



TRANSPORTATION IMPACT FEE (Report)

FINAL REPORT

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Transportation Impact Fee Study



City of Fort Worth, Texas

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EXECUTIVE SUMMARY

Introduction

Impact Fees are a mechanism for funding the public infrastructure necessitated by new development. They originated and evolved in Florida, California and other fast-growing municipalities and counties, primarily in the Southern and Western United States. 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. Since 1989, they have been used to fund public water and wastewater improvements in the City of Fort Worth, and are being considered for use in funding transportation infrastructure. Although other funding mechanisms have been considered (e.g., assessment paving policy, the establishment of roadway improvement districts or transportation user fees), City staff believes that transportation impact fees are the preferred funding mechanism for achieving the strategic goals of the City.

In the most basic terms, impact fees are meant to recover the incremental cost of each new unit of development in terms of new infrastructure needs. In the case of transportation impact fees, the infrastructure need is increased capacity on arterial roadways. The purpose of this Impact Fee Study is to identify the fee per unit of new development necessary to fund these improvements in accordance with the enabling legislation, Chapter 395 of the Texas Local Government Code.

Impact Fees are a one-time fee, and are charged only against new development. They are based on the cost of the arterial capacity improvements necessary to accommodate new growth. New development currently contributes to arterial roadway improvements in Fort Worth through the Community Facilities Agreement (CFA); a Transportation Impact Fee would significantly modify the CFA requirements for arterial roadway improvements.

There are a number of differences in the basic structure of the two policies. Most important, CFA requirements are not determined by the actual impact of new development. In most cases, the CFA requires that a developer improve not more than one-half of an adjacent arterial roadway for the length of the development's frontage. This approach does not distinguish the impact of a 100-unit residential development from a 10,000-unit development or a 100,000-squarefoot retail use, assuming that all three uses had the same amount of frontage. Additionally, projects that are not adjacent to an unimproved arterial are not required to make any contribution to the arterial system, as though they do not generate any demand for arterial capacity. In contrast, an Impact Fee program is designed to directly correlate fees with actual impacts and to spread the cost of needed improvements across all new developments. In this way, all new development shares the cost of expanding the roadway network in a predictable and equitable fashion.

Impact Fee Basics

Transportation Impact Fees are determined by several key variables, each described below in greater detail.

Impact Fee Study

The primary purpose of the Impact Fee Study is to determine the maximum impact fee per unit of new development allowed by state law. This determination is not a recommendation; the actual fee amount ultimately assessed is at the discretion of the Fort Worth City Council, so long as it does not exceed the maximum assessable by law. The study looks at a period of 10 years to project new growth and corresponding capacity needs, as required by state law. The study (and corresponding maximum fees) must





be updated at least every five years. The study can be updated at any time, however, to accommodate significant changes in any of the key variables of the impact fee equation.

Service Areas

A Service Area is a geographic area within which a unique maximum impact fee is determined. All fees collected within the Service Area must be spent on eligible improvements within the same Service Area. For Transportation Impact Fees, the Service Area may not exceed 6 miles. In Fort Worth, this restriction necessitated the creation of 27 separate Service Areas. A map of the Service Areas can be found on Page 5.

In defining the Service Area boundaries, the project team considered the corporate boundary, required size limit, adjacent land uses, and topography. Since each Service Area has a unique maximum impact fee, the per-unit fee for an identical land use will vary from one Service Area to the next. For this reason, the team avoided where possible drawing a Service Area boundary through uniform land uses.

Land Use Assumptions

The Impact Fee determination is required to be based on the projected growth and corresponding capacity needs in a 10-year window. This study considers the years 2006-2016. Acknowledging that the parameters of the study (the corporate boundaries, Master Thoroughfare Plan, Comprehensive Plan, zoning maps, platting history, etc.) are changing constantly, this study is based on conditions as they were on January 1, 2006. Population growth that has occurred since 2006 is accounted for in the projections for 2006-2017. Within five years of adoption, or sooner if necessary, changes to these study parameters will be included in an update of the Impact Fee Study.

One of the key elements in the determination of the impact fee is the amount of new development anticipated over 10 years. In order to arrive at a reasonable projection of growth, staff compiled a team of subject-experts from the Transportation & Public Works and Planning and Development departments to evaluate each service area individually. A map of each service area was overlaid with an aerial photograph, preliminary and final plats, water plats and the Future Land Use Plan defined in the Comprehensive Plan. The team that studied these maps was comprised of the staff that administers zoning, platting and predevelopment applications; Master Thoroughfare Plan alignments; construction plan reviews; and planning efforts. All vacant parcels were discussed and projected to either develop by 2016 or to remain undeveloped at that time, based on zoning, platting and pre-development history, utility availability and any additional information regarding development potential or stated intentions. It was assumed that vacant parcels without recorded zoning or platting information would develop according to the land use specified in the Comprehensive Plan.

In projecting whether a particular parcel was likely to develop by 2016, the project team erred on the side of greater growth. An assumption of greater growth ultimately decreases the per-unit fee amount assessed to future development. Because the impact fee is calculated by dividing the eligible costs for arterial improvements by the amount of future growth, a higher rate of growth results in a lower maximum impact fee. Therefore, the study team felt it was appropriate to err on the higher end of a reasonable growth rate.

Finally, tables were created to compare existing population and employment data to the ultimate population and employment figures anticipated in the Comprehensive Plan. The effort described above generated a percentage of the ultimate population and employment figures anticipated within each service area by the year 2016. These projections can be found in the Population and Employment Projections tables on Pages 7-10. It is worth noting here that the percentage of ultimate population expected by 2016 does not directly correlate to the percentage of the planned arterial network that will be required by that date. The Master Thoroughfare Plan, which defines the future arterial network, is not based solely on future growth





projections; therefore the percentage of the planned arterial network needed to accommodate future growth exceeds 100% in some service areas.

Capital Improvements Plan (CIP) for Impact Fees

The Impact Fee CIP is distinct and separate from the City's bond program, which is also called a CIP. The Impact Fee CIP is simply the list of projects eligible for funding through impact fees. Only those capacity improvements included in the City's adopted Master Thoroughfare Plan are included in the Transportation Impact Fee CIP. Capacity improvements may include the addition of lanes, intersection improvements, or the extension of a new road. Resurfacing or other maintenance activities do not qualify as capacity improvements under impact fee law in Texas.

The cost of the Impact Fee CIP is one of the fundamental factors in the calculation of the per-unit impact fee amount. The Impact Fee CIP cost was calculated through systematic evaluation of each eligible project. The project team visited each project site to determine the project scope, the presence of any special conditions (such as the need for significant drainage improvements) and whether various additional construction costs were applicable (such as construction phase traffic control). In determining project limits, the team identified roadway segments with uniform need. For example, Beach Street is separated into several projects in the Impact Fee CIP; one project includes the construction of a new six-lane divided roadway, while another consists of the construction of the median lanes necessary to complete a separate section of the divided roadway. The team utilized a standard methodology for estimating construction costs once the project scope was defined. Referencing dozens of recent arterial projects within Fort Worth and the immediate vicinity, uniform costs were determined for the major items of work, additional construction items, and project delivery costs. A listing of the Impact Fee CIP by service area can be found in Tables 2.A – 2.Z. Maps of the Impact Fee CIP by service area can be found in Section III. Finally, detailed cost projections by project can be found in **Appendix A**. It should be noted that these cost projections are based on conceptual level planning, and are subject to refinement upon final design. Also, note that on the detailed cost projections, where applicable, funds previously collected by the City through the CFA have been deducted from a project's eligible total.

Only those projects listed in the Impact Fee CIP are eligible to utilize impact fee funds. In order to optimize future flexibility, all capacity improvements included in the Master Thoroughfare Plan are included in the Impact Fee CIP and will be eligible to utilize impact fee funds. However, only the costs associated with providing the additional capacity necessitated by 10 years' growth can be used to calculate the maximum impact fee. In order to calculate the fee, the total cost of the CIP was reduced, although no projects were removed (preserving future flexibility). Specifically, the full cost of the Impact Fee CIP was reduced to account for (1) the portion of new capacity that will address existing needs, and (2) the portion of new capacity that will not be necessitated until beyond the 10-year growth window. A ratio that compares 10 years' demand for capacity to the net supply of capacity (total new capacity in the CIP minus existing needs) can be calculated. That ratio, which may not exceed 100%, is then applied to the cost of the net capacity supplied. The result is a determination of the costs attributable to the next 10 years' growth, which is then used to calculate the maximum impact fee in accordance with state law.

Impact Fee Calculation

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





In practice, there are many factors that complicate this calculation. The maximum impact fee allowable by law for each service area is calculated in Table 7. A detailed discussion of the calculation precedes Table 7, found on Pages 60-61. Notice that Service Areas H, I, J, K, P, Q, R, and V are not included in Table 7. These Service Areas are "No Fee" areas, where no impact fee will be assessed for new development. In most cases, a service area was classified as a no-fee area because there were no capacity improvements necessary to accommodate new development (such as in the Central City). In some cases, the projected growth or number of eligible projects was not sufficient to support the administration of an impact fee policy.

Collection and Use of Impact Fees

Impact fees are assessed when a final plat is recorded. The assessment defines the impact of each unit at the time of platting, according to land use, and may not exceed the maximum impact fee allowed by law. Impact fees are collected when a building permit is issued. Therefore, funds are not collected until development-impacts are introduced to the transportation system. Funds collected within a service area can be used only within the same service area. Finally, fees must be utilized within 10 years of collection, or must be refunded with interest.

Adoption Process

Chapter 395 of the Texas Local Government Code stipulates a specific process for the adoption of Impact Fees. An Advisory Committee is required to review the Land Use Assumptions and CIP used in calculating the maximum fee, and to provide its finding for consideration by the City Council. The composition of the Advisory Committee is required to adequately represent the building and development communities. The City Council must then conduct a public hearing on the Land Use Assumptions and CIP before considering an Impact Fee ordinance.

The Impact Fee ordinance is considered separately from the Land Use Assumptions and CIP. The Advisory Committee must review the Impact Fee ordinance and provide its findings to the City Council. Following receipt of the report by the Advisory Committee, the City Council is required to conduct at least one public hearing on the Impact Fee ordinance prior to adoption.

Following policy adoption, the Advisory Committee is tasked with advising the City Council of the need to update the Land Use Assumptions or CIP at any time within five years of adoption. Finally, the Advisory Committee oversees the proper administration of the Impact Fee, once in place, and advises the Council as necessary.





I. INTRODUCTION

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

Accordingly, the City of Fort Worth has developed its Land Use Assumptions and Capital Improvements Plan (CIP) with which to implement transportation (roadway) Impact Fees. The City has retained Kimley-Horn and Associates, Inc., to provide professional transportation engineering services for the development of the transportation impact fee policy. This report includes details of the impact fee calculation methodology in accordance with Chapter 395, the applicable Land Use Assumptions, development of the CIP, and the Land Use Equivalency Table.

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

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

The report also includes a section concerning the **Plan for Awarding the Transportation Impact Fee Credit**. In the case of Transportation Impact Fees, this involves the calculation of the applicable credit required by law to offset the City's use of ad valorem taxes to help fund the Impact Fee CIP. This plan, prepared by R.W. Beck, Inc., and upon which we relied, details the maximum assessable impact fee per service unit the City of Fort Worth may apply under Chapter 395 of the Texas Local Government Code.





II. LAND USE ASSUMPTIONS

A. PURPOSE AND OVERVIEW

In order to assess an impact fee, Land Use Assumptions must be developed to provide the basis for population and employment growth projections within a political subdivision. As defined by Chapter 395 of the Texas Local Government Code, these assumptions include a description of changes in land uses, densities, and population in the service area. In addition, these assumptions are useful in assisting the City of Fort Worth in determining the need and timing of capital improvements to serve future development.

In accordance with Chapter 395, information from the following sources was compiled: the City of Fort Worth Comprehensive Plan, the North Central Texas Council of Governments (NCTCOG), and consultation with City of Fort Worth staff.

The Land Use Assumptions include the following components:

- **Methodology** An overview of the general methodology used to generate the land use assumptions;
- **Impact Fee Service Areas** Explanation of the division of Fort Worth into service areas for transportation facilities;
- **Population and Employment** Data on population and employment within the service area for the base year (2006), the completely developed (Build Out) scenario, and growth projections by service area over the next ten years (2006 2016); and
- Land Use Assumptions Summary a synopsis of the land use assumptions.

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

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. Each

classification has unique trip making characteristics.

<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 of the local economy, such as manufacturing, construction, transportation, wholesale, trade, warehousing, and other industrial uses.





B. METHODOLOGY

The population and employment 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, and quantity of existing development;
- Current zoning plans;
- Future Land Use Plan (as currently adopted);
- Growth trends:
- Location of vacant land; and
- Physical holding capacity of Fort Worth.

Existing population and employment data was compiled using data collected in the field and an aerial survey of existing development. For the remaining undeveloped areas, assumptions based upon existing development patterns and the future land use plan was utilized. Consultation with City staff and submitted plat information helped to determine the approximate portion of build out to assume for 2016. Following completion of the inventory of existing development, discussions were held with representatives from multiple City departments (Planning and Development & Transportation and Public Works) for each service area to determine what undeveloped portions of the City were likely to develop (or redevelop) in the next ten years.

It should be noted that the project team's approach to determining the growth projections was to error on the side of a higher growth rate within the next ten years. While the project team believes the resulting growth assumptions are reasonable, they may be considered aggressive by others. The reason for this approach is to end up with a conservative (lower) amount for the maximum assessable impact fee. For example, if you analyze **Table 7**, Service Area U, the pre-credit maximum assessable impact fee per service unit (see Line 15) is \$577. This is the result of Line 14 (Cost of CIP and Financing Attributable to Growth) divided by Line 8 (Total Vehicle-Miles of Demand over the Next Ten Years). If you reduce Line 8 by 25% (from 186,429 to 139,822), the resulting pre-credit maximum assessable impact fee would *increase* from \$577 to \$769. This is a result of similar thoroughfare needs being spread amongst a smaller amount of projected growth (i.e., the per unit costs would be greater).

C. IMPACT FEE SERVICE AREAS

The geographic boundary of the proposed impact fee service areas for transportation facilities is shown in **Exhibit 1**. The City of Fort Worth is divided into twenty-seven (27) service areas, each based upon the six (6) mile limit as required in Chapter 395. For transportation facilities, the service areas are limited to those areas within the current corporate limits. Therefore, areas within the extraterritorial jurisdiction (ETJ) (as of January 1, 2006) are excluded from this study.

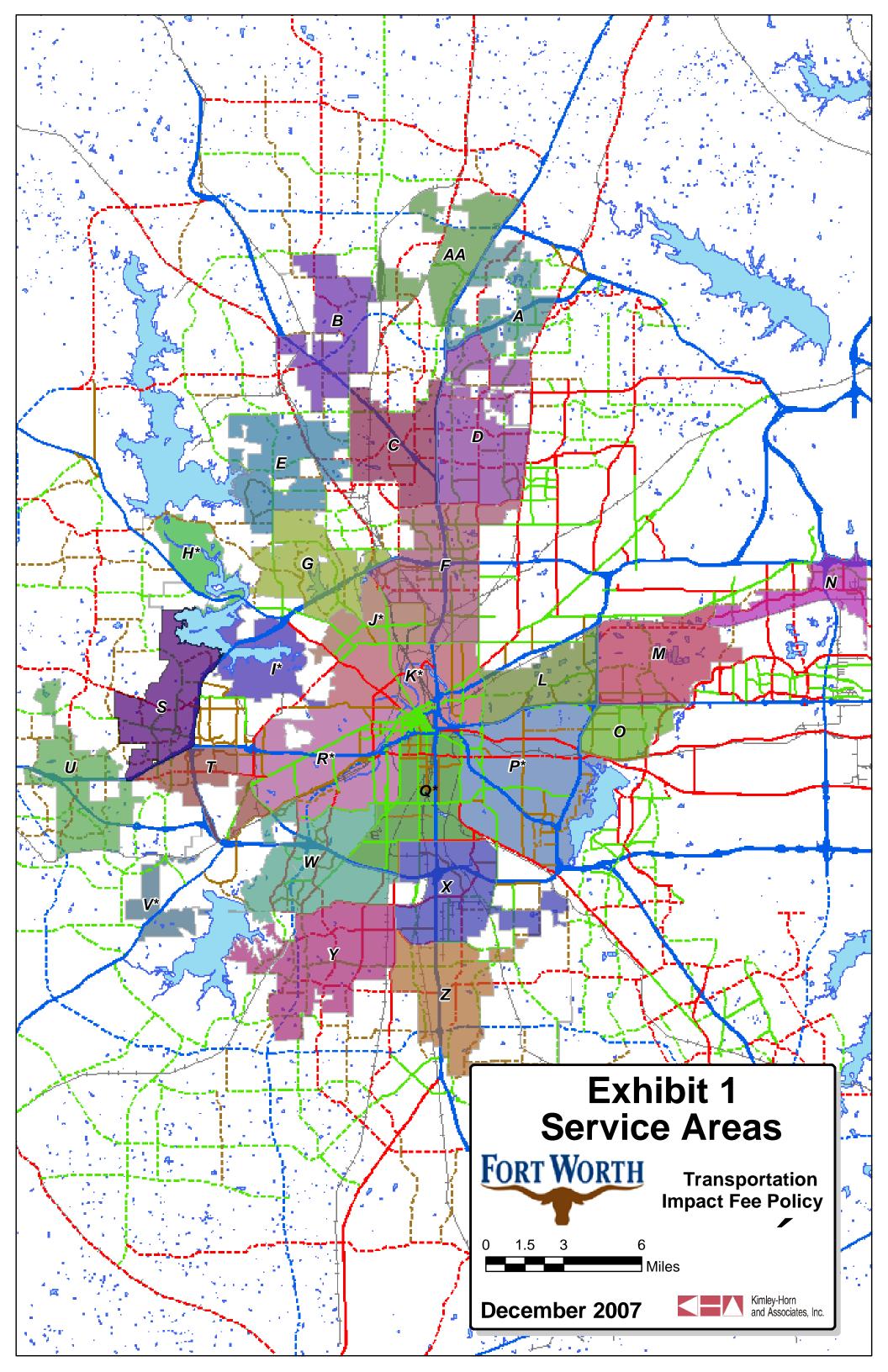
It should be noted that at locations where service area boundaries follow a thoroughfare facility, the proposed boundary is intended to follow the centerline of the roadway. In cases where a service area boundary follows the City Limits, only those portions of the facility within the City Limits are included in the service area.





D. POPULATION AND EMPLOYMENT

Population and employment estimates for the base year (2006) were performed based upon a survey of the existing land uses. Build Out projections were prepared based upon combining the existing land uses within the service area with reasonable density assumptions for undeveloped land based upon the currently adopted Future Land Use Plan. Ten year growth projections were prepared based upon consultation with City staff and analysis of submitted plat information regarding the approximate portions of currently vacant property that will be developed by 2016. **Exhibit 2** presents the existing City limits and the proposed service areas, combined with the Future Land Use Plan (as currently adopted). **Table 1** summarizes the population and employment projections within the City of Fort Worth for 2006, 2016, and Build Out.







Insert Exhibit 2 – Citywide Future Land Use Map





Table 1. Population and Employment Projections for the City of Fort Worth

| Service | Year | Population | Units | E | mployment (| Square Feet | t) |
|---------|-----------|------------|----------|------------|-------------|-------------|------------|
| Area | 1 cui | Topulation | Cints | Basic | Service | Retail | Total |
| | 2006 | 6,293 | 2,133 | 648,400 | 1,086,964 | 3,044,759 | 4,780,123 |
| | 2000 | 32.77 | % | 5.96% | 26.10% | 66.90% | 24.39% |
| A | 2016 | 17,966 | 6,160 | 4,646,446 | 2,465,440 | 4,145,207 | 11,257,094 |
| | 2010 | 93.00 | % | 42.71% | 59.20% | 91.08% | 57.45% |
| | Build Out | 19,203 | 6,653 | 10,879,449 | 4,164,364 | 4,551,013 | 19,594,826 |
| | 2006 | 2,208 | 736 | 0 | 2,748,590 | 8,245,771 | 10,994,361 |
| | 2000 | 68.24 | % | 0.00% | 59.55% | 82.56% | 39.92% |
| AA | 2016 | 8,312 | 2,809 | 1,823,428 | 3,355,073 | 8,681,092 | 13,859,593 |
| | 2010 | 80.00 | % | 16.08% | 54.93% | 86.05% | 50.33% |
| | Build Out | 10,351 | 3,598 | 11,343,059 | 6,107,991 | 10,088,993 | 27,540,043 |
| | 2006 | 795 | 265 | 15,587 | 391,054 | 1,167,967 | 1,574,608 |
| | 2000 | 1.579 | % | 0.60% | 22.98% | 28.55% | 18.76% |
| В | 2016 | 10,868 | 3,655 | 795,149 | 742,323 | 1,874,184 | 3,411,656 |
| | 2010 | 21.52 | % | 30.59% | 43.63% | 45.81% | 40.65% |
| | Build Out | 50,509 | 17,253 | 2,599,452 | 1,701,382 | 4,091,590 | 8,392,424 |
| | 2006 | 4,173 | 1,391 | 228,632 | 646,936 | 1,864,596 | 2,740,164 |
| | 2006 | 7.63% | | 5.32% | 24.57% | 33.24% | 21.84% |
| C | 2016 | 41,220 | 13,879 | 3,322,077 | 2,036,388 | 4,401,412 | 9,759,877 |
| | 2010 | 76.12 | % | 77.23% | 77.33% | 78.46% | 77.80% |
| | Build Out | 54,159 | 18,233 | 4,301,335 | 2,633,384 | 5,609,398 | 12,544,117 |
| | 2006 | 47,118 | 15,706 | 211,017 | 841,707 | 2,454,783 | 3,507,508 |
| | 2000 | 51.34 | % | 6.47% | 20.93% | 23.37% | 19.72% |
| D | 2016 | 74,419 | 25,385 | 1,506,314 | 2,102,230 | 5,448,743 | 9,057,287 |
| | 2010 | 82.98 | % | 46.20% | 52.26% | 51.88% | 50.92% |
| | Build Out | 88,508 | 30,591 | 3,260,499 | 4,022,397 | 10,502,785 | 17,785,680 |
| | 2006 | 8,340 | 2,847 | 150,610 | 317,534 | 902,398 | 1,370,543 |
| | 2000 | 14.08 | % | 3.31% | 21.51% | 40.59% | 16.62% |
| E | 2016 | 38,198 | 12,870 | 150,610 | 585,392 | 1,528,806 | 2,264,808 |
| | | 63.66 | % | 3.31% | 39.66% | 68.77% | 27.46% |
| | Build Out | 59,927 | 20,217 | 4,548,605 | 1,476,165 | 2,223,080 | 8,247,850 |
| | 2006 | 29,025 | 10,090 | 4,328,708 | 6,908,870 | 19,283,708 | 30,521,286 |
| | 2000 | 68.24 | % | 24.19% | 59.55% | 82.56% | 57.75% |
| F | 2016 | 39,058 | 13,727 | 9,618,860 | 9,267,616 | 22,574,056 | 41,460,533 |
| | | 92.84 | % | 53.76% | 79.89% | 96.64% | 78.45% |
| | Build Out | 41,981 | 14,786 | 17,893,678 | 11,601,026 | 23,357,744 | 52,852,449 |

^{*}Note: Service Areas H, I, J, K, P, Q, R, and V are no-fee areas.





Table 1. Population and Employment Projections for the City of Fort Worth (cont.)

| Service | Year | Population | Units | E | mployment (| Square Feet | t) |
|---------|-----------|-------------|--------|-----------|-------------|-------------|------------|
| Area | 1 cai | 1 opulation | Units | Basic | Service | Retail | Total |
| | 2006 | 16,857 | 5,718 | 495,241 | 831,388 | 2,329,082 | 3,655,711 |
| | 2000 | 27.17 | % | 22.46% | 42.09% | 50.92% | 41.76% |
| G | 2016 | 44,788 | 15,337 | 1,141,497 | 1,251,178 | 3,325,714 | 5,718,389 |
| | 2010 | 72.87 | % | 51.76% | 63.34% | 72.71% | 65.32% |
| | Build Out | 61,314 | 21,048 | 2,205,242 | 1,975,455 | 4,573,674 | 8,754,371 |
| | 2006 | 684 | 228 | 15,467 | 243,872 | 726,460 | 985,799 |
| | 2000 | 30.46 | % | 23.86% | 86.79% | 91.92% | 87.56% |
| Н* | 2016 | 1,160 | 387 | 15,473 | 251,814 | 744,988 | 1,012,275 |
| | 2010 | 51.66 | % | 28.37% | 89.62% | 94.27% | 89.91% |
| | Build Out | 2,246 | 749 | 54,542 | 280,995 | 790,291 | 1,125,828 |
| | 2006 | 3,435 | 1,145 | 55,026 | 2,415,733 | 7,228,857 | 9,669,617 |
| | 2000 | 26.70 | % | 4.44% | 82.05% | 86.55% | 77.37% |
| I* | 2016 | 6,490 | 2,324 | 561,363 | 2,719,990 | 8,207,110 | 11,481,862 |
| | 2010 | 50,45 | % | 45.27% | 92.39% | 98.26% | 91.59% |
| | Build Out | 12,865 | 4,474 | 1,240,108 | 2,944,091 | 8,352,287 | 12,536,485 |
| | 2006 | 24,160 | 8,112 | 522,721 | 1,604,824 | 4,640,232 | 6,767,777 |
| | 2000 | 79.56% | | 37.45% | 84.90% | 96.18% | 83.45% |
| J* | 2016 | 29,172 | 9,791 | 760,146 | 1,726,087 | 4,807,805 | 7,294,037 |
| | 2010 | 96.06 | % | 54.46% | 91.31% | 99.66% | 89.93% |
| | Build Out | 30,368 | 10,225 | 1,395,664 | 1,890,363 | 4,824,431 | 8,110,458 |
| | 2006 | 34,048 | 11,408 | 841,051 | 3,227,866 | 9,403,247 | 1,347,216 |
| | 2000 | 83.37 | % | 29.06% | 75.22% | 85.12% | 7.39% |
| K* | 2016 | 38,906 | 13,173 | 2,172,618 | 3,910,063 | 10,462,595 | 16,545,275 |
| | 2010 | 95.26 | % | 75.06% | 91.12% | 94.71% | 90.74% |
| | Build Out | 40,840 | 13,892 | 2,894,625 | 4,291,149 | 11,047,269 | 18,233,043 |
| | 2006 | 18,162 | 6,746 | 648,623 | 2,272,059 | 6,599,970 | 9,520,652 |
| | 2000 | 57.54 | % | 16.19% | 63.75% | 86.21% | 62.53% |
| L | 2016 | 20,424 | 7,533 | 1,602,209 | 2,624,798 | 6,866,952 | 11,093,958 |
| | 2010 | 64.26 | % | 40.00% | 73.65% | 89.69% | 72.87% |
| | Build Out | 32,923 | 11,724 | 4,005,442 | 3,563,773 | 7,656,016 | 15,225,231 |
| | 2006 | 16,899 | 5,883 | 266,295 | 1,733,617 | 5,112,085 | 7,111,997 |
| | 2000 | 30.22 | % | 4.95% | 49.42% | 70.56% | 44.07% |
| M | 2016 | 25,107 | 8,711 | 1,828,471 | 2,447,536 | 6,311,307 | 10,587,314 |
| | | 44.75 | % | 33.97% | 69.77% | 87.11% | 65.61% |
| | Build Out | 57,109 | 19,465 | 5,383,002 | 3,507,918 | 7,245,241 | 16,136,161 |

^{*}Note: Service Areas H, I, J, K, P, Q, R, and V are no-fee areas.





