



## Water, Wastewater & Roadway 2015 Impact Fee Study Draft



JUNE 16, 2015 DRAFT REPORT PREPARED BY: THE CITY OF KILLEEN AND KIMLEY-HORN AND ASSOCATES, INC.



**Kimley Worn** 

#### FORWARD

#### Overview and Background of Texas Impact Fees

Impact Fees are a mechanism for funding the public infrastructure necessitated by new development. Across the country, they are used to fund police and fire facilities, parks, schools, roads and utilities. In Texas, the legislature has allowed their use for water, wastewater, roadway and drainage facilities. The process for developing impact fees is defined in Texas Local Government Code Chapter 395 (see Chapter 4). Chapter 395 was put into effect on June 20, 1987 and applies to water, wastewater, roadway, and drainage infrastructure. Currently, the City of Killeen does not have an impact fee.

In the most basic terms, impact fees are a means to recover the incremental cost of the impact of each new unit of development creating new infrastructure needs. In other words, an impact fee is a mechanism to recover infrastructure costs required to serve new growth. Each impact fee is a one-time fee assessed to new development and is the roughly proportionate share of water, wastewater, and roadway infrastructure required to support the new demands of the new development. Impact fees are designed to determine a maximum fee that would represent growth paying for growth are assessed based on the amount of potential water used, wastewater discharged, or traffic generated. The maximum impact fee per service unit is derived from a 10-year land use plan and a 10-year impact fee capital improvement plan.

Without contribution from new development, such as the collection of impact fees, the City must rely entirely on other funding sources.

By State statue, the City must complete an impact fee study to determine the maximum impact fee per unit of new development chargeable as allowed by the state law. This determination is not a recommendation; the actual fee amount ultimately assessed is at the discretion of the City Council, so long as it does not exceed the maximum assessable allowed by law. The study forecasts 10 years into the future in order to project new growth and corresponding capacity needs, as required by state law. The study (and corresponding maximum fees) must be restudied at least every five years. However, the study can be updated at any time to accommodate significant changes in any of the key variables of the impact fee equation.

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CHAPTER 1 - LAND USE ASSUMPTIONS

## CITY OF KILLEEN, TEXAS LAND USE ASSUMPTIONS FOR 2015 IMPACT FEE STUDY



## 2015 Prepared for the City of Killeen

Prepared by:

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# City of Killeen 2015 Land Use Assumptions

AS PREPARED FOR THE CITY OF KILLEEN, TEXAS

#### 1.1 PURPOSE

Chapter 395 (see Chapter 4) of the Texas Local Government Code describes the procedure Texas political subdivisions must follow in order to assess impact fees for new development. The first step required in updating impact fees is the development of Land Use Assumptions. These Land Use Assumptions, including both population and employment estimates, form the basis for the development of impact fee Capital Improvement Plans for roadway, wastewater, and water, facilities.

Reasonable future growth estimates are necessary in order to aid the City of Killeen in establishing the need for capital improvements required to serve future development. In accordance with Chapter 395, Kimley-Horn and Associates, Inc. (Kimley-Horn) has compiled the information required to complete the update of the Land Use Assumptions using the following sources:

- 2012 Water and Wastewater Master Plan (City of Killeen);
- 2015 Thoroughfare Plan;
- Bell County Appraisal District (BellCAD); and
- City of Killeen staff.

#### 1.2 COMPONENTS OF THE LAND USE ASSUMPTIONS REPORT

The Land Use Assumptions include the following components:

- Land Use Assumptions Methodology An overview of the general methodology used to generate the land use assumptions.
- Impact Fee Study Service Areas Explanation of the division of Killeen into service areas for water, wastewater and transportation facilities.
- 10-Year Growth Assumptions A synopsis of the land use assumptions.
- Land Use Assumptions Summary A synopsis of the land use assumptions.

#### 1.3 METHODOLOGY

The residential and non-residential growth projections formulated in this report were done using reasonable and generally accepted planning principles. The following factors were considered in developing these projections:

- Character, type, density, location and quantity of existing development;
- Historic Growth trends;
- Population projections in the Water and Wastewater Master Plan;
- Population projections in the City of Killeen's Thoroughfare Plan;
- Location of vacant land; and
- Physical holding capacity of Killeen.

Research of historic building permits was performed to compare the projected growth with previous growth trends in the City of Killeen over the last ten years. During the last ten years, approximately 10,771 single family dwelling units, 3,650 multi-family dwelling units and approximately 4,800,000 square feet of non-residential development.

Residential growth projections for each service area, summarizing population and dwelling unit growth from 2015 to 2025, were determined using growth estimates outlined in the Water and Wastewater Master Plan (2012) and the Thoroughfare Plan (2015) as well as development plans for three Planned Unit Developments (PUDs) and one Municipal Utility District (MUD). It is projected that approximately 7,243 new residential dwelling units will be added by 2025 within Killeen's city limits. This does not include an additional 3,750 dwelling units anticipated outside the 2015 Roadway Impact Fee Study's service areas.

Non-residential growth projections for each service area were computed by determining the historic growth in basic, service and retail land uses within the City of Killeen from the previous ten years (4,800,000 square feet). It was assumed that the current proportion of basic, service and retail development in each service would remain the same over the next ten years.

#### 1.4 IMPACT FEE SERVICE AREAS

#### A. Service Area Definition

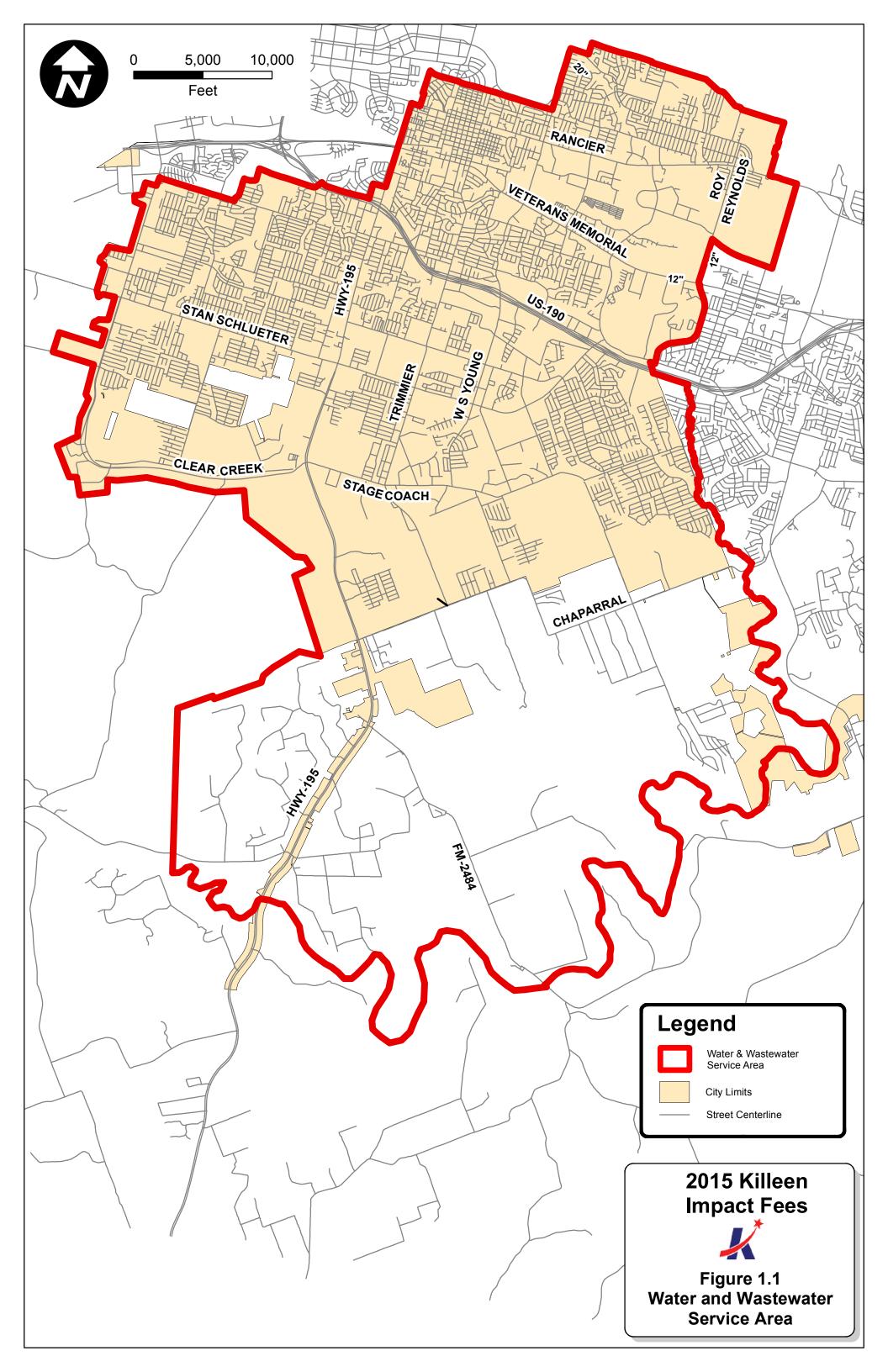
According to Chapter 395 of the Local Government Code Service Areas means the area within the corporate boundaries or extraterritorial jurisdiction of the political subdivision to be served by the capital improvement or facilities specified in the Capital Improvement Plan. Funds collected in the specific service areas must be spent in the service area collected.

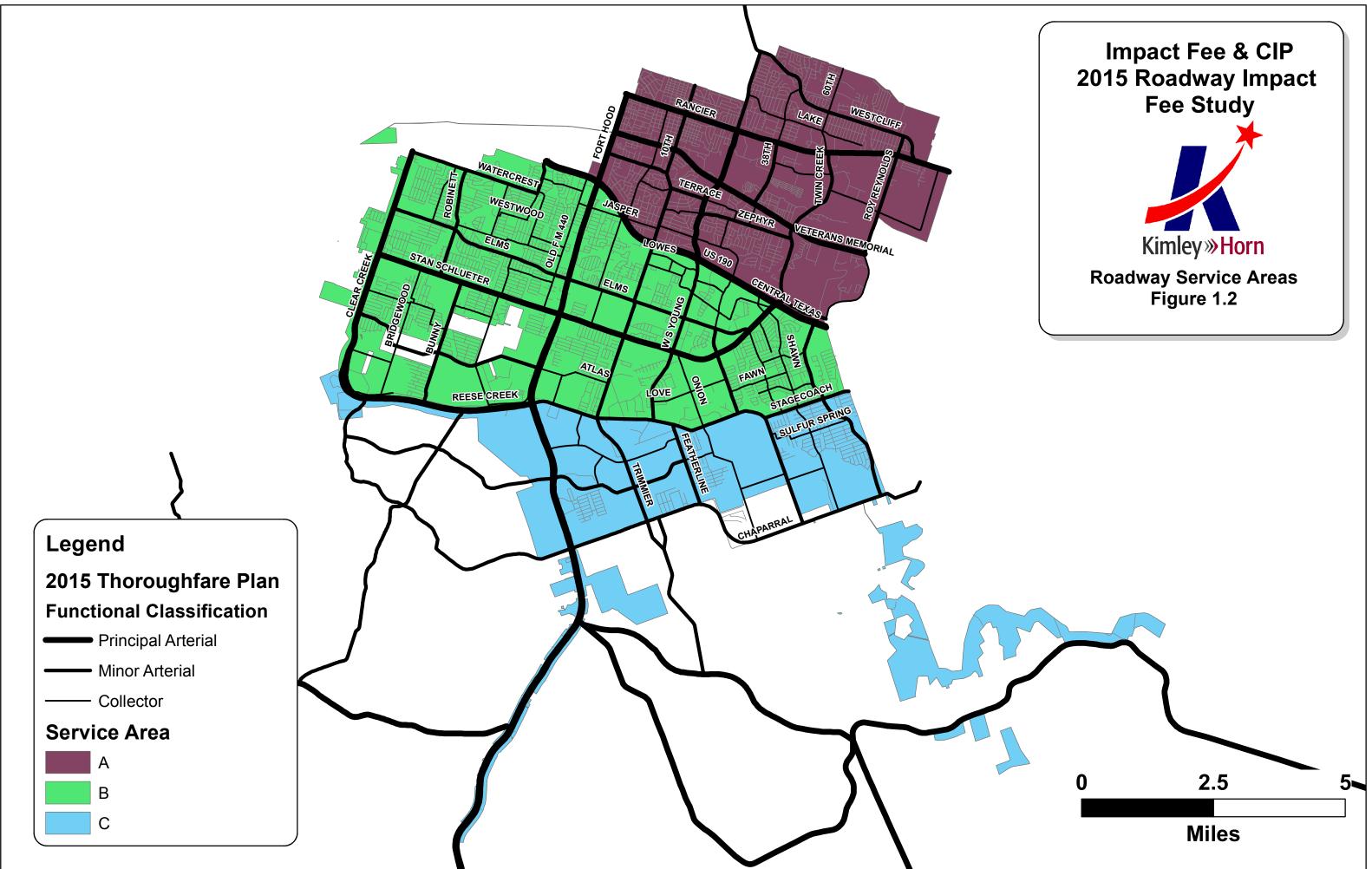
#### B. Water and Wastewater Impact Fee Service Areas

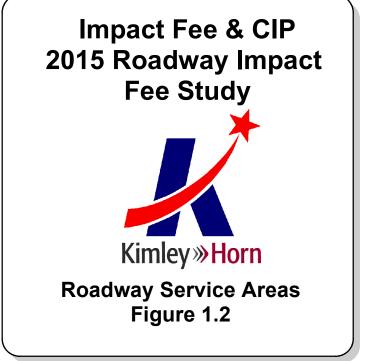
The geographic boundaries of the impact fee service area for water and wastewater facilities is shown in Figure 1.1. A single service area boundary is defined for both water and wastewater facilities.

#### C. Roadway Impact Fee Service Areas

The geographic boundaries of the three (3) impact fee service areas for roadway facilities are shown in Figure 1.2. The roadway service areas cover the entire corporate boundary of the City of Killeen. 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." Service Area A is located north of US 190 as Service Area B is positioned to the south of US 190. SH 201 and Stagecoach Rd. form the boundary between Service Area B and Service Area C, which is situated to the south.







#### 1.5 DATA FORMAT

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

*Impact Fee Service Areas:* Larger zones, which correspond to the proposed roadway, wastewater, and water facilities service areas (as described in the previous section).

Units: Number of dwelling units, both single and multi-family.

Population: Number of people, based on person per dwelling unit factors.

*Employment:* Square feet of building area based on three (3) different classifications.

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

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

<u>Basic</u>: Land use activities that produce goods and services such as those that are exported outside the local economy; manufacturing, construction, transportation, wholesale, trade, warehousing, and other industrial uses.

#### 1.6 WATER AND WASTEWATER 10-GROWTH SUMMARY

The impact fee study includes information from the 2012 Water and Wastewater Master Plan completed by Freese and Nichols. Kimley-Horn also interviewed Killeen staff to identify any changes that may have occurred regarding the proposed water and wastewater capital improvement plans identified in the Master Plans. The 10-year impact fee water and wastewater capital improvement plans are based upon recommended the master plan capital improvements and current growth projections. It is projected that approximately 7,243 new residential dwelling units will be added by 2025 within Killeen's city limits as indicated in the 2012 Water and Wastewater Master Plan. In addition, it was assumed that 3,750 dwelling units outside City limits, for a total dwelling unit growth of 10,993.

#### 1.7 ROADWAY 10-GROWTH SUMMARY

Table 1.1 summarizes the residential and employment 10-year growth projections within the City Limits. It illustrates which service areas the 7,243 dwelling units will be located. This growth rate is very similar when compared to historic growth since 2010. The anticipated growth for non-residential over the next ten years is similar to historical growth over the previous ten years.

SERVICE AREA	SINGLE FAMILY (DWELLING UNITS)	MULTI FAMILY (DWELLING UNITS)	BASIC (ft <sup>2</sup> )	SERVICE (ft <sup>2</sup> )	RETAIL (ft²)
A	1,719	668	330,000	1,400,000	680,000
В	2,447	951	220,000	300,000	680,000
С	1,050	408	550,000	300,000	340,000
Total	5,215	2,028	1,100,000	2,000,000	1,700,000

Table 1.1Residential and Non-Residential Land Use Assumptions<br/>Growth Projections (2015-2025)

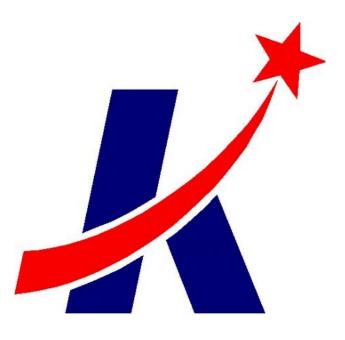
#### 1.8 SUMMARY

The following is a summary for the City limits. This is equivalent to the roadway land use assumptions which was then adjusted for the wastewater and water land use assumptions based on growth in the ETJ

- The ten year (2025) population growth projection is approximately 7,243 dwelling units (19,266 people).
- The ten year (2025) employment area growth projection is approximately 4,800,000 square feet.

CHAPTER 2 - WATER AND WASTEWATER IMPACT FEE STUDY

## CITY OF KILLEEN, TEXAS 2015 WATER AND WASTEWATER IMPACT FEE STUDY



## 2015 Prepared for the City of Killeen

Prepared by: Kimley-Horn and Associates, Inc. 801 Cherry Street, Unit 11, Suite 950 Fort Worth, TX 76102 Phone 817 335 6511 TBPE Firm Registration Number: F-928 Project Number: 064405301 © Kimley-Horn and Associates, Inc.



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## Kimley **»Horn**

## City of Killeen 2015 Water and Wastewater Impact Fees

AS PREPARED FOR THE CITY OF KILLEEN, TEXAS

#### EXECUTIVE SUMMARY

This study was performed to provide the City of Killeen the opportunity to assess new development water and wastewater impact fees if they so choose. Water and wastewater system analysis and master planning are important tools for facilitating orderly growth of the systems and for providing adequate facilities that promote economic development. The implementation of an impact fee is a way to shift a portion of the burden of paying for new facilities from current ratepayers to the new development.

#### Water

Elements of the water system, including storage facilities, pumping facilities, and the distribution network itself, were evaluated against industry standards as outlined in the City's current Master Plan and noted in the Design Criteria section of this report. Information related to the growth of the City is provided in the Land Use Assumptions chapter of this report.

Water system improvements necessary to serve 10-year (2025) needs were evaluated. Typically, infrastructure improvements are sized beyond the 10-year requirements; however, Texas Local Government Code (Chapter 395) only allows recovery of costs to serve the 10-year planning period. The City of Killeen's Impact Fee Capital Improvements Plan recoverable cost's total \$12,219,642.40. After debt service costs are added and the 50% reduction calculation is complete, \$7,515,080.08 is recoverable through impact fees serving the 10-year system needs.

#### Wastewater

Elements of the wastewater system, including pump facilities and the collection network itself, were evaluated against industry standards as outlined in the City's current Master Plan and noted in the Design Criteria section of this report. Information related to the growth of the City is provided in the Land Use Assumptions chapter of this report.

Wastewater system improvements necessary to serve 10-year (2025) needs were evaluated. The City of Killeen's Impact Fee Capital Improvements Plan recoverable cost's total \$9,797,112.60. After debt service costs are added and the 50% reduction calculation is complete, \$6,025,224.25 is recoverable through impact fees serving the 10-year system needs.

#### Water and Wastewater Impact Fees

The Chapter 395 law defines a service unit as"...a standardized measure of consumption attributable to an individual unit of development calculated in accordance with generally accepted engineering or planning standards and based on historical data and trends applicable to the political subdivision in which the individual unit of development is located during the previous 10 years." For the purpose of this study, a *service unit* shall be defined as the unit of development that consumes an amount of water requiring a standard 3/4-inch diameter water service meter. For a development that requires a different size meter, a service unit equivalent is established at a multiplier based on its capacity with respect to the 3/4-inch meter. The equivalency factor and associated impact fee by meter size are shown in Table 2.1.

Meter Size*	Maximum Continuous Operating Capacity (GPM)*	Service Unit Equivalent	Maximum Assessable Fee Water (\$)	Maximum Assessable Fee Wastewater (\$)
3/4″	15	1	683.81	549.55
1″	25	1.67	1,141.96	917.75
1 1/2″	50	3.33	2,277.09	1,830.00
2″	80	5.33	3,644.71	2,929.10
3″	175	11.67	7,980.06	6,413.25
4″	300	20.00	13,676.20	10,991.00
6″	675	45.00	30,771.45	24,729.75
8″	900	60.00	41,028.60	32,973.00

Table 2.1 Maximum	Accorcoble Mater	and Mastawatar	Impost Los for	Commonly Used Meters
	Assessable wale		Impact ree to	COMMUNITY USED MELEIS

\*Operating capacities obtained from American Water Works Association (AWWA) C-700-15 for positive displacement meters {3/4" – 2" meters} Table 1, Column 4, AWWA C-702-15 for compound meters (Class II) {3" – 8" meters} Table 1 Column 3. GPM – Gallons Per Minute

#### 2.1 INTRODUCTION

The City of Killeen retained Kimley-Horn and Associates, Inc. (Kimley-Horn), for the purpose of completing a study for the potential implementation of impact fees to fund a portion of the costs for water and wastewater system capital improvements required to serve new development.

This report satisfies the requirements of State law and provides the City with an impact fee capital improvements plan with associated impact fees.

For convenience and reference, a copy of Chapter 395.014 of the Texas Local Government Code is included in the appendix.

The impact fee study includes information from the 2012 Water and Wastewater Master Plan completed by Freese and Nichols. Kimley-Horn also interviewed Killeen staff to identify any changes that may have occurred regarding the proposed water and wastewater capital improvement plans identified in the Master Plans. The 10-year impact fee water and wastewater capital improvement plans are based upon recommended the master plan capital improvements and current growth projections.

#### A. Land Use Assumptions

The first task in the study involved identification of current and future land use by category and projections of population within the City's service areas. Kimley-Horn developed the land use assumptions used in the study with assistance from City of Killeen staff. The development of land use assumptions is detailed in Chapter 1 of this study and is utilized in:

- Establishing impact fee service areas for water and wastewater;
- Collecting/Determining of population and employment data; and
- Projecting the ten-year population and employment data by service area.

A single service area boundary is defined for both water and wastewater facilities. An illustration of the service area is shown on Figure 1.1.

B. Evaluation of the Current Water and Wastewater Master Plan and Development of the Impact Fee Capital Improvements Plan

The second task in the study involved reviewing the City's current Water and Wastewater Master Plan, identifying capital improvement projects from the Master Plan that are potentially impact fee eligible, and interviewing City staff. This information allowed Kimley-Horn to develop the 10-Year impact fee capital improvements plan. The Master Plan water demand

projections and wastewater flow projections were then used to determine the future service unit needs.

#### C. Impact Fee Analysis and Report

This task included calculating the additional service units, service unit equivalents, and credit reduction. These values were then used to determine the impact fee per service unit and the maximum assessable impact fee by water meter size.

#### 2.2 WATER

Development of the Impact Fee Capital Improvements Plan is based on criteria set forth in the 2012 Master Plan. The Master Plan criteria meet or exceed the criteria outlined by Chapter 290 of the Texas Administrative Code (Public Drinking Water) and the American Water Works Associations (AWWA) requirements for the design and operation of potable water utility systems. The design criteria used to plan for water infrastructure needs are discussed in the following subsection.

#### A. Design Criteria

#### Water Lines

Water lines are generally sized to maintain the following public water utility system distribution system requirements:

- Peak hour demand with a minimum pressure of 35 psi;
- Night-time tank filling with a maximum pressure of 100 psi; and
- Peak day demand plus fire flow with a minimum pressure of 20 psi.

#### Storage Tanks

The Texas Commission on Environmental Quality (TCEQ) and the State Board of Insurance (SBI) have established criteria for ground and elevated storage. These criteria address volume and pressure plane requirements only. The layout of the distribution system, location of ground and elevated storage facilities, and system performance with the high service and booster pumps affect the amount of storage necessary for the most efficient and reliable operation of the system. Although ground and elevated storage facilities performs separate functions within the system, both are aimed at decreasing the impact of demand fluctuations.

