguin

Kimley-Horn and Associates, Inc.

Cor	ceptual Level Project Cost Projection					update			9/22/2022
Nam Limi Impa Ultir		Outer Loop (3) 1,300' W of Heinem	neyer Road to Boer	Description: hig Road	reconst	ructi nt to	Project No. consists on of the a six land	of t exis	sting
	vice Area(s):	B							
Do									
	Item Descripti	ruction Cost Pro	ojection	Quantity	Unit	Ur	nit Price		Item Cost
	Unclassified St			31,500	су	\$	15.00	\$	472,500
	4" Type D Aspl			27,750	ton	\$	30.00	\$	832,500
		mestone Flexible Ba	se Material	30,750	sy	\$	70.00	\$	2,152,500
		ation (with Lime @ 2		30,750	sy	\$	5.00	\$	153,750
	4" Topsoil			30,000	sy	\$	4.00	\$	120,000
	12' Shared Use				sf	\$	8.00	\$	648,000
		d Median Openings		81,000 3,545	SV	\$	105.00	\$	372,273
Majo	or Construction	Component Allow		aving Const	ruction (	Cost	Subtotal:	\$	4,751,523
	Item Descripti	on	Notes			All	lowance		Item Cost
	Traffic Control		Construction Phase	Traffic Control			5%	\$	237,576
$\checkmark$	Pavement Marl	kings/Signs/Posts	Includes Striping/Sig	ons for Bicycle Fa	acilties		3%		142,546
	Roadway Drain	lage	Standard Internal Sy	/stem			15%		712,728
	Illumination						6%	\$	285,091
	Special Draina	ge Structures	None Anticipated				0%	\$	-
$\checkmark$	Water		Minor Adjustments				5%	\$	237,576
	Sewer		Minor Adjustments				2%	\$	95,030
	Basic Landsca	ping and Irrigation					4%	\$	190,061
	Miscellaneous:						0%	\$	-
**Allo	wances based on %	of Paving Construction	Cost Subtotal		Allowa	ince	Subtotal:	\$	1,900,609
				Paving an	d Allowa	nce	Subtotal:	\$	6,652,132
			Constr	uction Conti			15%	\$	997,820
1					oilization		6%	\$	399,128
1				Pr	ep ROW		5%	\$	332,607
				Constru	•		TOTAL:	\$	8,382,000
Imp	act Fee Proj	ect Cost Summa	ary						
	Item Descripti	on	Notes:				lowance		Item Cost

Impact Fee Project Cost Sumn	lary		
Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 8,382,000
Engineering/Survey/Testing:		20%	\$ 1,676,400
ROW/Easement Acquisition:		20%	\$ 1,676,400
	ct Subtotal:	\$ 11,735,000	
-	\$ 2,347,000		
		1 1 1 1	1 11 11

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 Seguin

2022 Roadway Impact Fee Study Update Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

updated:

9/22/2022

oonceptual		rojection				upuateu.		9/22/2022
Project Info	rmation:		Description:			Project No.		C-1
Name:	Austin Street		-	This pro		consists		he
Limits:	Kingsbury Street to	IH 10 Frontage Ro	ad			on of the		
Impact Fee Cla	ass: <mark>4D_(90)</mark>	-						livided arterial.
Ultimate Class	:: ARTE							
Length (If):	<mark>6710</mark>							
Service Area(s	s): C							
Roadway Co	onstruction Cost Pr	oiection						
No. Item Desc			Quantity	Unit	Un	it Price		Item Cost
	ed Street Excavation		49,207	су	\$	15.00	\$	738,100
205 4" Type D			41,751	ton	\$	30.00	\$	1,252,533
305 15" Crush	ed Limestone Flexible Ba		47,716	sy	\$	70.00	\$	3,340,089
405 6" Lime St	tabilization (with Lime @	27#/sy)	47,716	sy	\$	5.00	\$	238,578
505 4" Topsoil			14,911	sy	\$	4.00	\$	59,644
	5 5' Concrete Sidewalk			sf	\$	8.00	\$	536,800
705 Turn Lane	es and Median Openings		4,973	sy	\$	105.00	\$	522,185
Major Constru	ction Component Allow	vances**:	aving Const				Ψ	6,687,930
Item Desc	•	Notes			Alle	owance		Item Cost
√ Traffic Cor		Construction Phase	Traffic Control			5%		334,396
	t Markings/Signs/Posts	Includes Striping/Sig	gns for Bicycle Fa	acilties				200,638
√ Roadway		Standard Internal Sy	/stem			15%		1,003,189
Illuminatio						6%	-	401,276
•	rainage Structures	None Anticipated				0%		-
√ Water		Minor Adjustments				5%		334,396
√ Sewer		Minor Adjustments				2%		133,759
	dscaping and Irrigation					4%	\$	267,517
Miscellane						0%	\$	-
**Allowances based	d on % of Paving Construction	Cost Subtotal		Allowa	ince \$	Subtotal:	\$	2,675,172
			Paving an	d Allowa	ince S	Subtotal:	\$	9,363,102
		Constr	uction Conti			15%	\$	1,404,465
				oilization		6%	\$	561,786
			Pr	ep ROW		5%	\$	468,155
			Constru	ction C	ost	TOTAL:	\$	11,798,000
								- •
Impact Fee	Project Cost Summ	ary						
Itom Deer		IN afaa.						Ham Coot

Impact Fee Project Cost Su	immary		
Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 11,798,000
Engineering/Survey/Testing:		20%	\$ 2,359,600
<b>ROW/Easement Acquisition:</b>	NO ROW ACQUISITION	0%	\$ -
	ct Subtotal:	\$ 14,158,000	
	\$ 2,831,600		

**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 Seguin

2022 Roadway Impact Fee Study Update Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

updated: 9/22/2022

Project Informa	tion:		Description:			Project No.		C-2
Name:	Fleming Drive			This pro	oject	consists	of th	ne
Limits:	FM 78 to Kingsbury	Street				on of the		
Impact Fee Class:	4D_(90)							ivided arterial.
Ultimate Class:	ARTE			•				
Length (If):	3550							
Service Area(s):	С							
Roadway Const	ruction Cost Pro	viection						
No. Item Descripti		Jeetion	Quantity	Unit	Un	it Price		Item Cost
105 Unclassified St			26,033	су	\$	15.00	\$	390,500
205 4" Type D Aspl	nalt		22,089	ton	\$	30.00	\$	662,667
	mestone Flexible Bas	se Material	25,244	sy	\$	70.00	\$	1,767,111
	zation (with Lime @ 2		25,244	sý	\$	5.00	\$	126,222
505 4" Topsoil	×	• /	7,889	sy	\$	4.00	\$	31,556
605 5' Concrete Sid	dewalk		35,500	sf	\$	8.00	\$	284,000
705 Turn Lanes and	d Median Openings		2,631	sy	\$	105.00	\$	276,268
	Subtotal:	\$	3,538,324					
	lajor Construction Component Allowances**:							
Item Descripti	on	Notes			All	owance		Item Cost
$\sqrt{1}$ Traffic Control		Construction Phase	Traffic Control			5%		176,916
	kings/Signs/Posts	Includes Striping/Sig	ins for Bicycle Fa	acilties		3%		106,150
√ Roadway Drair	nage	Standard Internal Sy	vstem			15%		530,749
1000000000000000000000000000000000000						6%		212,299
Special Draina	ge Structures	None Anticipated				0%	\$	-
√ Water		Minor Adjustments				5%	\$	176,916
√ Sewer		Minor Adjustments				2%	\$	70,766
√ Basic Landsca	ping and Irrigation					4%	\$	141,533
Miscellaneous:						0%	\$	-
**Allowances based on %	6 of Paving Construction C	Cost Subtotal		Allowa	ince	Subtotal:	\$	1,415,329
			Paving and	d Allowa	nce	Subtotal:	\$	4,953,653
		Constr	uction Conti			15%	\$	743,048
				ilization		6%	\$	297,219
				ep ROW		5%	\$	247,683
	Construction Cost TOTAL							
Impact Eee Proj	ect Cost Summa							
Item Descripti		Notes:			A 11	owance		Item Cost
item Descripti		NULES.				owance		1011 0051

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 6,242,000
Engineering/Survey/Testing:		20%	\$ 1,248,400
<b>ROW/Easement Acquisition:</b>	Existing Alignment (1/2 ROW)	10%	\$ 624,200
	\$ 8,115,000		
	Impact Fee Project	Cost TOTAL	\$ 8,115,000

**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 Seguin

#### 2022 Roadway Impact Fee Study Update Conceptual Level Project Cost Projection

Kimley-Horn and Associates, Inc.

updated: 9/22/2022

Project Informa			Description:		ł	Project No.		C-3		
ame: Vaughn Ave, Hidalgo St				This project consists of the						
imits: US 90 ALTE to FM 78				reconst	ructio	on of the	exis	sting		
-	et Fee Class: <mark>3U_(60) p</mark>			paveme	pavement to a three lane undivided					
Ultimate Class:	COL			collecto	or.					
Length (If):	5705									
Service Area(s):	C									
	truction Cost Pro	ojection								
No. Item Descripti	on		Quantity	Unit	Un	it Price		Item Cost		
101 Unclassified St	reet Excavation		25,356	су	\$	15.00	\$	380,333		
201 3" Type D Aspl			22,186	ton	\$	22.50	\$	499,188		
301 12" Crushed Li	mestone Flexible Ba	se Material	24,722	sy	\$	56.00	\$	1,384,413		
	zation (with Lime @ 2	27#/sy)	24,722	sy	\$	5.00	\$	123,608		
501 4" Topsoil			5,071	sy	\$	4.00	\$	20,284		
	dewalk + 10' Shared	Use Path	85,575	sf	\$	8.00	\$	684,600		
701 Turn Lanes and	d Median Openings		0	sy	\$	83.50	\$	-		
		I	Paving Const	ruction C	Cost S	Subtotal:	\$	3,092,427		
	n Component Allow	ances**:								
Item Descripti	on	Notes			Allo	owance		Item Cost		
Traffic Control		Construction Phase	e Traffic Control			5%	-	154,621		
	kings/Signs/Posts	Includes Striping/Si	igns for Bicycle Fa	acilties		3%		92,773		
√ Roadway Drair	nage	Standard Internal S	System			15%		463,864		
1000000000000000000000000000000000000						6%		185,546		
√ Special Draina	ge Structures	Bridge Crossing				0%		400,000		
√ Water		Minor Adjustments				5%	-	154,621		
√ Sewer		Minor Adjustments				2%	\$	61,849		
	ping and Irrigation					4%	-	123,697		
Miscellaneous:						0%	\$	-		
*Allowances based on %	6 of Paving Construction (	Cost Subtotal		Allowa	ince S	Subtotal:	\$	1,636,971		
			Paving an				\$	4,729,398		
Construction Contingency: 15%					\$	709,410				
Mobilization 6%						\$	283,764			
	Prep ROW 5%						\$	236,470		
	Construction Cost TOTAL:					\$	5,960,000			
mpact Fee P <u>roj</u>	ect Cost Summa	ary								
Item Descripti	on	Notes:			Allo	owance		Item Cost		
Construction:						_	\$	5 960 000		