Table 1. Population and Employment Projections for the City of Fort Worth (cont.)

| Service | Year | Population | Units | E | mployment (| Square Feet | (1) |
|--------------------|-----------|------------|--------|-----------|-------------|-------------|------------|
| Area | i ear | ropulation | Umis | Basic | Service | Retail | Total |
| | 2006 | 15,013 | 5,644 | 1,608,071 | 2,415,863 | 6,711,565 | 10,735,498 |
| | 2000 | 72.44 | % | 26.43% | 57.74% | 77.22% | 56.62% |
| N | 2016 | 19,718 | 7,419 | 3,647,577 | 3,438,811 | 8,288,098 | 15,374,486 |
| | 2010 | 95.21 | % | 59.96% | 82.19% | 95.36% | 81.09% |
| Area N O P* R* | Build Out | 20,755 | 7,792 | 6,083,848 | 4,184,029 | 8,691,782 | 18,959,659 |
| | 2006 | 27,598 | 9,796 | 113,805 | 371,905 | 1,077,780 | 1,563,490 |
| | 2000 | 77.64 | % | 52.60% | 52.61% | 55.07% | 54.28% |
| О | 2016 | 31,081 | 11,008 | 190,347 | 505,925 | 1,430,379 | 2,126,651 |
| | 2010 | 87.24 | % | 87.98% | 71.57% | 73.09% | 73.83% |
| | Build Out | 35,736 | 12,617 | 216,359 | 706,939 | 1,956,992 | 2,880,290 |
| | 2006 | 69,061 | 23,059 | 255,717 | 3,400,249 | 10,115,508 | 13,771,475 |
| | 2000 | 75.47 | % | 8.51% | 71.85% | 84.68% | 69.97% |
| P* | 2016 | 85,522 | 28,768 | 1,958,080 | 4,245,088 | 11,318,051 | 17,521,218 |
| | 2010 | 93.46 | % | 65.15% | 89.70% | 94.75% | 89.02% |
| | Build Out | 91,509 | 30,817 | 3,005,419 | 4,732,697 | 11,945,134 | 19,683,250 |
| | 2006 | 56,291 | 18,964 | 562,167 | 1,957,090 | 5,683,881 | 8,203,138 |
| | | 87,77% | | 36.79% | 77.94% | 85.11% | 76.54% |
| Q* | 2016 | 63,111 | 21,422 | 951,564 | 2,346,213 | 6,521,812 | 9,819,589 |
| | 2010 | 98.40 | % | 62.27% | 93.44% | 97.66% | 91.62% |
| | Build Out | 64,137 | 21,816 | 1,528,199 | 2,510,998 | 6,678,392 | 10,717,589 |
| | 2006 | 74,234 | 26,012 | 131,430 | 3,317,648 | 9,909,135 | 13,358,213 |
| | 2006 | 87.17 | % | 23.92% | 76.59% | 79.30% | 76.87% |
| R* | 2016 | 78,227 | 27,440 | 540,414 | 3,739,778 | 10,776,282 | 15,056,473 |
| | 2010 | 91.96 | % | 98.34% | 86.34% | 86.24% | 86.65% |
| | Build Out | 84,529 | 29,840 | 549,550 | 4,331,462 | 12,495,563 | 17,376,575 |
| | 2006 | 13,683 | 4,561 | 0 | 389,896 | 1,169,688 | 1,559,584 |
| | 2006 | 26.99 | % | 0.00% | 28.33% | 21.27% | 20.18% |
| S | 2016 | 33,735 | 11,308 | 232,903 | 765,753 | 3,340,961 | 4,339,617 |
| | 2016 | 66.92 | % | 27.30% | 55.64% | 60.76% | 56.15% |
| | Build Out | 50,013 | 16,899 | 853,257 | 1,376,343 | 5,498,665 | 7,728,264 |
| | 2006 | 30,003 | 10,965 | 15,265 | 1,981,820 | 5,940,371 | 7,937,456 |
| | ∠000 | 84.69 | % | 3.48% | 72.34% | 73.23% | 70.30% |
| T | 2017 | 31,818 | 11,623 | 146,318 | 2,398,090 | 7,013,768 | 9,558,177 |
| | 2016 | 89.77 | % | 33.32% | 87.54% | 86.46% | 84.65% |
| | Build Out | 35,664 | 12,948 | 439,088 | 2,739,525 | 8,112,199 | 11,290,812 |

*Note: Service Areas H, I, J, K, P, Q, R, and V are no-fee areas.





Table 1. Population and Employment Projections for the City of Fort Worth (cont.)

| Service | Year | Population | Units | E | mployment (| Square Feet | t) |
|--------------|-----------|-------------|--------|------------|----------------|-------------|--|
| Area | 1 cai | 1 opulation | Cints | Basic | Service Retail | | Total |
| | 2006 | 1,716 | 572 | 0 | 255,790 | 767,370 | 1,023,160 |
| | 2000 | 2.749 | % | 0.00% | 15.57% | 12.47% | 10.98% |
| U | 2016 | 59,183 | 19,941 | 1,515,812 | 1,382,867 | 5,374,933 | 8,273,611 |
| | 2010 | 95.46 | % | 99.96% | 84.15% | 87.32% | 88.82% |
| | Build Out | 61,758 | 20,888 | 1,516,459 | 1,643,271 | 6,155,662 | 9,315,392 |
| | 2006 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2000 | 0.00 | % | 0.00% | 0.00% | 0.00% | 0.00% |
| V* | 2016 | 1,164 | 388 | 0 | 0 | 0 | Total 1,023,160 10.98% 8,273,611 88.82% 9,315,392 0 0.00% 0 13,797,583 75.41% 15,578,867 85.15% 18,296,785 19,746,144 58.71% 24,778,289 73.68% 233,630,757 3,611,014 6,043,455 |
| | 2010 | 4.509 | % | 0.00% | 0.00% | 0.00% | 0.00% |
| | Build Out | 25,877 | 8,626 | 0 | 0 | 0 | 0 |
| | 2006 | 69,035 | 24,683 | 0 | 3,449,396 | 10,348,187 | 13,797,583 |
| | 2000 | 86.52 | % | 0.00% | 77.77% | 74.79% | Total 1,023,160 10.98% 8,273,611 88.82% 9,315,392 0 0.00% 0 13,797,583 75.41% 15,578,867 85.15% 18,296,785 19,746,144 58.71% 24,778,289 73.68% 233,630,757 3,611,014 6,043,455 10,921,320 11,530,999 |
| \mathbf{W} | 2016 | 73,452 | 26,265 | 24,232 | 3,775,111 | 11,779,524 | 15,578,867 |
| | 2010 | 92.07 | % | 100.00% | 85.11% | 85.13% | 85.15% |
| | Build Out | 79,521 | 28,528 | 24,232 | 4,435,558 | 13,836,994 | 18,296,785 |
| | 2006 | 25,567 | 8,837 | 3,686,900 | 4,322,053 | 11,737,191 | 19,746,144 |
| | 2000 | 62.96 | % | 29.70% | 61.33% | 82.83% | 58.71% |
| X | 2016 | 33,265 | 11,449 | 6,724,960 | 5,343,100 | 12,710,229 | 24,778,289 |
| | 2010 | 81.57 | % | 54.17% | 75.82% | 89.70% | 73.68% |
| | Build Out | 40,528 | 14,036 | 12,414,004 | 7,047,310 | 14,169,442 | 33,630,757 |
| | 2006 | 49,983 | 17,042 | 204,133 | 868,731 | 2,538,150 | 3,611,014 |
| | 2000 | 47.78% | 28.63% | 35.66% | 32.66% | 33.06% | |
| Y | 2016 | 79,170 | 26,990 | 534,938 | 1,371,509 | 4,137,008 | 6,043,455 |
| | 2010 | 75.67% | 75.02% | 56.29% | 53.23% | 55.34% | |
| | Build Out | 104,499 | 35,666 | 713,033 | 2,436,404 | 7,771,883 | 10,921,320 |
| | 2006 | 10,227 | 3,409 | 2,008,944 | 2,547,926 | 6,974,129 | 11,530,999 |
| | 2000 | 20.34% | 21.57% | 48.78% | 69.32% | 46.88% | |
| Z | 2016 | 32,461 | 11,019 | 4,257,018 | 3,541,974 | 8,443,294 | 16,242,285 |
| | 2010 | 65.73% | 45.72% | 67.81% | 83.92% | 66.04% | |
| | Build Out | 49,211 | 16,764 | 9,311,704 | 5,223,657 | 10,060,898 | 24,596,258 |

^{*}Note: Service Areas H, I, J, K, P, Q, R, and V are no-fee areas.





E. SUMMARY

The City of Fort Worth is projected to experience a significant amount of population and employment growth within the next ten years, especially in those Service Areas located near the current City Limits. For the Service Areas with a majority of undeveloped land, a majority of the growth is projected to be in population (e.g. Service Areas A, B, and Y). For those Service Areas where a significant population base already exists, the rate of growth for employment exceeds that of population (e.g. Service Areas G and O).





III. CAPITAL IMPROVEMENTS PLAN

The City has identified the transportation projects needed to accommodate the projected growth within the City. The Capital Improvements Plan (CIP) for Transportation Impact Fees is made up of:

- Recently completed projects with excess capacity available to serve new growth;
- Projects currently under construction; and
- All remaining projects needed to complete the City's Master Thoroughfare Plan.

The CIP includes arterial class roadway facilities as well as major intersection improvements. All of the facilities identified are included in the Master Thoroughfare Plan (as adopted in February 2006).

The proposed CIP for Transportation Impact Fees is listed in **Table 2** and mapped in **Exhibit 3**. The table shows the length of each project as well as the facility's Master Thoroughfare Plan classification. The CIP was developed in conjunction with input from City of Fort Worth staff (Transportation & Pubic Works Department and Department of Engineering) and represents those projects that will be needed to accommodate the growth projected in the Land Use Assumptions section of this report.

Table 2.A. 10-Year Capital Improvements Plan for Transportation Impact Fees – Service Area A

| Service Area | Proj. # | Class | Roadway | Limits | Length (mi) | % In Service Area |
|-----------------|------------|------------|------------------------|--|-------------|-------------------------|
| | A-1 | P6D | N. Beach St. (1) | Litsey Rd. to 1830' S. of Future Eagle | 1.12 | 100% |
| | A-2 | P6D | N. Beach St. (2) | Keller Haslet to SH 170 | 0.19 | 100% |
| | A-3, D-29 | P6D | N. Beach St. (3) | SH 170 to Timberland | 1.04 | 50% |
| | A-4 | MA4D | Park Vista Blvd. (1) | 900' S. of Henrietta Creek to SH 170 | 0.73 | 100% |
| | A-5 | MA4D | Independence Pkwy. (1) | Litsey Rd. to Henrietta Creek | 1.12 | 100% |
| | A-6 | MA4D (1/2) | Independence Pkwy. (2) | Henrietta Creek to 255' N. of SH 170 | 0.50 | 100% |
| | A-7 | P6D (1/3) | Cleveland Gibbs Rd. | N. City Limits (3670' S. of SH 114) to Litsey Rd. | 0.92 | 100% |
| | A-8 | P6D | Litsey Rd. (1) | 190' E. of Elizabethtown to Cleveland Gibbs | 0.51 | 100% |
| | A-9 | MA4D | Litsey Rd. (2) | Cleveland Gibbs to 500' W. of Independence | | 100% |
| | A-10 | MA4D | Litsey Rd. (3) | IH-35W to Future N. Beach St. | 0.35 | 100% |
| A | A-11 | MA4D | Eagle Pkwy. (1) | Old Denton Rd. to 950' E. of Future Beach | 0.50 | 100% |
| A | A-12 | MA4D | Eagle Pkwy. (2) | W. City Limits to Future Park Vista | 0.54 | 100% |
| | A-13 | MA4D | Henrietta Creek Rd. | 700' E. of Future Park Vista to Independence | 0.32 | 100% |
| | A-14 | MA4D (1/2) | Westport Pkwy. (2) | IH-35W NBFR to 740' East of IH-35W NBFR | 0.14 | 100% |
| | A-15 | MA4D | Westport Pkwy. (3) | 740' East of IH-35W NBFR to Future N. Beach St. | 0.98 | 100% |
| | A-16 | MA4D | Westport Pkwy. (4) | 805' E. of Future N. Beach St. to Haslet Roanoke | 0.46 | 100% |
| | A-17 | MA4D | Westport Pkwy. (5) | 770' E. of Haslet-Roanoke to SH 170 WBFR | 0.37 | 100% |
| | A-18 | MA4D | Westport Pkwy. (6) | SH 170 EBFR to 150' W. of Park Vista Blvd. | 0.49 | 100% |
| | A-19 | MA4D (1/2) | Westport Pkwy. (7) | 165' E. of Park Vista to 1,450' W. of Independence | 0.40 | 100% |
| | A-20, D-19 | MA4D | Timberland Blvd. (1) | N. Beach St. to Cottageville Ln. | 0.20 | 50% |
| | A-21, D-20 | MA4D (1/2) | Timberland Blvd. (2) | Cottageville Ln. to 440' E. of Lillybrook Ln. | 0.20 | 50% |
| | A-22 | MA4D | Timberland Blvd. (3) | 60' E. of Park Vista to E. City Limits | 0.51 | 100% |





Table 2.AA. 10-Year Capital Improvements Plan for Transportation Impact Fees – Service Area AA

| Service Area | Proj. # | Class | Roadway | Limits | Length (mi) | % In Service Area |
|-----------------|---------|------------|--------------------|---------------------------------------|-------------|-------------------------|
| AA | AA-1 | P6D (2/3) | Intermodal Pkwy. | FM 156 to Future FM 156 Alignment | 0.70 | 100% |
| AA | AA-2 | MA4D (1/2) | Westport Pwky. (1) | W. City Limits to 1,495' W. of IH-35W | 0.16 | 100% |

Table 2.B. 10-Year Capital Improvements Plan for Transportation Impact Fees – Service Area B

| Service Area | Proj. # | Class | Roadway | Limits | Length (mi) | % In Service Area |
|-----------------|----------|-----------|---------------------------|--|-------------|-------------------------|
| | B-1 | M4U | Willow Springs Rd. (1) | Avondale Haslet to Blue Mound Rd. | 1.48 | 100% |
| | B-2 | M4U | Willow Springs Rd. (2) | Blue Mound Rd. to S. City Limits | 0.93 | 100% |
| | B-3 | M4U | Blue Mound Rd. (1) | Willow Springs Rd. to Wagley Robertson Rd. | 0.99 | 100% |
| | B-4 | M4U | Avondale Haslet Rd. (1) | N. Willow Springs Rd. to Willow Springs Rd. | 0.35 | 100% |
| | B-5 | M4U | Avondale Haslet Rd. (2) | 230' W. of Moonlake to Sendera Ranch | 0.44 | 100% |
| | B-6 | MA4D | Wagley Robertson Rd. (1) | 875' SE of Avondale Haslet to Blue Mound Rd. | 1.83 | 100% |
| В | B-7 | MA4D | Wagley Robertson Rd. (2) | Blue Mound Rd. to SA C Boundary | 0.53 | 100% |
| " | B-8, C-1 | MA4D | Wagley Robertson Rd. (3) | SA C Boundary to SA B Boundary | 0.41 | 50% |
| | B-9 | P6D | Sendera Ranch Blvd. (1) | Future Eagle (ETJ) to 765' N of Rodeo Daze Dr. | 1.84 | 100% |
| | B-10 | P6D (1/3) | Sendera Ranch Blvd. (2) | 765' N. Rodeo Daze to Diamondback | 0.78 | 100% |
| | B-11 | P6D (2/3) | Sendera Ranch Blvd. (3) | Diamondback to Avondale Haslet | 0.97 | 100% |
| | B-12 | M4U | Future E-W Minor Arterial | Future John Day to Future Sendera Ranch | 2.55 | 100% |
| L | B-13 | MA4D | John Day Rd. | N. City Limits to S. City Limits | 0.73 | 100% |
| | B-14 | MA4D | Eagle Pkwy. (3) | 785' W. of Sendera Ranch to E. City Limits | 1.00 | 100% |

Table 2.C. 10-Year Capital Improvements Plan for Transportation Impact Fees – Service Area C

| Service Area | Proj.# | Class | Roadway | Limits | Length (mi) | % In Service Area |
|-----------------|-----------|------------|---------------------------|---|----------------|-------------------------|
| | B-8, C-1 | MA4D | Wagley Robertson Rd. (3) | SA C Boundary to SA B Boundary | 0.41 | 50% |
| | C-2 | MA4D | Wagley Robertson Rd. (4) | S. SA B Boundary to 540' N of McGill Dr. | 0.20 | 100% |
| | C-3 | MA4D (1/2) | Wagley Robertson Rd. (5) | 540' N of McGill Dr. to 125' S of Darby Ln. | 0.31 | 100% |
| | C-4, E-6 | MA4D | Wagley Robertson Rd. (6) | Hillwood Blvd. to 1,800' S. of Bent Oak Dr. | 0.63 | 50% |
| | C-5 | MA4D | Wagley Robertson Rd. (7) | 700' N. of Heritage Trace to S. City Limits | 0.41 | 100% |
| | C-6, E-7 | MA4D | Wagley Robertson Rd. (8) | 145' N of Mystic River Trial to N. City Limits of Saginaw | 0.15 | 50% |
| | C-7 | MA4D | Harmon Rd. (1) | Keller Hicks Rd. to Existing Harmon Rd. | 0.46 | 100% |
| | C-8 | MA4D | Harmon Rd. (2) | Future Harmon Alignment. to Golden Triangle Blvd. | 0.24 | 100% |
| | C-9 | MA4D | Harmon Rd. (3) | Golden Heights Rd. to 540' S of El Camino Dr. | 0.79 | 100% |
| | C-10 | MA4D (1/2) | Harmon Rd. (4) | 540' S of El Camino Dr. to 475' S. of Heritage Trace | 0.43 | 100% |
| | C-11 | MA4D | Harmon Rd. (5) | 475' S. of Heritage Trace to 1,075' N. of US 287 NBFR | 0.69 | 100% |
| | C-12 | MA4D | Harmon Rd. (6) | 1,075' N. of US 287 NBFR to N. Tarrant Pwky. | 0.41 | 100% |
| C | C-13 | M4U | Keller Hicks Rd. (1) | IH-35 SBFR to ETJ | 0.07 | 100% |
| | C-14 | MA4D | Golden Triangle Blvd. (1) | IH-35 SBFR to Harmon Road | 0.40 | 100% |
| | C-15 | MA4D | Bonds Ranch Rd. (1) | 25' W. of Foothill to FM 156 | 1.40 | 100% |
| | C-16 | MA4D | Bonds Ranch Rd. (2) | FM 156 to Harmon Rd. | 1.01 | 100% |
| | C-17 | MA4D | Bonds Ranch Rd. (3) | Harmon Rd. to Existing Golden Heights Rd. | 0.68 | 100% |
| | C-18 | P6D | Heritage Trace Pkwy. (1) | Wagley Robertson Rd. to 200' W. of Drovers View | 1.43 | 100% |
| | C-19 | P6D (1/3) | Heritage Trace Pkwy. (2) | 200' W. of Drovers View. to FM 156 | 0.36 | 100% |
| | C-20 | P6D | Heritage Trace Pkwy. (3) | FM 156 to Harmon Rd. | 1.34 | 100% |
| | C-21 | P6D (1/3) | Heritage Trace Pkwy. (4) | Harmon Rd. to IH-35W SB FR | 0.83 | 100% |
| | C-22 | P6D | Bailey Boswell Rd. (1) | FM 156 to US 287 NB FR | 1.54 | 100% |
| | C-23, F-1 | P6D | Basswood Blvd. (1) | FM 156 to 125' W. of Almondale Rd. | 1.07 | 50% |
| | C-24, F-2 | P6D (2/3) | Basswood Blvd. (2) | 125' W. of Almodale Rd. to 590' W of IH-35 SBFR | 0.25 | 50% |
| | C-26 | P6D | N. Tarrant Pkwy. (1) | US 287 NB FR to IH-35W | 0.73 | 100% |
| | C-27, D-6 | n/a | N. Tarrant Pkwy. (2) | At IH-35W | 0.00 | 50% |





Table 2.D. 10-Year Capital Improvements Plan for Transportation Impact Fees – Service Area D

| Service Area | Proj. # | Class | Roadway | Limits | Length (mi) | % In Service Area |
|-----------------|------------|------------|---------------------------|---|-------------|-------------------------|
| | D-1, F-4 | P6D (1/3) | Basswood Blvd. (4) | 670' E. of IH-35W To N. Riverside Dr. | 0.62 | 50% |
| | D-2, F-5 | P6D (1/3) | Basswood Blvd. (5) | N. Riverside Dr. To N. Beach St. | 0.74 | 50% |
| | D-3, F-6 | P6D (1/3) | () | N. Beach St. To Park Vista Blvd. | 1.30 | 50% |
| | D-4, F-7 | P6D (1/3) | Basswood Blvd. (7) | Park Vista Blvd. to City Limits | 0.39 | 50% |
| | D-5 | M4U (1/2) | Summerfields Blvd. | Cannonwood Dr. to N. Riverside Dr. | 0.18 | 100% |
| | C-27, D-6 | n/a | N. Tarrant Pkwy. (2) | At IH-35W | n/a | 50% |
| | D-7 | MA4D | N. Tarrant Pkwy. (3) | IH-35W to US 377 | 3.51 | 100% |
| | D-8 | P6D (1/3) | N. Tarrant Pkwy. (4) | IH-35W to US 377 | 3.51 | 100% |
| | D-9 | M4U | Shiver Rd. | Stirrup Pwky. to Park Vista Blvd. | 0.48 | 100% |
| | D-10 | P6D (1/3) | Heritage Trace Pkwy. (5) | N. Riverside Dr. to N. Beach | 1.03 | 100% |
| | D-11 | P6D (1/3) | Heritage Trace Pkwy. (6) | N. Beach St. to Park Vista Blvd. | 1.13 | 100% |
| | D-12 | P6D (2/3) | Heritage Trace Pkwy. (7) | Park Vista Blvd. to E. City Limits | 0.95 | 100% |
| | D-13 | P6D | Golden Triangle Blvd. (2) | IH-35W to 50' E. of N. Riverside Dr. | 0.51 | 100% |
| | D-14 | P6D | Golden Triangle Blvd. (3) | 40' W. of N. Beach St. to 515' W. of Alta Vista | 0.36 | 100% |
| | D-15 | P6D | Golden Triangle Blvd. (4) | 100' W. of Alta Vista to City Limits | 1.57 | 100% |
| | D-16 | M4U | Keller Hicks Rd. (2) | Timberland Blvd.to Old Denton Rd. | | 100% |
| | D-17 | M4U | Keller Hicks Rd. (3) | 735' W. of Rideview to Park Vista Blvd. | 0.98 | 100% |
| | D-18 | M4U | Keller Hicks Rd. (4) | Park Vista Rd. to E. City Limits | 1.00 | 100% |
| | A-20, D-19 | MA4D | Timberland Blvd. (1) | N. Beach St. to Cottageville Ln. | 0.20 | 50% |
| D | A-21, D-20 | MA4D (1/2) | Timberland Blvd. (2) | Cottageville Ln. to 440' E. of Lillybrook Ln. | 0.20 | 50% |
| ע | D-21 | MA4D | Timberland Blvd. (4) | Hollow Valley Dr. to N. Beach St. | 0.84 | 100% |
| | D-22 | MA4D | N. Riverside Dr. (1) | SH 170 to 25' N. of Timberland | 1.62 | 100% |
| | D-23 | MA4D | N. Riverside Dr. (2) | 300' S. of Timberland Blvd. to Keller Hicks Rd. | 0.14 | 100% |
| | D-24 | MA4D | N. Riverside Dr. (3) | Keller Hicks Rd. to Golden Triangle Blvd. | 0.47 | 100% |
| | D-25 | MA4D | N. Riverside Dr. (4) | Golden Triangle Blvd. to Heritage Trace Pkwy. | 1.29 | 100% |
| | D-26 | MA4D | N. Riverside Dr. (5) | Heritage Trace Pkwy. to N. Tarrant Pkwy. | 1.23 | 100% |
| | D-27 | MA4D | N. Riverside Dr. (6) | N. Tarrant Pkwy. to Summerfields | 0.71 | 100% |
| | D-28 | MA4D (1/2) | N. Riverside Dr. (7) | Summerfields Blvd. to Old Denton Rd. | 0.29 | 100% |
| | A-3, D-29 | P6D | N. Beach St. (3) | SH 170 to Timberland | 1.04 | 50% |
| | D-30 | P6D | N. Beach St. (4) | Future Timberland to Keller Hicks | 1.03 | 100% |
| | D-31 | P6D | N. Beach St. (5) | Keller Hicks to Golden Triangle | 0.75 | 100% |
| | D-32 | P6D (2/3) | N. Beach St. (6) | Golden Triangle Blvd to 185' N of Ray White Rd. | 0.47 | 100% |
| | D-33 | P6D (1/3) | N. Beach St. (7) | 185' N of Ray White Rd. Vista Meadows Dr. | 0.27 | 100% |
| | D-34 | P6D | N. Beach St. (8) | Vista Meadows Dr. to Alta Vista Rd. | 0.18 | 100% |
| | D-35 | P6D | N. Beach St. (9) | Alta Vista to Heritage Trace Pkwy. | 0.22 | 100% |
| | D-36 | P6D | N. Beach St. (10) | Heritage Trace Pkwy. to 1185' N of N. Tarrant Pkwy. | 1.23 | 100% |
| | D-37 | MA4D | Park Vista Blvd. (2) | N. City Limits to Golden Triangle Blvd. | 0.18 | 100% |
| | D-38 | MA4D | Park Vista Blvd. (3) | Golden Triangle Blvd. to 780' S. of Wyndrook St. | 0.72 | 100% |
| | D-39 | MA4D | Park Vista Blvd. (4) | Wall Price to Heritage Trace / Kroger | 0.35 | 100% |
| | D-40 | MA4D (1/2) | Park Vista Blvd. (5) | Emmeryville Ln. to N. Tarrant Pkwy. | 0.87 | 100% |