Ground storage serves two purposes:

- Equalizing differing feed rates between the water supply and pumping to the system; and
- Providing emergency capacity in the event of temporary loss of water supply.

Generally, ground storage facilities are located at water supply points or at each pump station within the water distribution system. Suggested storage capacities are established based on several criteria, specified by the TCEQ, which are detailed later in this section.

Elevated storage serves three purposes:

- Equalizing the pumping rate to compensate for daily variations in demand and maintaining a fairly constant pumping rate (usually referred to as operational storage), and to the degree possible, pumping at a rate that maximizes energy efficiency.
- Providing pressure maintenance and protection against surges created by instantaneous system demand, such as fire flow or a main break, and instantaneous change in supply, such as pumps turning on and off.
- Maintaining a reserve capacity for fire flow and pressure maintenance in case of power failure to one or more pump stations.

Suggested system storage capacities are established by the TCEQ. Adequate operational storage is established by determining the required volume to equalize the daily fluctuations in flow during the maximum day demand, plus the reserve volume required for fire flow. According to Chapter 290 of the Texas Administrative Code, the minimum requirements for storage are as follows:

- Total System Storage Equal to 200 gallons per connection.
- Elevated Storage Equal to 100 gallons per connection; or
- Elevated Storage Equal to 200 gallons per connection for a firm pumping capacity reduction from 2.0 gallons per connection to 0.6 gallons per connection.

#### **Pump Stations**

Pumping capacity should supply the maximum demand with sufficient redundancy to allow for the largest pump at a pump station to be out of service. This is known as firm pumping capacity.

Each pump station or pressure plane must have two or more pumps that have a total capacity of 2.0 gallons per minute per connection, or have a total capacity of at least 1,000 gallons per minute and the ability to meet peak hour demand with the largest pump out of service, whichever is less. If the system provides elevated storage capacity of 200 gallons per

connection, two service pumps with a minimum combined capacity of 0.6 gpm per connection are required.

#### B. Impact Fee Capital Improvements Plan

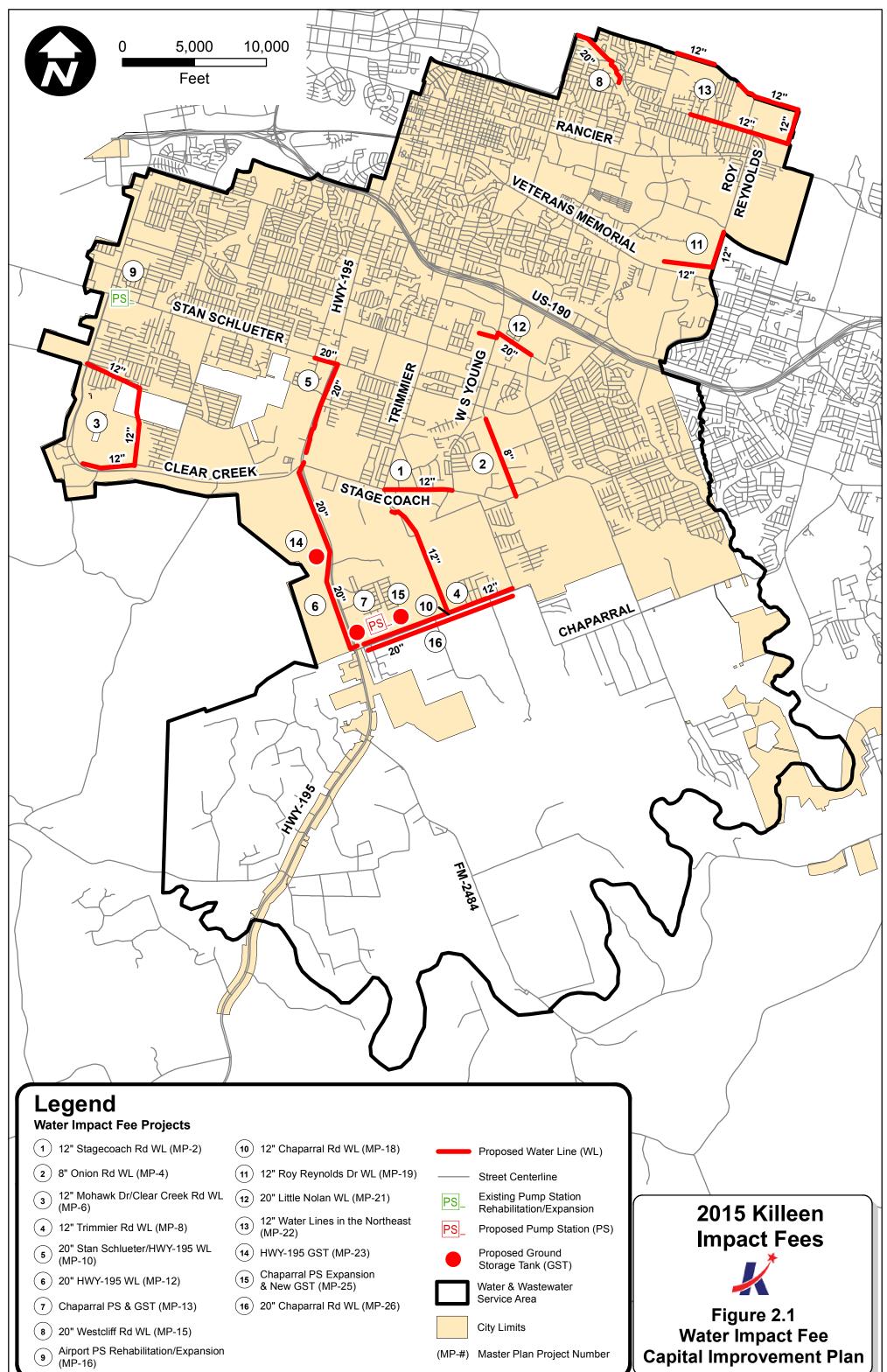
The City's Master Plan provides a logical strategy for upgrading and expanding its water distribution system to accommodate future growth, and for addressing existing system deficiencies. The impact fee capital improvements plan has been developed using projects identified during the master planning process. State law only allows cost recovery associated with eligible projects in a ten 10-year planning window from the time of the impact fee study. The following lists the projects and the eligible recoverable cost.

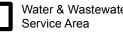
Sixteen projects along with the water impact fee study are determined eligible for recoverable cost through impact fee over the next 10 years. The City of Killeen's Impact Fee Capital Improvements Plan recoverable cost's total \$12,219,642.40 After debt service costs are added and the 50% reduction calculation is complete, \$7,515,080.08 is recoverable through impact fees serving the 10-year system needs. These impact fee capital improvements are shown in Table 2.3 and illustrated in Figure 2.1.

Project Number	Project Name	Project Cost	Recoverable Cost
1	12" Stagecoach Rd WL (MP-2)	\$752,640.00	\$752,640.00
2	8" Onion Rd WL (MP-4)	\$608,030.00	\$468,183.10
3	12" Mohawk Dr/Clear Creek Rd WL (MP-6)	\$1,430,560.00	\$1,430,560.00
4	12" Trimmer Rd WL (MP-8)	\$1,499,910.00	\$1,499,910.00
5	20" Stan Schlueter/HWY-195 WL (MP-10)	\$1,673,280.00	\$769,708.80
6	20" HWY-195 WL (MP-12)	\$2,983,680.00	\$1,372,492.80
7	Chaparral PS & GST (MP-13)	\$6,048,000.00	\$665,280.00
8	20" Westcliff Rd WL (MP-15)	\$987,840.00	\$987,840.00
9	Airport PS Rehabilitation/Expansion (MP-16)	\$1,075,200.00	\$752,640.00
10	12" Chaparral Rd WL (MP-18)	\$551,580.00	\$60,673.80
11	12" Roy Reynolds Dr WL (MP-19)	\$599,970.00	\$599,970.00
12	20" Little Nolan WL (MP-21)	\$903,170.00	\$415,458.20
13	12" Water Lines in the Northeast (MP-22)	\$1,814,400.00	\$1,814,400.00
14	HWY-195 GST (MP-23)	\$1,680,000.00	\$520,800.00
15	Chaparral PS Expantion & New GST (MP-25)	\$3,763,200.00	\$37,632.00
16	20" Chaparral Rd WL (MP-26)	\$1,709,570.00	17,0950.70
	Water Impact Fee Study	\$54,358.00	\$54,358.00
Total \$28,135,388.00 \$12,219,642.40			

#### Table 2.3 Water Impact Fee Capital Improvements Plan Costs

(MP#) – Reference to the Water Master Plan project number.







#### C. Project Descriptions

The following acronyms used within the project descriptions are defined as follows:

- ETJ Extraterritorial Jurisdiction
- MG Million Gallons
- MGD Million Gallons Per Day
- GPD Gallons Per Day
- 12-inch Stagecoach Road Water Line (MP-2) This project consists of 12-inch water line along Stagecoach Rd. between Trimmier Rd. and W.S. Young Dr.; decommission the Douglas Mountain Storage Tanks.

This line closes the loop between two existing 12-inch lines and provides capacity for development infill within the City limits. The line is 100 percent utilized in the 10-year study window.

Project Cost:	\$752,640.00
Recoverable Cost:	\$752,640.00

 8-inch Onion Road Water Line (MP-4) This project consists of 8-inch water line along Onion Rd. between Rio Grande Ct. and Stagecoach Rd.

This line replaces an existing 4-inch line and connects an existing 12-inch line and an existing 8inch line and provides capacity for development within the City limits. The line is 100 percent utilized in the 10 year study window, but because it is replacing an existing 4-inch line which contains a capacity of 23 percent of the proposed 8-inch line only 77 percent of the 8-inch line's project cost is recoverable.

Project Cost:	\$608,030.00
Recoverable Cost	\$468,183.10

3. 12-inch Mohawk Drive/Clear Creek Road Water Line (MP-6) This project consists of 12-inch water line extending east from Mohawk Dr.; 12-inch water line extending south from Bridgewood Dr. to Clear Creek Rd.

This line provides service to new development in the Airport Pressure Plane and is planned to occur in the 10-year study window. Because of fire flow requirements the 12-inch water line will be 100 percent utilized in the 10-year study window.

Project Cost:	\$1,430,560.00
Recoverable Cost:	\$1,430,560.00



4. 12-inch Timmier Road Water Line (MP-8)

This project consists of 12-inch water line along Chaparral Rd. between Trimmier Rd. and Featherline Rd.' 12-inch water line along Trimmier Rd. between existing 12-inch line south of Stagecoach Rd. and Chaparral Rd.

This line provides service to new development in the Upper Pressure Plane and is planned to occur in the 10-year study window. Because of fire flow requirements the 12-inch water line will be 100 percent utilized in the 10-year study window.

Project Cost:	\$1,499,910.00
Recoverable Cost:	\$1,499,910.00

 20-inch Stan Schlueter/Highway 195 Water Line (MP-10) This project consist of 20-inch water line along Hwy 195 connecting to the existing 20-inch along Stan Schlueter Lp. and extending south to Stagecoach Rd.

This line provides transmission capacity to serve future demands to the southern portion of the city and into the City's southern ETJ; 46 percent of the line will be utilized in the 10-year study window.

Project Cost:	\$1,673,280.00
Recoverable Cost:	\$769,708.80

 20-inch Highway 195 Water Line (MP-12) This project consists of 20-inch water line along Hwy 195 between Stagecoach Rd. and Chaparral Rd. connecting to a future pump station.

This line provides transmission capacity to serve future demands to the southern portion of the city and into the City's southern ETJ; 46 percent of the line will be utilized in the 10-year study window.

Project Cost:	\$2,983,680.00
Recoverable Cost:	\$1,372,492.80

 Chaparral Pump Station and Ground Storage Tank (MP-13) This project consists of a new 3.0 MG ground storage tank near Chaparral Rd. and Hwy-195 and new 6.0 MGD pump station.

This pump station provides additional capacity to the Upper Pressure Plane for future demand. There is a projected 11% increase in pumping capacity needed over the 10-year study window. Therefore, of the 6 MGD of additional pumping capacity provided 11 percent will be utilized in the 10-year study window.

Project Cost: Recoverable Cost \$6,048,000.00 \$665,280.00



 20-inch Westcliff Road Water Line (MP-15) This project consists of 20-inch water line along Westcliff Rd. from Pump Station #5 to N. 28<sup>th</sup> St.

To maximize the capacity of Pump Station #5 and provide flow capacity to future development in the eastern portion of the lower pressure plane the line will be 100 percent utilized in the 10year study window.

Project Cost:	\$987,840.00
Recoverable Cost:	\$987,840.00

 Airport Pump Station Rehabilitation/Expansion (MP-16) This project consists of replacing existing pumps at the Airport Pump Station for a total capacity of 5 MGD.

This pump station provides additional capacity by replacing the existing 1.5 MGD pumps with 5 MGD capacity pumps that will be 100 percent utilized in the 10-year study window, but because it is replacing existing 1.5 MGD capacity pumps which contain a capacity of 30 percent of the proposed 5 MGD capacity improvement only 70 percent of the project cost is recoverable.

 Project Cost:
 \$1,075,200.00

 Recoverable Cost:
 \$752,640.00

 12-inch Chaparral Road Water Line (MP-18) This project consists of 12-inch water line along Chaparral Rd. between Trimmier Rd. and the new pump station.

Because this is the discharge line from project #7, the utilization of 11 percent will match project #7.

 Project Cost:
 \$551,580.00

 Recoverable Cost:
 \$60,673.80

 11. 12-inch Roy Reynolds Drive Water Line (MP-19) This project consists of 12-inch water line extending south of Roy Reynolds Dr. and connecting to an existing 20-inch line near Veterans Memorial Blvd.

This line provides service to new development in the Lower Pressure Plane and is planned to occur in the 10-year study window. Because of fire flow requirements the 12-inch water line will be 100 percent utilized in the 10-year study window.

Project Cost:	\$599,970.00
Recoverable Cost:	\$599,970.00

12. 20-inch Little Nolan Road Water Line (MP-21)

This project consists of 20-inch water line along Little Nolan Rd. between Cunningham Rd. and the Rodeo Elevated Storage Tank.

This line provides transmission capacity to serve future demands in the Lower Pressure Plane and portions of the City's southern ETJ; 46 percent of the line will be utilized in the 10-year study window

 Project Cost:
 \$903,170.00

 Recoverable Cost:
 \$415,458.20

13. 12-inch Water Line in the Northeast (MP-22)

This project consists of 12-inch water line extending west from Ridgehaven Dr. and connecting to an existing 12-inch at 60<sup>th</sup> St.; 12-inch water line extending east and south of Ridgehaven Dr.; 12-inch water line along Westcliff Rd.

This line provides service to new development in the Lower Pressure Plane and is planned to occur in the 10-year study window. Because of fire flow requirements the 12-inch water line will be 100 percent utilized in the 10-year study window

Project Cost:	\$1,814,400.00
Recoverable Cost:	\$1,814,400.00

14. Highway 195 Ground Storage Tank (MP-23)

This project consists a 1.5 MG ground storage tank located near Highway 195 and Tower Hill Ln.

The ground storage tank acts as elevated storage for the Upper Pressure Plane. To meet future demand 0.465 MG of the proposed 1.5 MG will be needed in the 10-year study window. Therefore, 31 percent of the project cost is recoverable.

Project Cost:	\$1,680,000.00
Recoverable Cost:	\$520,800.00

15. Chaparral Pump Station Expansion and New Ground Storage Tank (MP-25) This project consists of the expansion of the Chaparral Pump Station to pump a total capacity of 4.0 MGD to the Lower Pressure Plane; Construct a new 3.0 MG ground storage tank.

Similar to Project #7 but for the Lower Pressure Plane, this pump station provides additional capacity for future demand. There is a projected 1% increase in pumping capacity needed over the 10-year study window for this plane. Therefore, of the 4 MGD of additional pumping capacity provided 1 percent will be utilized in the 10-year study window.

Project Cost:	\$3,763,200.00
Recoverable Cost:	\$37,632.00



16. 20-inch Chaparral Road Water Line (MP-26) This project consists of 20-inch water line along Chaparral Rd. between the Chaparral Pump Station and Featherline Rd.

Because this is the discharge line from project #15, the utilization of 1 percent will match project #15.

Project Cost: Recoverable Cost: \$1,709,570.00 \$17,095.70

#### D. Water Impact Fee Calculation

Chapter 395 of the Local Government Code defines a service unit as "...a standardized measure of consumption attributable to an individual unit of development calculated in accordance with generally accepted engineering or planning standards and based on historical data and trends applicable to the political subdivision in which the individual unit of development is located during the previous 10 years." For the purposes of this study, a *service unit* is based on historical water usage over the past 10 years in terms of estimated residential units. The residential unit is the development type that predominately uses a 3/4-inch water meter. The measure of consumption per service unit is based on a 3/4-inch meter flow equivalent and the data shown in Table 2.4.

Year	Population	Residential Units (2.66 persons/unit)	Water Usage Average Day Demand (MGD)	Consumption per Service Unit (GPD)
2005	104,032	39,110	12.10	309
2006	105,604	39,701	13.06	329
2007	112,434	42,269	11.96	283
2008	116,934	43,960	15.02	342
2009	119,510	44,929	14.13	314
2010	127,921	48,091	13.87	288
2011	128,967	48,484	16.19	334
2012	131,914	49,592	16.00	323
2013	135,364	50,889	15.06	296
2014	138,157	51,939	14.71	283
Average Consumption per Service Unit			313	

Table 2.4 Water Service Unit Consumption Calculation

Based on the City's 10-year growth projections and the resulting water demand projections, water service will be required for an additional 10,990 service units. The calculation is as follows:

• A service unit, which is a unit of development that consumes approximately 313 gallons per day (GPD), is a typical residential connection that uses a 3/4-inch meter. Table 2.5 outlines the future water demand projections and its relationship to the additional service units projected for the next 10-years.

Year	Average Day Demand (MGD)	Service Unit Demand (GPD)	Service Units
2015	16.57	313	52,939
2025	20.01	313	63,929
10-year Additional Service Units			10,990

Table 2.5 Water 10-year Additional Service Units Calculation

Impact fee law allows for a credit calculation to credit back the development community based on the utility revenues or ad valorem taxes that are allocated for paying a portion of future capital improvements. The intent of this credit is to prevent the City from double charging development for future capital improvements via impact fees and utility rates. If the City chooses not to pursue a financial analysis to determine the credit value, the Chapter 395 law requires that the City reduce the recoverable cost by 50 percent. The City has chosen not to calculate the credit value. Therefore, the maximum recoverable cost for impact fee shown below is 50 percent of the recoverable cost for impact fee CIP with debt service.

A breakdown of the 10-year recoverable costs and the associated impact fee per service unit is as follows:

Table 2.6 Water TO-year Recoverable Cost Breakdown			
Recoverable Impact Fee CIP Costs		\$12,219,642.40	
Debt Service		\$2,810,517.75	
Recoverable Impact Fee CIP Costs w/D	ebt Service	\$15,030,160.15	
50 Percent Reduction	O Percent Reduction (\$7,515,080		
Maximum Recoverable Cost of Impac	Impact Fee \$7,515,080.08		
Impact fee per service unit =	Impact fee per service unit = <u>10-year recoverable costs</u> 10-year additional service unit		
Impact fee per service unit =	\$	5 <u>7,515,080.08</u> 10,990	

Table 2.6 Water 10-year Recoverable Cost Breakdown

Therefore, the maximum assessable impact fee per service unit is \$683.81.

=

Impact fee per service unit

For a development that requires a different size meter, a service unit equivalent is established at a multiplier based on its capacity with respect to the 3/4-inch meter. The maximum impact fee that could be assessed for other meter sizes is based on the value shown on Table 2.7, Service Unit Equivalency Table for Commonly Used Meters.

\$683.81

Table 2.7 Water Service Onit Equivalency Table for commonly Oscul Meter			
Meter Size	Maximum Continuous Operating Capacity (GPM) *	Service Unit Equivalent	Maximum Assessable Fee Water (\$)
3/4″	15	1	683.81
1″	25	1.67	1,141.96
1 1/2″	50	3.33	2,277.09
2″	80	5.33	3,644.71
3″	175	11.67	7,980.06
4″	300	20.00	13,676.20
6″	675	45.00	30,771.45
8″	900	60.00	41,028.60

\*Operating capacities obtained from American Water Works Association (AWWA) C-700-15 for positive displacement meters {3/4" – 2" meters} Table 1, Column 4, AWWA C-702-15 for compound meters (Class II) {3" – 8" meters} Table 1 Column 3. GPM – Gallons Per Minute

#### 2.3 WASTEWATER

Development of the Impact Fee Capital Improvements Plan is based on criteria set forth in the 2012 Master Plan. The Master Plan criteria meet or exceed the criteria outlined by Chapter 217 of the Texas Administrative Code (Design Criteria for Domestic Wastewater Systems). The design criteria used to plan for the wastewater infrastructure needs are discussed in the following subsection.

#### A. Design Criteria

#### Sewer Lines

The design criteria for sizing sanitary sewer trunk lines or interceptors is based on the TCEQ requirements to contain wet weather design flows with no overflows while maintaining a minimum of 2 ft/sec pipe flow velocity and not exceeding a maximum of 8 ft/sec pipe flow velocity.

#### Lift Stations

#### PUMPING CAPACITY

The design criteria for lift station pumps is based on providing firm pumping capacity to meet 125% of the peak wet weather design flows. The firm pumping capacity is defined as the available total pumping capacity with the largest lift station pump out of service.

#### WET WELL CAPACITY

The design criteria for lift station wet wells is based on providing adequate volumes to limit pump cycling to once every 10 minutes. Based on this criterion, the required operating volume for each pump can be calculated as follows:

V = tQ/4 where,

- t = Maximum pump cycling time = 10 minutes
- Q = Lead pump discharge rate in gallons per minute (gpm)
- V = Required wet well volume between pump start and stop elevation

#### Force Mains

The design criteria recommended for force mains is based on providing the required pumping capacity of the lift station at a discharge velocity less than 8 feet per second and a maximum discharge pressure of 100 psi and to allow a minimum of 2 feet per second scouring velocity during a single pump operation.