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 5,960,000
Engineering/Survey/Testing:		20%	\$ 1,192,000
ROW/Easement Acquisition:	Existing Alignment (1/2 ROW)	10%	\$ 596,000
	Proje	ct Subtotal:	\$ 7,748,000
	\$ 7,748,000		

**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 Seguin

Kimley-Horn and Associates, Inc.

updated: 9/22/2022

Name: Limits: Impact Ultimat Length								exis	sting
	way Const em Description	ruction Cost Pro	ojection	Quantity	Unit	Un	it Price		Item Cost
	-	reet Excavation		18,311	су	\$	15.00	\$	274,667
	Type D Asph			16,022	ton	\$	22.50	φ \$	360,500
		mestone Flexible Ba	se Material	17,853	sy	\$	56.00	\$ \$	999,787
		ation (with Lime @ 2		17,853	sy	\$	5.00	\$	89,267
	Topsoil		, <b> ,</b>	3,662	sy	\$	4.00	\$	14,649
		ewalk + 10' Shared	Use Path	61,800	sf	\$	8.00	\$	494,400
		d Median Openings		0	sy	\$	83.50	\$	-
lte	em Descripti	Component Allow	Notes			Allo	owance		Item Cost
	affic Control		Construction Phase				5%		111,663
		kings/Signs/Posts	Includes Striping/Sig		acilties				66,998
	oadway Drain	age	Standard Internal Sy	rstem			15%		334,990
	umination						6%	-	133,996
, .	pecial Draina	ge Structures	None Anticipated				0%	-	-
	ater		Minor Adjustments				5%		111,663
. –	ewer		Minor Adjustments				2%	\$	44,665
	•	oing and Irrigation					4%	\$	89,331
	iscellaneous:				Allaura		0% Subtotal:	\$ \$	-
~Allowar	ices based on %	of Paving Construction	Jost Subtotal					Ŧ	893,308
			<b>0</b>	Paving and				\$	3,126,576
			Constr	uction Conti	ngency: ilization		15%	\$ \$	468,986
					ep ROW		6% 5%	ֆ \$	187,595 156,329
				Construe	•			⊅ \$	
				Constru		UST	UTAL:	Ф	3,940,000

Impact Fee Project Cost Sum	nary		
Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 3,940,000
Engineering/Survey/Testing:		20%	\$ 788,000
<b>ROW/Easement Acquisition:</b>	Existing Alignment (1/2 ROW)	10%	\$ 394,000
	Proje	ct Subtotal:	\$ 5,122,000
	\$ 5,122,000		

**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 Seguin

2022 Roadway Impact Fee Study Update Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

updated:

9/22/2022

Project Informa	tion: Lawson Street		Description:	This pr		Project No.	of th	C-5
Limits: C H Matthies Jr to Kingsbury Street				This project consists of the reconstruction of the existing				
mpact Fee Class: 3U_(60)				pavement to a three lane undivided				
			collecto					
Length (If):	825							
Service Area(s):	С							
	truction Cost Pr	ojection	_					
No. Item Descript			Quantity	Unit	-	it Price		Item Cost
	reet Excavation		3,667	су	\$	15.00	\$	55,000
201 3" Type D Asp			3,208	ton	\$	22.50	\$	72,188
	mestone Flexible Ba		3,575	sy	\$	56.00	\$	200,200
	zation (with Lime @	27#/sy)	3,575	sy	\$	5.00	\$	17,875
501 4" Topsoil		Lies Deth	733	sy	\$	4.00	\$	2,933
	dewalk + 10' Shared	Use Path	12,375	sf	\$ \$	8.00 83.50	\$\$	99,000
Turn Lanes an	d Median Openings	C	Paving Const	sy				447,196
		ſ	aving const		051	Subiolal.	φ	447,190
Maior Constructio	n Component Allow	ances**:						
Item Descript		Notes			Alle	owance		Item Cost
√ Traffic Control		Construction Phase	Traffic Control			5%	\$	22,360
√ Pavement Mar	kings/Signs/Posts	Includes Striping/Sig	gns for Bicycle Fa	acilties		3%	\$	13,416
√ Roadway Draii	nage	Standard Internal S	ystem			15%		67,079
√ Illumination						6%	\$	26,832
Special Draina	ge Structures	None Anticipated				0%	\$	
√ Water		Minor Adjustments				5%	\$	22,360
√ Sewer		Minor Adjustments				2%	\$	8,944
	ping and Irrigation					4%	\$	17,888
Miscellaneous						0%	\$	
*Allowances based on %	6 of Paving Construction	Cost Subtotal		Allowa	ince \$	Subtotal:	\$	178,878
			Paving and	d Allowa	nce 9	Subtotal:	\$	626,074
		Const	ruction Conti			15%	\$	93,911
				ilization		6%	\$	37,564
				ep ROW		5%	\$	31,304
			Constru	•			¢	789,000
			CONSUM		Ual I		<b>J</b>	103.00
			Construc		031	IUTAL.	φ	709,000
mpact Fee <u>Pro</u>	ect Cost Summ	ary	Construc		031	IOTAL.	φ	789,000

Impact Fee Project Cost Summ		Allewerse	Item Cent
Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 789,000
Engineering/Survey/Testing:		20%	\$ 157,800
ROW/Easement Acquisition:	Existing Alignment (1/2 ROW)	10%	\$ 78,900
	Proje	ct Subtotal:	\$ 1,026,000
	\$ 1,026,000		

**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 Seguin

Kimley-Horn and Associates, Inc.

updated: 9/22/2022

Pro	ject Informa			Description:		F	Project No.		<b>C-6</b>
Nam	ne:	B and B Road (1)			This pro	oject (	consists	of th	ne
Limi		Inner Loop to 930'	S of MI Mountain		reconst	ructic	on of the	exis	ting
	act Fee Class:	3U_(60)			paveme	nt to	a three la	ine i	undivided
	nate Class:	COL			collecto	or.			
	gth (lf):	1910							
Serv	/ice Area(s):	С							
Por	adway Const	ruction Cost Pr	aiaction						
No.			ojection	Quantity	Unit	lln	it Price		Item Cost
101								¢	
	3" Type D Asphalt			8,489	cy	\$ \$	15.00 22.50	\$ \$	127,333
201 301		mestone Flexible Ba	se Material	7,428 8,277	ton	ъ \$	22.50 56.00	ъ \$	167,125 463,493
401		zation (with Lime @ 2		8,277	sy sv	э \$	56.00	э \$	403,493 41,383
+01 501	4" Topsoil		<b>ΞΙ Π/ ΟΥ /</b>	1,698	sy sy	э \$	4.00	Դ \$	6,791
601		lewalk + 10' Shared	l leo Path	28,650	sf	φ \$	8.00	Գ Տ	229,200
701		d Median Openings		20,000	SV	\$	83.50	φ \$	223,200
101	Turr Lancs and		F	o Paving Constr	,			Ŧ	1,035,326
				anng eenen			, abrotan	¥	.,,.
Majo	or Constructior	Component Allow	ances**:						
	Item Descripti	on	Notes			Allo	owance		Item Cost
	Traffic Control		Construction Phase	Traffic Control			5%		51,766
		kings/Signs/Posts	Includes Striping/Sig	gns for Bicycle Fa	acilties		3%		31,060
V	Roadway Drair	nage	Standard Internal S	ystem			15%		155,299
	Illumination						6%		62,120
	Special Draina		None Anticipated				00/		
	Special Dialita	ge Structures	None Anticipated				0%	\$	-
$\checkmark$	Water	ge Structures	Minor Adjustments				5%	\$ \$	- 51,766
$\sqrt{1}$	•	ge Structures							- 51,766 20,707
· .	Water Sewer	ping and Irrigation	Minor Adjustments				5%	\$	
Ń	Water Sewer	ping and Irrigation	Minor Adjustments				5% 2% 4% 0%	<del>()</del> () () () () () () () () () () () () ()	20,707 41,413
$\sqrt[n]{\sqrt{1}}$	Water Sewer Basic Landsca Miscellaneous:	ping and Irrigation	Minor Adjustments Minor Adjustments		Allowa	ince S	5% 2% 4%	\$ \$ \$	20,707 41,413
$\sqrt[n]{\sqrt{1}}$	Water Sewer Basic Landsca Miscellaneous:	ping and Irrigation	Minor Adjustments Minor Adjustments	Paving and			5% 2% 4% 0% Subtotal:	\$\$ \$\$ \$ <b>\$</b>	20,707 41,413 
$\sqrt[]{}$	Water Sewer Basic Landsca Miscellaneous:	ping and Irrigation	Minor Adjustments Minor Adjustments Cost Subtotal	Paving and	d Allowa	nce S	5% 2% 4% 0% Subtotal: Subtotal:	\$\$ \$\$ \$\$ <b>\$</b>	20,707 41,413 
$\sqrt[n]{}$	Water Sewer Basic Landsca Miscellaneous:	ping and Irrigation	Minor Adjustments Minor Adjustments Cost Subtotal	ruction Contin	d Allowa ngency:	ince S	5% 2% 4% 0% Subtotal: Subtotal: 15%	\$\$\$\$\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	20,707 41,413 <b>414,130</b> <b>1,449,457</b> 217,418
$\sqrt[n]{\sqrt{1}}$	Water Sewer Basic Landsca Miscellaneous:	ping and Irrigation	Minor Adjustments Minor Adjustments Cost Subtotal	ruction Contin Mob	d Allowa ngency: ilization	ince S	5% 2% 4% 0% Subtotal: Subtotal:	\$\$\$\$\$ <b>\$</b>	20,707 41,413 
$\sqrt[n]{\sqrt{1}}$	Water Sewer Basic Landsca Miscellaneous:	ping and Irrigation	Minor Adjustments Minor Adjustments Cost Subtotal	ruction Contin Mob	d Allowa ngency: ilization ep ROW	ince S	5% 2% 4% 0% Subtotal: <u>5ubtotal: 15% 6% 5%</u>	\$\$\$\$\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	20,707
$\sqrt[n]{}$	Water Sewer Basic Landsca Miscellaneous:	ping and Irrigation	Minor Adjustments Minor Adjustments Cost Subtotal	ruction Contin Mob Pre	d Allowa ngency: ilization ep ROW	ince S	5% 2% 4% 0% Subtotal: <u>5ubtotal: 15% 6% 5%</u>	\$\$\$\$\$ <b>\$</b>	20,707 41,413 
√ √ *Allo	Water Sewer Basic Landsca Miscellaneous: wances based on %	ping and Irrigation	Minor Adjustments Minor Adjustments Cost Subtotal Const	ruction Contin Mob Pre	d Allowa ngency: ilization ep ROW	ince S	5% 2% 4% 0% Subtotal: <u>5ubtotal: 15% 6% 5%</u>	\$\$\$\$\$ <b>\$</b>	20,707 41,413 