Table 2.E. 10-Year Capital Improvements Plan for Transportation Impact Fees – Service Area E

| Service Area | Proj. # | Class | Roadway | Limits | Length (mi) | % In Service Area |
|-----------------|-----------|------------|---------------------------|---|-------------|-------------------------|
| | E-1 | MA4D | Boat Club Rd. (1) | Bonds Ranch Rd. to Park Dr. | 2.67 | 100% |
| | E-2 | M4U | Old Decatur Rd. (1) | 95' S. of Park Dr. to 130' S. of Millstone Trl. | 0.15 | 100% |
| | E-3 | M4U | Willow Springs Rd. (3) | 1,715' S of Bonds Ranch to Wagley Robertson Rd. | 1.43 | 100% |
| | E-4 | MA4D | Heritage Trace (9) | Existing Boat Club Rd. to BUS 287 | 1.47 | 100% |
| | E-5 | P6D | Heritage Trace Pkwy. (10) | BUS 287 to 300' W. of Wagley Robertson | 1.25 | 100% |
| | C-4, E-6 | MA4D | Wagley Robertson Rd. (6) | Hillwood Blvd. to 1,800' S. of Bent Oak Dr. | 0.63 | 50% |
| E | C-6, E-7 | MA4D | Wagley Robertson Rd. (8) | 145' N of Mystic River Trial to N. City Limits of Saginaw | 0.15 | 50% |
| 15 | E-8 | M4U | Park Dr. (1) | Boat Club Rd. to Park Dr. (Right-Angle Turn) | 1.01 | 100% |
| | E-9 | M4U | Park Dr. (2) | Park Dr. to 515' E. of Park Dr. | 0.10 | 100% |
| | E-10 | MA4D (1/2) | Bailey Boswell Rd. (2) | Boat Club Rd to 700' W of Bowman Roberts Rd | 0.38 | 100% |
| | E-11 | MA4D | Bailey Boswell Rd. (3) | 85' W of Bowman Roberts Rd to 85' W of Old Decatur | 1.52 | 100% |
| | E-12, G-1 | M4U | WJ Boaz Rd. | Boat Club to 130' W of Old Decatur | 2.03 | 50% |
| | E-13 | M4U | Robertson Rd. | 665' W of Future Lake Country to Boat Club Rd. | 0.87 | 100% |
| | E-14 | M4U | Lake Country Dr (1) | 155' S. of Waterfront to Robertson Rd. | 0.84 | 100% |

Table 2.F. 10-Year Capital Improvements Plan for Transportation Impact Fees – Service Area F

| Service Area | Proj.# | Class | Roadway | Limits | Length (mi) | % In Service Area |
|-----------------|-----------|------------|---------------------------|---|-------------|-------------------------|
| | C-23, F-1 | P6D | Basswood Blvd. (1) | FM 156 to 125' W. of Almondale Rd. | 1.07 | 50% |
| | C-24, F-2 | P6D (2/3) | Basswood Blvd. (2) | 125' W. of Almodale Rd. to 590' W of IH-35 SBFR | 0.25 | 50% |
| | C-25, F-3 | P6D (1/3) | Basswood Blvd. (3) | 590' W of IH-35 SBFR to 375' W. of IH-35 SBFR | 0.04 | 50% |
| | D-1, F-4 | P6D (1/3) | Basswood Blvd. (4) | 670' E. of IH-35W To N. Riverside Dr. | 0.62 | 50% |
| | D-2, F-5 | P6D (1/3) | Basswood Blvd. (5) | N. Riverside Dr. To N. Beach St. | 0.74 | 50% |
| | D-3, F-6 | P6D (1/3) | Basswood Blvd. (6) | N. Beach St. To Park Vista Blvd. | 1.30 | 50% |
| | D-4, F-7 | P6D (1/3) | Basswood Blvd. (7) | Park Vista Blvd. to City Limits | 0.39 | 50% |
| | F-8 | MA4D | Robert W. Downing Dr. (1) | Basswood to 290' N. of Lou Menk | 0.36 | 100% |
| | F-9 | MA4D | Western Center Blvd. (1) | City Limits to 160' W. of Overland St. | 0.07 | 100% |
| | F-10 | MA4D | Cantrell Sansom Rd. (1) | City Limits to 145' W. of Maiden Ln. | 0.21 | 100% |
| | F-11 | MA4D (1/2) | Cantrell Sansom Rd. (2) | 145' W. of Maiden Ln. to Mark IV Pkwy. | 0.49 | 100% |
| | F-12 | MA4D | Cantrell Sansom Rd. (3) | Mark IV Pkwy. to Old Denton Rd. | 0.30 | 100% |
| | F-13 | MA4D | Cantrell Sansom Rd. (4) | Old Denton Rd. to IH-35W SBFR | 0.18 | 100% |
| | F-14 | M4U (1/2) | Old Denton Rd. (1) | 1,095' N. of Caldon Way to Cantrell Sansom Rd. | 0.58 | 100% |
| F | F-15 | MA4D (1/2) | Mark IV Pkwy. (1) | Cantrell Sansom to IH-820 WBFR | 0.52 | 100% |
| | F-16 | M4U | Northeast Pkwy | Exsting Dead End to Mark IV Pkwy. | 0.20 | 100% |
| | F-17 | M4U | Lone Star Blvd. | Existing Dead End to 780' N. of Meacham Blvd. | 0.68 | 100% |
| | F-18 | M4U | Great Southwest Pwky. | Lone Star Blvd. to Existing Dead End | 0.10 | 100% |
| | F-19 | P6D (1/3)O | Meacham Blvd. (1) | BUS 287 to Golden Spike Dr. | 0.21 | 100% |
| | F-20 | P6D (1/3)O | Meacham Blvd. (2) | Gold Spike Dr. to 1,030' W FM 156 | 0.40 | 100% |
| | F-21 | P6D (1/2) | Meacham Blvd. (3) | 320' E. of FM 156 to Bridge over RR tracks | 0.45 | 100% |
| | F-22 | P6D (1/3)O | Meacham Blvd. (4) | Bridge over RR tracks | 0.20 | 100% |
| | F-23 | P6D (1/3)O | Meacham Blvd. (5) | RR Bridge to 80' E. of Future Lone Star | 0.05 | 100% |
| | F-24 | P6D (1/2) | Meacham Blvd. (6) | Deen Rd. to 630' W. of Gemini Pl. | 0.50 | 100% |
| | F-25 | P6D (1/3) | Meacham Blvd. (7) | Little Fossil Creek Bridge to N. Beach St. | 0.89 | 100% |
| | F-26 | M4U | N. Sylvania Ave. | Melody Hills to Quorum Dr. | 0.32 | 100% |
| | F-27 | P6D (1/3) | N. Beach St. (9) | Fossil Creek Blvd. to Sandshell Dr. | 0.56 | 100% |
| | F-28 | MA4D | N. Riverside Bridge | Stone Creek Pkwy to Riverside | 0.06 | 100% |
| | F-29 | MA4D | Long Bridge | 375' W. of Railroad to Half Moon | 0.31 | 100% |





Table 2.G. 10-Year Capital Improvements Plan for Transportation Impact Fees – Service Area G

| Service Area | Proj. # | Class | Roadway | Limits | Length (mi) | % In Service Area |
|-----------------|-----------|-----------|---------------------------|--|-------------|-------------------------|
| | E-12, G-1 | M4U | WJ Boaz Rd. | Boat Club to 130' W of Old Decatur | 2.03 | 50% |
| | G-2 | M4U | Cromwell Marine Creek (1) | Ten Mile Bridge to Northern City Limits | 0.73 | 100% |
| | G-3 | MA4D | Cromwell Marine Creek (2) | Boat Club Rd. to Stonewater Bend Trl | 1.63 | 100% |
| | G-4 | MA4D | Cromwell Marine Creek (3) | Stone Water Bend to Marine Creek Pkwy | 0.58 | 100% |
| | G-5 | MA4D | Longhorn Rd. (1) | Marine Creek Pkwy. to Old Decatur Rd. | 0.24 | 100% |
| | G-6 | M4U | Ten Mile Bridge (1) | Cromwell Marine Creek to Boat Club Rd. | 1.08 | 100% |
| | G-7 | M4U | Ten Mile Bridge (2) | Boat Club Rd. to Bowman Roberts Rd. | 0.55 | 100% |
| | G-8 | M4U | Ten Mile Bridge (3) | Westgate Dr. to Huffines Blvd. | 0.41 | 100% |
| | G-9 | MA4D | Marine Creek Pkwy (1) | 440' S of McLeroy Blvd. to Ex.Cromwell Marine Crk. | 0.40 | 100% |
| G | G-10 | MA4D | Marine Creek Pkwy (2) | Ex. Cromwell Marine Creek to 220' N. of NW College | 1.13 | 100% |
| | G-11 | MA4D | Marine Creek Pkwy (3) | Angle Ave. to 120' N. of Azle Ave. | 0.95 | 100% |
| | G-12 | M4U | Old Decatur Rd. (2) | Future Marine Creek Pkwy. to Ex. Old Decatur Rd. | 0.08 | 100% |
| | G-13 | M4U (1/2) | Old Decatur Rd. (3) | River Rock Blvd. to IH-820 WBFR | 0.29 | 100% |
| | G-14 | M4U | Old Decatur Rd. (4) | IH-820 EBFR to Angle Ave. | 0.81 | 100% |
| | G-15 | M4U | Huffines Blvd. (1) | Cromwell Marine Creek to Texas Shiner Dr. | 0.62 | 100% |
| | G-16 | M4U (1/2) | Huffines Blvd. (2) | Texas Shiner Dr. to Sea Bass Dr. | 0.34 | 100% |
| | G-17 | M4U | Huffines Branch | Huffines Blvd. to Cromwell Marine Creek | 0.65 | 100% |
| | G-18 | M4U | Hodgkins Rd. | Ten Mile Bridge to 110' S. of Hatch Rd. | 1.03 | 100% |
| | G-19 | M4U | Delfin St | 135' S. of Mantis St. to Future Marine Creek Pkwy. | 0.70 | 100% |

Table 2.L. 10-Year Capital Improvements Plan for Transportation Impact Fees – Service Area L

| Service Area | Proj. # | Class | Roadway | Limits | Length (mi) | % In Service Area |
|-----------------|---------|------------|---------------------|---|-------------|-------------------------|
| | L-1 | MA4D | E. 1st St. (1) | N. Beach St. to 2,635 E. of Streams and Valley Circle | 1.18 | 100% |
| L | L-2 | MA4D (1/2) | E. 1st St. (2) | 2,635 E. of S and V Circle to 860' W. of Oakland | 0.35 | 100% |
| | L-3 | MA4D (1/2) | Randol Mill Rd. (1) | 600' E of Lake Havasu To 515' W. of Woodhaven | 0.77 | 100% |





Table 2.M. 10-Year Capital Improvements Plan for Transportation Impact Fees – Service Area M

| Service Area | Proj.# | Class | Roadway | Limits | Length (mi) | % In Service Area |
|-----------------|----------|------------|------------------------|--|-------------|-------------------------|
| | M-1 | MA4D | Precinct Line Rd (1) | Trinity Railway Express to Trinity Blvd. | 0.34 | 100% |
| | M-2 | MA4D | Precinct Line Rd. (2) | Trinity Blvd. to Ex. Randol Mill Rd. | 1.75 | 100% |
| | M-3 | M4U | Norwood Dr. (1) | 65' S. of SH 10 to 500' S. of RR | 0.31 | 100% |
| | M-4 | M4U (1/2) | Norwood Dr. (2) | 500' S. of RR to Trinity Blvd. | 0.14 | 100% |
| | M-5, N-5 | MA4D | Raider Dr. | 260' S. of Tube to Trinity Blvd. | 0.21 | 50% |
| | M-6 | M4U | Sandy Ln. (1) | Randol Mill Rd. to 275' N. of Winters | 0.08 | 100% |
| | M-7 | M4U | Sandy Ln. (2) | 275' N. of Winters to John T. White Rd. | 0.97 | 100% |
| | M-8 | MA4D | Sandy Ln. (3) | John T. White Rd. to IH-30 | 0.45 | 100% |
| | M-9 | MA4D | Cooks Ln. (1) | Existing Randol Mill to Exisitng Cooks Ln. | 0.65 | 100% |
| | M-10 | MA4D | Cooks Ln. (2) | Existing Cooks Ln. to 135' N. of Hidden Gate Ct. | 0.33 | 100% |
| | M-11 | MA4D (1/2) | Cooks Ln. (3) | 135' N of Hidden Gate to 340' N. of John T. White | 0.26 | 100% |
| | M-12 | MA4D | Randol Mill Rd. (2) | Stoneview Circle to 135' W. of Flyaway Ln. | 0.79 | 100% |
| | M-13 | MA4D (1/2) | Randol Mill Rd. (3) | 135' W. of Flyaway Ln. to 45' W. of Goldeneye Ln. | 0.11 | 100% |
| М | M-14 | MA4D | Randol Mill Rd. (4) | 45' W. of Goldeneye Ln. to Cooks Ln. | 0.61 | 100% |
| IVI | M-15 | MA4D | Randol Mill Rd. (5) | Cooks Ln. to Existing Randol Mill Rd. | 0.79 | 100% |
| | M-16 | MA4D | Randol Mill Rd. (6) | Existing Randol Mill to Racquet Club Dr. | 0.70 | 100% |
| | M-17 | M4U | Randol Mill Rd. (7) | John T. White to 165' S. of Winding Ln. | 0.19 | 100% |
| | M-18 | M4U (1/2) | Randol Mill Bridge | Bridge over IH-30 | 0.07 | 100% |
| | M-19 | M4U | Anderson Blvd. (1) | 1310' W. of Williams to 1050' W. of Williams | 0.05 | 100% |
| | M-20 | M4U (1/2) | Anderson Blvd. (2) | 1050' W. of Williams to Sandy Ln. | 0.48 | 100% |
| | M-21 | M4U | House Anderson Rd. (1) | Northern City Limits to Southern City Limits | 0.69 | 100% |
| | M-22 | P6D | Trinity Blvd. (1) | IH-820 to Precinct Line Rd. | 1.77 | 100% |
| | M-23 | P6D | Trinity Blvd. (2) | Precinct Line Rd. to Norwood Dr. | 0.86 | 100% |
| | M-24 | P6D | Trinity Blvd. (3) | Norwood Dr. to Bell Helicopter W. Entry | 0.25 | 100% |
| | M-25 | P6D (1/3)O | Trinity Blvd. (4) | Bell Helicopter W. Entry to 1,435' W. of Bell Spur | 0.22 | 100% |
| | M-26 | P6D | Trinity Blvd. (5) | 1,435' W. of Bell Spur to Bell Spur | 0.27 | 100% |
| | M-27 | P6D | Trinity Blvd. (6) | Bell Spur to 1,110' W. of Greenbelt | 0.56 | 100% |
| | M-28 | P6D | Trinity Blvd. (7) | 1110' W. of Greenbelt to Raider | 0.70 | 100% |

Table 2.N. 10-Year Capital Improvements Plan for Transportation Impact Fees – Service Area N

| Service Area | Proj. # | Class | Roadway | Limits | Length (mi) | % In Service Area |
|-----------------|----------|-----------|---------------------------|---|-------------|-------------------------|
| | N-1 | M4U | S. Pipeline Rd. (1) | Raider Dr. to House Anderson Rd | 0.69 | 100% |
| | N-2 | M4U | S. Pipeline Rd. (2) | House Anderson Rd. to E. City Limits | 0.33 | 100% |
| | N-3 | M4U | S. Pipeline Rd. (3) | W. City Limits to FM 157 | 0.51 | 100% |
| | N-4 | M4U | S. Pipeline Rd (4) | FM 157 to American Blvd. | 1.69 | 100% |
| | M-5, N-5 | MA4D | Raider Dr. | 260' S. of Tube to Trinity Blvd. | 0.21 | 50% |
| | N-6 | MA4D | House Anderson Rd. (2) | S. Pipeline to Trinity Blvd. | 0.27 | 100% |
| N | N-7 | M4U | House Anderson Rd. (3) | Trinity Blvd. to 120' S. of Trinity Railway Express | 0.53 | 100% |
| 1 | N-8 | P6D | Euless South Main St (1) | S. Pipeline Rd. to Trinity Blvd. | 0.19 | 100% |
| | N-9 | P6D | Euless South Main St. (2) | Trinity Blvd. to 70' S. of Trinity Railway Express | 0.50 | 100% |
| | N-10 | MA4D | FAA Blvd | SH 360 NBFR to Amon Carter | 0.66 | 100% |
| | N-11 | MA4D | Centreport Dr. | Future FAA to Existing Centreport Dead End | 0.60 | 100% |
| | N-12 | MA4D | Sovereign Rd. | Future Centreport to Existing Sovereign Dead End | 0.24 | 100% |
| | N-13 | P6D | Trinity Blvd. (8) | Raider to FM 157 | 2.39 | 100% |
| | N-14 | P6D (2/3) | Trinity Blvd. (9) | 300' N Trinity Railway Express to E. City Limits | 0.59 | 100% |





Table 2.O. 10-Year Capital Improvements Plan for Transportation Impact Fees – Service Area O

| Service Area | Proj.# | Classificatio n | Roadway | Limits | Length (mi) | % In Service Area |
|-----------------|--------|--------------------|-----------------|--|-------------|-------------------------|
| | O-1 | M4U | Handley Dr. (1) | Meadowbrook to 160' N. of Church | 0.80 | 100% |
| | O-2 | MA4D | Sandy Ln. (4) | IH-30 to Brentwood Stair | 0.36 | 100% |
| | O-3 | MA4D | Sandy Ln. (5) | Brentwood Stair to Meadowbrook | 0.61 | 50% |
| 0 | O-4 | MA4D | Sandy Ln. (6) | Meadowbrook to Lancaster | 1.18 | 100% |
| | O-5 | MA4D | Cooks Ln. (4) | Brentwood Stair to 160' S. of Whitney | 0.78 | 100% |
| | O-6 | MA4D (1/2) | Cooks Ln. (5) | 160' S. of Whitney to 115' N. of N. Maegen Cir | 0.16 | 100% |
| | O-7 | MA4D | Cooks Ln. (6) | 115' N. of N. Maegen Cir. to S. Maegen Cir. | 0.07 | 100% |
| | O-8 | MA4D | Cooks Ln. (7) | S. Maegen Cir. To Dottie Lynn | 0.27 | 100% |

Table 2.S. 10-Year Capital Improvements Plan for Transportation Impact Fees – Service Area S

| Service Area | Proj. # | Class | Roadway | Limits | Length (mi) | % In Service Area |
|-----------------|---------|------------|-----------------------------|--|-------------|-------------------------|
| | S-1 | MA4D | Silver Creek Rd. (1) | W. City Limits to Existing Silver Creek | 1.22 | 100% |
| | S-2 | MA4D | Silver Creek Rd. (2) | 1,150' N. of Verna to 260' W. of Loop 820 SBFR | 1.10 | 100% |
| | S-3 | M4U | Las Vegas Trail (1) | Future Silver Creek to Existing Las Vegas | 1.50 | 100% |
| | S-4 | M4U | Las Vegas Trail (2) | Existing Las Vegas to Loop 820 W SBFR | 0.24 | 100% |
| | S-5 | MA4D | Academy Blvd. (1) | Silver Creek Rd. to 130' N. of Sparrow Hawk | 0.54 | 100% |
| | S-6 | MA4D | Academy Blvd. (2) (Longvue) | 75' S. of Caravelle to Amber Ridge | 0.38 | 100% |
| | S-7 | P6D | White Settlement Rd. (1) | West City Limits to Silver Ridge | 1.14 | 100% |
| | S-8 | P6D | White Settlement Rd. (2) | Silver Ridge to 230' W. of Chapel Creek | 0.87 | 100% |
| | S-9 | P6D (1/3) | Clifford St. (1) | 230' W. of Chapel Creek to Academy | 0.55 | 100% |
| | S-10 | P6D (1/3) | Clifford St. (2) | Academy to 585' E. of White Settlement | 0.62 | 100% |
| | S-11 | M4U | Silver Ridge Blvd. (1) | Existing Silver Ridge to Existing American Flyer | 0.51 | 100% |
| S | S-12 | MA4D | Westpoint Blvd. (1) | W. City Limits to Basset Lock | 0.67 | 100% |
| | S-13 | MA4D (1/2) | Westpoint Blvd. (2) | Basset Lock to American Flyer | 0.30 | 100% |
| | S-14 | MA4D | Westpoint Blvd. (3) | Academy to IH-820 SBFR | 0.69 | 100% |
| | S-15 | M4U | N-S Minor Arterial (1) | Future Wespoint to Old Weatherford | 0.92 | 100% |
| | S-16 | M4U | Old Weatherford (1) | W. City Limits to Chapel Creek | 1.17 | 100% |
| | S-17 | M4U (1/2) | Amber Ridge (1) | Chapel Creek to Wind Star Way | 0.26 | 100% |
| | S-18 | M4U | Amber Ridge (2) | Existing Amber Ridge Dead End to Alemeda | 0.96 | 100% |
| | S-19 | M4U | Alemeda Rd. (1) | Academy to Sterlinghill | 0.17 | 100% |
| | S-20 | M4U | Chapin Rd (1) | W. City Limits to Wakecrest | 0.80 | 100% |
| | S-21 | M4U | Chapin Rd. (2) | Wakecrest to Chapel Creek Blvd. | 0.41 | 100% |
| | S-22 | MA4D | Chapel Creek Blvd. (1) | Chapin Rd. to IH-30 WBFR | 0.13 | 100% |
| | S-23 | MA4D | Longvue Rd (1) | Future Amber Ridge to IH-30 WBFR | 0.48 | 100% |

Table 2.T. 10-Year Capital Improvements Plan for Transportation Impact Fees – Service Area T

| Service Area | Proj. # | Class | Roadway | Limits | Length (mi) | % In Service Area |
|-----------------|---------|-------|------------------------|--|-------------|-------------------------|
| | T-1 | MA4D | Chapel Creek Blvd. (2) | Camp Bowie West to Longvue Rd. | 0.61 | 100% |
| | T-2 | MA4D | Longvue (2) | I-30 EBFR to Camp Bowie West | 0.48 | 100% |
| | T-3 | MA4D | Longvue (3) | Camp Bowie West to 330' N. of Chapin Rd. | 0.42 | 100% |
| T | T-4 | M4U | Alemeda Rd. (2) | Camp Bowie West to Chapin Rd. | 0.44 | 100% |
| | T-5 | M4U | Chapin Rd (3) | Longvue Rd. to Chapin Curve | 0.48 | 100% |
| | T-6 | M4U | Chapin Rd. (4) | Chapin Curve to Alemeda | 0.21 | 100% |
| | T-7 | M4U | Chapin Rd. (5) | Alemeda to IH-820 NBFR | 0.30 | 100% |





Table 2.U. 10-Year Capital Improvements Plan for Transportation Impact Fees – Service Area U

| Service Area | Proj. # | Class | Roadway | Limits | Length (mi) | % In Service Area |
|-----------------|---------|-------|--------------------------------|--|-------------|-------------------------|
| | U-1 | M4U | Old Weatherford (2) | W. City Limits to ~2,085' W. of Future Cattle Baron | 0.32 | 100% |
| | U-2 | M4U | Old Weatherford (3) | ~2,085' W. of Future Cattle Baron to Future Cattle Baron | 0.39 | 100% |
| | U-3 | P6D | Cattle Baron Rd. (1) | North City Limits to Future Weatherford Rd. | 0.52 | 100% |
| | U-4 | P6D | Cattle Baron Rd. (2) | Future Old Weatherford to IH-30 EBFR | 1.57 | 100% |
| | U-5 | P6D | Cattle Baron Rd. (3) | IH-30 EBFR to Future Aledo Iona | 2.85 | 100% |
| | U-6 | M4U | Future E-W Minor Arterial (1) | Future Cattle Baron to Future Live Oak | 1.18 | 100% |
| | U-7 | M4U | Live Oak Place (1) | W. City Limits to Future Cattle Baron | 0.22 | 100% |
| | U-8 | M4U | Live Oak Place (2) | Future Cattle Baron to IH-20 | 2.18 | 100% |
| U | U-9 | M4U | Live Oak Place (3) | IH-20 to ETJ (3,365' S. of IH-30 EBFR) | 1.04 | 100% |
| | U-10 | M4U | Live Oak Place (4) | IH-30 WBFR to N. City Limits (Mary's Creek) | 1.07 | 100% |
| | U-11 | MA4D | Future Major Arterial (1) | W. City Limits to Future Cattle Baron | 0.74 | 100% |
| | U-12 | MA4D | Future Major Arterial (2) | Future Cattle Baron to Future Live Oak | 1.59 | 100% |
| | U-13 | MA4D | Future Major Arterial (3) | Future Live Oak to RR tracks | 0.68 | 100% |
| | U-14 | M4U | Future IH-30 Parallel Arterial | W. City Limits to IH-30/20 Intersection | 1.31 | 100% |
| | U-15 | M4U | Future N-S Minor Arterial (1) | S. City Limits to IH-30 WBFR | 0.66 | 100% |
| | U-16 | M4U | Future N-S Minor Arterial (2) | S. City Limits to Old Weatherford | 0.40 | 100% |
| | U-17 | MA4D | Westpoint Blvd. (4) | W. City Limits to E. City Limits | 0.53 | 100% |

Table 2.W. 10-Year Capital Improvements Plan for Transportation Impact Fees – Service Area W

| Service Area | Proj.# | Classificatio n | Roadway | Limits | Length (mi) | % In Service Area |
|-----------------|----------|--------------------|----------------------|---------------------------------|-------------|-------------------------|
| | W-1, R-x | P6D (1/3) | Bryant Irvin Rd. (1) | UP RR to SA R Boundary | 0.96 | 50% |
| | W-2 | P6D (1/3) | Bryant Irvin Rd. (2) | SA R Boundary to Bellaire Dr. | 0.13 | 100% |
| w | W-3 | M4U | Harris Pkwy. | Dutch Branch to Dirks | 0.48 | 100% |
| 1 ** | W-4 | M4U | Dutch Branch Rd. | Oakmont Trail to 45' W. of RR | 0.20 | 100% |
| | W-5 | M4U | Lakeside Dr. | Trinity River to E. City Limits | 1.21 | 100% |
| | W-6, Y-1 | P6D | Dirks Rd. | Railroad to Granbury Rd. | 0.24 | 50% |

Table 2.X. 10-Year Capital Improvements Plan for Transportation Impact Fees – Service Area X

| Service Area | Proj. # | Class | Roadway | Limits | Length (mi) | % In Service Area |
|-----------------|----------|------------|---------------------|--|-------------|-------------------------|
| | X-1, Q-x | P6D (1/3) | Seminary Dr. (1) | Carter Park to Campus Dr. | 0.62 | 50% |
| | X-2, Q-x | P6D (1/3) | Seminary Dr. (2) | Campus Dr. to Old Mansfield Rd. | 0.48 | 50% |
| | X-3 | M4U | Oak Grove Rd. (1) | Oak Grove Ln. to Oak Grove Rd / Campus | 0.32 | 100% |
| | X-4 | MA4D | Altamesa Blvd. (1) | Oak Grove Rd. to Wichita St. | 1.30 | 100% |
| | X-5 | MA4D | Altamesa Blvd. (2) | Lana to Forest Hill Dr. | 0.58 | 100% |
| | X-6 | M4U | Joel East Rd. | Oak Grove Rd. to Wichita St. | 1.10 | 100% |
| | X-7, Z-1 | P6D | Everman Pkwy. (1) | Butterwick to 140' W. of Ballwood St. | 0.66 | 50% |
| | X-8, Z-2 | P6D (2/3) | Everman Pkwy. (2) | 140' W. of Ballwood St. to 240' E. of Sheridan Rd. | 0.18 | 50% |
| | X-9, Z-3 | P6D (1/3) | Everman Pkwy. (3) | 240' E. of Sheridan to IH-35W SBFR | 0.19 | 50% |
| X | X-10 | MA4D | Hemphill St. (1) | 645' S. of Alta Mesa to Sycamore School Rd. | 0.85 | 100% |
| A | X-11 | MA4D (1/2) | Hemphill St. (2) | 360' S. of Sycamore School to Rosedale Springs | 0.41 | 100% |
| | X-12 | MA4D | Hemphill St. (3) | Rosedale Springs to Everman Pkwy. | 0.15 | 100% |
| | X-13 | P6D (2/3) | Oak Grove Rd. (1) | Alta Mesa to RR tracks | 0.19 | 100% |
| | X-14 | P6D | Oak Grove Rd. (2) | RR tracks to Joel East | 0.33 | 100% |
| | X-15 | P6D | Oak Grove Rd. (3) | Joel East to Everman Pkwy. | 1.25 | 100% |
| | X-16 | MA4D | Wichita St. (1) | 350' N. of Alta Mesa to 280' N. of RR tracks | 0.38 | 100% |
| | X-17 | MA4D | Forest Hill Dr. (1) | Lon Stevenson to S. City Limits | 0.72 | 100% |
| | X-18 | M4U | Anglin Dr. | Lon Stevenson to Enon Ave. | 1.00 | 100% |
| | X-19 | M4U | Dick Price Rd. | 40' S. of RR tracks to S. City Limits | 0.48 | 100% |
| | X-20 | M4U | Enon Ave. | W. City Limits to Anglin | 0.50 | 100% |