#### B. Impact Fee Capital Improvements Plan

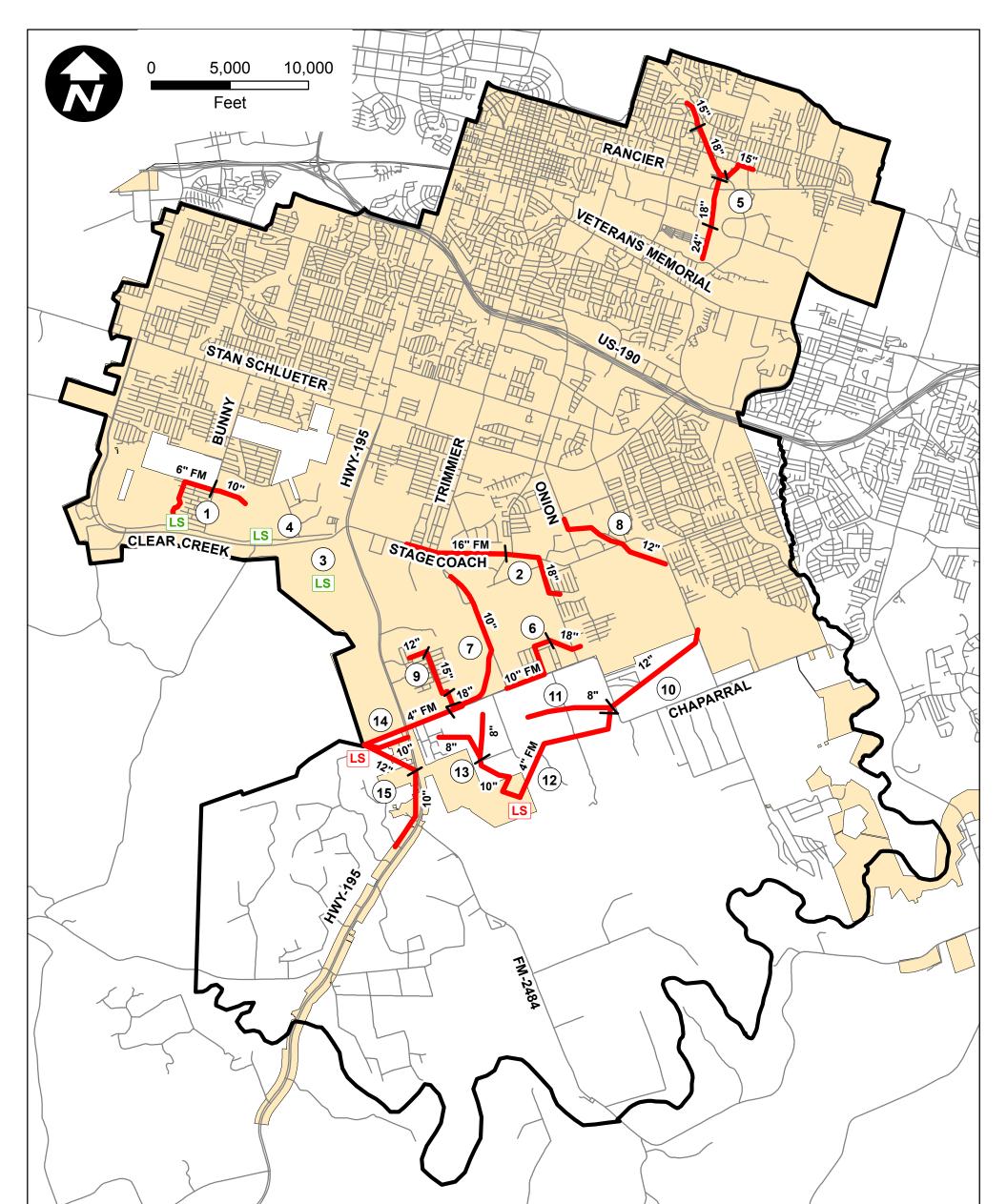
The City's Master Plan provides a logical strategy for upgrading and expanding its wastewater collection system to accommodate future growth, and for addressing existing system deficiencies. The impact fee capital improvements plan has been developed using projects identified during the master planning process. State law only allows cost recovery associated with eligible projects in a 10-year planning window from the time of the impact fee study. The following details the projects and the eligible recoverable cost.

Fifteen projects along with the wastewater impact fee study are determined eligible for recoverable cost through impact fee over the next 10 years. The City of Killeen's Impact Fee Capital Improvements Plan recoverable cost's total \$9,797,112.60. After debt service costs are added and the 50% reduction calculation is complete, \$6,025,224.25 is recoverable through impact fees serving the 10-year system needs. These impact fee capital improvements are shown in Table 2.8 and illustrated in Figure 2.2.

Table 2.8 Wastewater Impact Fee Capital Improvements Plan Costs				
Project Number	Project Name	Master Plan Project Cost	Impact Fee Recoverable Cost	
1	LS #23 Expansion 6" Force Main & 10" Gravity Main (MP-1)	\$1,427,330.00	\$1,056,224.20	
2	16" Force Main & 18" Gravity Main (MP-3)	\$1,690,760.00	\$1,690,760.00	
3	LS #20 Expansion (MP-8)	\$291,650.00	\$145,825.00	
4	LS #22 Expansion (MP-9)	\$268,800.00	\$206,976.00	
5	24", 18" & 15" Wastewater Mains (MP-10)	\$2,499,710.00	\$649,924.60	
6	10" Force Main & 18" Gravity Main (MP-11)	\$1,017,140.00	\$1,017,140.00	
7	10" Wastewater Main (MP-13)	\$604,270.00	\$604,270.00	
8	12" Wastewater Main (MP-17)	\$870,920.00	\$870,920.00	
9	18"/15"/12" Wastewater Main (MP-18)	\$852,640.00	\$392,214.40	
10	12" Wastewater Main (MP-21)	\$858,010.00	\$497,645.80	
11	8" Wastewater Main (MP-22)	\$454,810.00	\$263,789.80	
12	Upper Rock Creek LS & 4" Force Main (MP-23)	\$1,031,120.00	\$598,049.60	
13	10" & 8" Wastewater Main (MP-24)	\$862,850.00	\$500,453.00	
14	HWY-195 LS & 4" Force Main (MP-25)	\$1,334,330.00	\$760,568.10	
15	12" & 10" Wastewater Main (MP-26)	\$856,130.00	\$487,994.10	
	Wastewater Impact Fee Study	\$54,358.00	\$54,358.00	
Total		\$14,974,828.00	\$9,797,112.60	

Table 2.8 Wastewater Impact Fee Capital Improvements Plan Costs

(MP#) – Reference to the Wastewater Master Plan project number.



### Legend

#### Wastewater Impact Fee Projects

- LS #23 Expansion
- 1) 6" Force Main &10" Gravity Main (MP-1)
- 16" Force Main & 18" Gravity Main (MP-3)
- 3 LS #20 Expansion (MP-8)
- 4 LS #22 Expansion (MP-9)
- 5 24", 18" & 15" Wastewater Mains (MP-10)
- 6 10" Force Main & 18" Gravity Main (MP-11)
- 7) 10" Wasterwater Main (MP-13)
- 8) 12" Wastewater Main (MP-17)

- (9) 18"/15"/12" Wastewater Main (MP-18)
- (10) 12" Wastewater Main (MP-21)
- (11) 8" Wastewater Main (MP-22)
- (12) Upper Rock Creek LS & 4" Force Main (MP-23)
- (13) 10" & 8" Wastewater Main (MP-24)
- (14) HWY-195 LS & 4" Force Main (MP-25)
- (15) 12" & 10" Wastewater Main (MP-26)
- Proposed Wastewater Line
- Street Centerline
- **LS** Existing Lift Station Expansion
- LS Proposed Lift Station (LS)
  - Water & Wastewater Service Area
  - City Limits
- (MP-#) Master Plan Project Number



#### C. Project Descriptions

The following acronyms used within the project descriptions are as follows:

- ETJ Extraterritorial Jurisdiction
- WWTP Wastewater Treatment Plant
- MG Million Gallons
- MGD Million Gallons Per Day
- GPD Gallons Per Day
- Lift Station #23 Expansion and 6-inch Force Main/10-inch Gravity Main (MP-1) This project consists of expanding Lift Station #23 to a firm capacity of 2.5 MGD and provide stub-out for future pumping diversion through Goodnight Ranch. The new force main and gravity main will divert 0.75 MGD of flower from the South Nolan Creek Basin to the Trimmier Creek Basin through the proposed Goodnight Ranch Development.

This 2.5 MGD lift station provides additional capacity for future development in the basin and is planned to be 100 percent utilized in the 10-year planning study window, but because it is replacing an existing 0.65 MGD lift station which contains a capacity of 26 percent of the proposed 2.5 MGD lift station only 74 percent of the lift station project cost is recoverable.

 Project Cost:
 \$1,427,330.00

 Recoverable Cost:
 \$1,056,224.20

2. 16-inch Force Main/18-inch Gravity Main to Divert Lift Station #20 to South WWTP (MP-3) This project consists of the new 16-inch force main and 18-inch gravity main which will run along Stagecoach Rd. from west of Trimmier Rd. to Featherline Rd.

This force main and gravity line will divert future flows from the Central Basin to the Trimmier Creek Basin from Lift Station #20. Upon completion it will be 100% utilized.

Project Cost:	\$1,690,760.00
Recoverable Cost:	\$1,690,760.00

 Lift Station #20 Expansion (MP-8) This project consists of the expansion of Lift Station #20 to a firm capacity of 4.0 MGD. The lift station has an existing slot for new pump.

This 4 MGD lift station expansion provides additional capacity for future development in the basin and is planned to be 100 percent utilized in the 10-year planning study window, but because the existing lift station has a current capacity of 2.02 MGD 50 percent of the station is already utilized. Therefore, only 50 percent of the lift station project cost is recoverable.

Project Cost:	\$291,650.00
Recoverable Cost:	\$145,825.00



 Lift Station #22 Expansion (MP-9) This project consists of the expansion of Lift Station #20 to a firm capacity of 2.0 MGD.

This 2 MGD lift station expansion provides additional capacity for future development in the basin and is planned to be 100 percent utilized in the 10-year planning study window, but because the existing lift station has a current capacity of 0.45 MGD 23 percent of the station is already utilized. Therefore, only 77 percent of the lift station project cost is recoverable.

Project Cost: Recoverable Cost: \$268,800.00 \$206,976.00

 24-inch, 18-inch and 15-inch Wastewater Main Replacement in the Long Branch Basin (MP-10) This project consists of 24-inch, 18-inch, and 15-inch wastewater main replacement which will replace the existing 21-inch, 12-inch and 10-inch mains along the creek east of the North WWTP.

These 24, 18, and 15-inch lines will provide additional capacity for future development within the basin and will be 100% utilized in the 10-year study window. However, because they are replacing existing 21, 12, and 10-inch lines only 26 percent of the project cost is recoverable.

Project Cost: Recoverable Cost: \$2,499,710.00 \$649,924.60

6. 10-inch Force Main and 18-inch Gravity Main to divert Lift Station #24 (MP-11) This project consists of the new force main along Chaparral Rd. from Lift Station #24 to Featherline Rd. which will divert flow from Lift Station #24 to the South WWTP. This project also calls for the decommissioning of Lift Station #24A.

This force main and gravity line will divert future flows from the Lift Station #24 to the South WWTP. Upon completion it will be 100% utilized.

Project Cost:	\$1,017,140.00
Recoverable Cost:	\$1,017,140.00

7. 10-inch Wastewater Main along Trimmier Rd. in Southern Trimmier Creek Basin (MP-13) This project consists of new 10-inch wastewater main which will follow the creek near Trimmier Rd. and outfall into Lift Station #24.

This line provides service to new development in the Trimmier Creek Basin and is planned to occur in the 10-year study window. Therefore, 100 percent of the project cost is recoverable.

Project Cost:	\$604,270.00
Recoverable Cost:	\$604,270.00



 12-inch Wastewater Main in Trimmier Creek Basin (MP-17) This project consists of proposed 12-inch wastewater main which will run along the creek in the Trimmier Creek Basin along Onion Rd. and Stagecoach Rd.

This line provides service to new development in the Trimmier Creek Basin and is planned to occur in the 10-year study window. Therefore, 100 percent of the project cost is recoverable.

Project Cost:	\$870,920.00
Recoverable Cost:	\$870,920.00

 18/15/12-inch Main Upstream of Lift Station #24 (MP-18) This project consists of new 18/15/12-inch wastewater line which will replace the existing 10inch and 12-inch main downstream of the force main from Lift Station #21.

These 18, 15, and 12-inch lines will provide additional capacity for future development within the basin and will be 100% utilized in the 10-year study window. However, because they are replacing existing 12, and 10-inch lines only 46 percent of the project cast is recoverable.

Project Cost:	\$852,640.00
Recoverable Cost:	\$392,214.40

 12-inch Wastewater Main in Trimmier Creek Basin (MP-21) This project consists of proposed 12-inch wastewater main north of Chaparral Rd. in the Trimmier Creek Basin.

This line is the trunk main serving future development in the southern portion of the Trimmier Creek Basin and is in the City's ETJ. Based on the 10-year planning window an estimated peak flow is 1.33 MGD. At an estimated one percent slope the capacity of the line is 2.3 MGD. Therefore, 58 percent of the project cost is recoverable.

Project Cost:	\$858,010.00
Recoverable Cost:	\$497,645.80

 8-inch Wastewater Main in Trimmier Creek Basin (MP-22) This project consists of proposed 8-inch wastewater main upstream of the proposed 12-inch wastewater main northwest of Chaparral Rd.

This line serves a sub-basin of project 10. Therefore it has the same 58 percent recoverable cost.

Project Cost:	\$454,810.00
Recoverable Cost:	\$263,789.80



12. New 0.25 MGD Upper Rock Creek Lift Station and 4-inch Force Main (MP-23) This project consists of new lift station and force main along Rock Creek in the southern portion of the Trimmier Creek Basin.

This lift station and force main also serve a sub-basin of project 10. Therefore it has the same 58 percent recoverable cost.

 Project Cost:
 \$1,031,120.00

 Recoverable Cost:
 \$598,049.60

13. 10-inch and 8-inch Wastewater Main Upstream of New Upper Rock Creek Lift Station (MP-24)

This project consists of proposed 8-inch and 10-inch wastewater main which will follow Rock Creek and convey flow downstream to the proposed Rock Creek Lift Station.

This line also serves a sub-basin of project 10. Therefore it has the same 58 percent recoverable cost.

Project Cost:	\$862,850.00
Recoverable Cost:	\$500,453.00

 S.H. 195 Lift Station and 4-inch Force Main (MP-25) This project consists of 4-inch force main to be located along Chaparral Rd. from the new lift station to just upstream of Lift Station #24.

This lift station and force main serve the upper portion of the future SH 195 basin. Based on the 10-year planning window, estimated peak wet weather flow is 0.285 MGD. The design capacity of the lift station is 0.5 MGD. Therefore, 57 percent of the project cost is recoverable.

 Project Cost:
 \$1,334,330.00

 Recoverable Cost:
 \$760,568.10

 12-inch and 10-inch Wastewater Main Upstream of New North S.H. 195 Lift Station (MP-26) This project consists of 12-inch and 10-inch line along S.H. 195 upstream of proposed North S.H. 195 Lift Station.

This lines provide service for the same area as the lift station and force main in project 14. Therefore it has the same 57 percent recoverable cost.

Project Cost:	\$856,130.00
Recoverable Cost:	\$487,994.10



#### D. Wastewater Impact Fee Calculation

Chapter 395 of the Local Government Code defines a service unit as "...a standardized measure of consumption attributable to an individual unit of development calculated in accordance with generally accepted engineering or planning standards and based on historical data and trends applicable to the political subdivision in which the individual unit of development is located during the previous 10 years." For the purpose of this study, *a service unit* is based on historical wastewater discharge over the past 10 years in terms of the estimated residential units. The residential unit is the development type that predominately uses a 3/4-inch water meter, which directly correlates to the representative return flow as wastewater from the same residential unit. The measure of discharge per service unit is based on a 3/4-inch meter the data shown in Table 2.9.

Year	Population	Residential Units (2.66 persons/unit)	Wastewater Flow Average Day Demand (MGD)	Flow per Service Unit (GPD)
2005	104,032	39,110	12.77	327
2006	105,604	39,701	8.47	213
2007	112,434	42,268	11.03	261
2008	116,934	43,930	10.77	245
2009	119,510	44,929	12.55	279
2010	127,921	48,091	12.99	270
2011	128,967	48,484	9.88	204
2012	131,914	49,592	10.58	213
2013	135,364	50,889	10.80	212
2014	138,157	51,939	11.41	220
Average Flow per Service Unit			247	

Table 2.9 Wastewater Service Unit Consumption Calculation

Based on the City's 10-year growth projections and the resulting wastewater flow projections, wastewater service will be required for an additional 10,964 service units. The calculation is as follows:

 A service unit, which is a unit of development that discharges approximately 247 gallons per day (GPD), is a typical residential connection that uses a 3/4-inch meter. Table 2.10 outlines the future wastewater discharge projections and its relationship to the additional service units projected for the next 10-years.

	Average Day	Service Unit	
	Flow	Demand	Service Units
Year	(MGD)	(GPD)	
2015	13.08	247	52,917
2025	15.79	247	63,881
10-year Addi	tional Service Units		10,964

Table 2.10 Wastewater 10-year Additional Service Unit Calculation

Impact fee law allows for a credit calculation to credit back the development community based on the utility revenues or ad valorem taxes that are allocated for paying a portion of future capital improvements. The intent of this credit is to prevent the City from double charging development for future capital improvements via impact fees and utility rates. If the City chooses not to pursue a financial analysis to determine the credit value, to the Chapter 395 law requires that they reduce the recoverable cost by 50 percent. The City has chosen not to calculate the credit value. Therefore, the maximum recoverable cost for impact fee shown below is 50 percent of the recoverable cost for impact fee CIP with debt service.

A breakdown of the 10-year recoverable costs and the associated impact fee per service unit is as follows:

Recoverable Impact Fee CIP Costs	\$9,797,112.60		
Debt Service	\$2,253,335.90		
Recoverable Impact Fee CIP Costs w/Debt Se	ervice \$12,050,448.50		
50 Percent Reduction	(\$6,025,224.25)		
Maximum Recoverable Cost for Impact Fee	\$6,025,224.25		
	<u>10-year recoverable costs</u> year additional service units		
Impact fee per service unit =	<u>\$6,025,224.25</u> 10,964		
Impact fee per service unit =	\$549.55		
nerefore, the maximum assessable impact fee p	per service unit is \$549.55.		

Table 2.11 Wastewater 10-year Recoverable Cost Breakdown

For a development that requires a different size meter, a service unit equivalent is established at a multiplier based on its capacity with respect to the 3/4-inch meter. The maximum impact fee that could be assessed for other meter sizes is based on the value shown on Table 2.12, Service Unit Equivalency Table for Commonly Used Meters.

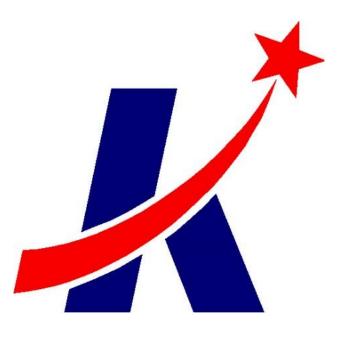
Meter Size	Maximum Continuous Operating Capacity (GPM) *	Service Unit Equivalent	Maximum Assessable Fee (\$)
3/4"	15	1	549.55
1 "	25	1.67	917.75
1 1/2″	50	3.33	1,830.00
2"	80	5.33	2,929.10
3″	175	11.67	6,413.25
4″	300	20.00	10,991.00
6″	675	45.00	24,729.75
8″	900	60.00	32,973.00

Table 2.12 Wastewater Service Unit Equivalency Table for Commonly Used Meters

\*Operating capacities obtained from American Water Works Association (AWWA) C-700-15 for positive displacement meters {3/4" – 2" meters} Table 1, Column 4, AWWA C-702-15 for compound meters (Class II) {3" – 8" meters} Table 1 Column 3. GPM – Gallons Per Minute

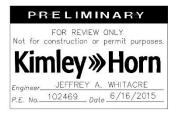
CHAPTER 3 - ROADWAY IMPACT FEE STUDY

# CITY OF KILLEEN, TEXAS 2015 ROADWAY IMPACT FEE STUDY



## 2015 Prepared for the City of Killeen

Prepared by: Kimley-Horn and Associates, Inc. 801 Cherry Street, Unit 11, Suite 950 Fort Worth, TX 76102 Phone 817 335 6511 TBPE Firm Registration Number: F-928 Project Number: 064405301 © Kimley-Horn and Associates, Inc.



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# City of Killeen 2015 Roadway Impact Fees

#### EXECUTIVE SUMMARY

This study was performed to create the City of Killeen Roadway Impact Fees. Transportation system analysis is an important tool for facilitating orderly growth of the transportation system and for providing adequate facilities. The implementation of an impact fee is one way to shift a portion of the burden for new facilities onto new development. In other words, it is a manner that helps facilitate growth paying for growth.

The City of Killeen is divided into three (3) service areas for the purposes of the 2015 Roadway Impact Fee Study. These service areas cover the entire corporate boundary of the City of Killeen. Each service area is an individual study area. For each service area the funds collected must be spent on projects identified in the Roadway Impact Fee Capital Improvement Program (CIP) for that specific service area.

Roadway improvements necessary to serve the 10-year (2015-2025) needs were evaluated. Typically, infrastructure improvements are sized beyond the 10-year requirement; however, Texas' impact fee law (Chapter 395) only allows recovery of costs to serve the 10-year planning period. For example, the projected recoverable cost attributed to new growth to construct the infrastructure needed through 2025 by service area are:

SERVICE AREA:	А	В	С
COST OF CAPACITY ADDED ATTRIBUTABLE TO GROWTH WITH FINANCING AND CREDIT FOR AD VALOREM TAXES	\$7,091,904	\$33,911,844	\$22,149,423

A portion of the remainder can be assessed as the planning window extends beyond 2025 and as the impact fees are updated in the future. As required by Chapter 395 (see Chapter 4) the recoverable cost attributed to new growth is reduced by 50% to account for the credit of the use of ad valorem taxes to fund the Roadway Impact Fee CIP.

Chapter 395 of the Local Government Code defines a service unit as "...a standardized measure of consumption attributable to an individual unit of development calculated in accordance with generally accepted engineering or planning standards and based on historical data and trends applicable to the political subdivision in which the individual unit of development is located during the previous 10 years."

Therefore, the City of Killeen defines a service unit as the number of vehicle-miles of travel during the afternoon peak-hour. For each type of development the City of Killeen utilizes the Land Use/Vehicle-Mile Equivalency Table (LUVMET) to determine the number of service units.

Based on the City's 10-year growth projections and the associated demand (consumption) values for each service area are as follow in terms of vehicle-miles:

SERVICE AREA:		А	В	С
TOTAL VEHICLE-MILES OF T DEMAND OVER TEN YEARS	NEW	22,181	20,434	12,143

Based on the additional service units and the recoverable capital improvements plans, the City can determine the maximum roadway impact fee per vehicle-mile by the following equation:

#### COST OF CAPACITY ADDED ATTRIBUTABLE TO GROWTH WITH FINANCING\*50%

#### TOTAL VEHICLE-MILES OF NEW DEMAND OVER TEN YEARS:

The resulting maximum roadway impact fees per vehicle-mile are:

SERVICE AREA:	А	В	С
MAX ASSESSABLE FEE PER SERVICE UNIT	\$160	\$830	\$912

## 3.1 INTRODUCTION

Chapter 395 (see Chapter 4) 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 of Killeen is developing its Land Use Assumptions and Roadway Impact Fee Capital Improvement Plan (CIP) to create the City's first Roadway Impact Fees. The City retained Kimley-Horn and Associates, Inc. (Kimley-Horn), to provide professional transportation engineering services for the creation of the 2015 Roadway Impact Fee Study. This report includes details of the impact fee calculation methodology in accordance with Chapter 395, the applicable Land Use Assumptions, development of the Roadway Impact Fee CIP, the creation of a Land Use Equivalency Table, and the calculation of the maximum fee to be assessed to future development.

This report introduces and references two of the basic inputs to the Roadway Impact Fee: the Land Use Assumptions and the Roadway Impact Fee Capital Improvement Plan (CIP). Information from these two components is used extensively in the remainder of the report. This report consists of a detailed discussion of the methodology for the computation of impact fees. The discussion - Methodology for Roadway Impact Fees and Impact Fee Calculation addresses each of the components of the computation and modifications required for the study. The components include:

- Service Areas
- Service Units
- Cost Per Service Unit
- Cost of the Roadway Impact Fee CIP
- Service Unit Calculation
- Maximum Assessable Impact Fee Per Service Unit; and
- Service Unit Demand Per Unit of Development

The report also includes a section concerning the Plan for Awarding the Roadway Impact Fee Credit. In the case of the City of Killeen, the credit calculation was based on awarding a 50% credit. The final section of the report is the Conclusion, which presents the findings of the analysis.



## 3.2 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. The land use assumptions used in this report were developed and presented in Chapter 1 titled *Land Use Assumptions for 2015 Impact Fee Study*.

Table 3.1 summarizes the residential and employment 10-year growth projections within the City Limits. It illustrates which service areas the 7,243 dwelling units will be located. The information provided in Table 3.1 was taken from the previously referenced *Land Use Assumptions for 2015 Impact Fee Study.* 

SERVICE AREA	SINGLE FAMILY (DWELLING UNITS)	MULTI FAMILY (DWELLING UNITS)	BASIC (ft <sup>2</sup> )	SERVICE (ft²)	RETAIL (ft²)
A	1,719	668	330,000	1,400,000	680,000
В	2,447	951	220,000	300,000	680,000
С	1,050	408	550,000	300,000	340,000
Total	5,215	2,028	1,100,000	2,000,000	1,700,000

Table 3.1. Residential and Non-Residential Land Use Assumptions Growth Projections (2015-2025)

#### B. Capital Improvement Plan

The City has identified the City-funded transportation projects needed to accommodate the projected growth within the City. According to Chapter 395, the Roadway Impact Fee CIP can include the following projects:

- Recently completed projects with excess capacity available to serve new growth not included in the City of Killeen;
- Projects currently under construction not included in the City of Killeen; and
- Projects identified on the City's Master Thoroughfare Plan for improvements.