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 1,827,000
Engineering/Survey/Testing:		20%	\$ 365,400
<b>ROW/Easement Acquisition:</b>	Existing Alignment (1/2 ROW)	10%	\$ 182,700
	\$ 2,376,000		
	\$ 2,376,000		

**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 Seguin

2022 Roadway Impact Fee Study Update Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

updated: 9/22/2022

Name: Limits: Impact Fee Class: Ultimate Class: Length (If): Service Area(s):	mits: 3,615' W of SH 46 to SH 46 pact Fee Class: 3U_(60) timate Class: COL ength (If): 3610				oject ( ction	Project No. consists of a new ollector.		
Roadwav Cons	truction Cost Pr	oiection						
No. Item Descript			Quantity	Unit	Un	it Price		Item Cost
	treet Excavation		16,044	су	\$	15.00	\$	240,667
201 3" Type D Asp	halt		14,039	ton	\$	22.50	\$	315,875
301 12" Crushed L	imestone Flexible Ba	ase Material	15,643	sy	\$	56.00	\$	876,027
401 6" Lime Stabili	zation (with Lime @	27#/sy)	15,643	sy	\$	5.00	\$	78,217
501 4" Topsoil			3,209	sy	\$	4.00	\$	12,836
601 5' Concrete Si	dewalk + 10' Shared	Use Path	54,150	sf	\$	8.00	\$	433,200
701 Turn Lanes an	d Median Openings		0	sy	\$	83.50	\$	-
Item Descript	n Component Allow ion	/ances**: Notes			Alle	owance		Item Cost
Item Descript Traffic Control	ion	Notes None Anticipated			Alle	0%		-
Item DescriptTraffic Control√Pavement Mar	ion kings/Signs/Posts	Notes None Anticipated Includes Striping/Sig		cilties	Alle	0% 3%	\$	- 58,705
Item Descript           Traffic Control           √           Pavement Mar           √           Roadway Drain	ion kings/Signs/Posts	Notes None Anticipated		cilties	Alle	0% 3% 15%	\$ \$	- 58,705 293,523
Item Descript           Traffic Control           √           Pavement Mai           √           Roadway Draii           √           Illumination	ion kings/Signs/Posts nage	Notes None Anticipated Includes Striping/Sig Standard Internal Sy		cilties	Alle	0% 3% 15% 6%	\$ \$ \$	- 58,705
Item Descript           Traffic Control           √           Pavement Mai           √           Roadway Draii           √           Illumination           Special Draina	ion kings/Signs/Posts nage	None Anticipated Includes Striping/Sig Standard Internal Sy None Anticipated		cilties	Alle	0% 3% 15% 6% 0%	\$ \$ \$ \$ \$	- 58,705 293,523 117,409 -
Item Descript         Traffic Control         √       Pavement Mar         √       Roadway Drain         √       Illumination         Special Draina       √         √       Water	ion kings/Signs/Posts nage	None Anticipated Includes Striping/Sig Standard Internal Sy None Anticipated Minor Adjustments		cilties	Alle	0% 3% 15% 6% 0% 5%	\$\$\$\$\$	- 58,705 293,523 117,409 - 97,841
Item Descript         Traffic Control         √       Pavement Mar         √       Roadway Drain         √       Illumination         Special Draina         √       Water         √       Sewer	ion kings/Signs/Posts nage ige Structures	None Anticipated Includes Striping/Sig Standard Internal Sy None Anticipated		cilties	Alle	0% 3% 15% 6% 0% 5% 2%	\$\$\$\$	- 58,705 293,523 117,409 - 97,841 39,136
Item Descript         Traffic Control         √       Pavement Mar         √       Roadway Drain         √       Roadway Drain         √       Illumination         Special Draina       √         √       Water         √       Sewer         √       Basic Landsca	ion kings/Signs/Posts nage ige Structures iping and Irrigation	None Anticipated Includes Striping/Sig Standard Internal Sy None Anticipated Minor Adjustments		cilties	Alle	0% 3% 15% 6% 0% 5% 2% 4%	\$ \$ \$ \$ \$ \$	- 58,705 293,523 117,409 - 97,841 39,136
Item Descript         Traffic Control         √       Pavement Mar         √       Roadway Drain         √       Illumination         Special Draina       √         √       Water         √       Sewer         √       Basic Landsca         Miscellaneous       Network	ion kings/Signs/Posts nage ge Structures ping and Irrigation	Notes None Anticipated Includes Striping/Sig Standard Internal Sy None Anticipated Minor Adjustments Minor Adjustments				0% 3% 15% 6% 0% 2% 4% 0%	\$\$\$\$\$	- 58,705 293,523 117,409 - 97,841 39,136 78,273 -
Item Descript         Traffic Control         √       Pavement Mar         √       Roadway Drain         √       Illumination         Special Draina       √         √       Water         √       Sewer         √       Basic Landsca         Miscellaneous       Network	ion kings/Signs/Posts nage ige Structures iping and Irrigation	Notes None Anticipated Includes Striping/Sig Standard Internal Sy None Anticipated Minor Adjustments Minor Adjustments	stem	Allowa	ince §	0% 3% 15% 6% 0% 2% 4% 0% Subtotal:	\$ \$ \$ \$ \$ \$	58,705 293,523 117,409 - 97,841 39,136 78,273 - - <b>684,887</b>
Item Descript         Traffic Control         √       Pavement Mar         √       Roadway Drain         √       Illumination         Special Draina       √         √       Water         √       Sewer         √       Basic Landsca         Miscellaneous       Network	ion kings/Signs/Posts nage ge Structures ping and Irrigation	Notes None Anticipated Includes Striping/Sig Standard Internal Sy None Anticipated Minor Adjustments Minor Adjustments	stem Paving and	Allowa	ince s	0% 3% 15% 6% 0% 2% 4% 0% Subtotal:	\$\$\$\$\$\$\$\$ <b>\$</b>	58,705 293,523 117,409 97,841 39,136 78,273 - <b>684,887</b> <b>2,641,708</b>
Item Descript         Traffic Control         ✓       Pavement Mar         ✓       Roadway Drain         ✓       Illumination         Special Draina       ✓         ✓       Water         ✓       Sewer         ✓       Basic Landsca         Miscellaneous       Miscellaneous	ion kings/Signs/Posts nage ge Structures ping and Irrigation	Notes None Anticipated Includes Striping/Sig Standard Internal Sy None Anticipated Minor Adjustments Minor Adjustments	Paving and uction Contin	Allowa d Allowa ngency:	ince s	0% 3% 15% 6% 0% 5% 2% 4% 0% Subtotal: Subtotal: 15%	\$\$\$\$\$\$\$\$\$\$	58,705 293,523 117,409 97,841 39,136 78,273 
Item Descript         Traffic Control         √       Pavement Mar         √       Roadway Drain         √       Illumination         Special Draina       √         √       Water         √       Sewer         √       Basic Landsca         Miscellaneous       Network	ion kings/Signs/Posts nage ge Structures ping and Irrigation	Notes None Anticipated Includes Striping/Sig Standard Internal Sy None Anticipated Minor Adjustments Minor Adjustments	Paving and uction Contin Mob	Allowa d Allowa ngency: ilization	ince s	0% 3% 15% 6% 2% 4% 0% Subtotal: 5ubtotal: 15% 6%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ <b>\$</b> \$ \$ \$	- 58,705 293,523 117,409 - 97,841 39,136 78,273 - <b>684,887</b> <b>2,641,708</b> 396,256 158,502
Item Descript         Traffic Control         ✓       Pavement Mar         ✓       Roadway Drain         ✓       Illumination         Special Draina       ✓         ✓       Water         ✓       Sewer         ✓       Basic Landsca         Miscellaneous       Miscellaneous	ion kings/Signs/Posts nage ge Structures ping and Irrigation	Notes None Anticipated Includes Striping/Sig Standard Internal Sy None Anticipated Minor Adjustments Minor Adjustments	Paving and uction Contin Mob	Allowa d Allowa ngency: ilization ep ROW	ince s	0% 3% 15% 6% 2% 4% 0% Subtotal: 5ubtotal: 15% 6% 3%	\$\$\$\$\$\$\$\$\$\$	58,705 293,523 117,409 97,841 39,136 78,273 

Item Description	Notes:	Allowance		Item Cost
Construction:		-	\$	3,276,000
Engineering/Survey/Testing:		20%	\$	655,200
ROW/Easement Acquisition:		20%	\$	655,200
	Project Subtotal:			
	Impact Fee Project C	ost TOTAL	\$	4,587,000