Table 2.Y. 10-Year Capital Improvements Plan for Transportation Impact Fees – Service Area Y

| Service Area | Proj. # | Classificatio n | Roadway | Limits | Length (mi) | % In Service Area |
|-----------------|----------|--------------------|---------------------------|---|-------------|-------------------------|
| Y | W-6, Y-1 | P6D | Dirks Rd. | Railroad to Granbury Rd. | 0.24 | 50% |
| | Y-2 | MA4D | Columbus Trl. (1) | Future N-S Arterial to Old Granbury | 0.15 | 100% |
| | Y-3 | MA4D | Columbus Trl. (2) | W. City Limits to Future SH 121 | 0.30 | 100% |
| | Y-4 | P6D (1/3) | Sycamore School Rd. (1) | Future 121 to Summer Creek | 0.36 | 100% |
| | Y-5 | P6D | Sycamore School Rd. (2) | Summer Creek to 145' W. of Creek Meadow | 0.10 | 100% |
| | Y-6 | P6D (1/3) | Sycamore School Rd. (3) | 145' W. of Creek Meadow to Cleburne Rd. W. | 1.65 | 100% |
| | Y-7 | MA4D (1/2) | Risinger Rd. (1) | 635' E. of McCart to Existing Risinger Dead End | 0.69 | 100% |
| | Y-8 | MA4D | Risinger Rd. (2) | Existing Risinger Dead End to FM 731 | 0.45 | 100% |
| | Y-9 | MA4D | McPherson Blvd (1) | W. City Limits to Future SH 121 | 0.93 | 100% |
| | Y-10 | P6D | McPherson Blvd (2) | Future SH 121 to 250' W. of Willow Branch | 0.70 | 100% |
| | Y-11 | P6D (1/3) | McPherson Blvd (3) | 250' W. of Willow Branch to Cleburne Rd. | 0.74 | 100% |
| | Y-12 | P6D | McPherson Blvd. (4) | Cleburne Rd. to East City Limits | 0.76 | 100% |
| | Y-13 | M4U | Stewart Feltz Rd. (1) | Old Granbury Rd. to Stewart Feltz SB Bend | 0.75 | 100% |
| | Y-14 | M4U | Stewart Feltz Rd. (2) | Stewart Feltz SB Bend to Future Summer Creek | 0.55 | 100% |
| | Y-15 | MA4D | Cleburne Crowley Rd. (1) | Old Grabury Rd to Stewart Feltz | 0.88 | 100% |
| | Y-16 | MA4D | Cleburne Crowley Rd. (2) | Stewart Feltz to E. City Limits | 0.52 | 100% |
| | Y-17 | MA4D | Bryant Irvin Rd (3) | 270' N. of Columbus Trl. To McPherson Blvd. | 2.27 | 100% |
| 1 | Y-18 | MA4D | James W. Schell Pkwy. (1) | Scyamore School Rd. to McPherson Blvd. | 1.59 | 100% |
| | Y-19 | M4U | James W. Schell Pkwy. (1) | McPherson Blvd. to Stewart Feltz | 0.57 | 100% |
| | Y-20 | M4U | Old Granbury Rd. | Stewart Feltz to S/W City Limits | 0.89 | 100% |
| | Y-21 | MA4D | Granbury Rd. (1) | 350' S. of Altamesa to 630' N. of Appalachian Way | 0.25 | 100% |
| | Y-22 | MA4D (1/2) | Granbury Rd. (2) | 215' S. of Summer Meadows to Columbus Trail | 0.49 | 100% |
| | Y-23 | MA4D (1/2) | Summer Creek Dr. (1) | Summer Park to Risinger Rd. | 0.41 | 100% |
| | Y-24 | MA4D | Summer Creek Dr. (2) | Risinger Rd. to Cleburne Crowley Rd. | 2.01 | 100% |
| | Y-25 | MA4D | Summer Creek Dr. (3) | Cleburne Crowley Rd. to S. City Limits | 0.93 | 100% |
| | Y-26 | P6D (1/3) | Hulen St. (1) | Cinnamon Hill to Sycamore School | 0.96 | 100% |
| | Y-27 | P6D (1/3) | Hulen St. (2) | Sycamore School to Risinger Rd. | 1.21 | 100% |
| | Y-28 | P6D (1/3) | Hulen St. (3) | Risinger Rd. to McPherson Blvd. | 1.02 | 100% |
| | Y-29 | P6D (2/3) | Hulen St. (4) | McPherson Blvd. to Carriage Crossing | 0.18 | 100% |
| | Y-30 | P6D | Hulen St. (5) | Carriage Crossing to S. City Limits | 0.14 | 100% |
| | Y-31 | P6D | Hulen St. (6) | 325' N. of Rancho Verde Pkwy. To S. City Limits | 0.50 | 100% |
| | Y-32 | P6D (2/3) | McCart Ave. (1) | 580' S. of Risinger Rd. to 135' S. of Cayman | 0.31 | 100% |
| | Y-33 | P6D | McCart Ave. (2) | 135' S. of Cayman to Future McPherson Blvd. | 0.56 | 100% |
| | Y-34 | M4U | McCart Ave. (3) | Future McPherson Blvd. to S. City Limits | 1.16 | 100% |





Table 2.Z. 10-Year Capital Improvements Plan for Transportation Impact Fees – Service Area Z

| Service Area | Proj.# | Class | Roadway | Limits | Length (mi) | % In Service Area |
|-----------------|----------|------------|-----------------------------|--|-------------|-------------------------|
| z | X-7, Z-1 | P6D | Everman Pkwy. (1) | Butterwick to 140' W. of Ballwood St. | 0.66 | 50% |
| | X-8, Z-2 | P6D (2/3) | Everman Pkwy. (2) | 140' W. of Ballwood St. to 240' E. of Sheridan Rd. | 0.18 | 50% |
| | X-9, Z-3 | P6D (1/3) | Everman Pkwy. (3) | 240' E. of Sheridan to IH-35W SBFR | 0.19 | 50% |
| | Z-4 | MA4D | Shelby Rd. | Race St. to Forest Hill | 1.00 | 50% |
| | Z-5 | MA4D | Risinger Rd. (3) | FM 731 to IH-35W SBFR | 1.62 | 100% |
| | Z-6 | MA4D | Risinger Rd. (4) | IH-35W SBFR to Old Burleson Rd. | 0.29 | 100% |
| | Z-7 | MA4D | Risinger Rd. (5) | Old Burleson Rd. to Oak Grove Rd. | 0.77 | 100% |
| | Z-8 | MA4D | Oak Grove Shelby (1) | Oak Grove Rd. to Race St. | 1.01 | 100% |
| | Z-9 | MA4D | Oak Grove Shelby (2) | Race St. to Forest Hill Dr. | 1.00 | 100% |
| | Z-10 | P6D | McPherson Blvd. (4) | FM 731 to UP RR | 1.30 | 100% |
| | Z-11 | P6D (1/2) | McPherson Blvd. (5) | 375' W. of IH-35W SBFR to IH-35W NBFR | 0.20 | 100% |
| | Z-12 | P6D | McPherson Blvd. (6) | IH-35W NBFR to Oak Grove | 0.68 | 100% |
| | Z-13 | P6D | McPherson Blvd. (7) | Oak Grove to Forest Hill-Everman | 1.44 | 100% |
| | Z-14 | MA4D | Alsbury Blvd. | IH-35W NBFR to Stone | 0.21 | 100% |
| | Z-15 | MA4D | Hemphill St. (4) | Everman Pkwy. To 580' N. of Brasenose | 2.83 | 100% |
| | Z-16 | MA4D (1/2) | Hemphill St. (5) | 580' N. of Brasenose to Oriel Circle | 0.17 | 100% |
| | Z-17 | M4U (1/2) | Hemphill (6) | FM 1187 to McAlister | 0.28 | 100% |
| | Z-18 | M4U | Hemphill (7) | McAlister Rd. to S. City Limits | 0.21 | 100% |
| | Z-19 | P6D | Oak Grove Rd. (4) | Oak Grove-Shelby to Nelson Pl. | 1.89 | 100% |
| | Z-20 | P6D | Oak Grove Rd. (5) [Stone] | Nelson Pl. to FM 1187 | 0.91 | 100% |
| | Z-21 | MA4D | Stone Rd. (1) | FM 1187 to Alsbury Blvd. | 1.07 | 100% |
| | Z-22 | MA4D | Stone Rd. (2) | Alsbury Blvd. to S. City Limits | 0.73 | 100% |
| | Z-23 | M4U | Wildcat Way [Oak Grove S] | Abner Lee to FM 1187 | 2.20 | 100% |
| | Z-24 | MA4D | Oak Grove Rd. (6) [East] | FM 1187 to Nelson Pl. | 0.72 | 100% |
| | Z-25 | MA4D | Oak Grove Rd. (7) [Wichita] | Nicoleway to E. City Limits | 1.93 | 100% |
| | Z-26 | MA4D | Wichita St. (2) | Oak Grove Shelby to Shelby | 0.52 | 100% |
| | Z-27 | MA4D | Rendon / Forest-Hill | 275' S. of Enon to 100' S. of Shelby | 0.47 | 50% |





Insert Exhibit 3.A – CIP for Transportation Impact Fees – Service Area





Insert Exhibit 3.AA – CIP for Transportation Impact Fees – Service Area





Insert Exhibit 3.B - CIP for Transportation Impact Fees - Service Area





Insert Exhibit 3.C - CIP for Transportation Impact Fees - Service Area





Insert Exhibit 3.D – CIP for Transportation Impact Fees – Service Area





Insert Exhibit 3.E - CIP for Transportation Impact Fees - Service Area





Insert Exhibit 3.F - CIP for Transportation Impact Fees - Service Area





Insert Exhibit 3.G – CIP for Transportation Impact Fees – Service Area





Insert Exhibit 3.L - CIP for Transportation Impact Fees - Service Area





Insert Exhibit 3.M - CIP for Transportation Impact Fees - Service Area





Insert Exhibit 3.N – CIP for Transportation Impact Fees – Service Area





Insert Exhibit 3.0 – CIP for Transportation Impact Fees – Service Area





Insert Exhibit 3.S – CIP for Transportation Impact Fees – Service Area





Insert Exhibit 3.T - CIP for Transportation Impact Fees - Service Area





Insert Exhibit 3.U - CIP for Transportation Impact Fees - Service Area





Insert Exhibit 3.W - CIP for Transportation Impact Fees - Service Area





Insert Exhibit 3.X – CIP for Transportation Impact Fees – Service Area





Insert Exhibit 3.Y - CIP for Transportation Impact Fees - Service Area





Insert Exhibit 3.Z - CIP for Transportation Impact Fees - Service Area





IV. METHODOLOGY FOR TRANSPORTATION IMPACT FEES

A. SERVICE AREAS

The twenty-seven (27) service areas used in the 2006 Transportation Impact Fee Study are shown in the previously referenced **Exhibit 1**. These service areas cover the entire corporate boundary of the City of Fort Worth. 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."

B. SERVICE UNITS

The "service unit" is a measure of consumption or use of the capital facilities by new development. In other words, it is the unit of measure used in the Transportation Impact Fee study to quantify the supply and demand for roads in the City. For transportation purposes, the service unit is defined as a vehicle-mile. On the supply side, vehicle-miles make up a lane-mile of an arterial street (the number of vehicle-miles available depend on the classification of a roadway facility). On the demand side, a vehicle-mile 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 caused by new development.

Another aspect to quantifying the number of service units supplied is the capacity that is provided (supplied) by a lane-mile of roadway facility. Capacity is a function of the facility's classification, number of lanes, and level of service. The threshold utilized in the analysis is the actual capacity of the roadway (i.e. the point at which the volume to capacity ratio equals 1.0).

The capacity values used in the Transportation Impact Fee Study are based upon Thoroughfare Capacity Criteria published by the North Central Texas Council of Governments (NCTCOG) and applied to City of Fort Worth thoroughfare standards. **Table 3** shows the service volumes as a function of the facility classification.

Table 3. Level of Use Table

| Facility Classification | Median Configuration | Hourly Vehicle-Mile Capacity per Lane-Mile of Roadway Facility |
|--------------------------|----------------------|--|
| Principal Arterial (P6D) | Divided | 700 |
| Major Arterial (M4D) | Divided | 700 |
| Minor Arterial (M4U) | Undivided | 650 |
| Collector (C2U) | Undivided | 550 |
| Rural Collector | Undivided | 275 |





C. COST PER SERVICE UNIT

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

The second component of the cost per service unit is the number of service units in each service area. This number is the measure of the growth in transportation demand that is projected to occur in the ten-year period. Chapter 395 requires that Impact Fees are assessed only to pay for growth projected to occur within the next ten years, a concept that will be covered in a later section of this report. As noted earlier, the units of demand are vehicle-miles of travel.

D. COST OF THE CIP

All of the project costs for an arterial system are eligible to be included in the Impact Fee Capital Improvements 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 improvements plan who is not an employee of the political subdivision."

The engineer's opinion of the probable costs of the projects in the CIP is based, in part, on the calculation of a unit cost of construction. This means that a cost per linear foot of roadway is calculated based on an average price for the various components of roadway construction. This allows the probable cost to be determined by the type of facility being constructed, the number of lanes, and the length of the project. The cost for location specific items such as bridges, highway ramps, drainage structures, and any other special components are added to each project as appropriate. Cash funds allocated from community facilities agreements have been subtracted from the corresponding City projects. In addition, based upon discussions with City of Fort Worth staff, state and county highway projects in which the City will contribute a portion of the total project cost have been included in the CIP as lump sum costs. Table 4 is the CIP project list for each service area with planning level probable project costs. Individual project cost projections can be seen in **Appendix A,** Opinion of Project Cost Worksheets. It should be noted that these tables reflect only conceptual-level opinions or assumptions regarding the portions of future project costs that are recoverable through impact fees. Actual project costs are likely to change with time and are dependent on market and economic conditions that cannot be predicted. The 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. Projects not included in the Impact Fee CIP are not eligible to receive impact fee funding. The Impact Fee CIP is different from a City's construction CIP, which provides a short-term list of projects for which the City is committed to building. An Impact Fee CIP is simply an inventory of future projects needed to serve future development. The cost projections utilized in this study should not be utilized for the City's building program or construction CIP.





Table 4.A – 10-Year Capital Improvements Plan for Transportation Impact Fees with Conceptual Level Cost Opinions – Service Area A

| Service Area | Proj.# | Class | Roadway | Limits | Length (mi) | % In Service Area | Total Project Cost | Cos | t in Service Area | | | | |
|-----------------|---|------------|------------------------|--|----------------|-------------------------|-----------------------|-----|-------------------|--|--|--|--|
| | A-1 | P6D | N. Beach St. (1) | Litsey Rd. to 1830' S. of Future Eagle | 1.12 | 100% | \$ 7,605,000 | \$ | 7,605,000 | | | | |
| | A-2 | P6D | N. Beach St. (2) | Keller Haslet to SH 170 | 0.19 | 100% | \$ 1,219,000 | \$ | 1,219,000 | | | | |
| | A-3, D-29 | P6D | N. Beach St. (3) | SH 170 to Timberland | 1.04 | 50% | \$ 7,037,000 | \$ | 3,518,500 | | | | |
| | A-4 | MA4D | Park Vista Blvd. (1) | 900' S. of Henrietta Creek to SH 170 | 0.73 | 100% | \$ 3,789,000 | \$ | 3,789,000 | | | | |
| | A-5 | MA4D | Independence Pkwy. (1) | Litsey Rd. to Henrietta Creek | 1.12 | 100% | \$ 5,907,000 | \$ | 5,907,000 | | | | |
| | A-6 | MA4D (1/2) | Independence Pkwy. (2) | Henrietta Creek to 255' N. of SH 170 | 0.50 | 100% | \$ 1,595,000 | \$ | 1,595,000 | | | | |
| | A-7 P6D (1/3) Cleveland Gibbs Rd. N. City Limits (3670' S. of SH 114) to Litsey Rd. 0.92 100% \$ 3,607,000 | | | | | | | | | | | | |
| | A-8 P6D Litsey Rd. (1) 190' E. of Elizabethtown to Cleveland Gibbs 0.51 100% \$ 3,215,000 \$ | | | | | | | | | | | | |
| | A-9 | MA4D | Litsey Rd. (2) | Cleveland Gibbs to 500' W. of Independence | 0.96 | 100% | \$ 5,530,000 | \$ | 5,530,000 | | | | |
| | A-10 | MA4D | Litsey Rd. (3) | IH-35W to Future N. Beach St. | 0.35 | 100% | \$ 1,727,000 | \$ | 1,727,000 | | | | |
| | A-11 | MA4D | Eagle Pkwy. (1) | Old Denton Rd. to 950' E. of Future Beach | 0.50 | 100% | \$ 2,678,000 | \$ | 2,678,000 | | | | |
| A | A-12 | MA4D | Eagle Pkwy. (2) | W. City Limits to Future Park Vista | 0.54 | 100% | \$ 2,859,000 | \$ | 2,859,000 | | | | |
| A | A-13 | MA4D | Henrietta Creek Rd. | 700' E. of Future Park Vista to Independence | 0.32 | 100% | \$ 1,569,000 | \$ | 1,569,000 | | | | |
| | A-14 | MA4D (1/2) | Westport Pkwy. (2) | IH-35W NBFR to 740' East of IH-35W NBFR | 0.14 | 100% | \$ 748,000 | \$ | 748,000 | | | | |
| | A-15 | MA4D | Westport Pkwy. (3) | 740' East of IH-35W NBFR to Future N. Beach St. | 0.98 | 100% | \$ 5,447,000 | \$ | 5,447,000 | | | | |
| | A-16 | MA4D | Westport Pkwy. (4) | 805' E. of Future N. Beach St. to Haslet Roanoke | 0.46 | 100% | \$ 2,269,000 | \$ | 2,269,000 | | | | |
| | A-17 | MA4D | Westport Pkwy. (5) | 770' E. of Haslet-Roanoke to SH 170 WBFR | 0.37 | 100% | \$ 2,208,000 | \$ | 2,208,000 | | | | |
| | A-18 | MA4D | Westport Pkwy. (6) | SH 170 EBFR to 150' W. of Park Vista Blvd. | 0.49 | 100% | \$ 2,390,000 | \$ | 2,390,000 | | | | |
| | A-19 | MA4D (1/2) | Westport Pkwy. (7) | 165' E. of Park Vista to 1,450' W. of Independence | 0.40 | 100% | \$ 1,102,000 | \$ | 1,102,000 | | | | |
| | A-20, D-19 | MA4D | Timberland Blvd. (1) | N. Beach St. to Cottageville Ln. | 0.20 | 50% | \$ 959,000 | \$ | 479,500 | | | | |
| | A-21, D-20 | MA4D (1/2) | Timberland Blvd. (2) | Cottageville Ln. to 440' E. of Lillybrook Ln. | 0.20 | 50% | \$ 533,000 | \$ | 266,500 | | | | |
| | A-22 | MA4D | Timberland Blvd. (3) | 60' E. of Park Vista to E. City Limits | 0.51 | 100% | \$ 2,032,000 | \$ | 2,032,000 | | | | |
| | | | | | Service A | Area Projec | ct Cost Subtotal | \$ | 61,760,500 | | | | |
| | | | | Transportation Impa | ct Fee Stu | ly Cost (Pe | er Service Area) | \$ | 23,777 | | | | |
| | This potential impact the day of the first and the second of the second | | | | | | | | | | | | |

Total Cost in SERVICE AREA A \$ 61,784,277

Table 4.AA – 10-Year Capital Improvements Plan for Transportation Impact Fees with Conceptual Level Cost Opinions – Service Area AA

| Service Area | Proj.# | Class | Roadway | Limits | Length (mi) | % In Service Area | То | Total Project Cost | | in Service Area |
|-----------------|---|------------|--------------------|---------------------------------------|-------------|-------------------------|-------|-----------------------|----|-----------------|
| | AA-1 | P6D (2/3) | Intermodal Pkwy. | FM 156 to Future FM 156 Alignment | 0.70 | 100% | \$ | 3,325,000 | \$ | 3,325,000 |
| AA | AA-2 | MA4D (1/2) | Westport Pwky. (1) | W. City Limits to 1,495' W. of IH-35W | 0.16 | 100% | \$ | 438,000 | \$ | 438,000 |
| AA | | | | | Service A | rea Proje | ct Co | st Subtotal | \$ | 3,763,000 |
| | Transportation Impact Fee Study Cost (Per Service Area) | | | | | | | | | 23,777 |

Total Cost in SERVICE AREA AA \$ 3,786,777

Table 4.B – 10-Year Capital Improvements Plan for Transportation Impact Fees with Conceptual Level Cost Opinions – Service Area B

| Service Area | Proj. # | Class | Roadway | Limits | Length (mi) | % In Service Area | Total Project Cost | Cost in Service Area | | |
|-----------------|---|-----------|---------------------------|--|-------------|-------------------------|-----------------------|----------------------|--|--|
| | B-1 | M4U | Willow Springs Rd. (1) | Avondale Haslet to Blue Mound Rd. | 1.48 | 100% | \$ 6,941,000 | \$ 6,941,000 | | |
| | B-2 | M4U | Willow Springs Rd. (2) | Blue Mound Rd. to S. City Limits | 0.93 | 100% | \$ 4,432,000 | \$ 4,432,000 | | |
| | B-3 | M4U | Blue Mound Rd. (1) | Willow Springs Rd. to Wagley Robertson Rd. | 0.99 | 100% | \$ 4,326,000 | \$ 4,326,000 | | |
| | B-4 | M4U | Avondale Haslet Rd. (1) | N. Willow Springs Rd. to Willow Springs Rd. | 0.35 | 100% | \$ 1,462,000 | \$ 1,462,000 | | |
| | B-5 | M4U | Avondale Haslet Rd. (2) | 230' W. of Moonlake to Sendera Ranch | 0.44 | 100% | \$ 1,829,000 | \$ 1,829,000 | | |
| | B-6 | MA4D | Wagley Robertson Rd. (1) | 875' SE of Avondale Haslet to Blue Mound Rd. | 1.83 | 100% | \$ 10,004,000 | \$ 10,004,000 | | |
| | B-7 | MA4D | Wagley Robertson Rd. (2) | Blue Mound Rd. to SA C Boundary | 0.53 | 100% | \$ 2,784,000 | \$ 2,784,000 | | |
| В | B-8, C-1 | MA4D | Wagley Robertson Rd. (3) | SA C Boundary to SA B Boundary | 0.41 | 50% | \$ 2,006,000 | \$ 1,003,000 | | |
| ь | B-9 | P6D | Sendera Ranch Blvd. (1) | Future Eagle (ETJ) to 765' N of Rodeo Daze Dr. | 1.84 | 100% | \$ 12,890,000 | \$ 12,890,000 | | |
| | B-10 | P6D (1/3) | Sendera Ranch Blvd. (2) | 765' N. Rodeo Daze to Diamondback | 0.78 | 100% | \$ 1,236,000 | \$ 1,236,000 | | |
| | B-11 | P6D (2/3) | Sendera Ranch Blvd. (3) | Diamondback to Avondale Haslet | 0.97 | 100% | \$ 5,307,000 | \$ 5,307,000 | | |
| | B-12 | M4U | Future E-W Minor Arterial | Future John Day to Future Sendera Ranch | 2.55 | 100% | \$ 11,522,000 | \$ 11,522,000 | | |
| | B-13 | MA4D | John Day Rd. | N. City Limits to S. City Limits | 0.73 | 100% | \$ 4,205,000 | \$ 4,205,000 | | |
| | B-14 | MA4D | Eagle Pkwy. (3) | 785' W. of Sendera Ranch to E. City Limits | 1.00 | 100% | \$ 5,323,000 | \$ 5,323,000 | | |
| | Service Area Project Cost Subtotal | | | | | | | | | |
| | Transportation Impact Fee Study Cost (Per Service Area) | | | | | | | | | |