The Roadway Impact Fee CIP that is proposed for the 2015 Roadway Impact Fee Study are mapped in Figure 3.1, Figure 3.2, and Figure 3.3. The Roadway Impact Fee CIP was developed in conjunction with input from City of Killeen staff and represents those projects that will be needed to accommodate the growth projected from the land use assumptions.

The various roadway classifications describe the purpose and function of each roadway. These roadway classifications are based on the City of Killeen Master Thoroughfare Plan – Functional Classification. There are five primary classifications that were used in the 2015 Killeen Roadway Impact Fee Study. These classifications are:

- Principal Arterial
- Minor Arterial
- Collector
- Marginal Access
- Local Street

Each of the classifications above has different assumed vehicular capacities assigned to them (see Table 3.2) based on their roadway characteristics and existing geometry. Freeways are designed to move the most traffic and provide a larger amount of capacity. Existing thoroughfares provide for travel between neighborhoods and commercial areas or serve as routes for thru-traffic. A collector's primary function is to bring traffic from local streets to the thoroughfare streets. Collectors are intended to move less traffic and are designed with lower vehicular capacity than arterial facilities. Local streets are not budgeted for in the Roadway Impact Fee CIP process and in turn impact fees.

	Table 3.2 Level of Use for the Existing/Proposed Facilities (used in Appendix A – Service Units of Supply)				
Roadway Type	Description	Hourly Vehicle-Mile Capacity per Lane-Mile of Roadway Facility			
M2U	Two Lane Undivided Marginal Access	425			
C2U	Two Lane Undivided Residential Collector	425			
C3U	Three Lane Undivided Mixed Collector	550			
C4U	Four Lane Undivided Commercial Collector	500			
C5U	Five Lane Undivided Commercial Collector	575			
A4U	Four Lane Undivided Minor Arterial	600			
A5U	Five Lane Undivided Minor Arterial	650			
A4D	Four Lane Divided Principal Arterial	750			
A8U	Eight Lane Undivided Principal Arterial	950			

#### CIP Project Summary and Description

Below is a list of the Roadway Impact Fee CIP projects used to develop the Roadway Impact Fee. The Estimated Projected costs are based on the Transportation Capital Improvements Program (CIP). Estimated Impact Fee Applicable Costs reflect the estimated cost of the CIP project applied to how much of the project is located in each of the three service areas.

A-1. SH 195 Overpass – Service Area A From Avenue E (FM 439) to Business 190

> The purpose of the SH 195 Overpass is to improve travel times and accessibility to Fort Hood as well as addressing the congestion problems at the intersection of SH 195 and Business 190. The project will include the construction of an overpass for SH 195 over Business 190 and the nearby BNSF rail-line.

Estimated Project Cost: Estimated Impact Fee Applicable Cost:

\$20,000,000 (CIP Plan) \$4,000,000 (20% of City contribution to TxDOT)



#### A-2, B-1. Jasper Drive Overpass – Service Area A and Service Area B From SH 5 to 500' East of SH 5

The Jasper Drive Overpass involves the reconstruction of the current overpass at the intersection of Jasper Drive and US 190. This projects aims to improve safety conditions and increase capacity in a congestion area were Florence Road and Jasper Drive intersection to cross US 190.

Estimated Project Cost: Estimated Impact Fee Applicable Cost: \$24,628,150 (CIP Plan) \$4,925,630 (20% of City Contribution to to TxDOT split between Service Area)

A-3 WS Young Drive – Service Area A From US 190 to Illinois Avenue

This project aims to improve efficiency and safety along WS Young Drive by reconfiguring traffic signals and making median improvements to help manage access to adjacent businesses and alleviate traffic congestion.

Estimated Project Cost: Estimated Impact Fee Cost: \$4,889,546 (CIP Plan) \$\$4,889,546

B-2. Florence Road – Service Area B From Jasper Drive to Elms Road

This project entails the widening of Florence Road between Elms Road and Jasper Drive This widening is necessary due to the increase traffic levels anticipated to occur when TxDOT reconstructs the Jasper Drive Overpass. The widening adds additional capacity to this segment of Florence Road.

Estimated Project Cost: Estimated Impact Fee Cost: \$6,292,450 (CIP Plan) \$6,292,450

#### Cunningham Road CIP Project –US 190 to FM 3470

As outlined in the Draft CIP Plan, the planned reconstruction of Cunningham Road spans 1.27 miles from US 190 to FM 3470 at a cost of \$7,817,350. These projects include B-3 and B-4. The cost of these two projects were determined by dividing the length of the Impact Fee project by the total 1.27 mile length. Next, this quantity was multiplied by the \$7,817,350 CIP Plan cost estimate for the Cunningham Road reconstruction.

#### B-3. Cunningham Road (1) – Service Area B From US 190 to Little Nolan Road

This project entails the construction of a new segment of Cunningham Road extending from US 190 and Little Nolan Road. The project will provide a more efficient route for northsouth movement as well as relieve congestion along Schlueter Loop (FM 3470), WS Young Drive and Elms Road. Project B-3 encompasses 45% of the length of the Cunningham Road CIP Plan Project.

Estimated Project Cost: Estimated Impact Fee Cost: \$3,517,808 (45% of the CIP Plan) \$3,517,808

B-4. Cunningham Road (2) – Service Area B From Little Nolan Road to Stan Schlueter Loop (FM 3470)

> This project includes the reconstruction of the existing segment of Cunningham Road from Little Nolan Road to Stan Schlueter Loop (FM 3470) from a two-lane facility to a three lane collector with a center turning lane. The project will provide a more efficient route for northsouth movement as well as relieve congestion along Schlueter Loop (FM 3470), WS Young Drive and Elms Road. Project B-4 encompasses 55% of the length of the Cunningham Road CIP Plan Project.

> Estimated Project Cost:\$4,299,542 (55% of the CIP Plan)Estimated Impact Fee Cost:\$4,299,542

B-5. Mohawk Drive (1) – Service Area B From Bunny Trail to Castle Gap Road

This project entails the extension of Mohawk Drive from its existing terminus just west of Louise Lane to Bridgewood Drive. The new roadway will be built as a five lane arterial including a center turning lane.

Estimated Project Cost: Estimated Impact Fee Cost: \$3,669,000 (Appendix B) \$3,669,000



B-6. Mohawk Drive (2) – Service Area B From Castle Gap to 2,494 feet east of Castle Gap

This project includes the construction of a new segment of Mohawk Drive from Bridgwood Drive to the its confluence with a planned Future N/S Collector identified in Killeen's Thoroughfare Plan. The new roadway will be built as a five lane arterial including a center turning lane.

Estimated Project Cost: Estimated Impact Fee Cost: \$1,818,000 (Appendix B) \$909,000

B-7 Mohawk Drive (3) – Service Area B From 2,494 feet east of Castle Gap to SH 195

This project includes the construction of a new segment of Mohawk Drive from its intersection with the planned Future N/S Collector to SH 195. The new roadway will be built as a five lane arterial including a center turning lane.

Estimated Project Cost: Estimated Impact Fee Cost: \$2,881,000 (Appendix B) \$2,881,000

C-1 Trimmier Road – Service Area C From Stagecoach Road to Chaparral Road

This project entails the reconstruction of Trimmier Road from Stagecoach Road to Chaparral Road from a two lane facility to a four lane divided roadway with a median. Due to new development and the building of a large education complex nearby, these improvements are needed in response to increased traffic volumes along Trimmier Road.

Estimated Project Cost:

Estimated Impact Fee Cost:

\$6,873,825 (CIP Plan minus \$1,500,000 for the roundabouts) \$6,873,825 C-2 Featherline Drive – Service Area C From Stagecoach Road to Killeen's city limit

> This project consists of the reconstruction of Featherline Drive to a five-lane arterial including a center turning lane between Stagecoach Road and Chaparral Road This project will also involve the construction of roundabouts where Featherline Road intersects Stagecoach Road and WS Young Drive.

Estimated Project Cost:

Estimated Impact Fee Cost:

\$6,386,382 (CIP Plan minus \$1,500,000 for roundabouts) \$6,386,382

C-3 E. Trimmier Road – Service Area C

From Stagecoach Road to Killeen's city limit

This project entails the reconstruction of E. Trimmier Road to a five-lane arterial between Stagecoach Road and Chaparral Road Enhancements to this segment of E. Trimmier Road are necessary to accommodate increase traffic volumes from the construction of new residential developments nearby.

Estimated Project Cost: Estimated Impact Fee Cost: \$6,047,000 (CIP Plan) \$6,047,000

Chaparral Road CIP Project – SH 195 to FM 3481

As outlined in the Draft CIP Plan, the planned reconstruction of Chaparral Road spans 5.84 miles from SH 195 to FM 3481 at a cost of \$18,666,900. Portions of this CIP project are located both within and outside of Killeen's city limit boundary. Due to this fact, the reconstruction of Chaparral Road is broken up into four projects for the 2015 Roadway Impact Fee Study, consisting of the portions of Chaparral Road that are positioned within the corporate limits of Killeen. These projects include C-4, C-5, C-6 and C-7. The cost of these four projects were determined by dividing the length of the Impact Fee project by the total 5.84 mile length. Next, this quantity was multiplied by the \$18,666,900 CIP Plan cost estimate for the Chaparral Road reconstruction. When Chaparral Road borders the extraterritorial jurisdiction only 50% of the project costs were included in the Roadway Impact Fee CIP.

C-4 Chaparral Road (1) – Service Area C/ETJ From SH 195 to Trimmier Road

> This project entails the reconstruction Chaparral Road extending from SH 195 to Trimmier Road into a four-lane divided arterial. The length of this project is 1.30 miles. This length shows that Project C-4 encompasses 22.0% of the length of the Chaparral Road CIP Plan Project.

Estimated Project Cost: Estimated Impact Fee Cost: \$4,106,718 (22% of CIP Plan) \$2,053,359

C-5 Chaparral Road (2) – Service Area C/ETJ From Trimmier Road to Featherline Drive

This project entails the reconstruction of Chaparral Road extending from Trimmier Road to Featherline Drive into a four-lane divided arterial. The length of this project is 0.83 miles. This length shows that Project C-5 encompasses 14.2% of the Chaparral Road CIP Plan project.

Estimated Project Cost: Estimated Impact Fee Cost: \$2,650,700 (14.2% of CIP Plan) \$1,325,350

C-6 Chaparral Road (3) – Service Area C/ETJ From East Trimmier Road to 325 feet west of Money Pit Road

> This project entails the reconstruction of the segment of Chaparral Road extending from East Trimmier Road to 325 feet west of Money Pit Road into a four-lane divided arterial. The length of this project is 0.47 miles. This length shows that Project C-6 encompasses 8.0% of the Chaparral Road CIP Plan project.

Estimated Project Cost: Estimated Impact Fee Cost:

\$1,493,352 (8% of the CIP Plan) \$746,676 C-7 Chaparral Road (4) – Service Area C

From 325 feet west of Money Pit Road to 700 feet east of Rosewood Drive

This project entails the reconstruction of Chaparral Road extending from 325 feet west of Money Pit Road to approximately 700 feet east of Rosewood Drive into a four-lane divided arterial. The length of this project is 0.94 miles. This length shows that Project C-7 encompasses 16.1% of the Chaparral Road CIP Plan project.

Estimated Project Cost: Estimated Impact Fee Cost: \$3,005,371 (16.1% of the CIP Plan) \$3,005,371

#### C-8 Rosewood Drive – Service Area C From Chaparral Road to Serpentine Drive

This project will extend Rosewood Drive from its current terminus south of Serpentine Drive to Chaparral Road. The extension of Rosewood Drive will consist of a new five-lane arterial including a center turning lane.

Estimated Project Cost: Estimated Impact Fee Cost: \$7,416,230 (CIP Plan) \$7,416,230

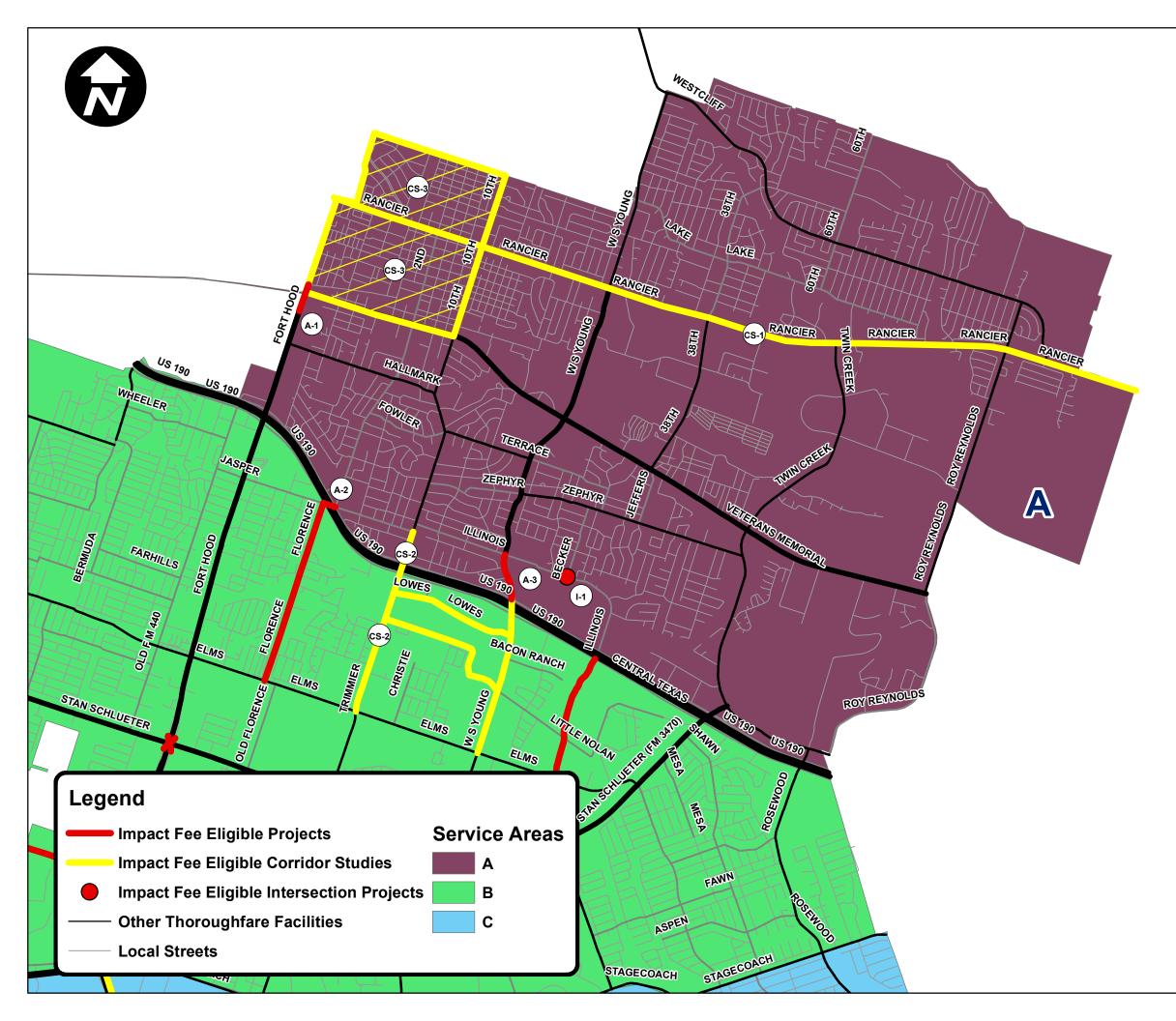
The following table below highlights the intersection improvement projects by Service Area that are included in the 2015 Roadway Impact Fee Study.

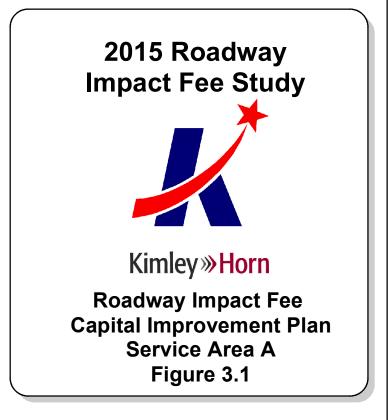
	Intersection Projects						
Service Area	Project#	Project	Limits	Project Cost			
A	<mark> -1</mark>	Install Signal	Illinois Avenue & Becker Drive	\$ 250,000.00			
B/C	I-2	Roundabout	Stagecoach Rd. & W.S. Young Dr.	\$ 750,000.00			
B/C	I-3	Roundabout	Stagecoach Rd. & Featherline Rd.	\$ 750,000.00			
B/C	I-4	Roundabout	Stagecoach Rd. & Cunningham Rd.	\$ 750,000.00			
B/C	I-5	Roundabout	Stagecoach Rd. & East Trimmier Rd.	\$ 1,000,000.00			
B/C	I-6	Install Signal	Bunny Trail & Clear Creek Rd.	\$ 190,000.00			
С	I-7	Turnaround	S.H. 195 & F.M. 3470 northside	\$ 400,000.00			
С	I-8	Turnaround	S.H. 195 & F.M. 3470 southside	\$ 400,000.00			
С	I-9	Install Signal	FM 3470 (Stan Schlueter Loop) & Mesa Drive	\$ 250,000.00			
С	I-10	Install Signal	FM 3470 (Stan Schlueter Loop) & Onion Road	\$ 250,000.00			
С	I-11	Install Signal	Jake Spoon Road & FM 3470 (Stan Schlueter Loop)	\$ 250,000.00			
С	I-12	Channelization	SH 195 & Pershing	\$ 400,000.00			
С	I-13	Channelization	SH 201 & John David	\$ 400,000.00			
С	I-14	Install Signal	WS Young Drive & Bacon Ranch Road	\$ 250,000.00			

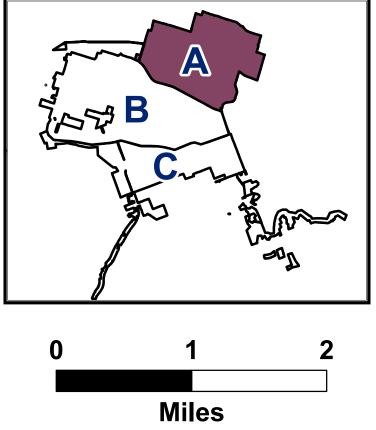
The following table below highlights the Corridor Studies by Service Area that are included in the 2015 Roadway Impact Fee Study.

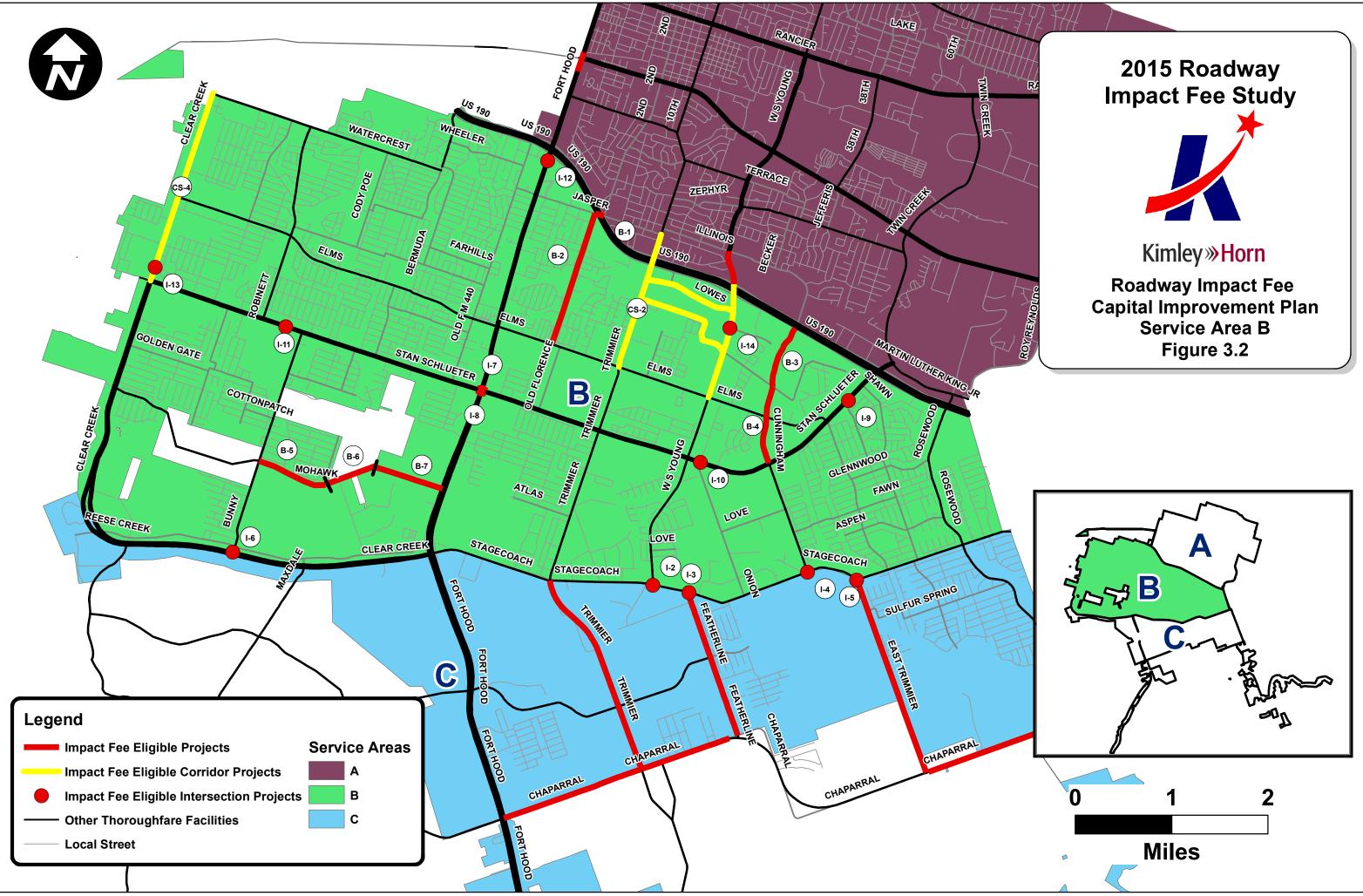
	Corridor Studies						
<u>Service Area</u>	Project#	Project	Limits		P	roject Cost	
A	CS-1	Rancier Avenue	Fort Hood Entrance (US 190)	City Limits	\$	225,000.00	
A/B	CS-2	Commercial Corridor Access	Trimmier Rd., WS Young Dr.,	Trimmier Rd., WS Young Dr., Lowe's Blvd., Bacon Ranch Rd.		125,000.00	
A	CS-3	One-Way Street Conversion	Downtown Killeen		\$	225,000.00	
B	CS-4	Clear Creek Rd./SH 201	Fort Hood Entrance (US 190)	Stan Schlueter (FM 3470)	S	125,000.00	
C	CS-5	SH 195 South	Clear Creek Dr. (SH 201)	FM 2484	\$	175,000.00	