**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 Seguin

2022 Roadway Impact Fee Study Update Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

updated: 9/22/2022

Project Informa	tion:		Description:			Project No.		C-8
Name:	Huber Road (3)			This pro	oject	consists	of tl	ne
Limits:	IH 10 Frontage Roa	nd to FM 78		reconst	ructio	on of the	exis	sting
Impact Fee Class:	_, ,			paveme	nt to	a four la	ne d	livided arterial.
Ultimate Class:	ARTE							
Length (If):	680							
Service Area(s):	С							
Roadway Const	ruction Cost Pre	ojection						
No. Item Descripti	on		Quantity	Unit	Un	it Price		Item Cost
105 Unclassified St	reet Excavation		4,987	су	\$	15.00	\$	74,800
205 4" Type D Aspł			4,231	ton	\$	30.00	\$	126,933
	mestone Flexible Ba		4,836	sy	\$	70.00	\$	338,489
	zation (with Lime @ 2	27#/sy)	4,836	sy	\$	5.00	\$	24,178
505 4" Topsoil			1,511	sy	\$	4.00	\$	6,044
605 5' Concrete Sic			6,800	sf	\$	8.00	\$	54,400
705 Turn Lanes and	d Median Openings		504	sy	\$	105.00	\$	52,919
Major Constructior Item Descripti	n Component Allow on	ances**:			All	owance		Item Cost
√ Traffic Control		Construction Phase	Traffic Control			5%	\$	33,888
	kings/Signs/Posts	Includes Striping/Sig		acilties		3%		20,333
√ Roadway Drain		Standard Internal Sy				15%	\$	101,665
√ Illumination	5					6%		40,666
Special Draina	ge Structures	None Anticipated				0%	\$	-
√ Water	0	Minor Adjustments				5%		33,888
√ Sewer		Minor Adjustments				2%	\$	13,555
√ Basic Landsca	ping and Irrigation					4%	\$	27,111
Miscellaneous:						0%	\$	-
**Allowances based on %	6 of Paving Construction	Cost Subtotal		Allowa	ince \$	Subtotal:	\$	271,105
			Paving and	d Allowa	nce	Subtotal:	\$	948,869
		Constr	ruction Conti			15%	<b>\$</b>	142,330
				ilization		6%	\$	56,932
				ep ROW		5%	\$	47,443
			Construc	•			\$	1,196,000
l			20110114	•			Ŧ	.,,,

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 1,196,000
Engineering/Survey/Testing:		20%	\$ 239,200
<b>ROW/Easement Acquisition:</b>	Existing Alignment (1/2 ROW)	10%	\$ 119,600
	\$ 1,555,000		
	\$ 1, <b>555,000</b>		

**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 Seguin

Kimley-Horn and Associates, Inc.

updated: 9/22/2022

	ject Informa		Description:			Project No.		C-9
Nam		B and B Road (2)	_	This project consists of the construction of a new three lane				
Limi		930' S of MI Mountain to Volunteer	Street	constru	ction	of a new	thre	e lane
-	act Fee Class:	,		undivid	ed co	llector.		
Ultir	nate Class:	COL						
Len	gth (lf):							
Serv	vice Area(s):	С						
_								
Roa	adway Const	ruction Cost Projection						
_	adway Const Item Descripti		Quantity	Unit	Un	it Price		tem Cost
No.		on	Quantity 8,022	Unit cy	Un \$	it Price 15.00	\$	tem Cost 120,333
No.	Item Descripti	on reet Excavation			-			
<b>No.</b> 101	Item Descripti Unclassified St 3" Type D Aspl	on reet Excavation	8,022	су	\$	15.00	\$	120,333
<b>No.</b> 101 201	Item Descripti Unclassified St 3" Type D Aspl 12" Crushed Li	on reet Excavation nalt	8,022 7,019	cy ton	\$ \$	15.00 22.50	\$ \$	120,333 157,938
<b>No.</b> 101 201 301	Item Descripti Unclassified St 3" Type D Aspl 12" Crushed Li	on reet Excavation nalt mestone Flexible Base Material	8,022 7,019 7,822	cy ton sy	\$ \$ \$	15.00 22.50 56.00	\$ \$ \$	120,333 157,938 438,013
<b>No.</b> 101 201 301 401	Item Descripti Unclassified St 3" Type D Aspl 12" Crushed Li 6" Lime Stabiliz 4" Topsoil	on reet Excavation nalt mestone Flexible Base Material	8,022 7,019 7,822 7,822	cy ton sy sy	\$ \$ \$	15.00 22.50 56.00 5.00	\$ \$ \$	120,333 157,938 438,013 39,108
No. 101 201 301 401 501	Item Descripti Unclassified St 3" Type D Aspl 12" Crushed Li 6" Lime Stabiliz 4" Topsoil 5' Concrete Sic	on reet Excavation halt mestone Flexible Base Material zation (with Lime @ 27#/sy)	8,022 7,019 7,822 7,822 1,604	cy ton sy sy sy	\$ \$ \$ \$	15.00 22.50 56.00 5.00 4.00	\$ \$ \$ \$	120,333 157,938 438,013 39,108 6,418

	Item Description	Notes	Allowance		Item Cost	
	Traffic Control	None Anticipated	0%	\$	-	
$\checkmark$	Pavement Markings/Signs/Posts	Includes Striping/Signs for Bicycle Facilties	3%	\$	29,352	
$\checkmark$	Roadway Drainage	Standard Internal System	15%	\$	146,762	
	Illumination		6%	\$	58,705	
	Special Drainage Structures	None Anticipated	0%	\$	-	
$\checkmark$	Water	Minor Adjustments	5%	\$	48,921	
$\checkmark$	Sewer	Minor Adjustments	2%	\$	19,568	
$\checkmark$	Basic Landscaping and Irrigation		4%	\$	39,136	
	Miscellaneous:		0%	\$	-	
**Allo	wances based on % of Paving Construction C	ost Subtotal Allowa	nce Subtotal:	\$	342,444	
		Paving and Allowa	nce Subtotal:	\$	1,320,854	
		Construction Contingency:	15%	\$	198,128	
	Mobilization 6%					
		Prep ROW	3%	\$	39,626	
		Construction C	ost TOTAL:	\$	1,638,000	

Impact Fee Project Cost Sum	mary		
Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 1,638,000
Engineering/Survey/Testing:		20%	\$ 327,600
<b>ROW/Easement Acquisition:</b>		20%	\$ 327,600
	Proje	ct Subtotal:	\$ 2,294,000
	Impact Fee Project (	Cost TOTAL	\$ 2,294,000

**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 Seguin

2022 Roadway Impact Fee Study Update Conceptual Level Project Cost Projection Kimley-Horn and Associates, Inc.

updated: 9/22/2022

	oject Information:					Project No.		D-1
Name:	Austin Street			This pro	oject	consists	of t	he
Limits:	Kingsbury Street to	IH 10		reconst	ructi	on of the	exis	sting
Impact Fee Class:	4D_(90)			paveme	nt to	a four la	ne d	livided arteria
Ultimate Class:	ARTE							
Length (If):	6710							
Service Area(s):	D							
	ruction Cost Pro	ojection	Quantity					
	b. Item Description			Unit		it Price		Item Cost
105 Unclassified St			49,207	су	\$	15.00	\$	738,100
205 4" Type D Asp			41,751	ton	\$	30.00	\$	1,252,533
	mestone Flexible Ba		47,716	sy	\$	70.00	\$	3,340,089
	zation (with Lime @ 2	27#/sy)	47,716	sy	\$	5.00	\$	238,578
505 4" Topsoil			14,911	sy	\$	4.00	\$	59,644
605 5' Concrete Sid			67,100	sf	\$	8.00	\$	536,800
705 Turn Lanes an	d Median Openings		4,973	sy	\$	105.00	\$	522,185
		Р	aving Const	ruction C	Cost	Subtotal:	\$	6,687,930
Major Construction	n Component Allow	ances**						
Item Descripti		Notes				owance		Item Cost
√ Traffic Control		Construction Phase	Traffic Control			5%	\$	334,396
✓ Pavement Mar	kinas/Sians/Posts	Includes Stripina/Sic	ans for Bicvcle Fa	acilties		3%	\$	200.638
		Includes Striping/Sig Standard Internal Sy		acilties		3% 15%		
1				acilties			\$	1,003,189
√ Roadway Drair √ Illumination	nage	Standard Internal Sy		acilties		15% 6%	\$ \$	1,003,189
√ Roadway Drair	nage	Standard Internal Sy None Anticipated		acilties		15% 6% 0%	\$ \$ \$	1,003,189 401,276
<ul> <li>√ Roadway Drain</li> <li>√ Illumination</li> <li>Special Draina</li> <li>√ Water</li> </ul>	nage	Standard Internal Sy None Anticipated Minor Adjustments		acilties		15% 6% 0% 5%	\$ \$ \$ \$	200,638 1,003,189 401,276 334,396 133,759
<ul> <li>√ Roadway Drain</li> <li>√ Illumination</li> <li>Special Draina</li> <li>√ Water</li> <li>√ Sewer</li> </ul>	nage ge Structures	Standard Internal Sy None Anticipated		acilties		15% 6% 0% 5% 2%	\$\$\$\$\$	1,003,189 401,276 334,396 133,759
<ul> <li>√ Roadway Drain</li> <li>√ Illumination</li> <li>Special Draina</li> <li>√ Water</li> <li>√ Sewer</li> <li>√ Basic Landsca</li> </ul>	nage ge Structures ping and Irrigation	Standard Internal Sy None Anticipated Minor Adjustments		acilties		15% 6% 0% 5% 2% 4%	\$ \$ \$ \$ \$	1,003,189 401,276 334,396
<ul> <li>√ Roadway Drain</li> <li>√ Illumination</li> <li>Special Draina</li> <li>√ Water</li> <li>√ Sewer</li> <li>√ Basic Landsca</li> <li>Miscellaneous:</li> </ul>	nage ge Structures ping and Irrigation	Standard Internal Sy None Anticipated Minor Adjustments Minor Adjustments			Inces	15% 6% 0% 5% 2%	\$ \$ \$ \$ \$	1,003,189 401,276 334,396 133,759
<ul> <li>√ Roadway Drain</li> <li>√ Illumination</li> <li>Special Draina</li> <li>√ Water</li> <li>√ Sewer</li> <li>√ Basic Landsca</li> <li>Miscellaneous:</li> </ul>	nage ge Structures ping and Irrigation	Standard Internal Sy None Anticipated Minor Adjustments Minor Adjustments			inces	15% 6% 0% 5% 2% 4% 0%	\$\$\$\$\$	1,003,189 401,276 334,396 133,759 267,517
<ul> <li>√ Roadway Drain</li> <li>√ Illumination</li> <li>Special Draina</li> <li>√ Water</li> <li>√ Sewer</li> <li>√ Basic Landsca</li> <li>Miscellaneous:</li> </ul>	nage ge Structures ping and Irrigation	Standard Internal Sy None Anticipated Minor Adjustments Minor Adjustments		Allowa		15% 6% 0% 2% 4% 0% Subtotal:	\$\$\$\$\$	1,003,189 401,276 334,396 133,759 267,517
<ul> <li>√ Roadway Drain</li> <li>√ Illumination</li> <li>Special Draina</li> <li>√ Water</li> <li>√ Sewer</li> <li>√ Basic Landsca</li> <li>Miscellaneous:</li> </ul>	nage ge Structures ping and Irrigation	Standard Internal Sy None Anticipated Minor Adjustments Minor Adjustments Cost Subtota	vstem	Allowa	nce	15% 6% 0% 2% 4% 0% Subtotal:	\$\$ \$\$ \$\$ \$\$ \$ <b>\$</b>	1,003,189 401,276 334,396 133,759 267,517 <b>2,675,172</b>
<ul> <li>√ Roadway Drain</li> <li>√ Illumination</li> <li>Special Draina</li> <li>√ Water</li> <li>√ Sewer</li> <li>√ Basic Landsca</li> <li>Miscellaneous:</li> </ul>	nage ge Structures ping and Irrigation	Standard Internal Sy None Anticipated Minor Adjustments Minor Adjustments Cost Subtota	Paving and	Allowa	nce	15% 6% 0% 2% 4% 0% Subtotal:	\$\$\$\$\$\$\$\$ \$ <b>\$</b>	1,003,189 401,276 334,396 133,759 267,517 <b>2,675,172</b> <b>9,363,102</b> 1,404,465
<ul> <li>√ Roadway Drain</li> <li>√ Illumination</li> <li>Special Draina</li> <li>√ Water</li> <li>√ Sewer</li> <li>√ Basic Landsca</li> <li>Miscellaneous:</li> </ul>	nage ge Structures ping and Irrigation	Standard Internal Sy None Anticipated Minor Adjustments Minor Adjustments Cost Subtota	Paving an uction Conti Mob	Allowa d Allowa ngency:	ince S	15% 6% 0% 2% 4% 0% Subtotal: Subtotal: 15%	\$ \$ \$ \$ \$ \$ <b>\$</b> \$	1,003,189 401,276 334,396 133,759 267,517 <b>2,675,172</b> <b>9,363,102</b>