Total Cost in SERVICE AREA B \$ 73,287,777





Table 4.C – 10-Year Capital Improvements Plan for Transportation Impact Fees with Conceptual Level Cost Opinions – Service Area C

| Service Area | Proj. # | Class | Roadway | Limits | Length (mi) | % In Service Area | Total Project Cost | Cos | t in Service Area | | |
|-----------------|--|------------|---------------------------|---|-------------|-------------------------|-----------------------|-----|-------------------|--|--|
| | B-8, C-1 | MA4D | Wagley Robertson Rd. (3) | SA C Boundary to SA B Boundary | 0.41 | 50% | \$ 2,006,000 | \$ | 1,003,000 | | |
| | C-2 | MA4D | Wagley Robertson Rd. (4) | S. SA B Boundary to 540' N of McGill Dr. | 0.20 | 100% | \$ 983,000 | \$ | 983,000 | | |
| | C-3 | MA4D (1/2) | Wagley Robertson Rd. (5) | 540' N of McGill Dr. to 125' S of Darby Ln. | 0.31 | 100% | \$ 870,000 | \$ | 870,000 | | |
| | C-4, E-6 | MA4D | Wagley Robertson Rd. (6) | Hillwood Blvd. to 1,800' S. of Bent Oak Dr. | 0.63 | 50% | \$ 4,110,000 | \$ | 2,055,000 | | |
| | C-5 | MA4D | Wagley Robertson Rd. (7) | 700' N. of Heritage Trace to S. City Limits | 0.41 | 100% | \$ 2,425,000 | \$ | 2,425,000 | | |
| | C-6, E-7 | MA4D | Wagley Robertson Rd. (8) | 145' N of Mystic River Trial to N. City Limits of Saginaw | 0.15 | 50% | \$ 740,000 | \$ | 370,000 | | |
| | C-7 | MA4D | Harmon Rd. (1) | Keller Hicks Rd. to Existing Harmon Rd. | 0.46 | 100% | \$ 2,237,000 | \$ | 2,237,000 | | |
| | C-8 MA4D Harmon Rd. (2) Future Harmon Alignment. to Golden Triangle Blvd. 0.24 100% \$ 1,564,000 | | | | | | | | | | |
| | C-9 | MA4D | Harmon Rd. (3) | Golden Heights Rd. to 540' S of El Camino Dr. | 0.79 | 100% | \$ 4,035,000 | \$ | 4,035,000 | | |
| | C-10 | MA4D (1/2) | Harmon Rd. (4) | 540' S of El Camino Dr. to 475' S. of Heritage Trace | 0.43 | 100% | \$ 1,191,000 | \$ | 1,191,000 | | |
| | C-11 | MA4D | Harmon Rd. (5) | 475' S. of Heritage Trace to 1,075' N. of US 287 NBFR | 0.69 | 100% | \$ 3,098,000 | \$ | 3,098,000 | | |
| | C-12 | MA4D | Harmon Rd. (6) | 1,075' N. of US 287 NBFR to N. Tarrant Pwky. | 0.41 | 100% | \$ 2,015,000 | \$ | 2,015,000 | | |
| | C-13 | M4U | Keller Hicks Rd. (1) | IH-35 SBFR to ETJ | 0.07 | 100% | \$ 292,000 | \$ | 292,000 | | |
| C | C-14 | MA4D | Golden Triangle Blvd. (1) | IH-35 SBFR to Harmon Road | 0.40 | 100% | \$ 1,988,000 | \$ | 1,988,000 | | |
| | C-15 | MA4D | Bonds Ranch Rd. (1) | 25' W. of Foothill to FM 156 | 1.40 | 100% | \$ 7,729,000 | \$ | 7,729,000 | | |
| | C-16 | MA4D | Bonds Ranch Rd. (2) | FM 156 to Harmon Rd. | 1.01 | 100% | \$ 5,784,000 | \$ | 5,784,000 | | |
| | C-17 | MA4D | Bonds Ranch Rd. (3) | Harmon Rd. to Existing Golden Heights Rd. | 0.68 | 100% | \$ 3,973,000 | \$ | 3,973,000 | | |
| | C-18 | P6D | Heritage Trace Pkwy. (1) | Wagley Robertson Rd. to 200' W. of Drovers View | 1.43 | 100% | \$ 11,302,000 | \$ | 11,302,000 | | |
| | C-19 | P6D (1/3) | Heritage Trace Pkwy. (2) | 200' W. of Drovers View. to FM 156 | 0.36 | 100% | \$ 566,000 | \$ | 566,000 | | |
| | C-20 | P6D | Heritage Trace Pkwy. (3) | FM 156 to Harmon Rd. | 1.34 | 100% | \$ 9,305,000 | \$ | 9,305,000 | | |
| | C-21 | P6D (1/3) | Heritage Trace Pkwy. (4) | Harmon Rd. to IH-35W SB FR | 0.83 | 100% | \$ 1,324,000 | \$ | 1,324,000 | | |
| | C-22 | P6D | Bailey Boswell Rd. (1) | FM 156 to US 287 NB FR | 1.54 | 100% | \$ 11,408,000 | \$ | 11,408,000 | | |
| | C-23, F-1 | P6D | Basswood Blvd. (1) | FM 156 to 125' W. of Almondale Rd. | 1.07 | 50% | \$ 8,170,000 | \$ | 4,085,000 | | |
| | C-24, F-2 | P6D (2/3) | Basswood Blvd. (2) | 125' W. of Almodale Rd. to 590' W of IH-35 SBFR | 0.25 | 50% | \$ 1,103,000 | \$ | 551,500 | | |
| | C-26 | P6D | N. Tarrant Pkwy. (1) | US 287 NB FR to IH-35W | 0.73 | 100% | \$ 699,963 | \$ | 699,963 | | |
| | C-27, D-6 | n/a | N. Tarrant Pkwy. (2) | At IH-35W | 0.00 | 50% | \$ 931,818 | \$ | 465,909 | | |
| | | | | | Service | Area Proje | ct Cost Subtotal | \$ | 81,319,372 | | |
| | Transportation Impact Fee Study Cost (Per Service Area) | | | | | | | | | | |

Total Cost in SERVICE AREA C \$ 81,343,149





Table 4.D – 10-Year Capital Improvements Plan for Transportation Impact Fees with Conceptual Level Cost Opinions – Service Area D

| Service Area | Proj. # | Class | Roadway | Limits | Length (mi) | % In Service Area | To | otal Project Cost | Cos | st in Service Area |
|-----------------|------------|------------|---------------------------|---|-------------|-------------------------|-------|----------------------|-----|--------------------|
| | D-1, F-4 | P6D (1/3) | Basswood Blvd. (4) | 670' E. of IH-35W To N. Riverside Dr. | 0.62 | 50% | \$ | 988,000 | \$ | 494,000 |
| | D-2, F-5 | P6D (1/3) | Basswood Blvd. (5) | N. Riverside Dr. To N. Beach St. | 0.74 | 50% | \$ | 1,176,000 | \$ | 588,000 |
| | D-3, F-6 | P6D (1/3) | Basswood Blvd. (6) | N. Beach St. To Park Vista Blvd. | 1.30 | 50% | \$ | 2,066,000 | \$ | 1,033,000 |
| | D-4, F-7 | P6D (1/3) | Basswood Blvd. (7) | Park Vista Blvd. to City Limits | 0.39 | 50% | \$ | 619,000 | \$ | 309,500 |
| | D-5 | M4U (1/2) | Summerfields Blvd. | Cannonwood Dr. to N. Riverside Dr. | 0.18 | 100% | \$ | 367,000 | \$ | 367,000 |
| | C-27, D-6 | n/a | N. Tarrant Pkwy. (2) | At IH-35W | n/a | 50% | \$ | 931,818 | \$ | 465,909 |
| | D-7 | MA4D | N. Tarrant Pkwy. (3) | IH-35W to US 377 | 3.51 | 100% | \$ | 6,904,000 | \$ | 6,904,000 |
| | D-8 | P6D (1/3) | N. Tarrant Pkwy. (4) | IH-35W to US 377 | 3.51 | 100% | \$ | 5,593,000 | \$ | 5,593,000 |
| | D-9 | M4U | Shiver Rd. | Stirrup Pwky. to Park Vista Blvd. | 0.48 | 100% | \$ | 2,285,000 | \$ | 2,285,000 |
| | D-10 | P6D (1/3) | Heritage Trace Pkwy. (5) | N. Riverside Dr. to N. Beach | 1.03 | 100% | \$ | 1,633,000 | \$ | 1,633,000 |
| | D-11 | P6D (1/3) | Heritage Trace Pkwy. (6) | N. Beach St. to Park Vista Blvd. | 1.13 | 100% | \$ | 1,799,000 | \$ | 1,799,000 |
| | D-12 | P6D (2/3) | Heritage Trace Pkwy. (7) | Park Vista Blvd. to E. City Limits | 0.95 | 100% | \$ | 4,470,000 | \$ | 4,470,000 |
| | D-13 | P6D | Golden Triangle Blvd. (2) | IH-35W to 50' E. of N. Riverside Dr. | 0.51 | 100% | \$ | 3,531,000 | \$ | 3,531,000 |
| | D-14 | P6D | Golden Triangle Blvd. (3) | 40' W. of N. Beach St. to 515' W. of Alta Vista | 0.36 | 100% | \$ | 2,381,000 | \$ | 2,381,000 |
| | D-15 | P6D | Golden Triangle Blvd. (4) | 100' W. of Alta Vista to City Limits | 1.57 | 100% | \$ | 11,438,000 | \$ | 11,438,000 |
| | D-16 | M4U | Keller Hicks Rd. (2) | Timberland Blvd.to Old Denton Rd. | 0.40 | 100% | \$ | 1,626,000 | \$ | 1,626,000 |
| | D-17 | M4U | Keller Hicks Rd. (3) | 735' W. of Rideview to Park Vista Blvd. | 0.98 | 100% | \$ | 3,979,000 | \$ | 3,979,000 |
| | D-18 | M4U | Keller Hicks Rd. (4) | Park Vista Rd. to E. City Limits | 1.00 | 100% | \$ | 3,997,000 | \$ | 3,997,000 |
| | A-20, D-19 | MA4D | Timberland Blvd. (1) | N. Beach St. to Cottageville Ln. | 0.20 | 50% | \$ | 959,000 | \$ | 479,500 |
| | A-21, D-20 | MA4D (1/2) | Timberland Blvd. (2) | Cottageville Ln. to 440' E. of Lillybrook Ln. | 0.20 | 50% | \$ | 533,000 | \$ | 266,500 |
| D | D-21 | MA4D | Timberland Blvd. (4) | Hollow Valley Dr. to N. Beach St. | 0.84 | 100% | \$ | 5,170,000 | \$ | 5,170,000 |
| D | D-22 | MA4D | N. Riverside Dr. (1) | SH 170 to 25' N. of Timberland | 1.62 | 100% | \$ | 8,547,000 | \$ | 8,547,000 |
| | D-23 | MA4D | N. Riverside Dr. (2) | 300' S. of Timberland Blvd. to Keller Hicks Rd. | 0.14 | 100% | \$ | 667,000 | \$ | 667,000 |
| | D-24 | MA4D | N. Riverside Dr. (3) | Keller Hicks Rd. to Golden Triangle Blvd. | 0.47 | 100% | \$ | 3,099,000 | \$ | 3,099,000 |
| | D-25 | MA4D | N. Riverside Dr. (4) | Golden Triangle Blvd. to Heritage Trace Pkwy. | 1.29 | 100% | \$ | 6,735,000 | \$ | 6,735,000 |
| | D-26 | MA4D | N. Riverside Dr. (5) | Heritage Trace Pkwy. to N. Tarrant Pkwy. | 1.23 | 100% | \$ | 6,743,000 | \$ | 6,743,000 |
| | D-27 | MA4D | N. Riverside Dr. (6) | N. Tarrant Pkwy. to Summerfields | 0.71 | 100% | \$ | 3,737,000 | \$ | 3,737,000 |
| | D-28 | MA4D (1/2) | N. Riverside Dr. (7) | Summerfields Blvd. to Old Denton Rd. | 0.29 | 100% | \$ | 809,000 | \$ | 809,000 |
| | A-3, D-29 | P6D | N. Beach St. (3) | SH 170 to Timberland | 1.04 | 50% | \$ | 7,037,000 | \$ | 3,518,500 |
| | D-30 | P6D | N. Beach St. (4) | Future Timberland to Keller Hicks | 1.03 | 100% | \$ | 6,244,000 | \$ | 6,244,000 |
| | D-31 | P6D | N. Beach St. (5) | Keller Hicks to Golden Triangle | 0.75 | 100% | \$ | 5,882,000 | \$ | 5,882,000 |
| | D-32 | P6D (2/3) | N. Beach St. (6) | Golden Triangle Blvd to 185' N of Ray White Rd. | 0.47 | 100% | \$ | 2,112,000 | \$ | 2,112,000 |
| | D-33 | P6D (1/3) | N. Beach St. (7) | 185' N of Ray White Rd. Vista Meadows Dr. | 0.27 | 100% | \$ | 425,000 | \$ | 425,000 |
| | D-34 | P6D | N. Beach St. (8) | Vista Meadows Dr. to Alta Vista Rd. | 0.18 | 100% | \$ | 1,578,000 | \$ | 1,578,000 |
| | D-35 | P6D | N. Beach St. (9) | Alta Vista to Heritage Trace Pkwy. | 0.22 | 100% | \$ | 1,111,000 | \$ | 1,111,000 |
| | D-36 | P6D | N. Beach St. (10) | Heritage Trace Pkwy. to 1185' N of N. Tarrant Pkwy. | 1.23 | 100% | \$ | 8,437,000 | \$ | 8,437,000 |
| | D-37 | MA4D | Park Vista Blvd. (2) | N. City Limits to Golden Triangle Blvd. | 0.18 | 100% | \$ | 739,000 | \$ | 739,000 |
| | D-38 | MA4D | Park Vista Blvd. (3) | Golden Triangle Blvd. to 780' S. of Wyndrook St. | 0.72 | 100% | \$ | 4,573,000 | \$ | 4,573,000 |
| | D-39 | MA4D | Park Vista Blvd. (4) | Wall Price to Heritage Trace / Kroger | 0.35 | 100% | \$ | 1,757,000 | \$ | 1,757,000 |
| | D-40 | MA4D (1/2) | Park Vista Blvd. (5) | Emmeryville Ln. to N. Tarrant Pkwy. | 0.87 | 100% | \$ | 2,972,000 | \$ | 2,972,000 |
| | | | | | Service A | Area Proje | ct Co | st Subtotal | \$ | 128,494,909 |
| | | | | Transportation Impa | ct Fee Stud | dy Cost (Po | er Se | rvice Area) | \$ | 23,777 |

Total Cost in SERVICE AREA D \$ 128,518,686





Table 4.E – 10-Year Capital Improvements Plan for Transportation Impact Fees with Conceptual Level Cost Opinions – Service Area E

| E-2 M4U Old Decatur Rd. (1) 95'S. of Park Dr. to 130' S. of Millstone Trl. 0.15 100% \$ 311,000 \$ 311,00 \$ 311,00 \$ E-3 M4U Willow Springs Rd. (3) 1,715' S of Bonds Ranch to Wagley Robertson Rd. 1.43 100% \$ 6,266,000 \$ 6,266,00 \$ E-4 MA4D Heritage Trace Pkwy. (9) Existing Boat Club Rd. to BUS 287 1.47 100% \$ 7,620,000 \$ 7,620,00 \$ 7,620,00 \$ E-5 P6D Heritage Trace Pkwy. (10) BUS 287 to 300' W. of Wagley Robertson 1.25 100% \$ 8,872,00 \$ 8,872,00 \$ 8,872,00 \$ C-4, E-6 MA4D Wagley Robertson Rd. (6) Hillwood Blvd. to 1,800' S. of Bent Oak Dr. 0.63 50% \$ 4,110,000 \$ 2,055,0 \$ C-6, E-7 MA4D Wagley Robertson Rd. (8) 145' N of Mystic River Trial to N. City Limits of Saginaw 0.15 50% \$ 740,000 \$ 370,00 \$ 370,00 \$ E-8 M4U Park Dr. (1) Boat Club Rd. to Park Dr. (Right-Angle Turn) 1.01 100% \$ 4,612,000 \$ 4,612,00 \$ 4,612,00 \$ 4,612,00 \$ E-10 MA4D (1/2) Bailey Boswell Rd. (2) Boat Club Rd to 700' W of Bowman Roberts Rd 0.38 100% \$ 1,065,00 \$ 1,065,00 \$ 1,065,00 \$ E-11 MA4D Bailey Boswell Rd. (3) 85' W of Bowman Roberts Rd to 85' W of Old Decatur 1.52 100% \$ 7,974,00 \$ 7,974,00 \$ 7,974,00 \$ 1,065,0 | Service Area | Proj. # | Class | Roadway | Limits | Length (mi) | % In Service Area | Total Projec Cost | t C | Cost in Service Area |
|---|-----------------|------------------------------------|------------|---------------------------|---|----------------|-------------------------|----------------------|-------|----------------------|
| E-3 M4U Willow Springs Rd. (3) 1,715' S of Bonds Ranch to Wagley Robertson Rd. 1.43 100% \$ 6,266,000 \$ 6,266,000 \$ E.46 MA4D Heritage Trace Pkwy. (9) Existing Boat Club Rd. to BUS 287 1.47 100% \$ 7,620,000 \$ 7, | | E-1 | MA4D | Boat Club Rd. (1) | Bonds Ranch Rd. to Park Dr. | 2.67 | 100% | \$ 15,342,0 | 00 \$ | 15,342,000 |
| E-4 MA4D Heritage Trace Pkwy. (9) Existing Boat Club Rd. to BUS 287 1.47 100% \$ 7,620,00 \$ 7,620,00 \$ 8,872,00 \$ E-5 P6D Heritage Trace Pkwy. (10) BUS 287 to 300′ W. of Wagley Robertson 1.25 100% \$ 8,872,00 \$ | | E-2 | M4U | Old Decatur Rd. (1) | 95' S. of Park Dr. to 130' S. of Millstone Trl. | 0.15 | 100% | \$ 311,0 | 00 \$ | 311,000 |
| E-5 P6D Heritage Trace Pkwy. (10) BUS 287 to 300' W. of Wagley Robertson 1.25 100% \$ 8,872,00 \$ 8,872,00 \$ C-4, E-6 MA4D Wagley Robertson Rd. (6) Hillwood Blvd. to 1,800' S. of Bent Oak Dr. 0.63 50% \$ 4,110,000 \$ 2,055,00 \$ C-6, E-7 MA4D Wagley Robertson Rd. (8) 145' N of Mystic River Trial to N. City Limits of Saginaw 0.15 50% \$ 740,000 \$ 370,00 \$ 370,00 \$ E-8 M4U Park Dr. (1) Boat Club Rd. to Park Dr. (Right-Angle Turn) 1.01 100% \$ 4,612,00 \$ 4,612,00 \$ 4,612,00 \$ 4,612,00 \$ E-10 MA4D (1/2) Bailey Boswell Rd. (2) Boat Club Rd to 700' W of Bowman Roberts Rd 0.38 100% \$ 1,065,00 \$ 1,065,00 \$ E-12, G-1 MA4D WJ Boaz Rd. Boat Club Rd to 700' W of Old Decatur 1.52 100% \$ 7,974,000 \$ 7,974,00 \$ 1,065,00 \$ E-13 M4U Robertson Rd. 665' W of Future Lake Country to Boat Club Rd. 0.87 100% \$ 3,805,000 \$ 3,805,00 \$ 3,805,00 \$ 5,805,00 \$ | | E-3 | M4U | Willow Springs Rd. (3) | 1,715' S of Bonds Ranch to Wagley Robertson Rd. | 1.43 | 100% | \$ 6,266,0 | 00 \$ | 6,266,000 |
| E-8 M4U Park Dr. (1) Boat Club Rd. to Park Dr. (10,000 S 10,000 S | | E-4 | MA4D | Heritage Trace Pkwy. (9) | Existing Boat Club Rd. to BUS 287 | 1.47 | 100% | \$ 7,620,0 | 00 \$ | 7,620,000 |
| E-8 M4U Park Dr. (1) Boat Club Rd. to Park Dr. (Right-Angle Turn) 1.01 100% \$ 4,612,00 \$ | | E-5 | P6D | Heritage Trace Pkwy. (10) | BUS 287 to 300' W. of Wagley Robertson | 1.25 | 100% | \$ 8,872,0 | 00 \$ | 8,872,000 |
| E-8 M4U Park Dr. (1) Boat Club Rd. to Park Dr. (Right-Angle Turn) 1.01 100% \$ 4,612,00 \$ 4,612,00 \$ 4,612,00 \$ E-9 M4U Park Dr. (2) Park Dr. to 515' E. of Park Dr. 0.10 100% \$ 400,00 \$ 400,00 \$ 400,00 \$ E-10 MA4D (1/2) Bailey Boswell Rd. (2) Boat Club Rd to 700' W of Bowman Roberts Rd 0.38 100% \$ 1,065,00 \$ 1,065,00 \$ 1.065,00 \$ E-11 MA4D Bailey Boswell Rd. (3) 85' W of Bowman Roberts Rd to 85' W of Old Decatur 1.52 100% \$ 7,974,00 \$ 7,974,00 \$ 7,974,00 \$ 7,974,00 \$ 1.00 \$ | | C-4, E-6 | MA4D | Wagley Robertson Rd. (6) | Hillwood Blvd. to 1,800' S. of Bent Oak Dr. | 0.63 | 50% | \$ 4,110,0 | 00 \$ | 2,055,000 |
| E-9 M4U Park Dr. (2) Park Dr. to 515' E. of Park Dr. 0.10 100% \$ 400,00 \$ 400,00 \$ 400,00 \$ E-10 MA4D (1/2) Bailey Boswell Rd. (2) Boat Club Rd to 700' W of Bowman Roberts Rd 0.38 100% \$ 1,065,00 \$ 1,065,00 \$ E-11 MA4D Bailey Boswell Rd. (3) 85' W of Bowman Roberts Rd to 85' W of Old Decatur 1.52 100% \$ 7,974,00 \$ 7,974,00 \$ 7,974,00 \$ 1,065,00 \$ 1,0 | | C-6, E-7 | MA4D | Wagley Robertson Rd. (8) | 145' N of Mystic River Trial to N. City Limits of Saginaw | 0.15 | 50% | \$ 740,0 | 00 \$ | 370,000 |
| E-9 M4U Park Dr. (2) Park Dr. to 515 E. of Park Dr. 0.10 100% \$ 400,000 \$ | E | E-8 | M4U | Park Dr. (1) | Boat Club Rd. to Park Dr. (Right-Angle Turn) | 1.01 | 100% | \$ 4,612,0 | 00 \$ | 4,612,000 |
| E-11 MA4D Bailey Boswell Rd. (3) 85' W of Bowman Roberts Rd to 85' W of Old Decatur 1.52 100% \$ 7,974,000 \$ 7,974, | E | E-9 | M4U | Park Dr. (2) | Park Dr. to 515' E. of Park Dr. | 0.10 | 100% | \$ 400,0 | 00 \$ | 400,000 |
| E-12, G-1 M4U WJ Boaz Rd. Boat Club to 130' W of Old Decatur 2.03 50% \$ 9,748,000 \$ 4,874,0 E-13 M4U Robertson Rd. 665' W of Future Lake Country to Boat Club Rd. 0.87 100% \$ 3,805,00 \$ 3,805,00 E-14 M4U Lake Country Dr. (1) 155' S. of Waterfront to Robertson Rd. 0.84 100% \$ 3,665,000 \$ 3,665,00 Service Area Project Cost Subtotal \$ 67,231,00 | | E-10 | MA4D (1/2) | Bailey Boswell Rd. (2) | Boat Club Rd to 700' W of Bowman Roberts Rd | 0.38 | 100% | \$ 1,065,0 | 00 \$ | 1,065,000 |
| E-13 M4U Robertson Rd. 665' W of Future Lake Country to Boat Club Rd. 0.87 100% \$ 3,805,00 \$ 3,805,00 \$ 3,805,00 \$ 3,805,00 \$ 3,605,00 \$ 3,665,00 \$ 5 3,665,00 \$ | | E-11 | MA4D | Bailey Boswell Rd. (3) | 85' W of Bowman Roberts Rd to 85' W of Old Decatur | 1.52 | 100% | \$ 7,974,0 | 00 \$ | 7,974,000 |
| E-14 M4U Lake Country Dr. (1) 155' S. of Waterfront to Robertson Rd. 0.84 100% \$ 3,665,000 \$ 3,665,00 \$ Service Area Project Cost Subtotal \$ 67,231,00 | | E-12, G-1 | M4U | WJ Boaz Rd. | Boat Club to 130' W of Old Decatur | 2.03 | 50% | \$ 9,748,0 | 00 \$ | 4,874,000 |
| Service Area Project Cost Subtotal \$ 67,231,00 | | E-13 | M4U | Robertson Rd. | 665' W of Future Lake Country to Boat Club Rd. | 0.87 | 100% | \$ 3,805,0 | 00 \$ | 3,805,000 |
| | | E-14 | M4U | Lake Country Dr. (1) | 155' S. of Waterfront to Robertson Rd. | 0.84 | 100% | \$ 3,665,0 | 00 \$ | 3,665,000 |
| Transportation Impact Fee Study Cost (Per Service Area) \$ 23,7" | | Service Area Project Cost Subtotal | | | | | | | | |
| | | | | | Transportation Impac | t Fee Stud | ly Cost (Po | er Service Are | a) \$ | 23,777 |

Total Cost in SERVICE AREA E \$ 67,254,777

Table 4.F – 10-Year Capital Improvements Plan for Transportation Impact Fees with Conceptual Level Cost Opinions – Service Area F

| Service Area | Proj. # | Class | Roadway | Limits | Length (mi) | % In Service Area | Total Project Cost | Cost | in Service Area | |
|-----------------|--|------------|---------------------------|---|-------------|-------------------------|-----------------------|------|-----------------|--|
| | C-23, F-1 | P6D | Basswood Blvd. (1) | FM 156 to 125' W. of Almondale Rd. | 1.07 | 50% | \$ 8,170,000 | \$ | 4,085,000 | |
| | C-24, F-2 | P6D (2/3) | Basswood Blvd. (2) | 125' W. of Almodale Rd. to 590' W of IH-35 SBFR | 0.25 | 50% | \$ 1,103,000 | \$ | 551,500 | |
| | C-25, F-3 | P6D (1/3) | Basswood Blvd. (3) | 590' W of IH-35 SBFR to 375' W. of IH-35 SBFR | 0.04 | 50% | \$ 66,000 | \$ | 33,000 | |
| | D-1, F-4 | P6D (1/3) | Basswood Blvd. (4) | 670' E. of IH-35W To N. Riverside Dr. | 0.62 | 50% | \$ 988,000 | \$ | 494,000 | |
| | D-2, F-5 | P6D (1/3) | Basswood Blvd. (5) | N. Riverside Dr. To N. Beach St. | 0.74 | 50% | \$ 1,176,000 | \$ | 588,000 | |
| | D-3, F-6 | P6D (1/3) | Basswood Blvd. (6) | N. Beach St. To Park Vista Blvd. | 1.30 | 50% | \$ 2,066,000 | \$ | 1,033,000 | |
| | D-4, F-7 | P6D (1/3) | Basswood Blvd. (7) | Park Vista Blvd. to City Limits | 0.39 | 50% | \$ 619,000 | \$ | 309,500 | |
| | F-8 | MA4D | Robert W. Downing Dr. (1) | Basswood to 290' N. of Lou Menk | 0.36 | 100% | \$ 1,746,000 | \$ | 1,746,000 | |
| | F-9 | MA4D | Western Center Blvd. (1) | City Limits to 160' W. of Overland St. | 0.07 | 100% | \$ 369,000 | \$ | 369,000 | |
| | F-10 | MA4D | Cantrell Sansom Rd. (1) | City Limits to 145' W. of Maiden Ln. | 0.21 | 100% | \$ 1,438,000 | \$ | 1,438,000 | |
| | F-11 | MA4D (1/2) | Cantrell Sansom Rd. (2) | 145' W. of Maiden Ln. to Mark IV Pkwy. | 0.49 | 100% | \$ 1,355,000 | \$ | 1,355,000 | |
| | F-12 | MA4D | Cantrell Sansom Rd. (3) | Mark IV Pkwy. to Old Denton Rd. | 0.30 | 100% | \$ 1,518,000 | \$ | 1,518,000 | |
| | F-13 | MA4D | Cantrell Sansom Rd. (4) | Old Denton Rd. to IH-35W SBFR | 0.18 | 100% | \$ 866,000 | \$ | 866,000 | |
| | F-14 | M4U (1/2) | Old Denton Rd. (1) | 1,095' N. of Caldon Way to Cantrell Sansom Rd. | 0.58 | 100% | \$ 1,412,000 | \$ | 1,412,000 | |
| | F-15 | MA4D (1/2) | Mark IV Pkwy. (1) | Cantrell Sansom to IH-820 WBFR | 0.52 | 100% | \$ 1,652,000 | \$ | 1,652,000 | |
| F | F-16 | M4U | Northeast Pkwy. | Exsting Dead End to Mark IV Pkwy. | 0.20 | 100% | \$ 1,256,000 | \$ | 1,256,000 | |
| | F-17 | M4U | Lone Star Blvd. | Existing Dead End to 780' N. of Meacham Blvd. | 0.68 | 100% | \$ 3,009,000 | \$ | 3,009,000 | |
| | F-18 | M4U | Great Southwest Pwky. | Lone Star Blvd. to Existing Dead End | 0.10 | 100% | \$ 428,000 | \$ | 428,000 | |
| | F-19 | P6D (1/3)O | Meacham Blvd. (1) | BUS 287 to Golden Spike Dr. | 0.21 | 100% | \$ 5,072,000 | \$ | 5,072,000 | |
| | F-20 | P6D (1/3)O | Meacham Blvd. (2) | Gold Spike Dr. to 1,030' W FM 156 | 0.40 | 100% | \$ 840,000 | \$ | 840,000 | |
| | F-21 | P6D (1/2) | Meacham Blvd. (3) | 320' E. of FM 156 to Bridge over RR tracks | 0.45 | 100% | \$ 1,617,000 | \$ | 1,617,000 | |
| | F-22 | P6D (1/3)O | Meacham Blvd. (4) | Bridge over RR tracks | 0.20 | 100% | \$ 5,072,000 | \$ | 5,072,000 | |
| | F-23 | P6D (1/3)O | Meacham Blvd. (5) | RR Bridge to 80' E. of Future Lone Star | 0.05 | 100% | \$ 137,000 | \$ | 137,000 | |
| | F-24 | P6D (1/2) | Meacham Blvd. (6) | Deen Rd. to 630' W. of Gemini Pl. | 0.50 | 100% | \$ 1,999,000 | \$ | 1,999,000 | |
| | F-25 | P6D (1/3) | Meacham Blvd. (7) | Little Fossil Creek Bridge to N. Beach St. | 0.89 | 100% | \$ 1,421,000 | \$ | 1,421,000 | |
| | F-26 | M4U | N. Sylvania Ave. | Melody Hills to Quorum Dr. | 0.32 | 100% | \$ 1,344,000 | \$ | 1,344,000 | |
| | F-27 | P6D (1/3) | N. Beach St. (9) | Fossil Creek Blvd. to Sandshell Dr. | 0.56 | 100% | \$ 897,000 | \$ | 897,000 | |
| | F-28 | MA4D | N. Riverside Bridge | Stone Creek Pkwy to Riverside | 0.06 | 100% | \$ 5,320,000 | \$ | 5,320,000 | |
| | F-29 | MA4D | Long Bridge | 375' W. of Railroad to Half Moon | 0.31 | 100% | \$ 4,942,000 | \$ | 4,942,000 | |
| | | | | | Service A | Area Proje | ct Cost Subtotal | \$ | 50,804,000 | |
| | Transportation Impact Fee Study Cost (Per Service Area) \$ | | | | | | | | | |