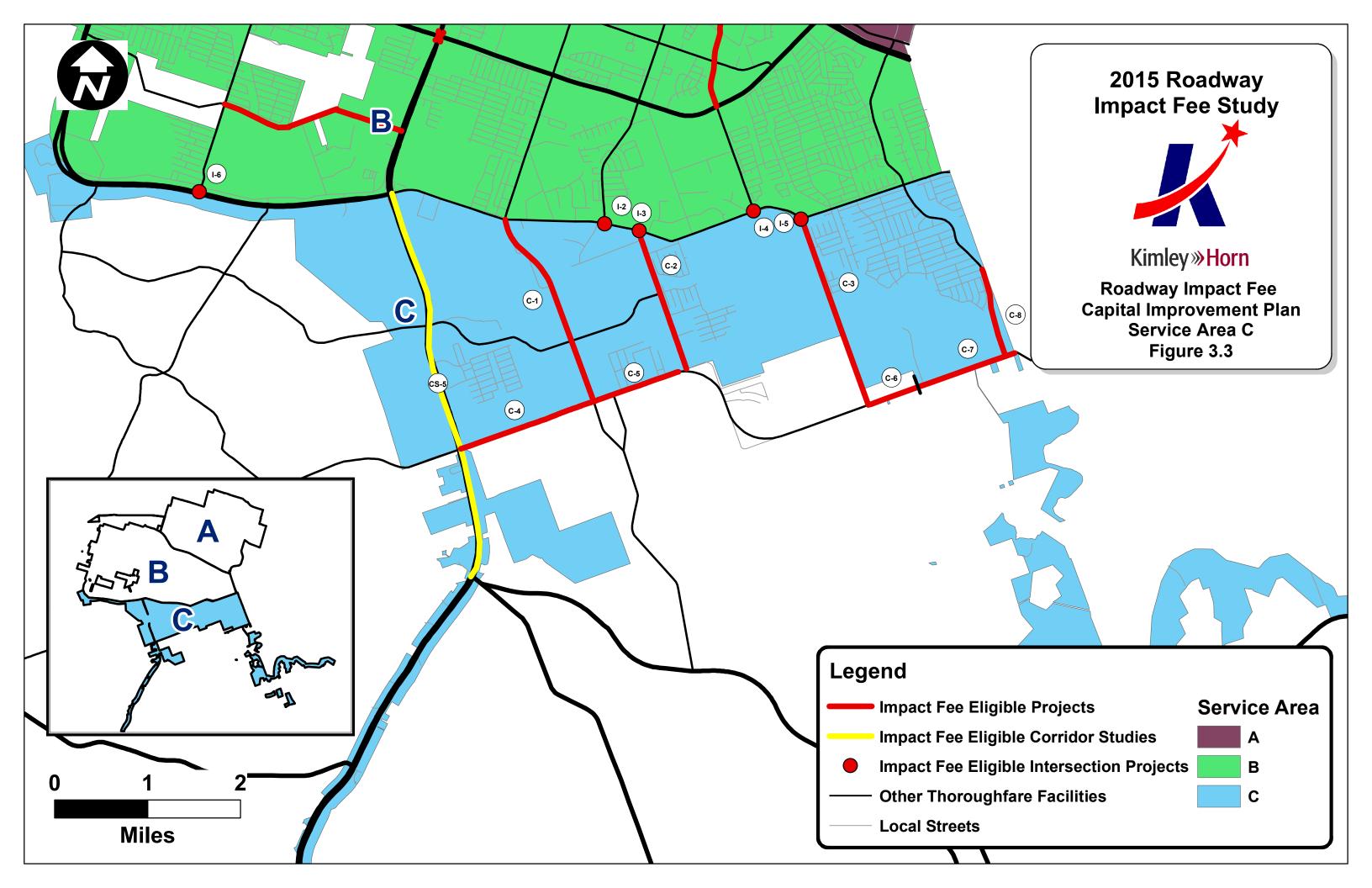












#### 3.3 METHODOLOGY FOR ROADWAY IMPACT FEES

#### A. Service Area

The service areas used in the 2015 Roadway Impact Fee Study are shown in the previously referenced Figure 1.1. Chapter 395 of the Texas Local Government Code specifies that "the service areas are limited to an area within the corporate boundaries of the political subdivision and shall not exceed six (6) miles." Based on the guidance in Chapter 395 and examination of the City of Killeen, three roadway service areas were deemed appropriate. These service areas cover the corporate boundary of the City of Killeen. The service area locations are listed below:

- Service Area A is located north of US 190
- Service Area B is located south of US 190 and North of SH 201/Stagecoach Road
- Service Area C is located south of SH 201/Stagecoach Rd

#### B. Service Units

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

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

The hourly service volumes used in the 2015 Roadway Impact Fee Study are based upon Thoroughfare Capacity Criteria Developed in the Highway Capacity Manual, but have been adjusted to the City of Killeen Master Thoroughfare Plan. Table 3.2 show the service volumes utilized in this report.

#### 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 2.4.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 2015 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."

A majority of the projects have recently been analyzed for both feasibility and cost in the 2015 Thoroughfare Plan. When available, those previously identified planning level cost was then utilized for the study.

Table 3.3 lists the Roadway Impact Fee CIP projects for the City of Killeen with conceptual level project cost projections. It should be noted that these tables reflect only conceptual-level opinions or assumptions regarding the portions of future project costs that are potentially

recoverable through impact fees. These costs are estimated using various City of Killeen documents and recent bid tabs of similar projects in the City of Killeen. Actual costs of construction are likely to change with time and are dependent on market and economic conditions that cannot be precisely predicted at this time.

This Roadway Impact Fee CIP establishes the list of projects for which impact fees may be utilized. Essentially, it establishes a list of projects for which an impact fee funding program can be established. This is different from a City's construction CIP, which provides a broad list of capital projects for which the City is committed to building. The cost projections utilized in this study should not be utilized for the City's building program or construction CIP.

#### Table 3.3 10-Year Roadway Impact Fee CIP with Conceptual Level Cost Projections

Service Area	Proj. #	Class	Koadway	Limits	Length (mi)	% in Servicea Area	Total Project Cost	Cost in Service Area	
	A-1	Overpass (A4U)	S.H. 195 (1)	Avenue E (FM439) to Business 190	0.18	100%	\$ 4,000,000	\$ 4,000,000	
	A-2, B-1	Overpass (A8U)	Jasper Drive (A)	Florence Road to US 190	0.08	50%	\$ 4,925,630	\$ 2,462,815	
	A-3	A4D	W.S. Young Drive	US 190 to Illinois Avenue	0.30	100%	\$ 4,889,546	\$ 4,889,546	
V		Intersection	Install Signal	Illinois Avenue & Becker Drive		1.00%	\$ 250,000	\$ 250.000	
8	CS-1	Corridor Study	Rancier Avenue	Fort Hood Entrance	-	100%	\$ 225.000	\$ 225.000	
~	CS-2	Corridor Study	Commercial Corridor Access	Trimmier Rd., WS Young Dr., Lowe's Blvd., Bacon Ranch Rd.		25%	\$ 125.000	\$ 31.250	
	CS-3	Corridor Study	One-WayStreet Conversion	Downtown Killeen (Conversion of downtown streets from 2-way streets to one-	-	100%	\$ 225,000	\$ 225,000 \$ 12,083,611	
	Service Area Project Cost Subtotal								
				2015 Roadway Impact Fee Cost Per Ser		Cost in SEE	RVICE AREA A	\$ 23,115 \$ 12,106,726	
				1	1				
Service Area	Proj. #	Class	Roadway	Limits	L cngth (mi)	% in Servicea Area	Total Project Cost	Cost in Service Area	
	B-1. A-2	Overpass (ASL)	Jasper Drive (B)	Florence Road to LS 190	0.08	50%	\$ 4925.630	\$ 2,462,815	
	B-2	CiU	Florence Road	Ja sper Drive to Elms Road	1.22	100%	\$ 6292.450	\$ 6.292.450	
	B-3	CIU	Cunningham Road (1)	U.S. Hwy 190 to Little Nolan Road	0.57	100%	\$ 3517.808	\$ 3.517.808	
	B 4	CIU	Cunningham Road (2)	Little Nolan Road to Stan Schlueter Loop (F.M. 3470)	0.70	100%	\$ 1299.512	<u>\$ 1.299.542</u>	
	B-5	ASU	Mohawk Drive (1)	Bunny Trail to Castle Gap	0.64	100%	\$ 4,602,000	\$ 4,602,000	
	B-6	ASU	Mohawk Drive (2)	Castle Gapio 2,494' East of Castle Gap	0.40	50%	\$ 2280,000	\$ 1,140,000	
	<b>B-7</b>	ASU	Mohawk Drive (3)	2.494 east of Castle Gap to S.II. 195	0.63	100%	\$ 3.613.000	\$ 3.613.000	
	I-2	Intersection	Roundabout	Stagecoach Rd. & W.S. Young Dr.		50%	\$ 750.000	\$ 375.000	
	I-3	Intersection	Roundabout	Stage coach Rd. & Fea therline Rd		50%	\$ 750.000	\$ 375.000	
	<u>I-4</u>	Intersection	Roundabout	Stage coach Rd. & Cunningham Rd.			\$ 750.000	\$ 375.000	
	I-5	Intersection	Roundabout	Stagecoach Rd. & East Trimmier Rd			\$ 1.000.000	\$ 500.000	
SA B	<u>I-6</u>	Intersection	Install Signal	Burny Trail & Clear Creek Rd			\$ 190.000	\$ 95.000	
<b>6</b> 6	I-7	Intersection	Turnaround	S.H. 195 & F.M 3470 northside	-	100%	\$ 400,000	\$ 400,000	
	I-8 I-9	Intersection	Turnaround	S.H. 195 & F.M. 3470 southside		100%	\$ 400,000 \$ 250,000	\$ 400,000 \$ 250,000	
	1-9	Intersection Intersection	Install Signal Install Signal	FM3470 (StanSchlueter Loop) & Mesa Drive FM34/0 (StanSchlueter Loop) & Omon Road	-	100%	\$ 250,000	\$ 250,000	
	I-10	Intersection	Install Signal	Jake Spoon Road & FM 3470 (Stan Schlueter Loop) & Onton Road		100%	\$ 250,000	\$ 250.000	
	I-12	Intersection	Channelization	SH 195 & Pershine	-	100%	\$ 400,000	\$ 400,000	
	I-12	Intersection	Channelization	SH 193 & Feisinite SH 201 & John David	-	100%	\$ 400,000	\$ 400.000	
	I-14	Intersection	Install Signal	W3 Young Drive & Bacon Ranch Road		100%	\$ 250.000	\$ 250,000	
	CS-2	Corridor Study	Commercial Corridor Access	Trimmier Rd., WS Young Dr., Lowe's Blvd., Bacon Ranch Rd.		75%	\$ 125,000	\$ 93.750	
	CS-4	Corridor Study	Clear Creek Rd./SH 201	Fort Hood Entrance (US 190) to Stan Schlueter (FM 3470)	-	100%	\$ 125,000	\$ 125,000	
		-		Service Area Project Cos				\$ 30,466,365	
				2015 Roadway Impact Fee. Cost Per Ser		Cost in SEE	<b>VICE AREA B</b>	\$ 23,115 \$ 30,489,480	
Service Area	Proj. #	Class	Roadway	Limits	Length (mi)	% in Servicea Area	Total Project Cost	Cost in Service Area	
	C-1	ASU	Trimmier Road	Stagec oach Road to Chaparral Road	1.89	100%	\$ 6.873.825	\$ 6.873.825	
	C-2	AJU	Featherline Drive	Stage coach Road to CityLimit	1.34	100%	\$ 6,386,382	\$ 6,386,382	
	C-3	ASU	E. Trimmier Road	Stage coach Road to CityLimit	1.13	100%	\$ 6,047,000	\$ 6,047,000	
	C-4	A4D	Chaparral Road (1)	S.H. 195 to Trimmier Road	1.30	50%	\$ 4.106.718	\$ 2.053.359	
	C-5	A4D	Chaparral Road (2)	Trimmier Rd. to Featherline Drive	0.83	50%	\$ 2,650,700	\$ 1.325.350	
	C-6	A4D	Chaparral Road (3)	CitvLimit to 325' West of MonevPit Road	0.47	50%	\$ 1.493.352	\$ 746.676	
• •	C-7	A4D	Chaparral Road (4)	Platimm Drive to 700' East of Rosewood Drive	0.94	100%	\$ 3,005,371	\$ 3.005.371	
SA C	C-8	A5U	Rosewood Drive	Chaparral Road to Serpentine Drive	0.83	100%	\$ 7,416,230	\$ 7.416.230	
20	<u>L2</u>	Intersection	Roundabout	Stagecoach Rd, &W.S. Young Dr.		50%	\$ 750,000	\$ 375,000	
	I-3	Intersection	Roundabout	Stagecoach Rd. & Featherline Rd.	-	50%	\$ 750,000	\$ 375,000	
	I-4	Intersection	Roundabout	Stagecoach Rd. & Cunningham Rd.	-	50%	\$ 750,000 \$ 1000,000	\$ 375,000	
	1.5	Intersection	Roundabout	Stagecoach Rd. & East Trimmier Rd.	-	50%	2 1,000,000	\$ 500,000	
	1-6 CS-5	Intersection	Install Signal SH 195 South	Bunny Trail & Clear Creek Rd. Clear Creek Dr. (SH 201) to FM 2484		50% 100%	\$ 190.000 \$ 175.000	\$ 95.000 \$ 175.000	
	CS-2	Corridor Study	2H1A3 201m			100%	<u>1/3,000</u>		
				Service Area Project Cos				\$ 35,749,193	
				2015 Roadway Impact Fee Cost Per Ser	vice Area			\$ 23,115	
							<b>WICE AREA C</b>	\$ 35,772,308	

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

#### E. Service Unit Calculation

The basic service unit for the computation of the City of Killeen'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 tenyear study period. The growth in vehicle-miles from 2015 to 2025 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 2015 were made along with projections for each of these demographic statistics through 2025 using known development information provided by the City of Killeen. The Land Use Assumptions (see Table 3.1) details the growth estimates used for the impact fee determination.

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

For non-residential land uses, the process is similar. The Land Use Assumptions provide the existing and projected amount 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 nonresidential trips in the Institute of Transportation Engineers' (ITE), Trip Generation Manual, 9th Edition. This independent variable 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 vehiclemiles 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, 9th Edition, and the regional Origin-Destination Travel Survey performed by the National Household Travel Survey (NHTS). The ITE, Trip Generation Manual, 9th 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 a trip analysis of Killeen using the Network Analyst Function in ArcGIS 10.2.

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;
Т	= Trip Rate (peak hour trips / unit);
Pb	= Pass-By Discount (% of trips);
$L_{\text{max}}$	= Maximum Trip Length (miles);
L	= Average Trip Length (miles);
OD	= Origin-Destination Reduction (50%); and
$SA_L$	= Max Service Area Trip Length (see Table 3.4).

The adjustment made to the average trip length (L) statistic in the computation of the maximum trip length (Lmax) is the origin-destination reduction (OD). This adjustment is made because the roadway impact fee is charged to both the origin and destination end of the trip. For example, the impact fee methodology will account for a trip from home to work within the City of Killeen to both residential and non-residential land uses. To avoid counting these trips as both residential and non-residential trips, a 50% origin-destination (OD) reduction factor is applied. Therefore, only half of the trip length is assessed to each land use.

Table 3.4 shows the derivation of the Transportation Demand Factor for the two (2) residential land uses and the three (3) non-residential land uses. The values utilized for all variables shown in the Transportation Demand Factor equation are also shown in the table.

Variable	Residential	Multifamily	Basic (General Light Industrial)	Service (General Office)	Retail (Shopping Center)
T	1.0	0.62	0.97	1.49	3.71
Pb	0%	0%	0%	0%	34%
T (with P <sub>b</sub> )	1.0	1.0	0.97	1.49	2.45
L (miles)	8.2	8.2	10.02	6.0	6.7
SAL	6.0	6.0	6.0	6.0	6.0
L <sub>max</sub> * (miles)	4.10	4.10	5.01	3.0	3.35
TDF	4.10	2.54	4.86	4.47	8.20

Table 3.4	Transportation	<b>Demand Factor</b>	Calculations
	mansportation	Demand Factor	Calculations

The application of the demographic projections and the transportation demand factors are presented in the 10-Year Growth Projections in Table 3.5. This table shows the total vehicle-miles by service area for the years 2015-2025. These estimates and projections lead to the Vehicle Miles of Travel for 2015-2025.

Table 3.5 10-Year Growth Projections	TIAL VEHICLE-MILES	Single <u>Trip Rate</u> Multi-Family <u>Trip Rate</u> VEHICLE BASIC SERVICE RETAL BASIC <sup>6</sup> SERVICE <sup>7</sup> RETAL <sup>8</sup> BASIC SERVICE RETAL BASIC <sup>6</sup>	1.00 0.02 0.02 0.02 1.49 3.71	1,719         668         8,744         330,000         1,400,000         680,000         680,000         1,604         6,258         5,576	2,447 4.10 951 2.54 12,448 220,000 300,000 680,000 4.86 4.47 8.20 1,069 1,341 5,576	1,050         408         5,341         550,000         300,000         340,000         340,000         2,673         1,341         2,788	5,215 2,028 26,533 1,100,000 2,000,000 1,700,000 5,346 8,940 13,940	VEHICLE-MILES OF INCREASE (2015 - 2025) 4,800,000 12,230	VEH-MILES Notes:	22,182 406.4 <sup>1</sup> From Section 2.3	20,434 <sup>2</sup> Transportation Demand Factor for each Service Area (from LUVMET) using Single Family Detached Housing and Apartment land use and <i>trip generation rate</i>	<sup>3</sup> Calculated by multiplying TDF by the number of dwelling units	<sup>4</sup> From Section 2.3	<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 <i>trip generation rate</i> <sup>7</sup> 'Service' corresponds to General Office land use and <i>trip generation rate</i>	<sup>8</sup> Retail corresponds to Shopping Center land use and <i>trip generation rate</i> <sup>9</sup> Calculated by multiplying Transportation Demand Factor by the number of thousand square feet for each land use
15 - 2025 Gr	SERVICE			A 1,719	B 2,447	<b>C</b> 1,05(	Totals 5,21	IICLE-MILES O	SERVICE VEH-MI	A 22,18	<b>B</b> 20,43	<b>C</b> 12,14				

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### 3.4 IMPACT FEE CALCULATION

#### A. Maximum Assessable Roadway Impact Fee Per Service Unit

This section presents the maximum assessable roadway impact fee rate calculated for each service area. The maximum assessable roadway 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 3.6 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.

Line	Title	Description
1	Total Vehicle-Miles of Capacity Added by the Impact Fee 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 A – CIP Service Units of Supply)

Each project identified in the Roadway 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 the service area.

2	A measure of the amount of traffic currently using the roadway facilities upon which capacity is being added. (from Appendix A – CIP Service Units of Supply)
	(if on Appendix A on Service onits of Suppry)

In order to ensure that existing deficiencies on the City's roadway network are not recoverable through impact fees, this line is based on the entire roadway network within the service area. Any roadway within the service area that is deficient – even those not identified on the Roadway Impact Fee CIP – will have these additional trips removed from the calculation.

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

Λ	Total Cost of the	The total cost of the projects within the service area (from					
4	CIP within the	Table 3.3 10-Year Roadway Capital Improvement Plan					
	Service Area	with Conceptual Level Cost Projections)					



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

5	Cost of Net Capacity Supplied	The total CIP cost (Line 5) prorated by the ratio of Net Capacity Added (Line 3) to Total Capacity Added (Line 1). [(Line 3 / Line 1) * (Line 4)]
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Using the ratio of vehicle-miles added by the Roadway Impact Fee CIP available to serve future growth to the total vehicle-miles added, the total cost of the Roadway Impact Fee CIP is reduced to the amount available for future growth (i.e., excluding existing usage and deficiencies).

	Cost to Meet	The difference between the Total Cost of the CIP (Line 4)
6	Ŭ,	and the Cost of the Net Capacity supplied (Line 5). (Line
	Usage	4 – Line 5)

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.

7	of New Demand	Based upon the growth projection provided in the Land Use Assumptions (see Chapter 1), an estimate of the number of new vehicle-miles within the service area over the next ten years. (from Table 3.5)
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This line presents the amount of growth (in vehicle-miles) projected to occur within each service area over the next ten years.

8	Percent of Capacity Added Attributable to New Growth	The result of dividing Total Vehicle-Miles of New Demand (Line 7) by the Net Amount of Capacity Added (Line 3), limited to 100% (Line 9). This calculation is required by Chapter 395 to ensure capacity added is attributable to
9	Chapter 395 Check	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.

10	1 3	The result of multiplying the Cost of Net Capacity Added (Line 5) by the Percent of Capacity Added Attributable					
		to New Growth, limited to 100% (Line 9).					

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 to 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 Roadway Impact Fee Capital Improvement Program..."

The following table summarizes the portions of Table 3.6 that utilize this credit calculation, based on awarding a 50 percent credit.

Line	Title	Description
11	Cost of Capacity Added Attributable to Growth and Financing	Found by multiplying Cost of Capacity Added Attributable to New Growth (Line 10) by 23% in order to determine the Financing cost and then adding the Financing cost to the Cost of Capacity Added Attributable to New Growth (Line 10). ((Line 10 * 23%)) + (Line 10))
12	Cost of Capacity Added Attributable to Growth with Financing and 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.
13	Maximum Assessable Fee Per Service Unit	Found by dividing the Recoverable Cost of the CIP attributable to growth (Line 12) by the Total Vehicle- Miles of New Demand Over Ten Years (Line 7). (Line 12 / Line 7)

	SERVICE AREA:		A		B		С
1	TOTAL VEH-MI OF CAPACITY ADDED BY THE CIP (FROM ROADWAY IMPACT FEE CIP SERVICE UNITS OF SUPPLY, <b>APPENDIX A</b> )		1,726		8,837		24,118
2	TOTAL VEH-MI OF EXISTING DEMAND (FROM ROADWAY IMPACT FEE CIP SERVICE UNITS OF SUPPLY, <b>APPENDIX A</b> )		904		846		3,435
3	NET AMOUNT OF VEH-MI OF CAPACITY ADDED (LINE 1 - LINE 2)		822		7,991		20,683
4	TOTAL COST OF THE CIP WITHIN SERVICE AREA (FROM <b>TABLE 3.3</b> )		12,106,726	\$	30,489,480	\$	35,772,308
5	COST OF NET CAPACITY SUPPLIED (LINE 3 / LINE 1) * (LINE 4)		5,765,776	\$	27,570,605	\$	30,677,446
6	COST TO MEET EXISTING NEEDS AND USAGE (LINE 4 - LINE 5)		6,340,950	\$	2,918,875	\$	5,094,862
7	TOTAL VEH-MI OF NEW DEMAND OVER TEN YEARS (FROM TABLE 3.5 and Land Use Assumptions)		22,182		20,434		12,143
8	PERCENT OF CAPACITY ADDED ATTRIBUTABLE TO GROW TH (LINE 7 / LINE 3)		2698.5%		255.7%		58.7%
9	IF LINE 7 > LINE 3, REDUCE LINE 9 TO 100%, OTHERWISE NO CHANGE		100.0%		100.0%		58.7%
10	COST OF CAPACITY ADDED ATTRIBUTABLE TO GROWTH (LINE 5 * LINE 9)	\$	5,765,776	\$	27,570,605	\$	18,007,661
11	COST OF CAPACITY ADDED A TRRIBUTABLE TO GROWTH A ND FINANCING (23%) ((LINE 10 * 23%) + LINE 10))		7,091,904	\$	33,911,844	\$	22,149,423
12	COST OF CAPACITY ADDED ATRRIBUTABLE TO GROWTH WITH FINANCING (LINE 11) AND CREDIT FOR AD VALOREM TAXES (50% OF LINE 11)		3,545,952	\$	16,955,922	\$	11,074,712
13	MAX ASSESSABLE FEE PER SERVICE UNIT (\$ PER VEH-MI) (LINE 12 / LINE 7)	\$	160	\$	830	\$	912

#### Table 3.6. Maximum Assessable Roadway Impact Fee

#### 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 3.7. This table lists the predominant land uses that may occur within the City of Killeen. 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 is 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 the ITE Trip Generation Manual, 9th Edition, the latest edition 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 a trip analysis of Killeen using the Network Analyst Function in ArcGIS 10.2. 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 trip length allowed within the service area, the maximum trip length used for calculation is reduced to the corresponding value. This reduction, as discussed previously, limits the maximum trip length to the approximate size of the service areas.

The remaining column in the LUVMET shows the vehicle-miles per development unit. This number is the product of the trip rate and the maximum trip length. This number, previously referred to as the Transportation Demand Factor, is used in the impact fee estimate to compute the number of service units consumed by each land use application. 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.