Impact Fee Project Cost St Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 11,798,000
Engineering/Survey/Testing:		20%	\$ 2,359,600
<b>ROW/Easement Acquisition:</b>	NO ROW ACQUISITION	0%	\$ -
	Proje	ct Subtotal:	\$ 14,158,000
	\$ 2,831,600		

**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 Seguin

#### 2022 Roadway Impact Fee Study Update **Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated: 9/22/2022

<b>Project Informa</b>	tion:		Description:			Project No.		D-2
Name:	Walnut St (1)			This project consists of the				he
Limits:	King Street to SH 12	23		reconstruction of the existing				
Impact Fee Class:	3U_(60)			paveme	ent to	a three la	ane	undivided
Ultimate Class:	COL			collecto				
Length (If):	3280							
Service Area(s):	D							
	ruction Cost Pro	ojection						
No. Item Descripti			Quantity 14,578	Unit		it Price	<b>*</b>	Item Cost
				су	\$	15.00	\$	218,667
201 3" Type D Aspł			12,756	ton	\$	22.50	\$	287,000
	mestone Flexible Bas		14,213	sy	\$	56.00	\$	795,947
	zation (with Lime @ 2	27#/sy)	14,213	sy	\$	5.00	\$	71,067
501 4" Topsoil			2,916	sy	\$	4.00	\$	11,662
	lewalk + 10' Shared I	Jse Path	49,200	sf	\$	8.00	\$	393,600
701 Turn Lanes and	d Median Openings		0	sy	\$	83.50	\$	-
		P	Paving Constr	uction (	Cost S	Subtotal:	\$	1,777,942
Major Construction	Component Allow	ances**:						
Item Descripti	-	Notes			Allo	owance		Item Cost
√ Traffic Control		Construction Phase	Traffic Control			5%	\$	88,897
√ Pavement Mar	kings/Signs/Posts	Includes Striping/Sig	gns for Bicycle Fa	cilties		3%	\$	53,338
√ Roadway Drair	nage	Standard Internal Sy	ystem			15%	\$	266,691
√ Illumination	-					6%	\$	106,677
Special Draina	ge Structures	None Anticipated				0%	\$	-
√ Water	0	Minor Adjustments				5%	\$	88,897
√ Sewer		Minor Adjustments				2%	\$	35,559
√ Basic Landscar	ping and Irrigation					4%	\$	71,118
Miscellaneous:						0%		
**Allowances based on %	6 of Paving Construction 0	Cost Subtotal		Allowa	ince S	Subtotal:	\$	711,177
					-			
		<b>A</b> =	Paving and					2,489,119
		Constr	ruction Contin			15%	\$	373,368
				ilization		6%	\$	149,347
				ep ROW		5%	\$	124,456
			Construc	ction C	ost 🛛	OTAL:	\$	3,137,000
Impact Fee Proi	ect Cost Summa	irv						
					ΔΠα	owance		Item Cost
Item Descripti	on	Notes:						
Item Descripti Construction:	on	Notes:				-	\$	
Construction:		Notes:				-	<b>\$</b> \$	3,137,000
Item Descripti Construction: Engineering/Surve ROW/Easement Ac	y/Testing:	Notes:	1/2 ROW)		Ait		\$	<b>3,137,000</b> 627,400 313,700

**Impact Fee Project Cost TOTAL** 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 Seguin

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

\$

4.079.000

2022 Roadway Impact Fee Study Update **Conceptual Level Project Cost Projection**  Kimley-Horn and Associates, Inc.

updated: 9/22/2022

Project Informa	tion:		F	Project No.		D-3		
Name:	Walnut St (2)			This pro	oject o	consists	of t	he
Limits:	SH 123 to Baer Cre	ek Trail		reconst	ructio	on of the	exi	sting
Impact Fee Class:	4U_(80)			paveme	nt to	a four la	ne ı	Individed
Ultimate Class:	MAJC			major c	ollect	or.		
Length (If):	4215			- T				
Service Area(s):	D							
	truction Cost Pro	ojection	O	11	Lla			ltare Oa at
No. Item Descripti			Quantity	Unit		it Price	<b>^</b>	Item Cost
102 Unclassified St			29,037 26,695	cy ton	\$ \$	15.00 30.00	\$	435,550
202 4" Type D Aspl	\$	800,850						
302 15" Crushed Li	\$	1,999,783						
402 6" Lime Stabiliz	\$	142,842						
502 4" Topsoil	derre II.		5,152	sy	\$	4.00	\$	20,607
602 5' Concrete Sid			42,150	sf	\$	8.00	\$	337,200
702 Turn Lanes and	d Median Openings		0	sy	\$	105.00	\$	-
		P	aving Constr	uction C	ost a	subtotal:	\$	3,736,832
Major Construction	n Component Allowa	2222						
Item Descripti		Notes				owance		Item Cost
✓ Traffic Control		Construction Phase	Traffic Control			5%	\$	186,842
	kings/Signs/Posts	Includes Striping/Sig		ciltios		3%		112,105
<ul> <li>√ Roadway Drain</li> </ul>		Standard Internal Sy		cilles		15%		560,525
√ Illumination	lage	Standard Internal Sy	stem			6%		224,210
Special Draina	ao Structuros	None Anticipated				0%		224,210
√ Water	ge Silucioles	None Anticipated				0 % 5%		196.940
Sewer		Minor Adjustments				5% 2%		186,842
	ning and Irrigation	Minor Adjustments				2% 4%		74,737
Miscellaneous:	ping and Irrigation					4% 0%		149,473
	6 of Paving Construction 0	Soot Subtotal		Allowa	ncos	Subtotal:	\$ \$	1,494,733
Allowances based on 7		JUST SUDIOIAT		Allowa			φ	1,494,755
			Paving and	d Allowa	nce S	Subtotal:	\$	5,231,564
		Constr	uction Conti			15%		784,735
				ilization		6%		313,894
				ep ROW		5%		261,578
			Construc	tion C	ost 1	OTAL:	\$	6,592,000
						•	Ŧ	-,,
Impact Fee Pro	ect Cost Summa	iry						
Item Descript	on	Notes:			Allo	owance		Item Cost
Construction:						-	\$	6,592,000
Engineering/Surve	y/Testing:					20%		1,318,400
ROW/Easement Ac		Existing Alignment (	1/2 ROW)			10%		659,200
				Proie	ct Su	ubtotal:	\$	8,570,000
		1.	-,					

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 Seguin

**Impact Fee Project Cost TOTAL** 

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

\$

8.570.000

Kimley-Horn and Associates, Inc.

updated: 9/22/2022

	ect Informat			Description:			Project No.		D-4	
Nam		Meadow Lake Dr			This project consists of the reconstruction of the existing					
Limit		Stockdale Highway	to SH 123 Bypass							
-	ct Fee Class:						a three la	ane (	Individed	
	nate Class:	COL			collecto	r.				
-	th (lf):	3420								
Serv	ice Area(s):	D								
Roa	dway Const	ruction Cost Pre	ajection							
	Item Description		ojection	Quantity	Unit	Un	it Price		Item Cost	
	Unclassified St			15,200	су	\$	15.00	\$	228,000	
	3" Type D Asph			13,300	ton	\$	22.50	\$	299,250	
	12" Crushed Limestone Flexible Base Material 14,820 sy							\$	829,920	
401								\$	74,100	
	4" Topsoil		3,040	sy	\$	4.00	\$	12,160		
601	5' Concrete Sid	ewalk + 10' Shared	Use Path	51,300	sf	\$	8.00	\$	410,400	
701	Turn Lanes and Median Openings   0   s						83.50	\$	-	
		Component Allow	ances**:	aving Consti				Ť	1,853,830	
	Item Description	on	Notes			Allo	owance	<b>^</b>	Item Cost	
	Traffic Control		Construction Phase				5%	\$	92,692	
		kings/Signs/Posts	Includes Striping/Sig	-	acilties		3%		55,615	
,	Roadway Drain	age	Standard Internal Sy	stem			15%		278,075	
		na Chruchuraa					6% 0%	-	111,230	
	Special Draina	je Structures	None Anticipated				0%		-	
	Water Sewer		Minor Adjustments				5% 2%		92,692	
· · ·		oing and Irrigation	Minor Adjustments				2% 4%	\$ \$	37,077 74,153	
	Miscellaneous:	and inigation					4 % 0%	φ \$		
		of Paving Construction	Cost Subtotal		Allowa	nce S	Subtotal:	\$	741,532	
7 (110)					,		- and to tall	Ť	,	
				Paving an	d Allowa	nce S	Subtotal:	\$	2,595,362	
			Constr	uction Conti	ngency:		15%	\$	389,304	
					oilization		6%	\$	155,722	
					ep ROW		5%	\$	129,768	
•				Construe	ction C	net T		\$	3,271,000	
	Construction Cost TOTAL: \$ 3,271,000									