Total Cost in SERVICE AREA F \$ 50,827,777





Table 4.G – 10-Year Capital Improvements Plan for Transportation Impact Fees with Conceptual Level Cost Opinions – Service Area G

| Service Area | Proj.# | Class | Roadway | Limits | Length (mi) | % In Service Area | Total Project Cost | Cost in Service Are | | | |
|-----------------|---|-----------|---------------------------|--|-------------|-------------------------|-----------------------|---------------------|--|--|--|
| | E-12, G-1 | M4U | WJ Boaz Rd. | Boat Club to 130' W of Old Decatur | 2.03 | 50% | \$ 9,748,000 | \$ 4,874,00 | | | |
| | G-2 | M4U | Cromwell Marine Creek (1) | Ten Mile Bridge to Northern City Limits | 0.73 | 100% | \$ 3,222,000 | \$ 3,222,00 | | | |
| | G-3 | MA4D | Cromwell Marine Creek (2) | Boat Club Rd. to Stonewater Bend Trl | 1.63 | 100% | \$ 9,086,000 | \$ 9,086,00 | | | |
| | G-4 | MA4D | Cromwell Marine Creek (3) | Stone Water Bend to Marine Creek Pkwy | 0.58 | 100% | \$ 3,454,000 | \$ 3,454,00 | | | |
| | G-5 | MA4D | Longhorn Rd. (1) | Marine Creek Pkwy. to Old Decatur Rd. | 0.24 | 100% | \$ 1,193,000 | \$ 1,193,00 | | | |
| | G-6 | M4U | Ten Mile Bridge Rd. (1) | Cromwell Marine Creek to Boat Club Rd. | 1.08 | 100% | \$ 4,912,000 | \$ 4,912,00 | | | |
| | G-7 | M4U | Ten Mile Bridge Rd. (2) | Boat Club Rd. to Bowman Roberts Rd. | 0.55 | 100% | \$ 2,453,000 | \$ 2,453,00 | | | |
| | G-8 | M4U | Ten Mile Bridge Rd.(3) | Westgate Dr. to Huffines Blvd. | 0.41 | 100% | \$ 1,584,000 | \$ 1,584,00 | | | |
| | G-9 | MA4D | Marine Creek Pkwy. (1) | 440' S of McLeroy Blvd. to Ex.Cromwell Marine Crk. | 0.40 | 100% | \$ 1,964,000 | \$ 1,964,00 | | | |
| | G-10 | MA4D | Marine Creek Pkwy. (2) | Ex. Cromwell Marine Creek to 220' N. of NW College | 1.13 | 100% | \$ 5,991,000 | \$ 5,991,00 | | | |
| G | G-11 | MA4D | Marine Creek Pkwy. (3) | Angle Ave. to 120' N. of Azle Ave. | 0.95 | 100% | \$ 5,293,000 | \$ 5,293,00 | | | |
| | G-12 | M4U | Old Decatur Rd. (2) | Future Marine Creek Pkwy. to Ex. Old Decatur Rd. | 0.08 | 100% | \$ 323,000 | \$ 323,00 | | | |
| | G-13 | M4U (1/2) | Old Decatur Rd. (3) | River Rock Blvd. to IH-820 WBFR | 0.29 | 100% | \$ 296,000 | \$ 296,00 | | | |
| | G-14 | M4U | Old Decatur Rd. (4) | IH-820 EBFR to Angle Ave. | 0.81 | 100% | \$ 3,584,000 | \$ 3,584,00 | | | |
| | G-15 | M4U | Huffines Blvd. (1) | Cromwell Marine Creek to Texas Shiner Dr. | 0.62 | 100% | \$ 3,165,000 | \$ 3,165,00 | | | |
| | G-16 | M4U (1/2) | Huffines Blvd. (2) | Texas Shiner Dr. to Sea Bass Dr. | 0.34 | 100% | \$ 703,000 | \$ 703,00 | | | |
| | G-17 | M4U | Huffines Branch | Huffines Blvd. to Cromwell Marine Creek | 0.65 | 100% | \$ 2,869,000 | \$ 2,869,00 | | | |
| | G-18 | M4U | Hodgkins Rd. | Ten Mile Bridge to 110' S. of Hatch Rd. | 1.03 | 100% | \$ 4,512,000 | \$ 4,512,00 | | | |
| | G-19 | M4U | Delfin St. | 135' S. of Mantis St. to Future Marine Creek Pkwy. | 0.70 | 100% | \$ 3,067,000 | \$ 3,067,00 | | | |
| | | | | | Service A | rea Proje | ct Cost Subtotal | \$ 62,545,00 | | | |
| | Transportation Impact Fee Study Cost (Per Service Area) | | | | | | | | | | |

Total Cost in SERVICE AREA G \$ 62,568,777

Table 4.L – 10-Year Capital Improvements Plan for Transportation Impact Fees with Conceptual Level Cost Opinions – Service Area L

| Service Area | Proj. # | Class | Roadway | Limits | Length (mi) | % In Service Area | Service Total Project Cost | | | in Service Area |
|-----------------|---|------------|---------------------|---|-------------|-------------------------|----------------------------|----------|----|-----------------|
| | L-1 | MA4D | E. 1st St. (1) | N. Beach St. to 2,635 E. of Streams and Valley Circle | 1.18 | 100% | \$ 7 | ,042,000 | \$ | 7,042,000 |
| | L-2 | MA4D (1/2) | E. 1st St. (2) | 2,635 E. of S and V Circle to 860' W. of Oakland | 0.35 | 100% | \$ | 964,000 | \$ | 964,000 |
| L | L-3 | MA4D (1/2) | Randol Mill Rd. (1) | 600' E of Lake Havasu To 515' W. of Woodhaven | 0.77 | 100% | \$ 2 | ,338,000 | \$ | 2,338,000 |
| | | | | | Service A | Area Proje | ct Cost S | ubtotal | \$ | 10,344,000 |
| | Transportation Impact Fee Study Cost (Per Service Area) | | | | | | | | | 23,777 |

Total Cost in SERVICE AREA L \$ 10,367,777





Table 4.M – 10-Year Capital Improvements Plan for Transportation Impact Fees with Conceptual Level Cost Opinions – Service Area M

| Service Area | Proj.# | Class | Roadway | Limits | Length (mi) | % In Service Area | Total Project Cost | Cos | t in Service Area | | | |
|--------------------------------|---|------------|------------------------|--|-------------|-------------------------|-----------------------|-----|-------------------|--|--|--|
| | M-1 | MA4D | Precinct Line Rd. (1) | Trinity Railway Express to Trinity Blvd. | 0.34 | 100% | \$ 2,105,000 | \$ | 2,105,000 | | | |
| | M-2 | MA4D | Precinct Line Rd. (2) | Trinity Blvd. to Ex. Randol Mill Rd. | 1.75 | 100% | \$ 10,642,000 | \$ | 10,642,000 | | | |
| | M-3 | M4U | Norwood Dr. (1) | 65' S. of SH 10 to 500' S. of RR | 0.31 | 100% | \$ 1,307,000 | \$ | 1,307,000 | | | |
| | M-4 | M4U (1/2) | Norwood Dr. (2) | 500' S. of RR to Trinity Blvd. | 0.14 | 100% | \$ 296,000 | \$ | 296,000 | | | |
| | M-5, N-5 | MA4D | Raider Dr. | 260' S. of Tube to Trinity Blvd. | 0.21 | 50% | \$ 1,065,000 | \$ | 532,500 | | | |
| | M-6 | M4U | Sandy Ln. (1) | Randol Mill Rd. to 275' N. of Winters | 0.08 | 100% | \$ 330,000 | \$ | 330,000 | | | |
| | M-7 | M4U | Sandy Ln. (2) | 275' N. of Winters to John T. White Rd. | 0.97 | 100% | \$ 4,224,000 | \$ | 4,224,000 | | | |
| | M-8 MA4D Sandy Ln. (3) John T. White Rd. to IH-30 0.45 100% \$ 2,220,000 \$ | | | | | | | | | | | |
| | M-9 MA4D Cooks Ln. (1) Existing Randol Mill to Existing Cooks Ln. 0.65 100% \$ 3,377,000 \$ | | | | | | | | | | | |
| | M-10 | MA4D | Cooks Ln. (2) | Existing Cooks Ln. to 135' N. of Hidden Gate Ct. | 0.33 | 100% | \$ 1,168,000 | \$ | 1,168,000 | | | |
| | M-11 | MA4D (1/2) | Cooks Ln. (3) | 135' N of Hidden Gate to 340' N. of John T. White | 0.26 | 100% | \$ 719,000 | \$ | 719,000 | | | |
| | M-12 | MA4D | Randol Mill Rd. (2) | Stoneview Circle to 135' W. of Flyaway Ln. | 0.79 | 100% | \$ 4,110,000 | \$ | 4,110,000 | | | |
| | M-13 | MA4D (1/2) | Randol Mill Rd. (3) | 135' W. of Flyaway Ln. to 45' W. of Goldeneye Ln. | 0.11 | 100% | \$ 295,000 | \$ | 295,000 | | | |
| | M-14 | MA4D | Randol Mill Rd. (4) | 45' W. of Goldeneye Ln. to Cooks Ln. | 0.61 | 100% | \$ 3,241,000 | \$ | 3,241,000 | | | |
| М | M-15 | MA4D | Randol Mill Rd. (5) | Cooks Ln. to Existing Randol Mill Rd. | 0.79 | 100% | \$ 4,063,000 | \$ | 4,063,000 | | | |
| IVI | M-16 | MA4D | Randol Mill Rd. (6) | Existing Randol Mill to Racquet Club Dr. | 0.70 | 100% | \$ 3,686,000 | \$ | 3,686,000 | | | |
| | M-17 | M4U | Randol Mill Rd. (7) | John T. White to 165' S. of Winding Ln. | 0.19 | 100% | \$ 794,000 | \$ | 794,000 | | | |
| | M-18 | M4U (1/2) | Randol Mill Bridge | Bridge over IH-30 | 0.07 | 100% | \$ 1,449,000 | \$ | 1,449,000 | | | |
| | M-19 | M4U | Anderson Blvd. (1) | 1310' W. of Williams to 1050' W. of Williams | 0.05 | 100% | \$ 203,000 | \$ | 203,000 | | | |
| | M-20 | M4U (1/2) | Anderson Blvd. (2) | 1050' W. of Williams to Sandy Ln. | 0.48 | 100% | \$ 1,001,000 | \$ | 1,001,000 | | | |
| | M-21 | M4U | House Anderson Rd. (1) | Northern City Limits to Southern City Limits | 0.69 | 100% | \$ 3,056,000 | \$ | 3,056,000 | | | |
| | M-22 | P6D | Trinity Blvd. (1) | IH-820 to Precinct Line Rd. | 1.77 | 100% | \$ 12,173,000 | \$ | 12,173,000 | | | |
| | M-23 | P6D | Trinity Blvd. (2) | Precinct Line Rd. to Norwood Dr. | 0.86 | 100% | \$ 6,582,000 | \$ | 6,582,000 | | | |
| | M-24 | P6D | Trinity Blvd. (3) | Norwood Dr. to Bell Helicopter W. Entry | 0.25 | 100% | \$ 2,047,000 | \$ | 2,047,000 | | | |
| | M-25 | P6D (1/3)O | Trinity Blvd. (4) | Bell Helicopter W. Entry to 1,435' W. of Bell Spur | 0.22 | 100% | \$ 479,000 | \$ | 479,000 | | | |
| | M-26 | P6D | Trinity Blvd. (5) | 1,435' W. of Bell Spur to Bell Spur | 0.27 | 100% | \$ 1,780,000 | \$ | 1,780,000 | | | |
| | M-27 | P6D | Trinity Blvd. (6) | Bell Spur to 1,110' W. of Greenbelt | 0.56 | 100% | \$ 4,245,000 | \$ | 4,245,000 | | | |
| | M-28 | P6D | Trinity Blvd. (7) | 1110' W. of Greenbelt to Raider | 0.70 | 100% | \$ 1,267,000 | \$ | 1,267,000 | | | |
| | | | | | Service A | Area Projec | et Cost Subtotal | \$ | 77,391,500 | | | |
| | | | | Transportation Impac | t Fee Stu | ly Cost (Pe | er Service Area) | \$ | 23,777 | | | |
| Total Cost in SERVICE AREA M S | | | | | | | | | | | | |

Total Cost in SERVICE AREA M \$ 77,415,277

Table 4.N – 10-Year Capital Improvements Plan for Transportation Impact Fees with Conceptual Level Cost Opinions – Service Area N

| Service Area | Proj.# | Class | Roadway | Limits | Length (mi) | % In Service Area | Total Project Cost | Cost in Service Area | | |
|-----------------|---|-----------|---------------------------|---|-------------|-------------------------|-----------------------|----------------------|--|--|
| | N-1 | M4U | S. Pipeline Rd. (1) | Raider Dr. to House Anderson Rd | 0.69 | 100% | \$ 3,049,000 | \$ 3,049,000 | | |
| | N-2 | M4U | S. Pipeline Rd. (2) | House Anderson Rd. to E. City Limits | 0.33 | 100% | \$ 1,363,000 | \$ 1,363,000 | | |
| | N-3 | M4U | S. Pipeline Rd. (3) | W. City Limits to FM 157 | 0.51 | 100% | \$ 2,316,000 | \$ 2,316,000 | | |
| | N-4 | M4U | S. Pipeline Rd. (4) | FM 157 to American Blvd. | 1.69 | 100% | \$ 7,443,000 | \$ 7,443,000 | | |
| | M-5, N-5 | MA4D | Raider Dr. | 260' S. of Tube to Trinity Blvd. | 0.21 | 50% | \$ 1,065,000 | \$ 532,500 | | |
| | N-6 | MA4D | House Anderson Rd. (2) | S. Pipeline to Trinity Blvd. | 0.27 | 100% | \$ 1,344,000 | \$ 1,344,000 | | |
| | N-7 | M4U | House Anderson Rd. (3) | Trinity Blvd. to 120' S. of Trinity Railway Express | 0.53 | 100% | \$ 2,419,000 | \$ 2,419,000 | | |
| N | N-8 | P6D | Euless South Main St (1) | S. Pipeline Rd. to Trinity Blvd. | 0.19 | 100% | \$ 1,240,000 | \$ 1,240,000 | | |
| 19 | N-9 | P6D | Euless South Main St. (2) | Trinity Blvd. to 70' S. of Trinity Railway Express | 0.50 | 100% | \$ 3,404,000 | \$ 3,404,000 | | |
| | N-10 | MA4D | FAA Blvd. | SH 360 NBFR to Amon Carter | 0.66 | 100% | \$ 3,424,000 | \$ 3,424,000 | | |
| | N-11 | MA4D | Centreport Dr. | Future FAA to Existing Centreport Dead End | 0.60 | 100% | \$ 3,142,000 | \$ 3,142,000 | | |
| | N-12 | MA4D | Sovereign Rd. | Future Centreport to Existing Sovereign Dead End | 0.24 | 100% | \$ 1,158,000 | \$ 1,158,000 | | |
| | N-13 | P6D | Trinity Blvd. (8) | Raider to FM 157 | 2.39 | 100% | \$ 5,050,220 | \$ 5,050,220 | | |
| | N-14 | P6D (2/3) | Trinity Blvd. (9) | 300' N Trinity Railway Express to E. City Limits | 0.59 | 100% | \$ 2,855,000 | \$ 2,855,000 | | |
| | Service Area Project Cost Subtotal | | | | | | | | | |
| | Transportation Impact Fee Study Cost (Per Service Area) | | | | | | | | | |

Total Cost in SERVICE AREA N \$ 38,763,497





Table 4.O – 10-Year Capital Improvements Plan for Transportation Impact Fees with Conceptual Level Cost Opinions – Service Area O

| Service Area | Proj. # | Class | Roadway | Limits | Length (mi) | % In Service Area | Total Project Cost | Cost in Service Area |
|-----------------|---------|------------|-----------------|--|-------------|-------------------------|-----------------------|----------------------|
| | O-1 | M4U | Handley Dr. (1) | Meadowbrook to 160' N. of Church | 0.80 | 100% | \$ 3,544,000 | \$ 3,544,000 |
| | O-2 | MA4D | Sandy Ln. (4) | IH-30 to Brentwood Stair | 0.36 | 100% | \$ 1,795,000 | \$ 1,795,000 |
| | O-3 | MA4D | Sandy Ln. (5) | Brentwood Stair to Meadowbrook | 0.61 | 50% | \$ 3,611,000 | \$ 1,805,500 |
| | 0-4 | MA4D | Sandy Ln. (6) | Meadowbrook to Lancaster | 1.18 | 100% | \$ 6,260,000 | \$ 6,260,000 |
| 0 | O-5 | MA4D | Cooks Ln. (4) | Brentwood Stair to 160' S. of Whitney | 0.78 | 100% | \$ 4,186,000 | \$ 4,186,000 |
| U | O-6 | MA4D (1/2) | Cooks Ln. (5) | 160' S. of Whitney to 115' N. of N. Maegen Cir | 0.16 | 100% | \$ 423,000 | \$ 423,000 |
| | O-7 | MA4D | Cooks Ln. (6) | 115' N. of N. Maegen Cir. to S. Maegen Cir. | 0.07 | 100% | \$ 354,000 | \$ 354,000 |
| | O-8 | MA4D | Cooks Ln. (7) | S. Maegen Cir. To Dottie Lynn | 0.27 | 100% | \$ 1,165,000 | \$ 1,165,000 |
| | | | | | Service A | Area Proje | et Cost Subtotal | \$ 19,532,500 |
| | | | | Transportation Impa | ct Fee Stu | ly Cost (Po | er Service Area) | \$ 23,777 |

Total Cost in SERVICE AREA O \$ 19,556,277

Table 4.S – 10-Year Capital Improvements Plan for Transportation Impact Fees with Conceptual Level Cost Opinions – Service Area S

| Service Area | Proj. # | Class | Roadway | Limits | Length (mi) | % In Service Area | Total Project Cost | Cos | t in Service Area |
|-----------------|---------|------------|-----------------------------|--|-------------|-------------------------|-----------------------|-----|-------------------|
| | S-1 | MA4D | Silver Creek Rd. (1) | W. City Limits to Existing Silver Creek | 1.22 | 100% | \$ 6,799,000 | \$ | 6,799,000 |
| | S-2 | MA4D | Silver Creek Rd. (2) | 1,150' N. of Verna to 260' W. of Loop 820 SBFR | 1.10 | 100% | \$ 5,864,000 | \$ | 5,864,000 |
| | S-3 | M4U | Las Vegas Trail (1) | Future Silver Creek to Existing Las Vegas | 1.50 | 100% | \$ 6,798,000 | \$ | 6,798,000 |
| | S-4 | M4U | Las Vegas Trail (2) | Existing Las Vegas to Loop 820 W SBFR | 0.24 | 100% | \$ 917,000 | \$ | 917,000 |
| | S-5 | MA4D | Academy Blvd. (1) | Silver Creek Rd. to 130' N. of Sparrow Hawk | 0.54 | 100% | \$ 2,831,000 | \$ | 2,831,000 |
| | S-6 | MA4D | Academy Blvd. (2) (Longvue) | 75' S. of Caravelle to Amber Ridge | 0.38 | 100% | \$ 1,876,000 | \$ | 1,876,000 |
| | S-7 | P6D | White Settlement Rd. (1) | West City Limits to Silver Ridge | 1.14 | 100% | \$ 9,034,000 | \$ | 9,034,000 |
| | S-8 | P6D | White Settlement Rd. (2) | Silver Ridge to 230' W. of Chapel Creek | 0.87 | 100% | \$ 5,900,000 | \$ | 5,900,000 |
| | S-9 | P6D (1/3) | Clifford St. (1) | 230' W. of Chapel Creek to Academy | 0.55 | 100% | \$ 873,000 | \$ | 873,000 |
| | S-10 | P6D (1/3) | Clifford St. (2) | Academy to 585' E. of White Settlement | 0.62 | 100% | \$ 980,000 | \$ | 980,000 |
| | S-11 | M4U | Silver Ridge Blvd. (1) | Existing Silver Ridge to Existing American Flyer | 0.51 | 100% | \$ 2,291,000 | \$ | 2,291,000 |
| | S-12 | MA4D | Westpoint Blvd. (1) | W. City Limits to Basset Lock | 0.67 | 100% | \$ 3,465,000 | \$ | 3,465,000 |
| S | S-13 | MA4D (1/2) | Westpoint Blvd. (2) | Basset Lock to American Flyer | 0.30 | 100% | \$ 767,000 | \$ | 767,000 |
| | S-14 | MA4D | Westpoint Blvd. (3) | Academy to IH-820 SBFR | 0.69 | 100% | \$ 3,611,000 | \$ | 3,611,000 |
| | S-15 | M4U | N-S Minor Arterial (1) | Future Wespoint to Old Weatherford | 0.92 | 100% | \$ 3,992,000 | \$ | 3,992,000 |
| | S-16 | M4U | Old Weatherford Rd. (1) | W. City Limits to Chapel Creek | 1.17 | 100% | \$ 6,087,000 | \$ | 6,087,000 |
| | S-17 | M4U (1/2) | Amber Ridge (1) | Chapel Creek to Wind Star Way | 0.26 | 100% | \$ 548,000 | \$ | 548,000 |
| | S-18 | M4U | Amber Ridge (2) | Existing Amber Ridge Dead End to Alemeda | 0.96 | 100% | \$ 4,151,000 | \$ | 4,151,000 |
| | S-19 | M4U | Alemeda Rd. (1) | Academy to Sterlinghill | 0.17 | 100% | \$ 724,000 | \$ | 724,000 |
| | S-20 | M4U | Chapin Rd (1) | W. City Limits to Wakecrest | 0.80 | 100% | \$ 3,891,000 | \$ | 3,891,000 |
| | S-21 | M4U | Chapin Rd. (2) | Wakecrest to Chapel Creek Blvd. | 0.41 | 100% | \$ 2,089,000 | \$ | 2,089,000 |
| | S-22 | MA4D | Chapel Creek Blvd. (1) | Chapin Rd. to IH-30 WBFR | 0.13 | 100% | \$ 669,000 | \$ | 669,000 |
| | S-23 | MA4D | Longvue Rd. (1) | Future Amber Ridge to IH-30 WBFR | 0.48 | 100% | \$ 2,367,000 | \$ | 2,367,000 |
| | | | | | Service A | Area Projec | ct Cost Subtotal | \$ | 76,524,000 |
| | | | | Transportation Impac | t Fee Stu | ly Cost (Pe | er Service Area) | \$ | 23,777 |

Total Cost in SERVICE AREA S \$ 76,547,777





Table 4.T – 10-Year Capital Improvements Plan for Transportation Impact Fees with Conceptual Level Cost Opinions – Service Area T

| Service Area | Proj.# | Class | Roadway | Limits | Length (mi) | % In Service Area | Total Project Cost | Cost in Service Area |
|-----------------|--------|-------|------------------------|--|-------------|-------------------------|-----------------------|----------------------|
| | T-1 | MA4D | Chapel Creek Blvd. (2) | Camp Bowie West to Longvue Rd. | 0.61 | 100% | \$ 3,174,000 | \$ 3,174,000 |
| | T-2 | MA4D | Longvue Rd. (2) | I-30 EBFR to Camp Bowie West | 0.48 | 100% | \$ 2,407,000 | \$ 2,407,000 |
| | T-3 | MA4D | Longvue Rd. (3) | Camp Bowie West to 330' N. of Chapin Rd. | 0.42 | 100% | \$ 2,101,000 | \$ 2,101,000 |
| | T-4 | M4U | Alemeda Rd. (2) | Camp Bowie West to Chapin Rd. | 0.44 | 100% | \$ 1,836,000 | \$ 1,836,000 |
| T | T-5 | M4U | Chapin Rd (3) | Longvue Rd. to Chapin Curve | 0.48 | 100% | \$ 1,998,000 | \$ 1,998,000 |
| | T-6 | M4U | Chapin Rd. (4) | Chapin Curve to Alemeda | 0.21 | 100% | \$ 863,000 | \$ 863,000 |
| | T-7 | M4U | Chapin Rd. (5) | Alemeda to IH-820 NBFR | 0.30 | 100% | \$ 1,261,000 | \$ 1,261,000 |
| | | | | _ | Service A | rea Projec | ct Cost Subtotal | \$ 13,640,000 |
| | | | | Transportation Impac | t Fee Stud | ly Cost (Pe | er Service Area) | \$ 23,777 |