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 Length (mi)	Max Trip Length (mi)	Veh-Mi Per Dev-Unit
PORT AND TERMINAL											
Truck Terminal	030	Acre	6.55			6.55	10.02	50%	5.01	5.01	32.82
INDUSTRIAL											
General Light Industrial	110	1,000 SF GFA	0.97			0.97	10.02	50%	5.01	5.01	4.86
General Heavy Industrial	120	1,000 SF GFA	0.68			0.68	10.02	50%	5.01	5.01	3.41
Industrial Park	130	1,000 SF GFA	0.85			0.85	10.02	50%	5.01	5.01	4.26
Warehousing	150	1,000 SF GFA	0.32			0.32	10.02	50%	5.01	5.01	1.60
Mini-Warehouse	151	1,000 SF GFA	0.26			0.26	10.02	50%	5.01	5.01	1.30
RESIDENTIAL											
Single-Family Detached Housing	210	Dwelling Unit	1.00			1.00	8.20	50%	4.10	4.10	4.10
Apartment/Multi-family	220	Dwelling Unit	0.62			0.62	8.20	50%	4.10	4.10	2.54
Residential Condominium/Townhome	230	Dwelling Unit	0.52			0.52	8.20	50%	4.10	4.10	2.13
Senior Adult Housing-Detached	251	Dwelling Unit	0.27			0.27	8.20	50%	4.10	4.10	1.11
Senior Adult Housing-Attached	252	Dwelling Unit	0.25			0.25	8.20	50%	4.10	4.10	1.03
Assisted Living	254	Beds	0.22			0.22	8.20	50%	4.10	4.10	0.90
LODGING											
Hotel	310	Room	0.60			0.60	6.70	50%	3.35	3.35	2.01
Motel / Other Lodging Facilities	320	Room	0.47			0.47	6.70	50%	3.35	3.35	1.57
RECREATIONAL											
Golf Driving Range	432	Tee	1.25			1.25	6.43	50%	3.22	3.22	4.03
Golf Course	430	Acre	0.30			0.30	6.43	50%	3.22	3.22	0.97
Recreational Community Center	495	1,000 SF GFA	2.74			2.74	6.43	50%	3.22	3.22	8.82
Ice Skating Rink	465	1,000 SF GFA	2.36			2.36	6.43	50%	3.22	3.22	7.60
Miniature Golf Course	431	Hole	0.33			0.33	6.43	50%	3.22	3.22	1.06
Multiplex Movie Theater	445	Screens	13.64			13.64	6.43	50%	3.22	3.22	43.92
Racquet / Tennis Club	491	Court	3.35			3.35	6.43	50%	3.22	3.22	10.79
INSTITUTIONAL									0.00		
Church	560	1,000 SF GFA	0.55			0.55	4.02	50%	2.01	2.01	1.11
Day Care Center	565	1,000 SF GFA	12.34	44%	В	6.91	6.00	50%	3.00	3.00	20.73
Primary/Middle School (1-8)	522	Students	0.16			0.16	6.00	50%	3.00	3.00	0.48
High School (9-12)	530	Students	0.13			0.13	6.00	50%	3.00	3.00	0.39
Junior / Community College		Students	0.12			0.12	6.00	50%	3.00	3.00	0.36
University / College	550	Students	0.17			0.17	6.00	50%	3.00	3.00	0.51
MEDICAL											
Clinic	630	1,000 SF GFA	5.18			5.18	6.00	50%	3.00	3.00	15.54
Hospital	610	1,000 SF GFA	0.93			0.93	6.00	50%	3.00	3.00	2.79
Nursing Home	620	Beds	0.22			0.22	6.00	50%	3.00	3.00	0.66
Animal Hospital/Veterinary Clinic	640	1,000 SF GFA	4.72	30%	В	3.30	6.00	50%	3.00	3.00	9.90
OFFICE							ļ				
Corporate Headquarters Building	714	1,000 SF GFA	1.41			1.41	6.00	50%	3.00	3.00	4.23
General Office Building	710	1,000 SF GFA	1.49			1.49	6.00	50%	3.00	3.00	4.47
Medical-Dental Office Building	720	1,000 SF GFA	3.57			3.57	6.00	50%	3.00	3.00	10.71
Single Tenant Office Building	715	1,000 SF GFA	1.74			1.74	6.00	50%	3.00	3.00	5.22
Office Park	750	1,000 SF GFA	1.48			1.48	6.00	50%	3.00	3.00	4.44

### Table 3.7 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 Length (mi)	Max Trip Length (mi)	Veh-Mi Per Dev-Unit
COMMERCIAL											
Automobile Related											
Automobile Care Center	942	1,000 SF Occ. GLA	3.11	40%	В	1.87	6.43	50%	3.22	3.22	6.02
Automobile Parts Sales	843	1,000 SF GFA	5.98	43%	A	3.41	6.43	50%	3.22	3.22	10.98
Gasoline/Service Station	944	Vehicle Fueling Position	13.87	42%	A	8.04	1.20	50%	0.60	0.60	4.82
Gasoline/Service Station w/ Conv Market	945	Vehicle Fueling Position	13.51	56%	В	5.94	1.20	50%	0.60	0.60	3.56
Gasoline/Service Station w/ Conv Market and Car Wash	946	Vehicle Fueling Position	13.86	56%	A	6.10	1.20	50%	0.60	0.60	3.66
New and Used Car Sales	841	1,000 SF GFA	2.62	20%	В	2.10	6.43	50%	3.22	3.22	6.76
Quick Lubrication Vehicle Shop	941	Servicing Positions	5.19	40%	В	3.11	6.43	50%	3.22	3.22	10.01
Self-Service Car Wash	947	Stall	5.54	40%	В	3.32	1.20	50%	0.60	0.60	1.99
Tire Store	848	1,000 SF GFA	4.15	28%	A	2.99	6.43	50%	3.22	3.22	9.63
Dining											
Fast Food Restaurant with Drive-Thru Window	934	1,000 SF GFA	32.65	50%	A	16.33	4.79	50%	2.40	2.40	39.19
Fast Food Restaurant without Drive-Thru Window	933	1,000 SF GFA	26.15	50%	В	13.08	4.79	50%	2.40	2.40	31.39
High Tumover (Sit-Down) Restaurant	932	1,000 SF GFA	9.85	43%	A	5.61	4.79	50%	2.40	2.40	13.46
Sit Down Restaurant	931	1.000 SF GFA	7.49	44%	A	4.19	4.79	50%	2.40	2.40	10.06
Coffee/Donut Shop with Drive-Thru Window	937	1,000 SF GFA	42.80	70%	A	12.84	4.79	50%	2.40	2.40	30.82
Other Retail											
Free-Standing Retail Store	815	1,000 SF GFA	4.98	30%	С	3.49	6.70	50%	3.35	3.35	11.69
Nursery (Garden Center)	817	1,000 SF GFA	6.94	30%	В	4.86	6.70	50%	3.35	3.35	16.28
Home Improvement Superstore	862	1,000 SF GFA	2.33	48%	A	1.21	6.70	50%	3.35	3.35	4.05
Pharmacy/Drugstore	881	1,000 SF GFA	9.91	49%	A	5.05	6.70	50%	3.35	3.35	16.92
Shopping Center	820	1,000 SF GLA	3.71	34%	A	2.45	6.70	50%	3.35	3.35	8.20
Supermarket	850	1,000 SF GFA	9.48	36%	A	6.07	6.70	50%	3.35	3.35	20.33
Toy/Children's Superstore	864	1,000 SF GFA	4.99	30%	В	3.49	6.70	50%	3.35	3.35	11.69
Department Store	875	1,000 SF GFA	1.87	30%	B	1.31	6.70	50%	3.35	3.35	4.39
SERVICES											
Walk-In Bank	911	1,000 SF GFA	12.13	40%	В	7.28	3.39	50%	1.70	1.70	12.38
Drive-In Bank	912	Drive-in Lanes	33.24	47%	A	17.62	3.39	50%	1.70	1.70	29.95
Hair Salon	918	1,000 SF GLA	1.45	30%	В	1.02	3.39	50%	1.70	1.70	1.73

### Table 3.7 Land Use / Vehicle-Mile Equivalency Table (LUVMET) (Continued)

### 3.5 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

	Roadway Impact Fee Calculation Steps – Example 1
Step 1	Determine Development Unit and Vehicle-Miles Per Development Unit From Table 3.7 [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: 4.10
Step 2	Determine Maximum Assessable Impact Fee Per Service Unit From Table 3.6, Line 13 [Maximum Assessable Fee Per Service Unit] Maximum Fee for City of Killeen (Service Area C): \$912 / vehicle-mile
	Determine Maximum Assessable Impact Fee
Step 3	Impact Fee = # of Development Units * Veh-Mi Per Dev Unit * Max. Fee Per Service Unit Impact Fee = 1 * 4.10 * \$912 Maximum Assessable Impact Fee = \$3,739.20

Example 2:

• Development Type – 3,500 sq. ft. High Turnover Sit-Down Restaurant

	Roadway Impact Fee Calculation Steps – Example 2
Step 1	Determine Development Unit and Vehicle-Miles Per Development Unit From Table 3.7 [Land Use – Vehicle Mile Equivalency Table] Development Type: 3,500 square foot High Turnover Sit-Down Restaurant Development Unit: 1,000 square feet of Gross Floor Area Veh-Mi Per Development Unit: 13.46
Step	Determine Maximum Assessable Impact Fee Per Service Unit
2	From Table 3.6 Line 13 [Maximum Assessable Fee Per Service Unit] Maximum Fee for City of Killeen: \$160 / vehicle-mile
	Determine Maximum Assessable Impact Fee
Step 3	Impact Fee = # of Development Units * Veh-Mi Per Dev Unit * Max. Fee Per Service Unit Impact Fee = 3.5 * 13.46 * \$160 Maximum Assessable Impact Fee = \$7,537.60

# 3.6 CONCLUSION

The City of Killeen 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 Killeen.

SERVICE AREA:	А	В	С
MAX ASSESSABLE FEE PER SERVICE UNIT	\$160	\$830	\$912

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 to create a Roadway Impact Fee Ordinance accordingly.

In conclusion, it is our opinion that the data and methodology used in this Roadway Impact Fee analysis 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.



# City of Killeen - 2015 Roadway Impact Fee

# CIP Service Units of Supply

Service .	Area A												4/29/2015
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	DJECT COST N SERVICE AREA
A-1	S.H. 195 (1)	Avenue E (FM 439) to Business 190	0.18	4	Overpass (A4U)	1,046	100%	700	508	190	318	\$ 4,000,000.00	\$ 4,000,000
A-2, B-1	Jasper Drive (A)	Florence Road to US 190	0.08	4	Overpass (A8U)	1,052	50%	950	319	88	231	\$ 4,925,630.00	\$ 2,462,815
A-3	W.S. Young Drive	US 190 to Illinois Avenue	0.30	4	A4D	2,089	100%	750	899	626	273	\$ 4,889,546.00	\$ 4,889,546
I-1	Install Signal	Illinois Avenue & Becker Drive					100%					\$ 250,000.00	\$ 250,000
CS-1	Rancier Avenue	Fort Hood Entrance					100%					\$ 225,000.00	\$ 225,000
CS-2	Commercial Corridor Access	Trimmier Rd., WS Young Dr., Lowe's Blvd., Bacon Ranch Rd.					25%					\$ 125,000.00	\$ 31,250
CS-3	One-Way Street Conversion	Downtown Killeen (Conversion of downtown streets from 2-way streets to one-way)					100%					\$ 225,000.00	\$ 225,000
SUBTOTAL									1,726	904	822		\$ 12,083,611
							2	015 Roadwa	ay Impact Fe	ee Cost Per	Service Area		\$ 15,667
								тот	AL COST	IN SERVI	CE AREA A		\$ 12,099,278

# 2015 Roadway Impact Fee Update City of Killeen Texas

# City of Killeen - 2015 Roadway Impact Fee

## CIP Service Units of Supply

## Service Area B

Project ID #	ROADWAY	LIMITS	LENGTH (MI)	LANES	IMPACT FEE CLASSIFICATION	PEAK HOUR VOLUME	% IN SERVICE AREA	VEH-MI CAPACITY PK-HR PER LN	VEH-MI SUPPLY PK-HR TOTAL	VEH-MI TOTAL DEMAND PK-HR	EXCESS CAPACITY PK-HR VEH-MI	то	TAL PROJECT COST	JECT COST SERVICE AREA
B-1, A-2	Jasper Drive (B)	Florence Road to US 190	0.08	4	Overpass (A8U)	1,052	50%	950	315	87	228	\$	4,925,630.00	\$ 2,462,815
B-2	Florence Road	Jasper Drive to Elms Road	1.22	4	C5U	527	100%	575	2805	643	2,162	\$	6,292,450.00	\$ 6,292,450
B-3	Cunningham Road (1)	U.S. Hwy 190 to Little Nolan Road	0.57	2	C3U	New	100%	550	627	0	627	\$	3,517,808.00	\$ 3,517,808
B-4	Cunningham Road (2)	Little Nolan Road to Stan Schlueter Loop (F.M. 3470)	0.70	2	C3U	167	100%	550	765	116	649	\$	4,299,542.00	\$ 4,299,542
B-5	Mohawk Drive (1)	Bunny Trail to Castle Gap	0.64	4	A5U	New	100%	650	1660	0	1660	\$	4,602,000.00	\$ 4,602,000
B-6	Mohawk Drive (2)	Castle Gap to 2,494' East of Castle Gap	0.40	4	A5U	New	50%	650	1031	0	1031	\$	2,280,000.00	\$ 1,140,000
B-7	Mohawk Drive (3)	2,494 east of Castle Gap to S.H. 195	0.63	4	A5U	New	100%	650	1634	0	1634	\$	3,613,000.00	\$ 3,613,000
I-2	Roundabout	Stagecoach Rd. & W.S. Young Dr.					50%					\$	750,000.00	\$ 375,000
I-3	Roundabout	Stagecoach Rd. & Featherline Rd.					50%					\$	750,000.00	\$ 375,000
I-4	Roundabout	Stagecoach Rd. & Cunningham Rd.					50%					\$	750,000.00	\$ 375,000
I-5	Roundabout	Stagecoach Rd. & East Trimmier Rd.					50%					\$	1,000,000.00	\$ 500,000
I-6	Install Signal	Bunny Trail & Clear Creek Rd.					50%					\$	190,000.00	\$ 95,000
I-7	Turnaround	S.H. 195 & F.M. 3470 northside					100%					\$	400,000.00	\$ 400,000
I-8	Turnaround	S.H. 195 & F.M. 3470 southside					100%					\$	400,000.00	\$ 400,000
I-9	Install Signal	FM 3470 (Stan Schlueter Loop) & Mesa Drive					100%					\$	250,000.00	\$ 250,000
I-10	Install Signal	FM 3470 (Stan Schlueter Loop) & Onion Road					100%					\$	250,000.00	\$ 250,000
I-11	Install Signal	Jake Spoon Road & FM 3470 (Stan Schlueter Loop)					100%					\$	250,000.00	\$ 250,000
I-12	Channelization	SH 195 & Pershing					100%					\$	400,000.00	\$ 400,000
I-13	Channelization	SH 201 & John David					100%					\$	400,000.00	\$ 400,000
I-14	Install Signal	WS Young Drive & Bacon Ranch Road					100%					\$	250,000.00	\$ 250,000
CS-2	Commercial Corridor Access	Trimmier Rd., WS Young Dr., Lowe's Blvd., Bacon Ranch Rd.					75%					\$	125,000.00	\$ 93,750
CS-4	Clear Creek Rd./SH 201	Fort Hood Entrance (US 190) to Stan Schlueter (FM 3470)					100%					\$	125,000.00	\$ 125,000
SUBTOTAL									8,837	846	7,991			\$ 30,466,365
								2015 Roadw	ay Impact F	ee Cost Per	Service Area			\$ 15,667
								ТО	TAL COS	IN SERVI	CE AREA B			\$ 30,482,032

4/29/2015

## City of Killeen - 2015 Roadway Impact Fee

### **CIP Service Units of Supply**

### Service Area C PEAK Project ID IMPACT FEE LENGTH ROADWAY LIMITS LANES HOUR CLASSIFICATION # (MI) VOLUME 297 C-1 Stagecoach Road to Chaparral Road A5U Trimmier Road 1.89 4 C-2 Featherline Drive Stagecoach Road to City Limit 1.34 4 A5U 435 C-3 E. Trimmier Road Stagecoach Road to City Limit 1.13 4 A5U 257 S.H. 195 to Trimmier Road C-4 Chaparral Road (1) 1.30 4 A4D 683 C-5 Chaparral Road (2) Trimmier Rd. to Featherline Drive 0.83 4 A4D 572 C-6 City Limit to 325' West of Money Pit Road 4 A4D Chaparral Road (3) 0.47 455 C-7 Chaparral Road (4) Platinum Drive to 700' East of Rosewood Drive 0.94 4 A4D 450 C-8 Rosewood Drive Chaparral Road to Serpentine Drive 0.83 4 A5U New I-2 Roundabout Stagecoach Rd. & W.S. Young Dr. Stagecoach Rd. & Featherline Rd. I-3 Roundabout I-4 Stagecoach Rd. & Cunningham Rd. Roundabout I-5 Roundabout Stagecoach Rd. & East Trimmier Rd. I-6 Install Signal Bunny Trail & Clear Creek Rd. CS-5 SH 195 South Clear Creek Dr. (SH 201) to FM 2484 SUBTOTAL

### 4/29/2015

		TOT	FAL COST	IN SERVIC	CE AREA C				35,764,860
	2	2015 Roadwa	ay Impact Fe	e Cost Per	Service Area	\$ 175,000.00		\$	15,667
			24,118	3,435	20,683			\$	35,749,193
	100%							\$	175,000
	50%					\$	190,000.00	\$	95,000
	50%					\$	1,000,000.00	\$	500,000
	50%					\$	750,000.00	\$	375,000
	50%					\$	750,000.00	\$	375,000
	50%					\$	750,000.00	\$	375,000
	100%	650	2,156	0	2,156	\$ 3,005,371.00 \$ 7,416,230.00		\$	7,416,230
	100%	750	2,825	424	2,401			\$	3,005,371
	50%	750	1,412	214	1,198	\$	1,493,352.00	\$	746,676
	50%	750	2,482	473	2,009	\$	2,650,700.00	\$	1,325,350
	50%	750	3,903	889	3,014	\$	4,106,718.00	\$	2,053,359
	100%	650	2,939	290	2,649	\$	6,047,000.00	\$	6,047,000
	100%	650	3,491	584	2907	\$	6,386,382.00	\$	6,386,382
	100%	650	4,910	561	4,349	\$	6,873,825.00	\$	6,873,825
IE	AREA	PER LN	TOTAL	PK-HR	VEH-MI			-	
2	SERVICE	PK-HR	PK-HR	DEMAND	PK-HR	ΤΟΤΑ	L PROJECT COST		RVICE AREA
	% IN		SUPPLY	TOTAL	CAPACITY				JECT COST IN
		VEH-MI	VEH-MI	VEH-MI	EXCESS				

### City of Killeen

### 2015 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Proje	ect Informati	on:			Description:		Project No	).	B-5
Name	:	Mohawk Drive (1)		-	This project	consists	s of the const	ruct	ion of a new 5
Limits	5:	Bunny Trail to Cas	tle Gap		ane undivid				
Impac	t Fee Class:	A5U							
Ultima	ate Class:	Minor Arterial							
Lengt	h (lf):	3,371							
Servio	ce Area(s):	В							
Road	lwav Constr	uction Cost Proj	ection						
No.	Item Descripti				Quantity	Unit	Unit Price		Item Cost
107		treet Excavation			14,249	су	\$ 9.00	\$	128,238
207	HMAC Pvmt, T	Type D (1.5" Comp. D	epth)		27,717	sy	\$ 28.00		776,079
307		(Complete In Place)	. ,		7,678	cy	\$ 18.38	_	141,129
407		Subgrade (6" Compa	cted Depth)		27,717	sy	\$ 5.00	\$	138,586
507		urface Treatment	, ,		29,215	sy	\$ 3.69	_	107,805
607	6" Topsoil				9,738	sy	\$ 2.00	_	19,477
707	Hydromulching	1			87,646	sf	\$ 0.50		43,823
807	Machine Laid				6,742	lf	\$ 11.50	· ·	77,533
907	Concrete Side	walk			3,746	sy	\$ 30.67	_	114,876
1007	Pavement Mar				20,226	lf	\$ 0.80		16,181
		5		Pa	-	ruction (	Cost Subtotal	: \$	1,311,313
					0				, ,
Major	Construction	Component Allowar	nces**:						
	Item Descript	ion	Notes				Allowance		Item Cost
	Traffic Control		None Anticipated				0%	6\$	-
$\checkmark$	Roadway Draii	nage	Standard Internal Sys	/stem			35%	6\$	458,960
$\checkmark$	Illumination						6%	6\$	78,679
$\checkmark$	Special Draina	ige Structures	Creek Crossing				0%	6\$	500,000
$\checkmark$	Water		Minor Adjustments				3%	6\$	39,339
$\checkmark$	Sewer		, Minor Adjustments				2%		26,226
$\checkmark$	Basic Landsca	ping and Irrigation					4%	6\$	52,453
	Miscellaneous						\$	5 \$	-
**Allowa	ances based on % o	of Paving Construction Co	st Subtotal			Allowa	ince Subtota	: \$	1,155,657
							nce Subtota	: \$	2,466,970
			(	Constru	uction Conti	ngency:	15%	<mark>6</mark>	370,046
					Mob	ilization	8%	<mark>6</mark>	197,358
					Pre	ep ROW	3%	<mark>6</mark>	74,009
					Construe	ction C	ost TOTAL	: \$	3,109,000
<b></b>									
Imna	ct Ego Drojo	ct Cost Summar							

Impact Fee Project Cost Summar Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 3,109,000
Engineering/Survey/Testing: Previous City contribution		18%	\$ 559,620
Other			
ROW/Easement Acquisition:		30%	\$ 932,700
	Impact Fee Projec	t Cost TOTAL:	\$ 4,602,000

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 Killeen

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.

### 2015 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Proj	ect Information:		Description:			Project No.		<b>B-6</b>
Name Limits Impae Ultim Lengs	: Mohawk Drive (2)	4' East of Castle Gap	This project consists of the construction of a lane undivided Minor Arterial.				on of a new 5	
	dway Construction Cost Proj	ection						
No.	Item Description		Quantity	Unit		it Price		Item Cost
107	Unclassified Street Excavation		8,851	су	\$	9.00	\$	79,659
207	HMAC Pvmt, Type D (1.5" Comp. D	epth)	17,217	sy	\$	28.00	\$	482,085
307	Flexible Base (Complete In Place)		4,770	су	\$	18.38	\$	87,666
407	Lime Treated Subgrade (6" Compa	cted Depth)	17,217	sy	\$	5.00	\$	86,087
507	One Course Surface Treatment		18,148	sy	\$	3.69	\$	66,966
607	6" Topsoil		6,049	sy	\$	2.00	\$	12,099
707	Hydromulching		54,444	sf	\$	0.50	\$	27,222
807	Machine Laid Curb		4,188	lf	\$	11.50	\$	48,162
907	Concrete Sidewalk		2,327	sy	\$	30.67	\$	71,359
1007	Pavement Markings		12,564	lf	\$	0.80	\$	10,051
Major	r Construction Component Allowa Item Description	nces**: Notes	Paving Const	ruction (		Subtotal: owance	\$	814,563 Item Cost
	Traffic Control	None Anticipated				0%	\$	-
$\checkmark$	Roadway Drainage	Standard Internal System				35%	\$	285,097
	Illumination					6%	\$	48,874
	Special Drainage Structures	None Anticipated				0%		
	Water	Minor Adjustments				3%	\$	24,437
Ň	Sewer	Minor Adjustments				2%		16,291
Ň	Basic Landscaping and Irrigation					4%		32,583
	Miscellaneous:					\$0	-	
					ļ	Subtotal:	•	407,281

\$ 1,221,844	\$ Paving and Allowance Subtotal:	
\$ 183,277	\$ Construction Contingency: 15%	
\$ 97,748	\$ Mobilization 8%	
\$ 36,655	\$ Prep ROW 3%	
\$ 1,540,000	\$ Construction Cost TOTAL:	

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 1,540,000
Engineering/Survey/Testing:		18%	\$ 277,200
Previous City contribution			
Other			
ROW/Easement Acquisition:		30%	\$ 462,000
Impact Fee Project Cost TOTAL:			\$ 2,280,000

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 Killeen

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.