Impact Fee Project Cost Sum Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 3,271,000
Engineering/Survey/Testing:		20%	\$ 654,200
<b>ROW/Easement Acquisition:</b>	Existing Alignment (1/2 ROW)	10%	\$ 327,100
	Pro	ect Subtotal:	\$ 4,253,000
	Impact Fee Project	Cost TOTAL	\$ 4,253,000

**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 Seguin

#### 2022 Roadway Impact Fee Study Update **Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

updated: 9/22/2022

Project Information:Description:Project NoName:Heideke Street (2)This project consistsLimits:Kingsbury Street to IH 10reconstruction of theImpact Fee Class:3U_(60)pavement to a threeUltimate Class:COLcollector.Length (If):6505DService Area(s):DRoadway Construction Cost Projection								sting
Roadway Constr	uction Cost Pro	iection						
No. Item Description			Quantity	Unit	Un	it Price		Item Cost
101 Unclassified Str			28,911	су	\$	15.00	\$	433,667
201 3" Type D Asph			25,297	ton	\$	22.50	\$	569,188
	01 12" Crushed Limestone Flexible Base Material 28,188 sy \$							1,578,547
	ation (with Lime @ 2		28,188	sy	\$	5.00	\$	140,942
501 4" Topsoil	1 4" Topsoil 5,782 sy \$							23,129
601 5' Concrete Side	01 5' Concrete Sidewalk + 10' Shared Use Path 97,575							780,600
701 Turn Lanes and							\$	-
		Р	aving Constr	uction C	Cost S	Subtotal:	\$	3,526,071
			-					
Major Construction	<b>Component Allowa</b>	ances**:						
Item Description	on	Notes			Allo	owance		Item Cost
√ Traffic Control		Construction Phase	Traffic Control					176,304
√ Pavement Mark	ings/Signs/Posts	Includes Striping/Sig	ns for Bicycle Fa	acilties		3%		105,782
√ Roadway Draina	age	Standard Internal Sy	vstem			15%	\$	528,911
1000000000000000000000000000000000000						6%	\$	211,564
Special Drainag	e Structures	None Anticipated				0%	\$	-
√ Water		Minor Adjustments				5%	\$	176,304
√ Sewer		Minor Adjustments				2%	\$	70,521
√ Basic Landscap	ing and Irrigation					4%	\$	141,043
Miscellaneous:	0 0					0%	\$	-
**Allowances based on %	of Paving Construction C	ost Subtotal		Allowa	nce S	Subtotal:	\$	1,410,429
		-	Paving and				\$	4,936,500
		Constr	uction Conti			15%	\$	740,475
				ilization		6%	\$	296,190
				ep ROW		5%	\$	246,825
			Construc	ction C	ost 1	OTAL:	\$	6,220,000
Impost Ess During								
Impact Fee Proje		ltem Orat						
Item Descriptio	n	Notes:			Allo	owance	*	Item Cost
Construction:						- 20%	<b>\$</b> \$	6,220,000
	Engineering/Survey/Testing:							1,244,000
ROW/Easement Acc	uisition:	Existing Alignment (	1/2 ROW)			10%	\$	622,000

**Impact Fee Project Cost TOTAL** 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 Seguin

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

\$

\$

8,086,000

8.086.000

**Project Subtotal:** 

Kimley-Horn and Associates, Inc.

updated:

9/22/2022

00//00	cpluar Lev		Tojection				upuateu.		9/22/2022
Proje	ct Informat	tion:		Description:			Project No.		D-6
Name:		FM 466 (1)			This pro	oject	consists	of tl	he
Limits:		SH 123 Bypass to 9	50' S of Joe Carillo	o Blvd			on of the		
Impact	Fee Class:	4U_(80)							Individed
Ultimat	e Class:	MAJC			major c				
Length	(lf):	5345			-				
Service	e Area(s):	D							
Roady	way Const	ruction Cost Pro	Diection						
	em Descripti		Sjootion	Quantity	Unit	Un	it Price		Item Cost
		reet Excavation		36,821	су	\$	15.00	\$	552,317
	Type D Asph			33,852	ton	\$	30.00	\$	1,015,550
	2 15" Crushed Limestone Flexible Base Material 36,227 sy \$							\$	2,535,906
	2 6" Lime Stabilization (with Lime @ 27#/sy) 36,227 sy S							\$	181,136
	Topsoil			6,533	sy	\$	4.00	\$	26,131
	Concrete Sid			53,450	sf	\$ \$	8.00	\$	427,600
702 Tu	Turn Lanes and Median Openings 0						105.00	\$	-
			P	aving Const	ruction C	Cost S	Subtotal:	\$	4,738,639
Maian	Dowo(	Common on the Allow							
		Component Allow	Notes				owance		Item Cost
	em Descriptio	011		<b>T</b> (" <b>O</b> ( )				¢	
	affic Control	kings/Signs/Posts	Construction Phase				5% 3%	Ŧ	236,932 142,159
	badway Drain	5 5	Includes Striping/Sig Standard Internal Sy		aclities		3% 15%		710,796
,	umination	aye	Standard Internal Sy	/stem			6%		284,318
	pecial Draina	no Structuros	None Anticipated				0 <i>%</i>		204,310
	ater		None Anticipated				0% 5%		-
	ewer		Minor Adjustments				5% 2%		236,932 94,773
		oing and Irrigation	Minor Adjustments				2% 4%	э \$	189,546
	iscellaneous:	and imgation					4 % 0%	\$	109,040
		of Paving Construction (	Cost Subtota		Allowa	nce \$	Subtotal:	\$	1,895,456
		g						Ť	.,,
				Paving an			Subtotal:		6,634,095
			Constr	uction Conti			15%	\$	995,114
					oilization		6%	\$	398,046
				Pr	ep ROW		5%	\$	331,705
				Constru	ction C	ost <sup>-</sup>	FOTAL:	\$	8,359,000
									· ·
Impac	t Fee Proj	ect Cost Summa	ary						
	<b>D</b>		- INI 4						

Impact Fee Project Cost St Item Description	Notes:	Allowance	Item Cost
Construction:			\$ 8,359,000
Engineering/Survey/Testing:		20%	\$ 1,671,800
<b>ROW/Easement Acquisition:</b>	NO ROW ACQUISITION	0%	\$ -
	Proje	ct Subtotal:	\$ 10,031,000
	Impact Fee Project Cost TOTAL (1	<b>TxDOT 20%)</b>	\$ 2,006,200

**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 Seguin

#### 2022 Roadway Impact Fee Study Update Conceptual Level Project Cost Projection

Kimley-Horn and Associates, Inc.

updated: 9/22/2022

<b>Project Informa</b>	tion:		Description:			Project No.		<b>D-7</b>						
Name:	FM 466 (2)					consists								
Limits:	950' S of Joe Carillo	Blvd to 330' S of I	Mueller Lane	reconst	ructi	on of the	exis	sting						
Impact Fee Class:	4U_(80)			paveme	nt to	a four la	ne u	Individed						
Ultimate Class:	MAJC			major c	ollec	tor.								
Length (If):	1570													
Service Area(s):	D													
	ruction Cost Pro	ojection												
No. Item Descripti			Quantity	Unit		it Price		Item Cost						
102 Unclassified St			10,816	су	\$	15.00	\$	162,233						
202 4" Type D Aspl		9,943	ton	\$	30.00	\$	298,300							
	mestone Flexible Bas		10,641	sy	\$	70.00	\$	744,878						
	zation (with Lime @ 2	10,641	sy	\$	5.00	\$	53,206							
502 4" Topsoil			1,919	sy	\$	4.00	\$	7,676						
602 5' Concrete Sid			15,700	sf	\$	8.00	\$	125,600						
702 Turn Lanes and	d Median Openings		0	sy	\$	105.00	\$	-						
		P	aving Const	ruction C	Cost	Subtotal:	\$	1,391,892						
-	Component Allow				1									
Item Descripti	on	Notes			All	owance		Item Cost						
√ Traffic Control		Construction Phase				5%		69,595						
	kings/Signs/Posts	Includes Striping/Sig		acilties		3%		41,757						
✓ Roadway Drair	hage	Standard Internal Sy	vstem			15%		208,784						
1000000000000000000000000000000000000	_					6%		83,514						
Special Draina	ge Structures	None Anticipated				0%		-						
√ Water		Minor Adjustments				5%		69,595						
√ Sewer		Minor Adjustments				2%	•	27,838						
	ping and Irrigation					4%	\$	55,676						
Miscellaneous:						0%		-						
**Allowances based on % of Paving Construction Cost Subtotal Allowance Subtotal: \$ 556														
					nce	Subtotal	\$	1,948,649						
			Pavind an											
		Constr												
		Constr	uction Conti	ingency:		15%	\$	292,297						
		Constr	uction Conti Mot	ingency: oilization		15% 6%	\$ \$	292,297 116,919						
		Constr	uction Conti Mot	ingency: bilization rep ROW		15% 6% 5%	\$ \$	292,297 116,919 97,432 <b>2,456,000</b>						

Impact Fee Project Cost St			
Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 2,456,000
Engineering/Survey/Testing:		20%	\$ 491,200
<b>ROW/Easement Acquisition:</b>	NO ROW ACQUISITION	0%	\$ -
	Proje	ct Subtotal:	\$ 2,948,000
	Impact Fee Project Cost TOTAL (1	<b>FxDOT 20%)</b>	\$ 589,600

**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 Seguin

# 2022 Roadway Impact Fee Study Update **Conceptual Level Project Cost Projection**

Kimley-Horn and Associates, Inc.