Total Cost in SERVICE AREA T \$ 13,663,777

Table 4.U – 10-Year Capital Improvements Plan for Transportation Impact Fees with Conceptual Level Cost Opinions – Service Area U

| Service Area | Proj.# | Class | Roadway | Limits | Length (mi) | % In Service Area | Total Project Cost | Cost in Service Area |
|-----------------|--------|-------|--------------------------------|--|----------------|-------------------------|-----------------------|----------------------|
| | U-1 | M4U | Old Weatherford Rd. (2) | W. City Limits to ~2,085' W. of Future Cattle Baron | 0.32 | 100% | \$ 1,323,000 | \$ 1,323,000 |
| | U-2 | M4U | Old Weatherford Rd. (3) | ~2,085' W. of Future Cattle Baron to Future Cattle Baron | 0.39 | 100% | \$ 1,619,000 | \$ 1,619,000 |
| | U-3 | P6D | Cattle Baron Rd. (1) | North City Limits to Future Weatherford Rd. | 0.52 | 100% | \$ 3,970,000 | \$ 3,970,000 |
| | U-4 | P6D | Cattle Baron Rd. (2) | Future Old Weatherford to IH-30 EBFR | 1.57 | 100% | \$ 11,184,000 | \$ 11,184,000 |
| | U-5 | P6D | Cattle Baron Rd. (3) | IH-30 EBFR to Future Aledo Iona | 2.85 | 100% | \$ 20,220,000 | \$ 20,220,000 |
| | U-6 | M4U | Future E-W Minor Arterial (1) | Future Cattle Baron to Future Live Oak | 1.18 | 100% | \$ 5,265,000 | \$ 5,265,000 |
| | U-7 | M4U | Live Oak Place (1) | W. City Limits to Future Cattle Baron | 0.22 | 100% | \$ 2,551,000 | \$ 2,551,000 |
| | U-8 | M4U | Live Oak Place (2) | Future Cattle Baron to IH-20 | 2.18 | 100% | \$ 10,175,000 | \$ 10,175,000 |
| | U-9 | M4U | Live Oak Place (3) | IH-20 to ETJ (3,365' S. of IH-30 EBFR) | 1.04 | 100% | \$ 4,694,000 | \$ 4,694,000 |
| U | U-10 | M4U | Live Oak Place (4) | IH-30 WBFR to N. City Limits (Mary's Creek) | 1.07 | 100% | \$ 4,795,000 | \$ 4,795,000 |
| | U-11 | MA4D | Future Major Arterial (1) | W. City Limits to Future Cattle Baron | 0.74 | 100% | \$ 3,812,000 | \$ 3,812,000 |
| | U-12 | MA4D | Future Major Arterial (2) | Future Cattle Baron to Future Live Oak | 1.59 | 100% | \$ 9,220,000 | \$ 9,220,000 |
| | U-13 | MA4D | Future Major Arterial (3) | Future Live Oak to RR tracks | 0.68 | 100% | \$ 3,973,000 | \$ 3,973,000 |
| | U-14 | M4U | Future IH-30 Parallel Arterial | W. City Limits to IH-30/20 Intersection | 1.31 | 100% | \$ 6,192,000 | \$ 6,192,000 |
| | U-15 | M4U | Future N-S Minor Arterial (1) | S. City Limits to IH-30 WBFR | 0.66 | 100% | \$ 2,935,000 | \$ 2,935,000 |
| | U-16 | M4U | Future N-S Minor Arterial (2) | S. City Limits to Old Weatherford | 0.40 | 100% | \$ 1,643,000 | \$ 1,643,000 |
| | U-17 | MA4D | Westpoint Blvd. (4) | W. City Limits to E. City Limits | 0.53 | 100% | \$ 2,799,000 | \$ 2,799,000 |
| | | | | | Service A | Area Projec | ct Cost Subtotal | \$ 96,370,000 |
| | | | | Transportation Impac | t Fee Stud | ly Cost (Pe | er Service Area) | \$ 23,777 |

Total Cost in SERVICE AREA U \$ 96,393,777

Table 4.W – 10-Year Capital Improvements Plan for Transportation Impact Fees with Conceptual Level Cost Opinions – Service Area W

| Service Area | Proj.# | Class | Roadway | Limits | Length (mi) | % In Service Area | Total Project Cost | Cost in Service Area |
|-----------------|----------|-----------|----------------------|---------------------------------|-------------|-------------------------|-----------------------|----------------------|
| | W-1, R-x | P6D (1/3) | Bryant Irvin Rd. (1) | UP RR to SA R Boundary | 0.96 | 50% | \$ 2,250,000 | \$ 1,125,000 |
| | W-2 | P6D (1/3) | Bryant Irvin Rd. (2) | SA R Boundary to Bellaire Dr. | 0.13 | 100% | \$ 204,000 | \$ 204,000 |
| | W-3 | M4U | Harris Pkwy. | Dutch Branch to Dirks | 0.48 | 100% | \$ 1,210,800 | \$ 1,210,800 |
| w | W-4 | M4U | Dutch Branch Rd. | Oakmont Trail to 45' W. of RR | 0.20 | 100% | \$ 526,000 | \$ 526,000 |
| ** | W-5 | M4U | Lakeside Dr. | Trinity River to E. City Limits | 1.21 | 100% | \$ 5,445,000 | \$ 5,445,000 |
| | W-6, Y-1 | P6D | Dirks Rd. | Railroad to Granbury Rd. | 0.24 | 50% | \$ 1,152,232 | \$ 576,116 |
| | | | | | Service A | Area Proje | ct Cost Subtotal | \$ 9,086,916 |
| | | | | Transportation Impac | t Fee Stu | ly Cost (Po | er Service Area) | \$ 23,777 |

Total Cost in SERVICE AREA W \$ 9,110,693





Table 4.X – 10-Year Capital Improvements Plan for Transportation Impact Fees with Conceptual Level Cost Opinions – Service Area X

| Service Area | Proj. # | Class | Roadway | Limits | Length (mi) | % In Service Area | Total Project Cost | Cost | in Service Area |
|-----------------|----------|------------|---------------------|--|-------------|-------------------------|-----------------------|------|-----------------|
| | X-1, Q-x | P6D (1/3) | Seminary Dr. (1) | Carter Park to Campus Dr. | 0.62 | 50% | \$ 987,000 | \$ | 493,500 |
| | X-2, Q-x | P6D (1/3) | Seminary Dr. (2) | Campus Dr. to Old Mansfield Rd. | 0.48 | 50% | \$ 769,000 | \$ | 384,500 |
| | X-3 | M4U | Oak Grove Rd. (1) | Oak Grove Ln. to Oak Grove Rd / Campus | 0.32 | 100% | \$ 1,327,000 | \$ | 1,327,000 |
| | X-4 | MA4D | Altamesa Blvd. (1) | Oak Grove Rd. to Wichita St. | 1.30 | 100% | \$ 7,196,000 | \$ | 7,196,000 |
| | X-5 | MA4D | Altamesa Blvd. (2) | Lana to Forest Hill Dr. | 0.58 | 100% | \$ 3,040,000 | \$ | 3,040,000 |
| | X-6 | M4U | Joel East Rd. | Oak Grove Rd. to Wichita St. | 1.10 | 100% | \$ 4,972,000 | \$ | 4,972,000 |
| | X-7, Z-1 | P6D | Everman Pkwy. (1) | Butterwick to 140' W. of Ballwood St. | 0.66 | 50% | \$ 5,297,000 | \$ | 2,648,500 |
| | X-8, Z-2 | P6D (2/3) | Everman Pkwy. (2) | 140' W. of Ballwood St. to 240' E. of Sheridan Rd. | 0.18 | 50% | \$ 763,000 | \$ | 381,500 |
| | X-9, Z-3 | P6D (1/3) | Everman Pkwy. (3) | 240' E. of Sheridan to IH-35W SBFR | 0.19 | 50% | \$ 301,000 | \$ | 150,500 |
| | X-10 | MA4D | Hemphill St. (1) | 645' S. of Alta Mesa to Sycamore School Rd. | 0.85 | 100% | \$ 4,774,000 | \$ | 4,774,000 |
| X | X-11 | MA4D (1/2) | Hemphill St. (2) | 360' S. of Sycamore School to Rosedale Springs | 0.41 | 100% | \$ 1,542,000 | \$ | 1,542,000 |
| А | X-12 | MA4D | Hemphill St. (3) | Rosedale Springs to Everman Pkwy. | 0.15 | 100% | \$ 755,000 | \$ | 755,000 |
| | X-13 | P6D (2/3) | Oak Grove Rd. (1) | Alta Mesa to RR tracks | 0.19 | 100% | \$ 861,000 | \$ | 861,000 |
| | X-14 | P6D | Oak Grove Rd. (2) | RR tracks to Joel East | 0.33 | 100% | \$ 2,183,000 | \$ | 2,183,000 |
| | X-15 | P6D | Oak Grove Rd. (3) | Joel East to Everman Pkwy. | 1.25 | 100% | \$ 8,832,000 | \$ | 8,832,000 |
| | X-16 | MA4D | Wichita St. (1) | 350' N. of Alta Mesa to 280' N. of RR tracks | 0.38 | 100% | \$ 1,870,000 | \$ | 1,870,000 |
| | X-17 | MA4D | Forest Hill Dr. (1) | Lon Stevenson to S. City Limits | 0.72 | 100% | \$ 3,494,000 | \$ | 3,494,000 |
| | X-18 | M4U | Anglin Dr. | Lon Stevenson to Enon Ave. | 1.00 | 100% | \$ 4,572,000 | \$ | 4,572,000 |
| | X-19 | M4U | Dick Price Rd. | 40' S. of RR tracks to S. City Limits | 0.48 | 100% | \$ 2,006,000 | \$ | 2,006,000 |
| | X-20 | M4U | Enon Ave. | W. City Limits to Anglin | 0.50 | 100% | \$ 2,081,000 | \$ | 2,081,000 |
| | | • | | _ | Service A | Area Proje | ct Cost Subtotal | \$ | 53,563,500 |
| | | | | Transportation Impa | ct Fee Stu | ly Cost (Po | er Service Area) | \$ | 23,777 |

Total Cost in SERVICE AREA X \$ 53,587,277





Table 4.Y – 10-Year Capital Improvements Plan for Transportation Impact Fees with Conceptual Level Cost Opinions – Service Area Y

| Service Area | Proj. # | Class | Roadway | Limits | Length (mi) | % In Service Area | Total Projec | et | Cost in Service Area |
|-----------------|----------|------------|---------------------------|---|-------------|-------------------------|----------------|-----|----------------------|
| | W-6, Y-1 | P6D | Dirks Rd. | Railroad to Granbury Rd. | 0.24 | 50% | \$ 1,152,2 | 32 | \$ 576,116 |
| | Y-2 | MA4D | Columbus Trl. (1) | Future N-S Arterial to Old Granbury | 0.15 | 100% | \$ 755,0 | 000 | \$ 755,000 |
| | Y-3 | MA4D | Columbus Trl. (2) | W. City Limits to Future SH 121 | 0.30 | 100% | \$ 1,499,0 | 000 | \$ 1,499,000 |
| | Y-4 | P6D (1/3) | Sycamore School Rd. (1) | Future 121 to Summer Creek | 0.36 | 100% | \$ 567,0 | 000 | \$ 567,000 |
| | Y-5 | P6D | Sycamore School Rd. (2) | Summer Creek to 145' W. of Creek Meadow | 0.10 | 100% | \$ 647,0 | 000 | \$ 647,000 |
| | Y-6 | P6D (1/3) | Sycamore School Rd. (3) | 145' W. of Creek Meadow to Cleburne Rd. W. | 1.65 | 100% | \$ 2,632,0 | 000 | \$ 2,632,000 |
| | Y-7 | MA4D (1/2) | Risinger Rd. (1) | 635' E. of McCart to Existing Risinger Dead End | 0.69 | 100% | \$ 1,918,0 | 000 | \$ 1,918,000 |
| | Y-8 | MA4D | Risinger Rd. (2) | Existing Risinger Dead End to FM 731 | 0.45 | 100% | \$ 2,233,0 | 000 | \$ 2,233,000 |
| | Y-9 | MA4D | McPherson Blvd. (1) | W. City Limits to Future SH 121 | 0.93 | 100% | \$ 5,158,0 | 000 | \$ 5,158,000 |
| | Y-10 | P6D | McPherson Blvd. (2) | Future SH 121 to 250' W. of Willow Branch | 0.70 | 100% | \$ 5,147,0 | 000 | \$ 5,147,000 |
| | Y-11 | P6D (1/3) | McPherson Blvd. (3) | 250' W. of Willow Branch to Cleburne Rd. | 0.74 | 100% | \$ 1,176,0 | 000 | \$ 1,176,000 |
| | Y-12 | P6D | McPherson Blvd. (4) | Cleburne Rd. to East City Limits | 0.76 | 100% | \$ 5,530,0 | 000 | \$ 5,530,000 |
| | Y-13 | M4U | Stewart Feltz Rd. (1) | Old Granbury Rd. to Stewart Feltz SB Bend | 0.75 | 100% | \$ 3,320,0 | 000 | \$ 3,320,000 |
| | Y-14 | M4U | Stewart Feltz Rd. (2) | Stewart Feltz SB Bend to Future Summer Creek | 0.55 | 100% | \$ 2,435,0 | 000 | \$ 2,435,000 |
| | Y-15 | MA4D | Cleburne Crowley Rd. (1) | Old Grabury Rd to Stewart Feltz | 0.88 | 100% | \$ 4,488,0 | 000 | \$ 4,488,000 |
| | Y-16 | MA4D | Cleburne Crowley Rd. (2) | Stewart Feltz to E. City Limits | 0.52 | 100% | \$ 2,791,0 | 000 | \$ 2,791,000 |
| | Y-17 | MA4D | Bryant Irvin Rd. (3) | 270' N. of Columbus Trl. To McPherson Blvd. | 2.27 | 100% | \$ 12,763,0 | 000 | \$ 12,763,000 |
| Y | Y-18 | MA4D | James W. Schell Pkwy. (1) | Scyamore School Rd. to McPherson Blvd. | 1.59 | 100% | \$ 9,248,0 | 000 | \$ 9,248,000 |
| Y | Y-19 | M4U | James W. Schell Pkwy. (1) | McPherson Blvd. to Stewart Feltz | 0.57 | 100% | \$ 2,551,0 | 000 | \$ 2,551,000 |
| | Y-20 | M4U | Old Granbury Rd. | Stewart Feltz to S/W City Limits | 0.89 | 100% | \$ 4,306,0 | 000 | \$ 4,306,000 |
| | Y-21 | MA4D | Granbury Rd. (1) | 350' S. of Altamesa to 630' N. of Appalachian Way | 0.25 | 100% | \$ 1,228,0 | 000 | \$ 1,228,000 |
| | Y-22 | MA4D (1/2) | Granbury Rd. (2) | 215' S. of Summer Meadows to Columbus Trail | 0.49 | 100% | \$ 1,293,0 | 000 | \$ 1,293,000 |
| | Y-23 | MA4D (1/2) | Summer Creek Dr. (1) | Summer Park to Risinger Rd. | 0.41 | 100% | \$ 1,133,0 | 000 | \$ 1,133,000 |
| | Y-24 | MA4D | Summer Creek Dr. (2) | Risinger Rd. to Cleburne Crowley Rd. | 2.01 | 100% | \$ 11,299,0 | 000 | \$ 11,299,000 |
| | Y-25 | MA4D | Summer Creek Dr. (3) | Cleburne Crowley Rd. to S. City Limits | 0.93 | 100% | \$ 4,835,0 | 000 | \$ 4,835,000 |
| | Y-26 | P6D (1/3) | Hulen St. (1) | Cinnamon Hill to Sycamore School | 0.96 | 100% | \$ 1,537,0 | 00 | \$ 1,537,000 |
| | Y-27 | P6D (1/3) | Hulen St. (2) | Sycamore School to Risinger Rd. | 1.21 | 100% | \$ 1,920,0 | 000 | \$ 1,920,000 |
| | Y-28 | P6D (1/3) | Hulen St. (3) | Risinger Rd. to McPherson Blvd. | 1.02 | 100% | \$ 1,628,0 | 000 | \$ 1,628,000 |
| | Y-29 | P6D (2/3) | Hulen St. (4) | McPherson Blvd. to Carriage Crossing | 0.18 | 100% | \$ 819,0 | 000 | \$ 819,000 |
| | Y-30 | P6D | Hulen St. (5) | Carriage Crossing to S. City Limits | 0.14 | 100% | \$ 872,0 | 000 | \$ 872,000 |
| | Y-31 | P6D | Hulen St. (6) | 325' N. of Rancho Verde Pkwy. To S. City Limits | 0.50 | 100% | \$ 3,526,0 | 00 | \$ 3,526,000 |
| | Y-32 | P6D (2/3) | McCart Ave. (1) | 580' S. of Risinger Rd. to 135' S. of Cayman | 0.31 | 100% | \$ 1,761,0 | 00 | \$ 1,761,000 |
| | Y-33 | P6D | McCart Ave. (2) | 135' S. of Cayman to Future McPherson Blvd. | 0.56 | 100% | \$ 3,806,0 | 000 | \$ 3,806,000 |
| | Y-34 | M4U | McCart Ave. (3) | Future McPherson Blvd. to S. City Limits | 1.16 | 100% | \$ 6,004,0 | 000 | \$ 6,004,000 |
| | | | | | Service A | Area Projec | ct Cost Subto | tal | \$ 111,401,116 |
| | | | | Transportation Impa | ct Fee Stu | ly Cost (Pe | er Service Are | a) | \$ 23,777 |

Total Cost in SERVICE AREA Y \$ 111,424,893





Table 4.Z – 10-Year Capital Improvements Plan for Transportation Impact Fees with Conceptual Level Cost Opinions – Service Area Z

| Service Area | Proj. # | Class | Roadway | Limits | Length (mi) | % In Service Area | Total Project Cost | Cost | in Service Area |
|-----------------|----------|------------|-----------------------------|--|-------------|-------------------------|-----------------------|------|-----------------|
| | X-7, Z-1 | P6D | Everman Pkwy. (1) | Butterwick to 140' W. of Ballwood St. | 0.66 | 50% | \$ 5,297,000 | \$ | 2,648,500 |
| | X-8, Z-2 | P6D (2/3) | Everman Pkwy. (2) | 140' W. of Ballwood St. to 240' E. of Sheridan Rd. | 0.18 | 50% | \$ 763,000 | \$ | 381,500 |
| | X-9, Z-3 | P6D (1/3) | Everman Pkwy. (3) | 240' E. of Sheridan to IH-35W SBFR | 0.19 | 50% | \$ 301,000 | \$ | 150,500 |
| | Z-4 | MA4D | Shelby Rd. | Race St. to Forest Hill | 1.00 | 50% | \$ 5,365,000 | \$ | 2,682,500 |
| | Z-5 | MA4D | Risinger Rd. (3) | FM 731 to IH-35W SBFR | 1.62 | 100% | \$ 9,026,000 | \$ | 9,026,000 |
| | Z-6 | MA4D | Risinger Rd. (4) | IH-35W SBFR to Old Burleson Rd. | 0.29 | 100% | \$ 1,409,000 | \$ | 1,409,000 |
| | Z-7 | MA4D | Risinger Rd. (5) | Old Burleson Rd. to Oak Grove Rd. | 0.77 | 100% | \$ 4,384,000 | \$ | 4,384,000 |
| | Z-8 | MA4D | Oak Grove Shelby (1) | Oak Grove Rd. to Race St. | 1.01 | 100% | \$ 5,398,000 | \$ | 5,398,000 |
| | Z-9 | MA4D | Oak Grove Shelby (2) | Race St. to Forest Hill Dr. | 1.00 | 100% | \$ 5,081,000 | \$ | 5,081,000 |
| | Z-10 | P6D | McPherson Blvd. (4) | FM 731 to UP RR | 1.30 | 100% | \$ 8,799,000 | \$ | 8,799,000 |
| | Z-11 | P6D (1/2) | McPherson Blvd. (5) | 375' W. of IH-35W SBFR to IH-35W NBFR | 0.20 | 100% | \$ 717,000 | \$ | 717,000 |
| | Z-12 | P6D | McPherson Blvd. (6) | IH-35W NBFR to Oak Grove | 0.68 | 100% | \$ 4,987,000 | \$ | 4,987,000 |
| | Z-13 | P6D | McPherson Blvd. (7) | Oak Grove to Forest Hill-Everman | 1.44 | 100% | \$ 10,238,000 | \$ | 10,238,000 |
| | Z-14 | MA4D | Alsbury Blvd. | IH-35W NBFR to Stone | 0.21 | 100% | \$ 1,055,000 | \$ | 1,055,000 |
| Z | Z-15 | MA4D | Hemphill St. (4) | Everman Pkwy. To 580' N. of Brasenose | 2.83 | 100% | \$ 15,714,000 | \$ | 15,714,000 |
| | Z-16 | MA4D (1/2) | Hemphill St. (5) | 580' N. of Brasenose to Oriel Circle | 0.17 | 100% | \$ 466,000 | \$ | 466,000 |
| | Z-17 | M4U (1/2) | Hemphill St. (6) | FM 1187 to McAlister | 0.28 | 100% | \$ 588,000 | \$ | 588,000 |
| | Z-18 | M4U | Hemphill St. (7) | McAlister Rd. to S. City Limits | 0.21 | 100% | \$ 847,000 | \$ | 847,000 |
| | Z-19 | P6D | Oak Grove Rd. (4) | Oak Grove-Shelby to Nelson Pl. | 1.89 | 100% | \$ 13,703,000 | \$ | 13,703,000 |
| | Z-20 | P6D | Oak Grove Rd. (5) [Stone] | Nelson Pl. to FM 1187 | 0.91 | 100% | \$ 6,475,000 | \$ | 6,475,000 |
| | Z-21 | MA4D | Stone Rd. (1) | FM 1187 to Alsbury Blvd. | 1.07 | 100% | \$ 5,656,000 | \$ | 5,656,000 |
| | Z-22 | MA4D | Stone Rd. (2) | Alsbury Blvd. to S. City Limits | 0.73 | 100% | \$ 3,832,000 | \$ | 3,832,000 |
| | Z-23 | M4U | Wildcat Way [Oak Grove S] | Abner Lee to FM 1187 | 2.20 | 100% | \$ 10,278,000 | \$ | 10,278,000 |
| | Z-24 | MA4D | Oak Grove Rd. (6) [East] | FM 1187 to Nelson Pl. | 0.72 | 100% | \$ 4,167,000 | \$ | 4,167,000 |
| | Z-25 | MA4D | Oak Grove Rd. (7) [Wichita] | Nicoleway to E. City Limits | 1.93 | 100% | \$ 10,905,000 | \$ | 10,905,000 |
| | Z-26 | MA4D | Wichita St. (2) | Oak Grove Shelby to Shelby | 0.52 | 100% | \$ 2,767,000 | \$ | 2,767,000 |
| | Z-27 | MA4D | Rendon / Forest-Hill | 275' S. of Enon to 100' S. of Shelby | 0.47 | 50% | \$ 2,713,000 | \$ | 1,356,500 |
| | | | | | Service A | Area Projec | ct Cost Subtotal | \$ | 133,711,500 |
| | | | | Transportation Impac | t Fee Stu | ly Cost (Pe | er Service Area) | \$ | 23,777 |

Total Cost in SERVICE AREA Z \$ 133,735,277

Notes:

- a. These costs projections have been developed for Impact Fee calculations only and should not be used for any future Capital Improvement Planning within the City of Fort Worth.
- b. This project cost total within each Service Area may differ from the total shown in the Summary sheets contained within **Appendix** A due to some projects that are split between multiple service areas.





E. SERVICE UNIT CALCULATION

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

The growth in vehicle miles from 2006 to 2016 is based upon projected changes in population and employment for the period. In order to determine this growth, estimates of population, basic employment, service employment, and retail employment for 2006 were made, along with growth projections for each of these demographic statistics through 2016. The Land Use Assumptions section of this report details the growth estimates used for impact fee determination.

The population and employment statistics in the Land Use Assumptions provides the "independent variables" that are used to calculate the existing (2006) and projected (2016) transportation service units. The roadway demand for each service area is the sum of the service units (vehicle miles) "generated" by each category of land use in the service area.

For the purposes 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 created 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 section of this report provides existing and projected number of building square footages for three (3) categories of employment – basic, service, and retail. These categories correspond to an aggregation of other specific land use categories based on the Standard Industrial Classification Code.

Building square footage is the most common independent variable for the estimation of non-residential trips in the *Institute of Transportation Engineers (ITE) Trip Generation Manual*, 7th *Edition*. This statistic 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 (e.g. increase in density or change in land use) that would require the assessment of an impact fee.

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





The *transportation demand factors* are aggregate rates derived from two sources – the *ITE Trip Generation Manual*, 7th *Edition* and the Regional Origin-Destination Travel Survey performed by NCTCOG. The *ITE Trip Generation Manual*, 7th *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. For example, a stop at a nearby supermarket on the way home from work does not create a new trip onto the roadway network. 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 trip generation rates to avoid double counting trips.

The next component of the *transportation demand factor* accounts for the length of each trip. The average trip length for each category is based on the region-wide travel characteristics survey conducted by NCTCOG.

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

$$TDF = T * (1 - P_b) * L_{\text{max}}$$

$$\text{where...} L_{\text{max}} = \min(L * OD \text{ or } 6)$$

Variables:

TDF = Transportation Demand Factor,

T = Trip Rate (peak hour trips / unit),

P_b = Pass-By Discount (% of trips),

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

L = Average Trip Length (miles), and

OD = Origin-Destination Reduction (50%)

The maximum trip length was limited to six (6) miles based on the maximum trip length within each service area. Chapter 395 of the Texas Local Government Code allows for a service area of six (6) miles, and the service areas within Fort Worth are closely approximated with a six (6) mile distance.

The adjustment made to the average trip length statistic in the computation of the maximum trip length is the origin-destination reduction. This adjustment is made because the transportation impact fee is charged to both the origin and destination end of the trip. For example, impact fee methodology will account for a trip from home to work within Fort Worth to both residential and non-residential land uses. To avoid counting these trips twice 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, and the total trip is only counted once. This methodology is consistent with that used in the NCTCOG Regional Origin-Destination Travel Survey.





Table 5 shows the derivation of the *Transportation Demand Factor* for the residential land uses and the three (3) non-residential land use categories. The values utilized for all variables shown in the *transportation demand factor* equation are also shown in the table.

Table 5. Transportation Demand Factor Calculations

| Variable | Residential | Basic | Service | Retail |
|--------------------|-------------|-------|---------|--------|
| T | 1.01 | 0.98 | 1.49 | 5.06 |
| P _b | 0% | 0% | 0% | 30% |
| L | 17.21 | 10.02 | 10.92 | 6.43 |
| L _{max} * | 6.00 | 5.01 | 5.46 | 3.22 |
| TDF | 6.06 | 4.91 | 8.14 | 11.38 |

^{*} L_{max} is less than 6 miles for non-residential land uses; therefore this lower trip length is used for calculating the TDF for non-residential land uses

Variables:

TDF = Transportation Demand Factor,

T = Trip Rate (peak hour trips / unit),

P_b = Pass-By Discount (% of trips),

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

L = Average Trip Length (miles), and

OD = Origin-Destination Reduction (50%)

The application of the demographic projections and the *transportation demand factors* are presented in the 10-Year Growth Projections in **Table 6**. This table shows the total vehicle miles by service area for the years 2006 and 2016. These estimates and projections lead to the Vehicle Miles of Travel for both 2006 and 2016.