### 2015 Roadway Impact Fee Study Conceptual Level Project Cost Projection

<b>Project Informati</b>	Description:		Project No.	B-7			
Name:	Mohawk Drive (3)	This project consists of the construction of a new 5					
Limits:	lane undivided Minor Arterial.						
Impact Fee Class:	A5U						
Ultimate Class:							
Length (If): 3,319							
Service Area(s):							
Roadway Constr	uction Cost Projection						
No Item Descript		Quantity	Unit	Unit Price	Item Cost		

No.	Item Description		Quantity	Unit	Un	it Price	Item Cost
107	Unclassified Street Excavati	14,029	су	\$	9.00	\$ 126,260	
207	HMAC Pvmt, Type D (1.5" C	comp. Depth)	27,290	sy	\$	28.00	\$ 764,108
307	Flexible Base (Complete In	Place)	7,560	су	\$	18.38	\$ 138,952
407	Lime Treated Subgrade (6"	Compacted Depth)	27,290	sy	\$	5.00	\$ 136,448
507	One Course Surface Treatm	ient	28,765	sy	\$	3.69	\$ 106,142
607	6" Topsoil		9,588	sy	\$	2.00	\$ 19,176
707	Hydromulching		86,294	sf	\$	0.50	\$ 43,147
807	Machine Laid Curb		6,638	lf	\$	11.50	\$ 76,337
907	Concrete Sidewalk		3,688	sy	\$	30.67	\$ 113,104
1007	Pavement Markings		19,914	lf	\$	0.80	\$ 15,931
	Paving Construction C				Cost	Subtotal:	\$ 1,291,085
Major	Construction Component	Allowances**:					
	Item Description	Notes			All	owance	Item Cost
	Traffic Control	None Anticipated				0%	\$ -
$\checkmark$	Roadway Drainage	Standard Internal Syste	em			35%	\$ 451,880
$\checkmark$	Illumination					6%	\$ 77,465

	Special Drainage Structures	None Anticipated	0%	
$\checkmark$	Water	Minor Adjustments	3%	\$ 38,733
$\checkmark$	Sewer	Minor Adjustments	2%	\$ 25,822
$\checkmark$	Basic Landscaping and Irrigation		4%	\$ 51,643
	Miscellaneous:		\$0	\$ -
**Allow	ances based on % of Paving Construction Cost	Subtotal Allowa	ance Subtotal:	\$ 645,543
		Paving and Allowa	ance Subtotal:	\$ 1,936,628
		Construction Contingency:	15%	\$ 290,494
		Mobilization	8%	\$ 154,930
		Prep ROW	3%	\$ 58,099
		Construction C	ost TOTAL:	\$ 2,441,000

Impact Fee Project Cost Sum	mary			
Item Description	Notes:		Allowance	Item Cost
Construction:			-	\$ 2,441,000
Engineering/Survey/Testing:			18%	\$ 439,380
Previous City contribution				
Other				
ROW/Easement Acquisition:			30%	\$ 732,300
Impact Fee Project Cost TOTAL:			\$ 3,613,000	

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 Killeen

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.

CHAPTER 4 – TEXAS LOCAL GOVERNMENT CODE CHAPTER 395

### LOCAL GOVERNMENT CODE

### TITLE 12. PLANNING AND DEVELOPMENT

SUBTITLE C. PLANNING AND DEVELOPMENT PROVISIONS APPLYING TO MORE THAN ONE TYPE OF LOCAL GOVERNMENT

### CHAPTER 395. FINANCING CAPITAL IMPROVEMENTS REQUIRED BY NEW DEVELOPMENT IN MUNICIPALITIES, COUNTIES, AND CERTAIN OTHER LOCAL GOVERNMENTS

SUBCHAPTER A. GENERAL PROVISIONS

Sec. 395.001. DEFINITIONS. In this chapter:

(1) "Capital improvement" means any of the following facilities that have a life expectancy of three or more years and are owned and operated by or on behalf of a political subdivision:

(A) water supply, treatment, and distribution facilities; wastewater collection and treatment facilities; and storm water, drainage, and flood control facilities; whether or not they are located within the service area; and

(B) roadway facilities.

(2) "Capital improvements plan" means a plan required by this chapter that identifies capital improvements or facility expansions for which impact fees may be assessed.

(3) "Facility expansion" means the expansion of the capacity of an existing facility that serves the same function as an otherwise necessary new capital improvement, in order that the existing facility may serve new development. The term does not include the repair, maintenance, modernization, or expansion of an existing facility to better serve existing development.

(4) "Impact fee" means a charge or assessment imposed by a political subdivision against new development in order to generate revenue for funding or recouping the costs of capital improvements or facility expansions necessitated by and attributable to the new development. The term includes amortized charges, lump-sum charges, capital recovery fees, contributions in aid of construction, and any

other fee that functions as described by this definition. The term does not include:

(A) dedication of land for public parks or payment in lieu of the dedication to serve park needs;

(B) dedication of rights-of-way or easements or construction or dedication of on-site or off-site water distribution, wastewater collection or drainage facilities, or streets, sidewalks, or curbs if the dedication or construction is required by a valid ordinance and is necessitated by and attributable to the new development;

(C) lot or acreage fees to be placed in trust funds for the purpose of reimbursing developers for oversizing or constructing water or sewer mains or lines; or

(D) other pro rata fees for reimbursement of water or sewer mains or lines extended by the political subdivision.

However, an item included in the capital improvements plan may not be required to be constructed except in accordance with Section 395.019(2), and an owner may not be required to construct or dedicate facilities and to pay impact fees for those facilities.

(5) "Land use assumptions" includes a description of the service area and projections of changes in land uses, densities, intensities, and population in the service area over at least a 10-year period.

(6) "New development" means the subdivision of land; the construction, reconstruction, redevelopment, conversion, structural alteration, relocation, or enlargement of any structure; or any use or extension of the use of land; any of which increases the number of service units.

(7) "Political subdivision" means a municipality, a district or authority created under Article III, Section 52, or Article XVI, Section 59, of the Texas Constitution, or, for the purposes set forth by Section 395.079, certain counties described by that section.

(8) "Roadway facilities" means arterial or collector streets or roads that have been designated on an officially adopted roadway plan of the political subdivision, together with all necessary appurtenances. The term includes the political subdivision's share of costs for roadways and associated improvements

designated on the federal or Texas highway system, including local matching funds and costs related to utility line relocation and the establishment of curbs, gutters, sidewalks, drainage appurtenances, and rights-of-way.

(9) "Service area" means the area within the corporate boundaries or extraterritorial jurisdiction, as determined under Chapter 42, of the political subdivision to be served by the capital improvements or facilities expansions specified in the capital improvements plan, except roadway facilities and storm water, drainage, and flood control facilities. The service area, for the purposes of this chapter, may include all or part of the land within the political subdivision or its extraterritorial jurisdiction, except for roadway facilities and storm water, drainage, and flood control facilities. For roadway facilities, the service area is limited to an area within the corporate boundaries of the political subdivision and shall not exceed six miles. For storm water, drainage, and flood control facilities, the service area may include all or part of the land within the political subdivision or its extraterritorial jurisdiction, but shall not exceed the area actually served by the storm water, drainage, and flood control facilities designated in the capital improvements plan and shall not extend across watershed boundaries.

(10) "Service unit" means a standardized measure of consumption, use, generation, or discharge attributable to an individual unit of development calculated in accordance with generally accepted engineering or planning standards and based on historical data and trends applicable to the political subdivision in which the individual unit of development is located during the previous 10 years.

Added by Acts 1989, 71st Leg., ch. 1, Sec. 82(a), eff. Aug. 28, 1989. Amended by Acts 1989, 71st Leg., ch. 566, Sec. 1(e), eff. Aug. 28, 1989; Acts 2001, 77th Leg., ch. 345, Sec. 1, eff. Sept. 1, 2001.

### SUBCHAPTER B. AUTHORIZATION OF IMPACT FEE

Sec. 395.011. AUTHORIZATION OF FEE. (a) Unless otherwise specifically authorized by state law or this chapter, a governmental

entity or political subdivision may not enact or impose an impact fee.

(b) Political subdivisions may enact or impose impact fees on land within their corporate boundaries or extraterritorial jurisdictions only by complying with this chapter, except that impact fees may not be enacted or imposed in the extraterritorial jurisdiction for roadway facilities.

(c) A municipality may contract to provide capital improvements, except roadway facilities, to an area outside its corporate boundaries and extraterritorial jurisdiction and may charge an impact fee under the contract, but if an impact fee is charged in that area, the municipality must comply with this chapter.

Added by Acts 1989, 71st Leg., ch. 1, Sec. 82(a), eff. Aug. 28, 1989.

Sec. 395.012. ITEMS PAYABLE BY FEE. (a) An impact fee may be imposed only to pay the costs of constructing capital improvements or facility expansions, 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 improvements plan who is not an employee of the political subdivision.

(b) Projected interest charges and other finance costs may be included in determining the amount of impact fees only if the impact fees are used for the payment of principal and interest on bonds, notes, or other obligations issued by or on behalf of the political subdivision to finance the capital improvements or facility expansions identified in the capital improvements plan and are not used to reimburse bond funds expended for facilities that are not identified in the capital improvements plan.

(c) Notwithstanding any other provision of this chapter, the Edwards Underground Water District or a river authority that is authorized elsewhere by state law to charge fees that function as impact fees may use impact fees to pay a staff engineer who prepares or updates a capital improvements plan under this chapter.

(d) A municipality may pledge an impact fee as security for the payment of debt service on a bond, note, or other obligation issued to finance a capital improvement or public facility expansion if:

(1) the improvement or expansion is identified in a capital improvements plan; and

(2) at the time of the pledge, the governing body of the municipality certifies in a written order, ordinance, or resolution that none of the impact fee will be used or expended for an improvement or expansion not identified in the plan.

(e) A certification under Subsection (d)(2) is sufficient evidence that an impact fee pledged will not be used or expended for an improvement or expansion that is not identified in the capital improvements plan.

Added by Acts 1989, 71st Leg., ch. 1, Sec. 82(a), eff. Aug. 28, 1989. Amended by Acts 1995, 74th Leg., ch. 90, Sec. 1, eff. May 16, 1995.

Sec. 395.013. ITEMS NOT PAYABLE BY FEE. Impact fees may not be adopted or used to pay for:

(1) construction, acquisition, or expansion of public facilities or assets other than capital improvements or facility expansions identified in the capital improvements plan;

(2) repair, operation, or maintenance of existing or new capital improvements or facility expansions;

(3) upgrading, updating, expanding, or replacing existing capital improvements to serve existing development in order to meet stricter safety, efficiency, environmental, or regulatory standards;

(4) upgrading, updating, expanding, or replacing existing capital improvements to provide better service to existing development;

(5) administrative and operating costs of the political subdivision, except the Edwards Underground Water District or a river authority that is authorized elsewhere by state law to charge fees that function as impact fees may use impact fees to pay its administrative and operating costs; (6) principal payments and interest or other financecharges on bonds or other indebtedness, except as allowed by Section 395.012.

Added by Acts 1989, 71st Leg., ch. 1, Sec. 82(a), eff. Aug. 28, 1989.

Sec. 395.014. CAPITAL IMPROVEMENTS PLAN. (a) The political subdivision shall use qualified professionals to prepare the capital improvements plan and to calculate the impact fee. The capital improvements plan must contain specific enumeration of the following items:

(1) a description of the existing capital improvements within the service area and the costs to upgrade, update, improve, expand, or replace the improvements to meet existing needs and usage and stricter safety, efficiency, environmental, or regulatory standards, which shall be prepared by a qualified professional engineer licensed to perform the professional engineering services in this state;

(2) an analysis of the total capacity, the level of current usage, and commitments for usage of capacity of the existing capital improvements, which shall be prepared by a qualified professional engineer licensed to perform the professional engineering services in this state;

(3) a description of all or the parts of the capital improvements or facility expansions and their costs necessitated by and attributable to new development in the service area based on the approved land use assumptions, which shall be prepared by a qualified professional engineer licensed to perform the professional engineering services in this state;

(4) a definitive table establishing the specific level or quantity of use, consumption, generation, or discharge of a service unit for each category of capital improvements or facility expansions and an equivalency or conversion table establishing the ratio of a service unit to various types of land uses, including residential, commercial, and industrial;

(5) the total number of projected service units necessitated by and attributable to new development within the service area based on the approved land use assumptions and

calculated in accordance with generally accepted engineering or planning criteria;

(6) the projected demand for capital improvements or facility expansions required by new service units projected over a reasonable period of time, not to exceed 10 years; and

(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.

(b) The analysis required by Subsection (a)(3) may be prepared on a systemwide basis within the service area for each major category of capital improvement or facility expansion for the designated service area.

(c) The governing body of the political subdivision is responsible for supervising the implementation of the capital improvements plan in a timely manner.

Added by Acts 1989, 71st Leg., ch. 1, Sec. 82(a), eff. Aug. 28, 1989. Amended by Acts 2001, 77th Leg., ch. 345, Sec. 2, eff. Sept. 1, 2001.

Sec. 395.015. MAXIMUM FEE PER SERVICE UNIT. (a) The impact fee per service unit may not exceed the amount determined by subtracting the amount in Section 395.014(a)(7) from the costs of the capital improvements described by Section 395.014(a)(3) and dividing that amount by the total number of projected service units described by Section 395.014(a)(5).

(b) If the number of new service units projected over a reasonable period of time is less than the total number of new service units shown by the approved land use assumptions at full development of the service area, the maximum impact fee per service unit shall be calculated by dividing the costs of the part of the capital improvements necessitated by and attributable to projected

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new service units described by Section 395.014(a)(6) by the projected new service units described in that section.

Added by Acts 1989, 71st Leg., ch. 1, Sec. 82(a), eff. Aug. 28, 1989. Amended by Acts 2001, 77th Leg., ch. 345, Sec. 3, eff. Sept. 1, 2001.

Sec. 395.016. TIME FOR ASSESSMENT AND COLLECTION OF FEE. (a) This subsection applies only to impact fees adopted and land platted before June 20, 1987. For land that has been platted in accordance with Subchapter A, Chapter 212, or the subdivision or platting procedures of a political subdivision before June 20, 1987, or land on which new development occurs or is proposed without platting, the political subdivision may assess the impact fees at any time during the development approval and building process. Except as provided by Section 395.019, the political subdivision may collect the fees at either the time of recordation of the subdivision plat or connection to the political subdivision issues either the building permit or the certificate of occupancy.

(b) This subsection applies only to impact fees adopted before June 20, 1987, and land platted after that date. For new development which is platted in accordance with Subchapter A, Chapter 212, or the subdivision or platting procedures of a political subdivision after June 20, 1987, the political subdivision may assess the impact fees before or at the time of recordation. Except as provided by Section 395.019, the political subdivision may collect the fees at either the time of recordation of the subdivision plat or connection to the political subdivision's water or sewer system or at the time the political subdivision issues either the building permit or the certificate of occupancy.

(c) This subsection applies only to impact fees adopted after June 20, 1987. For new development which is platted in accordance with Subchapter A, Chapter 212, or the subdivision or platting procedures of a political subdivision before the adoption of an impact fee, an impact fee may not be collected on any service unit for which a valid building permit is issued within one year after the date of adoption of the impact fee. (d) This subsection applies only to land platted in accordance with Subchapter A, Chapter 212, or the subdivision or platting procedures of a political subdivision after adoption of an impact fee adopted after June 20, 1987. The political subdivision shall assess the impact fees before or at the time of recordation of a subdivision plat or other plat under Subchapter A, Chapter 212, or the subdivision or platting ordinance or procedures of any political subdivision in the official records of the county clerk of the county in which the tract is located. Except as provided by Section 395.019, if the political subdivision has water and wastewater capacity available:

(1) the political subdivision shall collect the fees at the time the political subdivision issues a building permit;

(2) for land platted outside the corporate boundaries of a municipality, the municipality shall collect the fees at the time an application for an individual meter connection to the municipality's water or wastewater system is filed; or

(3) a political subdivision that lacks authority to issue building permits in the area where the impact fee applies shall collect the fees at the time an application is filed for an individual meter connection to the political subdivision's water or wastewater system.

(e) For land on which new development occurs or is proposed to occur without platting, the political subdivision may assess the impact fees at any time during the development and building process and may collect the fees at either the time of recordation of the subdivision plat or connection to the political subdivision's water or sewer system or at the time the political subdivision issues either the building permit or the certificate of occupancy.

(f) An "assessment" means a determination of the amount of the impact fee in effect on the date or occurrence provided in this section and is the maximum amount that can be charged per service unit of such development. No specific act by the political subdivision is required.

(g) Notwithstanding Subsections (a)-(e) and Section 395.017, the political subdivision may reduce or waive an impact fee for any service unit that would qualify as affordable housing under 42 U.S.C. Section 12745, as amended, once the service unit is constructed. If affordable housing as defined by 42 U.S.C. Section 12745, as amended, is not constructed, the political subdivision may reverse its decision to waive or reduce the impact fee, and the political subdivision may assess an impact fee at any time during the development approval or building process or after the building process if an impact fee was not already assessed.

Added by Acts 1989, 71st Leg., ch. 1, Sec. 82(a), eff. Aug. 28, 1989. Amended by Acts 1997, 75th Leg., ch. 980, Sec. 52, eff. Sept. 1, 1997; Acts 2001, 77th Leg., ch. 345, Sec. 4, eff. Sept. 1, 2001.

Sec. 395.017. ADDITIONAL FEE PROHIBITED; EXCEPTION. After assessment of the impact fees attributable to the new development or execution of an agreement for payment of impact fees, additional impact fees or increases in fees may not be assessed against the tract for any reason unless the number of service units to be developed on the tract increases. In the event of the increase in the number of service units, the impact fees to be imposed are limited to the amount attributable to the additional service units.

Added by Acts 1989, 71st Leg., ch. 1, Sec. 82(a), eff. Aug. 28, 1989.

Sec. 395.018. AGREEMENT WITH OWNER REGARDING PAYMENT. A political subdivision is authorized to enter into an agreement with the owner of a tract of land for which the plat has been recorded providing for the time and method of payment of the impact fees.

Added by Acts 1989, 71st Leg., ch. 1, Sec. 82(a), eff. Aug. 28, 1989.

Sec. 395.019. COLLECTION OF FEES IF SERVICES NOT AVAILABLE. Except for roadway facilities, impact fees may be assessed but may not be collected in areas where services are not currently available unless:

(1) the collection is made to pay for a capital improvement or facility expansion that has been identified in the capital improvements plan and the political subdivision commits to commence construction within two years, under duly awarded and executed contracts or commitments of staff time covering substantially all of the work required to provide service, and to have the service available within a reasonable period of time considering the type of capital improvement or facility expansion to be constructed, but in no event longer than five years;

(2) the political subdivision agrees that the owner of a new development may construct or finance the capital improvements or facility expansions and agrees that the costs incurred or funds advanced will be credited against the impact fees otherwise due from the new development or agrees to reimburse the owner for such costs from impact fees paid from other new developments that will use such capital improvements or facility expansions, which fees shall be collected and reimbursed to the owner at the time the other new development records its plat; or

(3) an owner voluntarily requests the political subdivision to reserve capacity to serve future development, and the political subdivision and owner enter into a valid written agreement.

Added by Acts 1989, 71st Leg., ch. 1, Sec. 82(a), eff. Aug. 28, 1989.

Sec. 395.020. ENTITLEMENT TO SERVICES. Any new development for which an impact fee has been paid is entitled to the permanent use and benefit of the services for which the fee was exacted and is entitled to receive immediate service from any existing facilities with actual capacity to serve the new service units, subject to compliance with other valid regulations.

Added by Acts 1989, 71st Leg., ch. 1, Sec. 82(a), eff. Aug. 28, 1989.

Sec. 395.021. AUTHORITY OF POLITICAL SUBDIVISIONS TO SPEND FUNDS TO REDUCE FEES. Political subdivisions may spend funds from any lawful source to pay for all or a part of the capital improvements or facility expansions to reduce the amount of impact fees.

Added by Acts 1989, 71st Leg., ch. 1, Sec. 82(a), eff. Aug. 28, 1989.

Sec. 395.022. AUTHORITY OF POLITICAL SUBDIVISION TO PAY FEES. (a) Political subdivisions and other governmental entities may pay impact fees imposed under this chapter.

(b) A school district is not required to pay impact fees imposed under this chapter unless the board of trustees of the district consents to the payment of the fees by entering a contract with the political subdivision that imposes the fees. The contract may contain terms the board of trustees considers advisable to provide for the payment of the fees.

Added by Acts 1989, 71st Leg., ch. 1, Sec. 82(a), eff. Aug. 28, 1989. Amended by:

Acts 2007, 80th Leg., R.S., Ch. 250 (S.B. 883), Sec. 1, eff. May 25, 2007.

Sec. 395.023. CREDITS AGAINST ROADWAY FACILITIES FEES. Any construction of, contributions to, or dedications of off-site roadway facilities agreed to or required by a political subdivision as a condition of development approval shall be credited against roadway facilities impact fees otherwise due from the development.

Added by Acts 1989, 71st Leg., ch. 1, Sec. 82(a), eff. Aug. 28, 1989.

Sec. 395.024. ACCOUNTING FOR FEES AND INTEREST. (a) The order, ordinance, or resolution levying an impact fee must provide that all funds collected through the adoption of an impact fee shall be deposited in interest-bearing accounts clearly identifying the category of capital improvements or facility expansions within the service area for which the fee was adopted.

(b) Interest earned on impact fees is considered funds of the account on which it is earned and is subject to all restrictions placed on use of impact fees under this chapter.

(c) Impact fee funds may be spent only for the purposes for which the impact fee was imposed as shown by the capital improvements plan and as authorized by this chapter.

(d) The records of the accounts into which impact fees are deposited shall be open for public inspection and copying during ordinary business hours. Added by Acts 1989, 71st Leg., ch. 1, Sec. 82(a), eff. Aug. 28, 1989.

Sec. 395.025. REFUNDS. (a) On the request of an owner of the property on which an impact fee has been paid, the political subdivision shall refund the impact fee if existing facilities are available and service is denied or the political subdivision has, after collecting the fee when service was not available, failed to commence construction within two years or service is not available within a reasonable period considering the type of capital improvement or facility expansion to be constructed, but in no event later than five years from the date of payment under Section 395.019 (1).

(b) Repealed by Acts 2001, 77th Leg., ch. 345, Sec. 9, eff. Sept. 1, 2001.

(c) The political subdivision shall refund any impact fee or part of it that is not spent as authorized by this chapter within 10 years after the date of payment.

(d) Any refund shall bear interest calculated from the date of collection to the date of refund at the statutory rate as set forth in Section 302.002, Finance Code, or its successor statute.

(e) All refunds shall be made to the record owner of the property at the time the refund is paid. However, if the impact fees were paid by another political subdivision or governmental entity, payment shall be made to the political subdivision or governmental entity.

(f) The owner of the property on which an impact fee has been paid or another political subdivision or governmental entity that paid the impact fee has standing to sue for a refund under this section.

Added by Acts 1989, 71st Leg., ch. 1, Sec. 82(a), eff. Aug. 28, 1989. Amended by Acts 1997, 75th Leg., ch. 1396, Sec. 37, eff. Sept. 1, 1997; Acts 1999, 76th Leg., ch. 62, Sec. 7.82, eff. Sept. 1, 1999; Acts 2001, 77th Leg., ch. 345, Sec. 9, eff. Sept. 1, 2001.

SUBCHAPTER C. PROCEDURES FOR ADOPTION OF IMPACT FEE

Sec. 395.041. COMPLIANCE WITH PROCEDURES REQUIRED. Except as otherwise provided by this chapter, a political subdivision must comply with this subchapter to levy an impact fee.

Added by Acts 1989, 71st Leg., ch. 1, Sec. 82(a), eff. Aug. 28, 1989.