Col	nceptual Lev	updated:		9/22/2022					
Pro	ject Informa	tion:		Description:			Project No.		D-8
Nam Limi Impa	e:	FM 466 (3) 100' S of Kimbrough	Road to Hollub La		reconst	oject ructi ent to	consists on of the a six lane	exis	sting
Leng Serv	gth (lf): rice Area(s):	830 D			pantra.	<b>y</b> .			
	Item Descripti	truction Cost Pro	jection	Quantity	Unit	Ur	it Price		Item Cost
	107 Unclassified Street Excavation 7,747 cy \$ 15.0								116,200
-	4" Type D Aspl			6,824	ton	\$	30.00	\$ \$	204,733
	15" Crushed Li	sy	\$	70.00	\$	529,356			
		sy	\$	5.00	\$	37,811			
							4.00	\$	29,511
	12' Shared Use	e Path		19,920	sy sf	\$ \$	8.00	\$	159,360
707	Turn Lanes and	d Median Openings		872	sy	\$	105.00	\$	91,552
Paving Construction Cost Subtotal: \$								1,168,523	
Majo	or Construction	n Component Allowa	ances**:						
Majo	Item Descripti		ances**: Notes			All	owance		Item Cost
Majo √	Item Descripti Traffic Control	on		Traffic Control		All	5%	-	58,426
	Item Descripti Traffic Control Pavement Mar	on kings/Signs/Posts	Notes		cilties	All	5% 3%	\$	58,426 35,056
	Item Descripti Traffic Control Pavement Mark Roadway Drain	on kings/Signs/Posts	Notes Construction Phase	ins for Bicycle Fa	cilties	All	5% 3% 15%	\$ \$	58,426 35,056 175,278
V V	Item Descripti Traffic Control Pavement Marl Roadway Drain Illumination	on kings/Signs/Posts nage	Notes Construction Phase Includes Striping/Sig	ins for Bicycle Fa	cilties	All	5% 3% 15% 6%	\$ \$ \$	58,426 35,056
	Item Descripti Traffic Control Pavement Mark Roadway Drain	on kings/Signs/Posts nage	Notes Construction Phase Includes Striping/Sig	ins for Bicycle Fa	cilties	All	5% 3% 15% 6% 0%	\$ \$ \$ \$ \$	58,426 35,056 175,278 70,111 -
	Item Descripti Traffic Control Pavement Marl Roadway Drain Illumination	on kings/Signs/Posts nage	Notes Construction Phase Includes Striping/Sig Standard Internal Sy	ins for Bicycle Fa	cilties	All	5% 3% 15% 6% 0% 5%	\$ \$ \$	58,426 35,056 175,278
$\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$	Item Descripti Traffic Control Pavement Marl Roadway Drain Illumination Special Drainag Water Sewer	on kings/Signs/Posts nage ge Structures	Notes Construction Phase Includes Striping/Sig Standard Internal Sy None Anticipated	ins for Bicycle Fa	cilties	AII	5% 3% 15% 6% 0% 5% 2%	\$ \$ \$ \$ \$	58,426 35,056 175,278 70,111 - 58,426 23,370
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	Item Descripti Traffic Control Pavement Marl Roadway Drain Illumination Special Drainag Water Sewer Basic Landsca	on kings/Signs/Posts nage ge Structures ping and Irrigation	Notes           Construction Phase           Includes Striping/Sig           Standard Internal Sy           None Anticipated           Minor Adjustments	ins for Bicycle Fa	cilties	All	5% 3% 15% 6% 0% 5% 2% 4%	\$ \$ \$ \$ \$	58,426 35,056 175,278 70,111 - 58,426
$\begin{array}{c} \checkmark \\ \checkmark $	Item Descripti Traffic Control Pavement Marl Roadway Drain Illumination Special Drainag Water Sewer Basic Landsca Miscellaneous:	on kings/Signs/Posts nage ge Structures ping and Irrigation	Notes Construction Phase Includes Striping/Sig Standard Internal Sy None Anticipated Minor Adjustments Minor Adjustments	ins for Bicycle Fa			5% 3% 15% 6% 2% 4% 0%	\$ \$ \$ \$ \$	58,426 35,056 175,278 70,111 - 58,426 23,370 46,741 -
$\begin{array}{c} \checkmark\\ $	Item Descripti Traffic Control Pavement Marl Roadway Drain Illumination Special Drainag Water Sewer Basic Landsca Miscellaneous:	on kings/Signs/Posts nage ge Structures ping and Irrigation	Notes Construction Phase Includes Striping/Sig Standard Internal Sy None Anticipated Minor Adjustments Minor Adjustments	ins for Bicycle Fa			5% 3% 15% 6% 0% 5% 2% 4%	\$ \$ \$ \$ \$	58,426 35,056 175,278 70,111 - 58,426 23,370
$\begin{array}{c} \checkmark \\ \checkmark $	Item Descripti Traffic Control Pavement Marl Roadway Drain Illumination Special Drainag Water Sewer Basic Landsca Miscellaneous:	on kings/Signs/Posts nage ge Structures ping and Irrigation	Notes Construction Phase Includes Striping/Sig Standard Internal Sy None Anticipated Minor Adjustments Minor Adjustments	ins for Bicycle Fa	Allowa	ince	5% 3% 15% 6% 0% 2% 4% 0% Subtotal:	\$\$ \$\$ \$\$ \$\$ \$\$ \$\$ <b>\$</b>	58,426 35,056 175,278 70,111 - 58,426 23,370 46,741 - <b>467,409</b>
$\begin{array}{c} \checkmark \\ \checkmark $	Item Descripti Traffic Control Pavement Marl Roadway Drain Illumination Special Drainag Water Sewer Basic Landsca Miscellaneous:	on kings/Signs/Posts nage ge Structures ping and Irrigation	Notes Construction Phase Includes Striping/Sig Standard Internal Sy None Anticipated Minor Adjustments Minor Adjustments	ns for Bicycle Fa stem Paving and	Allowa	ince	5% 3% 15% 6% 0% 5% 2% 4% 0% Subtotal:	\$\$\$\$\$\$\$\$	58,426 35,056 175,278 70,111 - 58,426 23,370 46,741 - <b>467,409</b> <b>1,635,932</b>
$\begin{array}{c} \checkmark \\ \checkmark $	Item Descripti Traffic Control Pavement Marl Roadway Drain Illumination Special Drainag Water Sewer Basic Landsca Miscellaneous:	on kings/Signs/Posts nage ge Structures ping and Irrigation	Notes Construction Phase Includes Striping/Sig Standard Internal Sy None Anticipated Minor Adjustments Minor Adjustments	Paving and uction Contin	Allowa d Allowa ngency:		5% 3% 15% 6% 0% 5% 2% 4% 0% Subtotal: Subtotal: 15%	\$ \$ \$ \$ \$ \$ \$ \$ <b>\$</b> \$	58,426 35,056 175,278 70,111 - 58,426 23,370 46,741 - <b>467,409</b> <b>1,635,932</b> 245,390
$\begin{array}{c} \checkmark\\ $	Item Descripti Traffic Control Pavement Marl Roadway Drain Illumination Special Drainag Water Sewer Basic Landsca Miscellaneous:	on kings/Signs/Posts nage ge Structures ping and Irrigation	Notes Construction Phase Includes Striping/Sig Standard Internal Sy None Anticipated Minor Adjustments Minor Adjustments	Paving and uction Contin Mob	Allowa d Allowa ngency: ilization		5% 3% 15% 6% 0% 2% 4% 0% Subtotal: <u>15%</u> 6%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	58,426 35,056 175,278 70,111 - 58,426 23,370 46,741 - 467,409 1,635,932 245,390 98,156
$\begin{array}{c} \checkmark \\ \checkmark $	Item Descripti Traffic Control Pavement Marl Roadway Drain Illumination Special Drainag Water Sewer Basic Landsca Miscellaneous:	on kings/Signs/Posts nage ge Structures ping and Irrigation	Notes Construction Phase Includes Striping/Sig Standard Internal Sy None Anticipated Minor Adjustments Minor Adjustments	Paving and ruction Contin Mob	Allowa d Allowa ngency: ilization ep ROW		5% 3% 15% 6% 0% 2% 4% 0% Subtotal: <u>5%</u> 5%	\$ \$ \$ \$ \$ \$ \$ \$ <b>\$</b> \$	58,426 35,056 175,278 70,111 - 58,426 23,370 46,741 - 467,409 1,635,932 245,390 98,156 81,797
$\begin{array}{c} \checkmark\\ $	Item Descripti Traffic Control Pavement Marl Roadway Drain Illumination Special Drainag Water Sewer Basic Landsca Miscellaneous:	on kings/Signs/Posts nage ge Structures ping and Irrigation	Notes Construction Phase Includes Striping/Sig Standard Internal Sy None Anticipated Minor Adjustments Minor Adjustments	Paving and uction Contin Mob	Allowa d Allowa ngency: ilization ep ROW		5% 3% 15% 6% 0% 2% 4% 0% Subtotal: <u>5%</u> 5%	\$ \$ \$ \$ \$ \$ \$ \$ <b>\$</b> \$ \$ \$ \$	58,426 35,056 175,278 70,111 - 58,426 23,370 46,741 - 467,409 1,635,932 245,390 98,156

Impact Fee Project Cost St Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 2,062,000
Engineering/Survey/Testing:		20%	\$ 412,400
<b>ROW/Easement Acquisition:</b>	NO ROW ACQUISITION	0%	\$ -
	Proje	ct Subtotal:	\$ 2,475,000
	Impact Fee Project Cost TOTAL (1	<b>xDOT 20%)</b>	\$ 495,000

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 Seguin



2022 Roadway Impact Fee Study Update City of Seguin, Texas September 2022



# B. CIP Service Units of Supply

#### Service Area A

001 1100	AICUA											
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	Cordova Road	1,150' E of SH 46 to SH 123	3.23	4	ARTE	474	100%	750	9676	1,529	8,147	\$ 41,220,000.00
A-2	Outer Loop (1)	FM 1620 to SH 46	1.06	6	PKWY	0	100%	925	5886	0	5886	\$ 3,695,600.00
A-3	Outer Loop (2)	SH 46 to Rudeloff Road	0.71	6	PKWY	0	100%	925	3958	0	3958	\$ 13,477,000.00
A-4	Pecan Parkway (1)	Rudeloff Road to City Limits	0.63	6	PKWY	0	100%	925	3469	0	3,469	\$ 9,334,000.00
A-5	Rudeloff Road (1)	Ridge Crest Drive to 1,320' N of FM 78	0.70	4	MAJC	300	50%	575	1612	210	1,402	\$ 3,762,000.00
A-6	Rudeloff Road (2)	1,320' N of FM 78 to FM 78	0.23	4	MAJC	30	50%	575	531	7	524	\$ 1,240,500.00
A-7	Rudeloff Road (3)	Ridge Crest Drive to SH 46	0.69	4	MAJC	298	100%	575	1583	205	1,378	\$ 7,391,000.00
A-8	Rudeloff Road (4)	SH 46 to Huber Road	1.52	4	ARTE	198	100%	700	4258	301	3,957	\$ 19,502,000.00
A-9	Rudeloff Road (5)	Huber Road to 4156' E of Huber Road	0.96	4	ARTE	0	100%	700	2691	0	2,691	\$ 12,596,000.00
A-10	Rudeloff Road (6)	6126' E of Huber Road to SH 123	0.27	4	ARTE	0	100%	700	769	0	769	\$ 3,600,000.00
A-11	Strempel Road (1)	Rudeloff Road to SH 123	0.84	4	ARTE	0	100%	750	2526	0	2,526	\$ 10,384,000.00
A-12	Huber Road (1)	IH 10 to Rudeloff Road	1.30	4	ARTE	178	100%	750	3895	231	3,664	\$ 15,669,000.00
A-13	Future Collector I	SH 46 to 775' E of Coral Way	0.82	3	COL	178	100%	525	1296	146	1,150	\$ 5,521,000.00
A-14	Pecan Parkway (2)	Cordova Road to 1,750' N of Cordova Road	0.33	3	COL	0	100%	525	522	0	522	\$ 2,177,000.00
A-15	Huber Road (2)	Rudeloff Road to City Limits	0.74	3	COL	0	100%	525	1165	0	1,165	\$ 4,962,000.00
A-16	Austin Street / BUS SH 123	IH 10 Frontage Road to SH 123 Bypass	1.28	4	ARTE	994	50%	750	3852	1,276	2,576	\$ 1,430,600.00
A-17	Link Road	SH 123 to City Limits	0.73	4	MAJC	122	50%	575	1673	89	1,584	\$ 3,904,000.00
SUBTOTAL									49,362	3,994	45,368	\$ 159,865,700.00
A-S1	Outer Loop & SH 46	Future Grade Separated					100%	-	-	-	-	\$ 3,000,000
A-S2	SH 123 & Cordova Road	Turn Lane Installation			CTION IMPROVEME	NTS	50%	-	-	-	-	\$ 300,000
A-S3	Huber Road & Rudeloff Road	Intersection Improvements		ILKSE			100%	-	-	-	-	\$ 750,000
A-S4	Rudeloff Road & Pecan Parkway	Signal Installation					100%	-	-	-	-	\$ 500,000
SUBTOTAL												\$ 4,550,000

2022 Roadway Impact Fee Study Update Cost Per Service Area \$ 10,750

TOTAL COST IN SERVICE AREA A \$ 164,426,450

9/22/2022

#### Service Area B

VEH-MI VEH-MI VEH-MI EXCESS PEAK % IN IMPACT FEE TOTAL PROJECT SUPPLY TOTAL CAPACITY Project ID ENGTH APACITY ROADWAY LIMITS LANES HOUR SERVICE # (MI) CLASSIFICATION PK-HR PK-HR DEMAND PK-HR COST VOLUME AREA PER LN TOTAL PK-HR VEH-MI FM 20 (1) SH 123 to 1067' E of SH 123 MAJC B-1 0.41 4 156 100% 575 947 64 883 816,600.00 B-2 FM 20 (2) 1067' E of SH 123 to City Limits 1.18 4 MAJC 156 50% 575 2705 183 2522 1,165,500.00 B-3 SH 123 Bypass SH 123 to IH 10 1.65 6 PKWY 1,100 100% 925 9145 1813 7332 5,185,800.00 B-4 Strempel Road (2) SH 123 to SH 123 Bypass 0.47 ARTE 100% 1401 4 50 750 23 1,378 5,635,000.00 B-5 Strempel Road (3) SH 123 Bypass to 825' E of SH 123 Bypass 0.16 MAJC 50 100% 575 357 349 1.668.000.00 4 8 B-6 Martindale Rd (1) 825' E of SH 123 Bypass to 170' W of Parkwood Rd 0.17 4 MAJC 0 100% 575 386 0 386 1,840,000.00 B-7 170' W of Parkwood Rd to 160' E of Almond Crk MAJC 50 425 Martindale Rd (2) 0.18 4 100% 575 9 416 1,830,000.00 B-8 Martindale Rd (3) 160' E of Almond Crk to Martindale Rd 0.07 4 MAJC 0 100% 575 150 0 150 719,000.00 B-9 Martindale Rd (4) 156' NE of Twin Oak Road to 1300' NE of Twin Oak Road MAJC 120 0.23 4 50% 575 529 28 501 1,236,000.00 B-10 Future Major Collector C 1300' NE of Twin Oak Road to FM 20 0.60 4 MAJC 100% 575 1370 1,370 6,536,000.00 0 0 B-11 Heideke Street (1) SH 123 to IH 10 Frontage Road 0.33 4 MAJC 120 100% 575 769 40 729 3,590,000.00 B-12 SH 123 to 2,970' E of SH 123 MAJC 122 6,029,000.00 Glenewinkel Road 0.56 4 100% 575 1292 69 1,223 B-13 Laubach Road SH 123 to 2,000' E of SH 123 0.38 4 ARTE 60 100% 700 1061 23 1,038 4.859.000.00 B-14 Austin Street / BUS SH 123 IH 10 Frontage Road to SH 123 Bypass 1.28 4 ARTE 994 50% 750 3852 1,276 2,576 1,430,600.00 B-15 Outer Loop (3) 1,300' W of Heinemeyer Road to Boenig Road 0.64 6 PKWY 82 100% 925 3548 2,347,000.00 52 3.496 s. SUBTOTAL 27.937 3.588 24.349 44.887.500.00 \$ B-S1 SH 123 & Cordova Road Turn Lane Installation INTERSECTION IMPROVEMENTS 50% 300,000 SUBTOTAL 300,000

2022 Roadway Impact Fee Study Update Cost Per Service Area \$ 10,750

TOTAL COST IN SERVICE AREA B \$ 45,198,250

9/22/2022

#### Service Area C

9/22/2022

							a/ 191	VEH-MI	VEH-MI	VEH-MI	EXCESS		
Project ID	DO ADM(A)(		LENGTH	1	IMPACT FEE	PEAK	% IN	CAPACITY	SUPPLY	TOTAL	CAPACITY	TOTAL	PROJECT
#	ROADWAY	LIMITS	(MI)	LANES	CLASSIFICATION	HOUR	SERVICE AREA	PK-HR	PK-HR	DEMAND	PK-HR	С	OST
						VOLUME	AREA	PER LN	TOTAL	PK-HR	VEH-MI		
C-1	Austin Street	Kingsbury Street to IH 10 Frontage Road	1.27	4	ARTE	292	50%	750	3813	371	3,442	\$ 1	,415,800.00
C-2	Fleming Drive	FM 78 to Kingsbury Street	0.67	4	ARTE	136	100%	750	2017	91	1926	\$8	,115,000.00
C-3	Vaughn Ave, Hidalgo St	US 90 ALTE to FM 78	1.08	3	COL	168	100%	525	1702	182	1520	\$ 7	,748,000.00
C-4	C H Matthies Jr	IH 10 Frontage Road to Lawson Street	0.78	3	COL	136	100%	525	1229	106	1123	\$ 5	,122,000.00
C-5	Lawson Street	C H Matthies Jr to Kingsbury Street	0.16	3	COL	136	100%	525	246	21	225	\$ 1	,026,000.00
C-6	B and B Road (1)	Inner Loop to 930' S of MI Mountain	0.36	3	COL	14	100%	525	570	5	565	\$ 2	,376,000.00
C-7	Rodeo Run	3,615' W of SH 46 to SH 46	0.68	3	COL	0	100%	525	1077	0	1,077	\$ 4	,587,000.00
C-8	Huber Road (3)	IH 10 Frontage Road to FM 78	0.13	4	ARTE	136	100%	750	386	18	368	\$ 1	,555,000.00
C-9	B and B Road (2)	930' S of MI Mountain to Volunteer Street	0.34	3	COL	0	100%	525	538	0	538	\$ 2	,294,000.00
SUBTOTAL	_								11,578	794	10,784	\$ 34	,238,800.00
C-S1	Stockdale Highway & Tor Drive	Intersection Improvements			CTION IMPROVEME	NTS	50%	-	-	-	-	\$	375,000
C-S2	SH 123 & Nelda Street / Guadalupe Street	Intersection Improvements		INTERSE		NT O	50%	-	-	-	-	\$	375,000
SUBTOTAL												\$	750,000
2022 Beadway Impact Fee Study Indate Cent Per Service Area - \$								¢	10 750				

2022 Roadway Impact Fee Study Update Cost Per Service Area \$ 10,750

TOTAL COST IN SERVICE AREA C \$ 34,999,550

#### Service Area D

9/22/2022

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	тот	AL PROJECT COST
D-1	Austin Street	Kingsbury Street to IH 10	1.27	4	ARTE	292	50%	750	3813	371	3,442	\$	1,415,800.00
D-2	Walnut St (1)	King Street to SH 123	0.62	3	COL	394	100%	525	978	245	733	\$	4,079,000.00
D-3	Walnut St (2)	SH 123 to Baer Creek Trail	0.80	4	MAJC	394	100%	575	1836	315	1521	\$	8,570,000.00
D-4	Meadow Lake Dr	Stockdale Highway to SH 123 Bypass	0.65	3	COL	186	100%	525	1020	120	900	\$	4,253,000.00
D-5	Heideke Street (2)	Kingsbury Street to IH 10	1.23	3	COL	288	100%	525	1940	355	1585	\$	8,086,000.00
D-6	FM 466 (1)	SH 123 Bypass to 950' S of Joe Carillo Blvd	1.01	4	MAJC	652	100%	575	2328	660	1668	\$	2,006,200.00
D-7	FM 466 (2)	950' S of Joe Carillo Blvd to 330' S of Mueller Lane	0.30	4	MAJC	652	50%	575	684	194	490	\$	294,800.00
D-8	FM 466 (3)	100' S of Kimbrough Road to Hollub Lane	0.16	6	PKWY	652	50%	925	872	102	770	\$	247,500.00
SUBTOTAL 13,471 2,362 11,109											\$	28,952,300.00	
D-S1	Eastwood Drive & Preston Drive	Realignment					100%	-	-	-	-	\$	1,000,000
D-S2	King Street & Gloria Drive	Turn Lane Installation		INTERSECTION IMPROVEMENTS				-	-	-	-	\$	600,000
D-S3	Stockdale Highway & Tor Drive	Intersection Improvements						-	-	-	-	\$	375,000
D-S4	SH 123 & Nelda Street / Guadalupe Street	Intersection Improvements					50%	-	-	-	-	\$	375,000
SUBTOTAL													2,350,000

2022 Roadway Impact Fee Study Update Cost Per Service Area \$ 10,750

TOTAL COST IN SERVICE AREA D \$ 31,313,050