Sec. 395.0411. CAPITAL IMPROVEMENTS PLAN. The political subdivision shall provide for a capital improvements plan to be developed by qualified professionals using generally accepted engineering and planning practices in accordance with Section 395.014.

Added by Acts 2001, 77th Leg., ch. 345, Sec. 5, eff. Sept. 1, 2001.

Sec. 395.042. HEARING ON LAND USE ASSUMPTIONS AND CAPITAL IMPROVEMENTS PLAN. To impose an impact fee, a political subdivision must adopt an order, ordinance, or resolution establishing a public hearing date to consider the land use assumptions and capital improvements plan for the designated service area.

Added by Acts 1989, 71st Leg., ch. 1, Sec. 82(a), eff. Aug. 28, 1989. Amended by Acts 2001, 77th Leg., ch. 345, Sec. 5, eff. Sept. 1, 2001.

Sec. 395.043. INFORMATION ABOUT LAND USE ASSUMPTIONS AND CAPITAL IMPROVEMENTS PLAN AVAILABLE TO PUBLIC. On or before the date of the first publication of the notice of the hearing on the land use assumptions and capital improvements plan, the political subdivision shall make available to the public its land use assumptions, the time period of the projections, and a description of the capital improvement facilities that may be proposed.

Added by Acts 1989, 71st Leg., ch. 1, Sec. 82(a), eff. Aug. 28, 1989. Amended by Acts 2001, 77th Leg., ch. 345, Sec. 5, eff. Sept. 1, 2001.

Sec. 395.044. NOTICE OF HEARING ON LAND USE ASSUMPTIONS AND CAPITAL IMPROVEMENTS PLAN. (a) Before the 30th day before the date of the hearing on the land use assumptions and capital improvements plan, the political subdivision shall send a notice of the hearing by

certified mail to any person who has given written notice by certified or registered mail to the municipal secretary or other designated official of the political subdivision requesting notice of the hearing within two years preceding the date of adoption of the order, ordinance, or resolution setting the public hearing.

(b) The political subdivision shall publish notice of the hearing before the 30th day before the date set for the hearing, in one or more newspapers of general circulation in each county in which the political subdivision lies. However, a river authority that is authorized elsewhere by state law to charge fees that function as impact fees may publish the required newspaper notice only in each county in which the service area lies.

(c) The notice must contain:

(1) a headline to read as follows:

"NOTICE OF PUBLIC HEARING ON LAND USE ASSUMPTIONS AND CAPITAL IMPROVEMENTS PLAN RELATING TO POSSIBLE ADOPTION OF IMPACT FEES"

(2) the time, date, and location of the hearing;

(3) a statement that the purpose of the hearing is to consider the land use assumptions and capital improvements plan under which an impact fee may be imposed; and

(4) a statement that any member of the public has the right to appear at the hearing and present evidence for or against the land use assumptions and capital improvements plan.

Added by Acts 1989, 71st Leg., ch. 1, Sec. 82(a), eff. Aug. 28, 1989. Amended by Acts 2001, 77th Leg., ch. 345, Sec. 5, eff. Sept. 1, 2001.

Sec. 395.045. APPROVAL OF LAND USE ASSUMPTIONS AND CAPITAL IMPROVEMENTS PLAN REQUIRED. (a) After the public hearing on the land use assumptions and capital improvements plan, the political subdivision shall determine whether to adopt or reject an ordinance, order, or resolution approving the land use assumptions and capital improvements plan.

(b) The political subdivision, within 30 days after the date of the public hearing, shall approve or disapprove the land use assumptions and capital improvements plan. (c) An ordinance, order, or resolution approving the land use assumptions and capital improvements plan may not be adopted as an emergency measure.

Added by Acts 1989, 71st Leg., ch. 1, Sec. 82(a), eff. Aug. 28, 1989. Amended by Acts 2001, 77th Leg., ch. 345, Sec. 5, eff. Sept. 1, 2001.

Sec. 395.0455. SYSTEMWIDE LAND USE ASSUMPTIONS. (a) In lieu of adopting land use assumptions for each service area, a political subdivision may, except for storm water, drainage, flood control, and roadway facilities, adopt systemwide land use assumptions, which cover all of the area subject to the jurisdiction of the political subdivision for the purpose of imposing impact fees under this chapter.

(b) Prior to adopting systemwide land use assumptions, a political subdivision shall follow the public notice, hearing, and other requirements for adopting land use assumptions.

(c) After adoption of systemwide land use assumptions, a political subdivision is not required to adopt additional land use assumptions for a service area for water supply, treatment, and distribution facilities or wastewater collection and treatment facilities as a prerequisite to the adoption of a capital improvements plan or impact fee, provided the capital improvements plan and impact fee are consistent with the systemwide land use assumptions.

Added by Acts 1989, 71st Leg., ch. 566, Sec. 1(b), eff. Aug. 28, 1989.

Sec. 395.047. HEARING ON IMPACT FEE. On adoption of the land use assumptions and capital improvements plan, the governing body shall adopt an order or resolution setting a public hearing to discuss the imposition of the impact fee. The public hearing must be held by the governing body of the political subdivision to discuss the proposed ordinance, order, or resolution imposing an impact fee.

Added by Acts 1989, 71st Leg., ch. 1, Sec. 82(a), eff. Aug. 28, 1989. Amended by Acts 2001, 77th Leg., ch. 345, Sec. 5, eff. Sept. 1, 2001.

Sec. 395.049. NOTICE OF HEARING ON IMPACT FEE. (a) Before the 30th day before the date of the hearing on the imposition of an impact fee, the political subdivision shall send a notice of the hearing by certified mail to any person who has given written notice by certified or registered mail to the municipal secretary or other designated official of the political subdivision requesting notice of the hearing within two years preceding the date of adoption of the order or resolution setting the public hearing.

(b) The political subdivision shall publish notice of the hearing before the 30th day before the date set for the hearing, in one or more newspapers of general circulation in each county in which the political subdivision lies. However, a river authority that is authorized elsewhere by state law to charge fees that function as impact fees may publish the required newspaper notice only in each county in which the service area lies.

(c) The notice must contain the following:

(1) a headline to read as follows:

"NOTICE OF PUBLIC HEARING ON ADOPTION OF IMPACT FEES"

(2) the time, date, and location of the hearing;

(3) a statement that the purpose of the hearing is to consider the adoption of an impact fee;

(4) the amount of the proposed impact fee per serviceunit; and

(5) a statement that any member of the public has the right to appear at the hearing and present evidence for or against the plan and proposed fee.

Added by Acts 1989, 71st Leg., ch. 1, Sec. 82(a), eff. Aug. 28, 1989. Amended by Acts 2001, 77th Leg., ch. 345, Sec. 5, eff. Sept. 1, 2001.

Sec. 395.050. ADVISORY COMMITTEE COMMENTS ON IMPACT FEES. The advisory committee created under Section 395.058 shall file its written comments on the proposed impact fees before the fifth business day before the date of the public hearing on the imposition of the fees.

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Added by Acts 1989, 71st Leg., ch. 1, Sec. 82(a), eff. Aug. 28, 1989. Amended by Acts 2001, 77th Leg., ch. 345, Sec. 5, eff. Sept. 1, 2001.

Sec. 395.051. APPROVAL OF IMPACT FEE REQUIRED. (a) The political subdivision, within 30 days after the date of the public hearing on the imposition of an impact fee, shall approve or disapprove the imposition of an impact fee.

(b) An ordinance, order, or resolution approving the imposition of an impact fee may not be adopted as an emergency measure.

Added by Acts 1989, 71st Leg., ch. 1, Sec. 82(a), eff. Aug. 28, 1989. Amended by Acts 2001, 77th Leg., ch. 345, Sec. 5, eff. Sept. 1, 2001.

Sec. 395.052. PERIODIC UPDATE OF LAND USE ASSUMPTIONS AND CAPITAL IMPROVEMENTS PLAN REQUIRED. (a) A political subdivision imposing an impact fee shall update the land use assumptions and capital improvements plan at least every five years. The initial five-year period begins on the day the capital improvements plan is adopted.

(b) The political subdivision shall review and evaluate its current land use assumptions and shall cause an update of the capital improvements plan to be prepared in accordance with Subchapter B.

Added by Acts 1989, 71st Leg., ch. 1, Sec. 82(a), eff. Aug. 28, 1989. Amended by Acts 2001, 77th Leg., ch. 345, Sec. 6, eff. Sept. 1, 2001.

Sec. 395.053. HEARING ON UPDATED LAND USE ASSUMPTIONS AND CAPITAL IMPROVEMENTS PLAN. The governing body of the political subdivision shall, within 60 days after the date it receives the update of the land use assumptions and the capital improvements plan, adopt an order setting a public hearing to discuss and review the update and shall determine whether to amend the plan.

Added by Acts 1989, 71st Leg., ch. 1, Sec. 82(a), eff. Aug. 28, 1989.

Sec. 395.054. HEARING ON AMENDMENTS TO LAND USE ASSUMPTIONS, CAPITAL IMPROVEMENTS PLAN, OR IMPACT FEE. A public hearing must be held by the governing body of the political subdivision to discuss

the proposed ordinance, order, or resolution amending land use assumptions, the capital improvements plan, or the impact fee. On or before the date of the first publication of the notice of the hearing on the amendments, the land use assumptions and the capital improvements plan, including the amount of any proposed amended impact fee per service unit, shall be made available to the public.

Added by Acts 1989, 71st Leg., ch. 1, Sec. 82(a), eff. Aug. 28, 1989.

Sec. 395.055. NOTICE OF HEARING ON AMENDMENTS TO LAND USE ASSUMPTIONS, CAPITAL IMPROVEMENTS PLAN, OR IMPACT FEE. (a) The notice and hearing procedures prescribed by Sections 395.044(a) and (b) apply to a hearing on the amendment of land use assumptions, a capital improvements plan, or an impact fee.

(b) The notice of a hearing under this section must contain the following:

(1) a headline to read as follows:
"NOTICE OF PUBLIC HEARING ON AMENDMENT OF IMPACT FEES"

(2) the time, date, and location of the hearing;

(3) a statement that the purpose of the hearing is to consider the amendment of land use assumptions and a capital improvements plan and the imposition of an impact fee; and

(4) a statement that any member of the public has the right to appear at the hearing and present evidence for or against the update.

Added by Acts 1989, 71st Leg., ch. 1, Sec. 82(a), eff. Aug. 28, 1989. Amended by Acts 2001, 77th Leg., ch. 345, Sec. 7, eff. Sept. 1, 2001.

Sec. 395.056. ADVISORY COMMITTEE COMMENTS ON AMENDMENTS. The advisory committee created under Section 395.058 shall file its written comments on the proposed amendments to the land use assumptions, capital improvements plan, and impact fee before the fifth business day before the date of the public hearing on the amendments.

Added by Acts 1989, 71st Leg., ch. 1, Sec. 82(a), eff. Aug. 28, 1989.

Sec. 395.057. APPROVAL OF AMENDMENTS REQUIRED. (a) The political subdivision, within 30 days after the date of the public hearing on the amendments, shall approve or disapprove the amendments of the land use assumptions and the capital improvements plan and modification of an impact fee.

(b) An ordinance, order, or resolution approving the amendments to the land use assumptions, the capital improvements plan, and imposition of an impact fee may not be adopted as an emergency measure.

Added by Acts 1989, 71st Leg., ch. 1, Sec. 82(a), eff. Aug. 28, 1989.

Sec. 395.0575. DETERMINATION THAT NO UPDATE OF LAND USE ASSUMPTIONS, CAPITAL IMPROVEMENTS PLAN OR IMPACT FEES IS NEEDED. (a) If, at the time an update under Section 395.052 is required, the governing body determines that no change to the land use assumptions, capital improvements plan, or impact fee is needed, it may, as an alternative to the updating requirements of Sections 395.052-395.057, do the following:

(1) The governing body of the political subdivision shall, upon determining that an update is unnecessary and 60 days before publishing the final notice under this section, send notice of its determination not to update the land use assumptions, capital improvements plan, and impact fee by certified mail to any person who has, within two years preceding the date that the final notice of this matter is to be published, give written notice by certified or registered mail to the municipal secretary or other designated official of the political subdivision requesting notice of hearings related to impact fees. The notice must contain the information in Subsections (b) (2)-(5).

(2) The political subdivision shall publish notice of its determination once a week for three consecutive weeks in one or more newspapers with general circulation in each county in which the political subdivision lies. However, a river authority that is authorized elsewhere by state law to charge fees that function as impact fees may publish the required newspaper notice only in each county in which the service area lies. The notice of public hearing may not be in the part of the paper in which legal notices and

classified ads appear and may not be smaller than one-quarter page of a standard-size or tabloid-size newspaper, and the headline on the notice must be in 18-point or larger type.

- (b) The notice must contain the following:
  - (1) a headline to read as follows:"NOTICE OF DETERMINATION NOT TO UPDATE

LAND USE ASSUMPTIONS, CAPITAL IMPROVEMENTS

PLAN, OR IMPACT FEES";

(2) a statement that the governing body of the political subdivision has determined that no change to the land use assumptions, capital improvements plan, or impact fee is necessary;

(3) an easily understandable description and a map of the service area in which the updating has been determined to be unnecessary;

(4) a statement that if, within a specified date, which date shall be at least 60 days after publication of the first notice, a person makes a written request to the designated official of the political subdivision requesting that the land use assumptions, capital improvements plan, or impact fee be updated, the governing body must comply with the request by following the requirements of Sections 395.052-395.057; and

(5) a statement identifying the name and mailing address of the official of the political subdivision to whom a request for an update should be sent.

(c) The advisory committee shall file its written comments on the need for updating the land use assumptions, capital improvements plans, and impact fee before the fifth business day before the earliest notice of the government's decision that no update is necessary is mailed or published.

(d) If, by the date specified in Subsection (b)(4), a person requests in writing that the land use assumptions, capital improvements plan, or impact fee be updated, the governing body shall cause an update of the land use assumptions and capital improvements plan to be prepared in accordance with Sections 395.052-395.057. (e) An ordinance, order, or resolution determining the need for updating land use assumptions, a capital improvements plan, or an impact fee may not be adopted as an emergency measure.

Added by Acts 1989, 71st Leg., ch. 566, Sec. 1(d), eff. Aug. 28, 1989.

Sec. 395.058. ADVISORY COMMITTEE. (a) On or before the date on which the order, ordinance, or resolution is adopted under Section 395.042, the political subdivision shall appoint a capital improvements advisory committee.

The advisory committee is composed of not less than five (b) members who shall be appointed by a majority vote of the governing body of the political subdivision. Not less than 40 percent of the membership of the advisory committee must be representatives of the real estate, development, or building industries who are not employees or officials of a political subdivision or governmental entity. If the political subdivision has a planning and zoning commission, the commission may act as the advisory committee if the commission includes at least one representative of the real estate, development, or building industry who is not an employee or official of a political subdivision or governmental entity. If no such representative is a member of the planning and zoning commission, the commission may still act as the advisory committee if at least one such representative is appointed by the political subdivision as an ad hoc voting member of the planning and zoning commission when it acts as the advisory committee. If the impact fee is to be applied in the extraterritorial jurisdiction of the political subdivision, the membership must include a representative from that area.

(c) The advisory committee serves in an advisory capacity and is established to:

(1) advise and assist the political subdivision in adopting land use assumptions;

(2) review the capital improvements plan and file written comments;

(3) monitor and evaluate implementation of the capital improvements plan;

(4) file semiannual reports with respect to the progress of the capital improvements plan and report to the political subdivision any perceived inequities in implementing the plan or imposing the impact fee; and

(5) advise the political subdivision of the need to update or revise the land use assumptions, capital improvements plan, and impact fee.

(d) The political subdivision shall make available to the advisory committee any professional reports with respect to developing and implementing the capital improvements plan.

(e) The governing body of the political subdivision shall adopt procedural rules for the advisory committee to follow in carrying out its duties.

Added by Acts 1989, 71st Leg., ch. 1, Sec. 82(a), eff. Aug. 28, 1989.

### SUBCHAPTER D. OTHER PROVISIONS

Sec. 395.071. DUTIES TO BE PERFORMED WITHIN TIME LIMITS. If the governing body of the political subdivision does not perform a duty imposed under this chapter within the prescribed period, a person who has paid an impact fee or an owner of land on which an impact fee has been paid has the right to present a written request to the governing body of the political subdivision stating the nature of the unperformed duty and requesting that it be performed within 60 days after the date of the request. If the governing body of the political subdivision finds that the duty is required under this chapter and is late in being performed, it shall cause the duty to commence within 60 days after the date of the request and continue until completion.

Added by Acts 1989, 71st Leg., ch. 1, Sec. 82(a), eff. Aug. 28, 1989.

Sec. 395.072. RECORDS OF HEARINGS. A record must be made of any public hearing provided for by this chapter. The record shall be maintained and be made available for public inspection by the political subdivision for at least 10 years after the date of the hearing.

Added by Acts 1989, 71st Leg., ch. 1, Sec. 82(a), eff. Aug. 28, 1989.

Sec. 395.073. CUMULATIVE EFFECT OF STATE AND LOCAL RESTRICTIONS. Any state or local restrictions that apply to the imposition of an impact fee in a political subdivision where an impact fee is proposed are cumulative with the restrictions in this chapter.

Added by Acts 1989, 71st Leg., ch. 1, Sec. 82(a), eff. Aug. 28, 1989.

Sec. 395.074. PRIOR IMPACT FEES REPLACED BY FEES UNDER THIS CHAPTER. An impact fee that is in place on June 20, 1987, must be replaced by an impact fee made under this chapter on or before June 20, 1990. However, any political subdivision having an impact fee that has not been replaced under this chapter on or before June 20, 1988, is liable to any party who, after June 20, 1988, pays an impact fee that exceeds the maximum permitted under Subchapter B by more than 10 percent for an amount equal to two times the difference between the maximum impact fee allowed and the actual impact fee imposed, plus reasonable attorney's fees and court costs.

Added by Acts 1989, 71st Leg., ch. 1, Sec. 82(a), eff. Aug. 28, 1989.

Sec. 395.075. NO EFFECT ON TAXES OR OTHER CHARGES. This chapter does not prohibit, affect, or regulate any tax, fee, charge, or assessment specifically authorized by state law.

Added by Acts 1989, 71st Leg., ch. 1, Sec. 82(a), eff. Aug. 28, 1989.

Sec. 395.076. MORATORIUM ON DEVELOPMENT PROHIBITED. A moratorium may not be placed on new development for the purpose of awaiting the completion of all or any part of the process necessary to develop, adopt, or update land use assumptions, a capital improvements plan, or an impact fee.

Added by Acts 1989, 71st Leg., ch. 1, Sec. 82(a), eff. Aug. 28, 1989. Amended by Acts 2001, 77th Leg., ch. 441, Sec. 2, eff. Sept. 1, 2001.

Sec. 395.077. APPEALS. (a) A person who has exhausted all administrative remedies within the political subdivision and who is aggrieved by a final decision is entitled to trial de novo under this chapter.

(b) A suit to contest an impact fee must be filed within 90 days after the date of adoption of the ordinance, order, or resolution establishing the impact fee.

(c) Except for roadway facilities, a person who has paid an impact fee or an owner of property on which an impact fee has been paid is entitled to specific performance of the services by the political subdivision for which the fee was paid.

(d) This section does not require construction of a specific facility to provide the services.

(e) Any suit must be filed in the county in which the major part of the land area of the political subdivision is located. A successful litigant shall be entitled to recover reasonable attorney's fees and court costs.

Added by Acts 1989, 71st Leg., ch. 1, Sec. 82(a), eff. Aug. 28, 1989.

Sec. 395.078. SUBSTANTIAL COMPLIANCE WITH NOTICE REQUIREMENTS. An impact fee may not be held invalid because the public notice requirements were not complied with if compliance was substantial and in good faith.

Added by Acts 1989, 71st Leg., ch. 1, Sec. 82(a), eff. Aug. 28, 1989.

Sec. 395.079. IMPACT FEE FOR STORM WATER, DRAINAGE, AND FLOOD CONTROL IN POPULOUS COUNTY. (a) Any county that has a population of 3.3 million or more or that borders a county with a population of 3.3 million or more, and any district or authority created under Article XVI, Section 59, of the Texas Constitution within any such county that is authorized to provide storm water, drainage, and flood control facilities, is authorized to impose impact fees to provide storm water, drainage, and flood control improvements necessary to accommodate new development.

(b) The imposition of impact fees authorized by Subsection (a) is exempt from the requirements of Sections 395.025, 395.052-395.057,

and 395.074 unless the political subdivision proposes to increase the impact fee.

(c) Any political subdivision described by Subsection (a) is authorized to pledge or otherwise contractually obligate all or part of the impact fees to the payment of principal and interest on bonds, notes, or other obligations issued or incurred by or on behalf of the political subdivision and to the payment of any other contractual obligations.

(d) An impact fee adopted by a political subdivision underSubsection (a) may not be reduced if:

(1) the political subdivision has pledged or otherwise contractually obligated all or part of the impact fees to the payment of principal and interest on bonds, notes, or other obligations issued by or on behalf of the political subdivision; and

(2) the political subdivision agrees in the pledge or contract not to reduce the impact fees during the term of the bonds, notes, or other contractual obligations.

Added by Acts 1989, 71st Leg., ch. 1, Sec. 82(a), eff. Aug. 28, 1989. Amended by Acts 2001, 77th Leg., ch. 669, Sec. 107, eff. Sept. 1, 2001.

Sec. 395.080. CHAPTER NOT APPLICABLE TO CERTAIN WATER-RELATED SPECIAL DISTRICTS. (a) This chapter does not apply to impact fees, charges, fees, assessments, or contributions:

(1) paid by or charged to a district created under Article XVI, Section 59, of the Texas Constitution to another district created under that constitutional provision if both districts are required by law to obtain approval of their bonds by the Texas Natural Resource Conservation Commission; or

(2) charged by an entity if the impact fees, charges,fees, assessments, or contributions are approved by the Texas NaturalResource Conservation Commission.

(b) Any district created under Article XVI, Section 59, or Article III, Section 52, of the Texas Constitution may petition the Texas Natural Resource Conservation Commission for approval of any proposed impact fees, charges, fees, assessments, or contributions. The commission shall adopt rules for reviewing the petition and may

charge the petitioner fees adequate to cover the cost of processing and considering the petition. The rules shall require notice substantially the same as that required by this chapter for the adoption of impact fees and shall afford opportunity for all affected parties to participate.

Added by Acts 1989, 71st Leg., ch. 1, Sec. 82(a), eff. Aug. 28, 1989. Amended by Acts 1995, 74th Leg., ch. 76, Sec. 11.257, eff. Sept. 1, 1995.

Sec. 395.081. FEES FOR ADJOINING LANDOWNERS IN CERTAIN MUNICIPALITIES. (a) This section applies only to a municipality with a population of 115,000 or less that constitutes more than three-fourths of the population of the county in which the majority of the area of the municipality is located.

(b) A municipality that has not adopted an impact fee under this chapter that is constructing a capital improvement, including sewer or waterline or drainage or roadway facilities, from the municipality to a development located within or outside the municipality's boundaries, in its discretion, may allow a landowner whose land adjoins the capital improvement or is within a specified distance from the capital improvement, as determined by the governing body of the municipality, to connect to the capital improvement if:

(1) the governing body of the municipality has adopted a finding under Subsection (c); and

(2) the landowner agrees to pay a proportional share of the cost of the capital improvement as determined by the governing body of the municipality and agreed to by the landowner.

(c) Before a municipality may allow a landowner to connect to a capital improvement under Subsection (b), the municipality shall adopt a finding that the municipality will benefit from allowing the landowner to connect to the capital improvement. The finding shall describe the benefit to be received by the municipality.

(d) A determination of the governing body of a municipality, or its officers or employees, under this section is a discretionary function of the municipality and the municipality and its officers or employees are not liable for a determination made under this section. Added by Acts 1997, 75th Leg., ch. 1150, Sec. 1, eff. June 19, 1997. Amended by:

Acts 2011, 82nd Leg., R.S., Ch. 1043 (H.B. 3111), Sec. 5, eff. June 17, 2011.

Acts 2011, 82nd Leg., R.S., Ch. 1163 (H.B. 2702), Sec. 100, eff. September 1, 2011.