Table 6. 10-Year Growth Projections

| SFRVICE | | RESIDENTIAL VEHICLE-MILES | LE-MILE | s | S | SQUARE FEET⁴ | 4 | TRANS. | TRANS. DEMAND FACTOR ⁵ | CTOR5 | NON-F | RESIDENTI/ | NON-RESIDENTIAL VEHICLE-MILES 9 | E-MILES | TOTAL |
|----------|-------------------------|--------------------------------|------------------|----------------------------|------------|--------------|------------|--------------------|-----------------------------------|---------------------|--------|------------|--------------------------------------|-----------|--------------------------------|
| AREA | POPULATION ¹ | DWELLING UNITS ¹ | TDF ² | VEHICLE MILES ³ | BASIC | SERVICE | RETAIL | BASIC ⁶ | SERVICE ⁷ | RETAIL ⁸ | BASIC | SERVICE | RETAIL | TOTAL | VEHICLE MILES ¹⁰ |
| A | 6,293 | 2,133 | 90'9 | 12,926 | 648,400 | 1,086,964 | 3,044,759 | 4.91 | 8.14 | 11.38 | 3,184 | 8,848 | 34,649 | 46,681 | 29,607 |
| ₹ | 2,208 | 736 | 90.9 | 4,460 | 0 | 2,748,590 | 8,245,771 | 4.91 | 8.14 | 11.38 | 0 | 22,374 | 93,837 | 116,211 | 120,671 |
| Ф | 795 | 265 | 90.9 | 1,606 | 15,587 | 391,054 | 1,167,967 | 4.91 | 8.14 | 11.38 | 77 | 3,183 | 13,291 | 16,551 | 18,157 |
| ပ | 4,173 | 1,391 | 90.9 | 8,429 | 228,632 | 646,936 | 1,864,596 | 4.91 | 8.14 | 11.38 | 1,123 | 5,266 | 21,219 | 27,608 | 36,037 |
| Δ | 47,118 | 15,706 | 90.9 | 95,178 | 211,017 | 841,707 | 2,454,783 | 4.91 | 8.14 | 11.38 | 1,036 | 6,851 | 27,935 | 35,822 | 131,000 |
| ш | 8,340 | 2,847 | 90.9 | 17,253 | 150,610 | 317,534 | 902,398 | 4.91 | 8.14 | 11.38 | 739 | 2,585 | 10,269 | 13,593 | 30,846 |
| ш | 29,025 | 10,090 | 90.9 | 61,145 | 4,328,708 | 6,908,870 | 19,283,708 | 4.91 | 8.14 | 11.38 | 21,254 | 56,238 | 219,449 | 296,941 | 358,086 |
| ŋ | 16,857 | 5,718 | 90.9 | 34,651 | 495,241 | 831,388 | 2,329,082 | 4.91 | 8.14 | 11.38 | 2,432 | 6,767 | 26,505 | 35,704 | 70,355 |
| _ | 18,162 | 6,746 | 90.9 | 40,881 | 648,623 | 2,272,059 | 6,599,970 | 4.91 | 8.14 | 11.38 | 3,185 | 18,495 | 75,108 | 96,788 | 137,669 |
| Σ | 16,899 | 5,883 | 90.9 | 35,651 | 266,295 | 1,733,617 | 5,112,085 | 4.91 | 8.14 | 11.38 | 1,308 | 14,112 | 58,176 | 73,596 | 109,247 |
| z | 15,013 | 5,644 | 90.9 | 34,203 | 1,608,071 | 2,415,863 | 6,711,565 | 4.91 | 8.14 | 11.38 | 7,896 | 19,665 | 76,378 | 103,939 | 138,142 |
| 0 | 27,598 | 9,796 | 90.9 | 59,364 | 113,805 | 371,905 | 1,077,780 | 4.91 | 8.14 | 11.38 | 559 | 3,027 | 12,265 | 15,851 | 75,215 |
| တ | 13,683 | 4,561 | 90.9 | 27,640 | 0 | 389,896 | 1,169,688 | 4.91 | 8.14 | 11.38 | 0 | 3,174 | 13,311 | 16,485 | 44,125 |
| - | 30,003 | 10,965 | 90.9 | 66,448 | 15,265 | 1,981,820 | 5,940,371 | 4.91 | 8.14 | 11.38 | 75 | 16,132 | 67,601 | 83,808 | 150,256 |
| ¬ | 1,716 | 572 | 90.9 | 3,466 | 0 | 255,790 | 767,370 | 4.91 | 8.14 | 11.38 | 0 | 2,082 | 8,733 | 10,815 | 14,281 |
| > | 69,035 | 24,683 | 90.9 | 149,579 | 0 | 3,449,396 | 10,348,187 | 4.91 | 8.14 | 11.38 | 0 | 28,078 | 117,762 | 145,840 | 295,419 |
| × | 25,567 | 8,837 | 90.9 | 53,552 | 3,686,900 | 4,322,053 | 11,737,191 | 4.91 | 8.14 | 11.38 | 18,103 | 35,182 | 133,569 | 186,854 | 240,406 |
| > | 49,983 | 17,042 | 90.9 | 103,275 | 204,133 | 868,731 | 2,538,150 | 4.91 | 8.14 | 11.38 | 1,002 | 7,071 | 28,884 | 36,957 | 140,232 |
| Z | 10,227 | 3,409 | 90.9 | 20,659 | 2,008,944 | 2,547,926 | 6,974,129 | 4.91 | 8.14 | 11.38 | 9,864 | 20,740 | 79,366 | 109,970 | 130,629 |
| Totals | 392,695 | 137,024 | | 830,366 | 14,630,232 | 34,382,098 | 98,269,551 | | | | 71,837 | 279,870 | 1,118,307 | 1,470,014 | 2,300,380 |

Transportation Demand Factor for each SA (from LUVMET) using Single Family Deatched Housing land use and trip generation rate.

Year 2006

From Land Use Assumptions

³ Calculated by multiplying TDF by the number of dwelling units. ⁴ From Land Use Assumptions

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

³ 'Basic' corresponds to General Light Industrial land use and *trip generation rate* 'Service' corresponds to General Office land use and trip generation rate

^{&#}x27;Retail' corresponds to Free-Standing Retail land use and trip generation rate

Calculated by multiplying Transportation Demand Factor by the number of thousand square feet for each land use ¹⁰ Residential plus non-residential vehicle-mile totals for each SA

¹¹ Total Vehicle-Miles (2006) subtracted from Total Vehicle-Miles (2016)





Table 6. 10-Year Growth Projections (cont.)

| SERVICE | | RESIDENTIAL VEHICLE-MILES | E-MILE: | S | | SQUARE FEET⁴ | 4 | TRANS | TRANS. DEMAND FACTOR ⁵ | CTOR | NON-F | RESIDENTI, | NON-RESIDENTIAL VEHICLE-MILES $^{	ext{	iny S}}$ | :-MILES | TOTAL |
|--------------|------------|--------------------------------|------------------|----------------------------|------------|--------------|-------------|--------------------|-----------------------------------|---------------------|---------|------------|---|-----------|--------------------------------|
| AREA | POPULATION | DWELLING UNITS ¹ | TDF ² | VEHICLE MILES ³ | BASIC | SERVICE | RETAIL | BASIC ⁶ | SERVICE ⁷ | RETAIL ⁸ | BASIC | SERVICE | RETAIL | TOTAL | VEHICLE MILES ¹⁰ |
| ٧ | 17,966 | 6,160 | 90'9 | 37,330 | 4,646,446 | 2,465,440 | 4,145,207 | 4.91 | 8.14 | 11.38 | 22,814 | 20,069 | 47,172 | 90,055 | 127,385 |
| ₹ | 8,312 | 2,809 | 90.9 | 17,023 | 1,823,428 | 3,355,073 | 8,681,092 | 4.91 | 8.14 | 11.38 | 8,953 | 27,310 | 98,791 | 135,054 | 152,077 |
| ω | 10,868 | 3,655 | 90.9 | 22,149 | 795,149 | 742,323 | 1,874,184 | 4.91 | 8.14 | 11.38 | 3,904 | 6,043 | 21,328 | 31,275 | 53,424 |
| ပ | 41,220 | 13,879 | 90.9 | 84,110 | 3,322,077 | 2,036,388 | 4,401,412 | 4.91 | 8.14 | 11.38 | 16,311 | 16,576 | 50,088 | 82,975 | 167,085 |
| ٥ | 74,419 | 25,385 | 90.9 | 153,830 | 1,506,314 | 2,102,230 | 5,448,743 | 4.91 | 8.14 | 11.38 | 7,396 | 17,112 | 62,007 | 86,515 | 240,345 |
| ш | 38,198 | 12,870 | 90.9 | 77,994 | 150,610 | 585,392 | 1,528,806 | 4.91 | 8.14 | 11.38 | 739 | 4,765 | 17,398 | 22,902 | 100,896 |
| ш | 39,058 | 13,727 | 90.9 | 83,185 | 9,618,860 | 9,267,616 | 22,574,056 | 4.91 | 8.14 | 11.38 | 47,229 | 75,438 | 256,893 | 379,560 | 462,745 |
| _o | 44,788 | 15,337 | 90.9 | 92,943 | 1,141,497 | 1,251,178 | 3,325,714 | 4.91 | 8.14 | 11.38 | 5,605 | 10,185 | 37,847 | 53,637 | 146,580 |
| _ | 20,424 | 7,533 | 90.9 | 45,652 | 1,602,209 | 2,624,798 | 6,866,952 | 4.91 | 8.14 | 11.38 | 7,867 | 21,366 | 78,146 | 107,379 | 153,031 |
| Σ | 25,107 | 8,711 | 90.9 | 52,791 | 1,828,471 | 2,447,536 | 6,311,307 | 4.91 | 8.14 | 11.38 | 8,978 | 19,923 | 71,823 | 100,724 | 153,515 |
| z | 19,718 | 7,419 | 90.9 | 44,957 | 3,647,577 | 3,438,811 | 8,288,098 | 4.91 | 8.14 | 11.38 | 17,910 | 27,992 | 94,319 | 140,221 | 185,178 |
| 0 | 31,081 | 11,008 | 90.9 | 66,707 | 190,347 | 505,925 | 1,430,379 | 4.91 | 8.14 | 11.38 | 935 | 4,118 | 16,278 | 21,331 | 88,038 |
| တ | 33,735 | 11,308 | 90.9 | 68,527 | 232,903 | 765,753 | 3,340,961 | 4.91 | 8.14 | 11.38 | 1,144 | 6,233 | 38,020 | 45,397 | 113,924 |
| - | 31,818 | 11,623 | 90.9 | 70,435 | 146,318 | 2,398,090 | 7,013,768 | 4.91 | 8.14 | 11.38 | 718 | 19,520 | 79,817 | 100,055 | 170,490 |
| _ | 59,183 | 19,941 | 90.9 | 120,843 | 1,515,812 | 1,382,867 | 5,374,933 | 4.91 | 8.14 | 11.38 | 7,443 | 11,257 | 61,167 | 79,867 | 200,710 |
| > | 73,452 | 26,265 | 90.9 | 159,166 | 24,232 | 3,775,111 | 11,779,524 | 4.91 | 8.14 | 11.38 | 119 | 30,729 | 134,051 | 164,899 | 324,065 |
| × | 33,265 | 11,449 | 90.9 | 69,381 | 6,724,960 | 5,343,100 | 12,710,229 | 4.91 | 8.14 | 11.38 | 33,020 | 43,493 | 144,642 | 221,155 | 290,536 |
| > | 79,170 | 26,990 | 90.9 | 163,557 | 1,371,509 | 1,371,509 | 4,137,008 | 4.91 | 8.14 | 11.38 | 6,734 | 11,164 | 47,079 | 64,977 | 228,534 |
| Z | 32,461 | 11,019 | 90.9 | 66,778 | 4,257,018 | 3,541,974 | 8,443,294 | 4.91 | 8.14 | 11.38 | 20,902 | 28,832 | 96,085 | 145,819 | 212,597 |
| Totals | 714,242 | 247,089 | | 1,497,358 | 44,545,737 | 49,401,112 | 127,675,667 | | | | 218,721 | 402,125 | 1,452,951 | 2,073,797 | 3,571,155 |

Notes:

Year 2016

² Transportation Demand Factor for each SA (from LUVMET) using Single Family Deatched Housing land use and trip generation rate. From Land Use Assumptions

³ Calculated by multiplying TDF by the number of dwelling units.

From Land Use Assumptions

⁵ Trip generation rate and Transportation Demand Factors from LUVMET for each land use

⁶ 'Basic' corresponds to General Light Industrial land use and trip generation rate

^{&#}x27;Service' corresponds to General Office land use and trip generation rate

^{8 &#}x27;Retail' corresponds to Free-Standing Retail land use and trip generation rate

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

¹⁰ Residential plus non-residential vehicle-mile totals for each SA

¹¹ Total Vehicle-Miles (2006) subtracted from Total Vehicle-Miles (2016)





Table 6. 10-Year Growth Projections (cont.)

VEH-MILES

From Land Use Assumptions

² Transportation Demand Factor for each SA (from LUVMET) using Single Family Deatched Housing land use and trip generation rate.

³ Calculated by multiplying TDF by the number of dwelling units.

⁴ From Land Use Assumptions

⁵ Trip generation rate and Transportation Demand Factors from LUVMET for each land use

⁶ Basic' corresponds to General Light Industrial land use and trip generation rate

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

8 'Retail' corresponds to Free-Standing Retail land use and trip generation rate ¹⁰ Residential plus non-residential vehicle-mile totals for each SA

¹¹ Total Vehicle-Miles (2006) subtracted from Total Vehicle-Miles (2016)

ş

31,406 35,267 131,048 109,345

104,659 76,225

G

15,362

44,268 47,036 12,823 69,799

20,234

70,050

otal

28,646 50,130 88,302 81,968





V. IMPACT FEE CALCULATION

A. MAXIMUM ASSESSABLE IMPACT FEE PER SERVICE UNIT

This section presents the maximum assessable impact fee rate calculated for each service area. The maximum assessable impact fee is the sum of the eligible Impact Fee CIP costs for the service area divided by the growth in travel attributable to new development projected to occur within the 10-year period. A majority of the components of this calculation have been described and presented in previous sections of this report. The purpose of this section is to document the computation for each service area and to demonstrate that the guidelines provided by Chapter 395 of the Texas Local Government Code have been addressed. **Table 7** illustrates the computation of the maximum assessable impact fee computed for each service area. Each row in the table is numbered to simplify explanation of the calculation.

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

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

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

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

| 3 | Total Vehicle-Miles of Existing Deficiencies | Number of vehicle-miles of travel that are not accommodated by the existing roadway system (from Appendix C – Existing Facilities Inventory) |
|---|---|---|
|---|---|---|

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 Impact Fee CIP – will have these additional trips removed from the calculation.

| 4 | v | A measurement of the amount of vehicle-miles added by the CIP that will not be utilized by existing demand (Line 1 – Line 2 – Line 3) |
|---|---|---|
|---|---|---|

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





| 5 | Total Cost of the CIP within the Service Area | The total cost of the projects within each service area (from Table 4 : 10-Year Capital Improvements Plan with Conceptual Level Cost Opinions) |
|---|---|---|
|---|---|---|

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

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

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

| Ī | 7 | Cost to Meet Existing | The difference between the Total Cost of the CIP (Line 5) and the |
|---|---|-----------------------|---|
| | / | Needs and Usage | Cost of the Net Capacity supplied (Line 6). (Line 5 – Line 6) |

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

| 8 | | Based upon the growth projection provided in the Land Use Assumptions, an estimate of the number of new vehicle-miles within |
|---|-------|--|
| | Years | the service area over the next ten years. (from Table 6) |

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

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

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

| | Cost of Capacity Added | The result of multiplying the Cost of Net Capacity Added (Line 6) by |
|----|------------------------|--|
| 11 | Attributable to New | the Percent of Capacity Added Attributable to New Growth, limited to |
| | Growth | 100% (Line 9). |

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





B. PLAN FOR AWARDING THE TRANSPORTATION IMPACT FEE CREDIT

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

"(7) A plan for awarding:

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

The plan is summarized, as prepared by R.W. Beck, Inc., in **Appendix D** and **E**, Plan for Awarding the Transportation Impact Fee Credit. The following table summarizes the portions of **Table 7** that utilize this credit calculation.

| Line | Title | Description |
|------|--|---|
| 12 | Financing Costs | (from Appendix D – Plan for Awarding the Transportation Impact Fee Credit) |
| 13 | Interest Earnings | (from Appendix D – Plan for Awarding the Transportation Impact Fee Credit) |
| 14 | Cost of the CIP and Financing Attributable to New Growth | The sum of the Cost of Capacity Added Attributable to New Growth, Financing Costs, and Interest Earnings. (Line 11 + Line 12 + Line 13) |
| 15 | Pre-Credit Maximum Fee Per Service Unit | Found by dividing the Cost of the CIP and Financing Attributable to New Growth (Line 14) by the Total Vehicle-Miles of New Demand Over Ten Years (Line 8). (Line 14 / Line 8) |
| 16 | Credit for Ad Valorem Taxes | A credit for the portion of ad valorem taxes projected to be generated by the new service units, as per Section 395.014 of the Local Government Code. (from Appendix D – Plan for Awarding the Transportation Impact Fee Credit) |
| 17 | Recoverable Cost of CIP and Financing | The difference between the Cost of the CIP and Financing Attributable to New Growth (Line 14) and the Credit for Ad Valorem Taxes (Line 16). (Line 14 + Line 16) |
| 18 | Maximum Assessable Fee Per Service Unit | Found by dividing the Recoverable Cost of the CIP and Financing (Line 17) by the Total Vehicle-Miles of New Demand Over Ten Years (Line 8). (Line 17 / Line 8) |





C. MAXIMUM ASSESSABLE IMPACT FEE DETERMINATION

The impact fee determination method employed by R.W. Beck is developed through a financial based model, which fully recognizes the requirements of Chapter 395, including the recognition of cash and/or debt financing, interest earnings, fund balances, and applicable credits associated with the use of ad valorem taxes. In developing the components of the financial model several assumptions must be made, including

- Financing;
 - o Method of financing (i.e. cash or debt financing)
 - The level of financing (e.g. 60% debt / 40% cash)
 - Cost of financing
 - Debt repayment structure
- Timing and Level of Expenditures and Revenues
- Interest Earnings
- Annual Service Unit Growth
- Portion of Ad Valorem Tax Revenue Used to Fund Impact Fee Capital Improvements

While it is our opinion that the assumptions employed in the maximum assessable impact fee determination provide a reasonable basis for forecasting, we must emphasize that these assumptions may not necessarily reflect actual future conditions. To address this, Chapter 395 requires the monitoring of impact fees through the Impact Fee Advisory Committee, and allows for the option to update or revise impact fees to reflect the actual implementation of the impact fee program.

Once the cost of capacity added that is attributable to growth (Table 7 line 11) is determined, it must then be decided how the cost will be financed, cash and/or debt. Based on discussions with City staff, it is assumed that the City will debt finance 60% of the project costs and cash finance 40%. For debt financing, the cost of financing is based on the City staff's estimates of future debt costs for bonds issued with 20-year terms, as shown in **Appendix E**. Debt service payments for each future debt issue are assumed to remain constant over the issue's term.

Currently, the exact timing and annual level of capital expenditures over the 10-year forecast is indeterminate; therefore, it is assumed that capital expenditures will occur in equal amounts over the 10-year program period. It is also assumed that for debt financed capital projects the City will annually accumulate these capital expenditures through the City's line of credit and then issue debt. For the calculation of the maximum assessable impact fee, debt is assumed to be issued in equal amounts for years 2 through 9. Because of the ten 10-year forecast limitation, and in order to recognize the full amount of debt to be issued for the cost of capacity added that is attributable to growth during the 10-year period, debt issued in year 10 reflects the capital expenditures accumulated from year 9 for the line of credit and the capital expenditures to be debt financed in year 10





Because debt is issued over 20-year terms and impact fees developed herein are to be charged over a 10-year period, sufficient fund balance must be generated to meet the future debt service obligations. Because of the generation of the fund balance, excess monies will be available for interest earnings. Chapter 395 states that interest earnings are funds of the impact fee account and are to be held to the same restrictions as impact fee revenues. Therefore, in order recognize that interest earnings are used to fund capital improvements, interest earnings are credited against the costs recoverable through impact fees. It should be noted that Chapter 395 does not require the upfront recognition of interest earnings in the impact fee determination; however, in an effort to acknowledge the time value of the impact fee payers' monies, interest earnings have been credited. Interest is assumed to be earned at an annual rate of 4.05% based on the City's average annual return on consolidated cash funds as of 4/30/06.

As with the timing and level of the capital expenditures over the 10-year forecast, the timing and annual level of service unit growth over the 10-year program period is indeterminate at the present time. As such, it is assumed that service unit growth will be consistent over the 10-year forecast.

Chapter 395 requires a plan for awarding either a credit for the portion of ad valorem tax and/or utility service revenues generated by new service units during the program period that are used for payment of improvements that are included in the impact fee capital improvements plan. As an alternative, a credit equal to 50% of the total cost of implementing the impact fee capital improvements plan may be used. The City has elected to pursue the determination of a credit for the portion of ad valorem tax revenues generated by new service units during the program period that are used for payment of improvements that are included in the impact fee capital improvements plan. It should be noted that the credit is not a determination to recognize the total ad valorem tax revenue generated by new service units, but is only a credit for the portion of ad valorem tax revenue that is used for payment of improvements that are included in the impact fee capital improvements plan. Theoretically, the credit determination could be zero (0) if the City does not utilize any of the new service unit ad valorem tax revenue to fund improvements that are included in the impact fee capital improvements plan. However, to be conservative and recognize potential cash flow issues that can occur with the funding of major capital improvement projects, it is assumed that the cash funded projects (40% of the improvement costs included in the impact fee capital improvements plan) could potentially be funded by ad valorem tax revenue.

In reviewing **Table 7**, which is based on the assumption that 40% of the improvement costs will be funded by ad valorem taxes, Service Area U has a credit of (see Line 16) \$1,735,913 and a maximum assessable impact fee per service unit (see Line 18) of \$567. If the assumption was made that 0% of the improvement costs are funded by ad valorem taxes, then the credit would be reduced to \$0 and the maximum assessable fee would rise by \$10 to \$577. If the assumption was made that 100% of the improvement costs were funded by ad valorem taxes then the credit would rise to approximately \$4,340,049 and the maximum assessable fee would be reduced by \$13 to \$554. The purpose of conducting this sample analysis for Service Area U was to show the minimal impact this assumption has on the resulting maximum assessable impact fee.

Since payments made through ad valorem tax revenue will consist of not only the revenue generated by new service units in the defined service area, but also existing property owners throughout the City, the portion attributable to the new service units in the defined service area must be isolated, as illustrated in the credit calculation in **Appendix E**.





The following summarizes the financial model's determination of the maximum assessable impact fee.

Recoverable Impact Fee Capital Improvement Costs (Table 7, line 11)

Plus: Financing Costs Less: Interest Earnings

Pre Credit Recoverable Costs for Impact Fee Less: Credit for Ad Valorem Revenues

Maximum Recoverable Costs for Impact Fee





Table 7. Maximum Assessable Roadway Impact Fee

| SERVICE AREA: | A | AA | В | С | D | E | F | G | L | M | N | 0 | S | T | U | W | X | Y | Z |
|--|-----------------|--------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|-----------------|----------------|----------------|--------------------|-------------|-----------------|--------------|-----------------|-----------------|-----------------|
| 1 TOTAL VEH-MI OF CAPACITY ADDED BY THE CIP (FROM CIP UNITS OF SUPPLY, APPENDIX B) | 37,688 | 3,388 | 40,448 | 51,562 | 105,535 | 35,167 | 34,089 | 32,075 | 6,440 | 45,280 | 28,914 | 10,510 | 44,052 | 7,374 | 49,954 | 7,224 | 31,679 | 80,962 | 73,139 |
| 2 TOTAL VEH-MI OF EXISTING DEMAND (FROM CIP UNITS OF SUPPLY, APPENDIX B) | 878 | 746 | 1,244 | 3,369 | 22,289 | 3,052 | 9,382 | 5,114 | 1,135 | 10,715 | 4,476 | 414 | 6,068 | 258 | 18 | 2,985 | 3,981 | 10,200 | 5,643 |
| 3 TOTAL VEH-MI OF EXISTING DEFICIENCIES (FROM EXISTING FACILITIES INVENTORY, APPENDIX C) | 0 | 1,063 | 0 | 42 | 3,149 | 0 | 296 | 288 | 0 | 808 | 1,050 | 0 | 737 | 0 | 0 | 1,775 | 1,086 | 383 | 2,032 |
| 4 NET AMOUNT OF VEH-MI OF CAPACITY ADDED (LINE 1 - LINE 2 - LINE 3) | 36,810 | 1,579 | 39,204 | 48,151 | 80,096 | 32,115 | 24,411 | 26,672 | 5,305 | 33,756 | 23,387 | 10,096 | 37,247 | 7,116 | 49,936 | 2,464 | 26,611 | 70,378 | 65,464 |
| 5 TOTAL COST OF THE CIP WITHIN SERVICE AREA (FROM TABLE 4) | \$ 61,784,277 | \$ 3,786,777 | \$ 73,287,777 | \$ 81,343,149 | \$ 128,518,686 | \$ 67,254,777 | \$ 50,827,777 | \$ 62,568,777 | \$ 10,367,777 | \$ 77,415,277 | \$ 38,763,497 | \$ 19,556,277 | \$ 76,547,777 \$ | 13,663,777 | \$ 96,393,777 | \$ 9,110,693 | \$ 53,587,277 | \$ 111,424,893 | \$ 133,735,277 |
| 6 COST OF NET CAPACITY SUPPLIED (LINE 4 / LINE 1) * (LINE 5) | \$ 60,345,655 | \$ 1,765,070 | \$ 71,033,482 | \$ 75,961,370 | \$ 97,539,818 | \$ 61,418,058 | \$ 36,397,895 | \$ 52,029,850 | \$ 8,540,376 | \$ 57,713,463 | \$ 31,354,115 | \$ 18,785,953 | \$ 64,722,963 \$ | 13,184,859 | \$ 96,359,526 | \$ 3,107,835 | \$ 45,015,020 | \$ 96,858,846 | \$ 119,701,710 |
| 7 COST TO MEET EXISTING NEEDS AND USAGE (LINE 5 - LINE 6) | \$ 1,438,622 | \$ 2,021,707 | \$ 2,254,295 | \$ 5,381,779 | \$ 30,978,868 | \$ 5,836,719 | \$ 14,429,882 | \$ 10,538,927 | \$ 1,827,401 | \$ 19,701,814 | \$ 7,409,382 | \$ 770,324 | \$ 11,824,814 \$ | 478,918 | \$ 34,251 | \$ 6,002,858 | \$ 8,572,257 | \$ 14,566,047 | \$ 14,033,567 |
| 8 TOTAL VEH-MI OF NEW DEMAND OVER TEN YEARS (FROM TABLE 6 and Land Use Assumptions) | 67,778 | 31,406 | 35,267 | 131,048 | 109,345 | 70,050 | 104,659 | 76,225 | 15,362 | 44,268 | 47,036 | 12,823 | 69,799 | 20,234 | 186,429 | 28,646 | 50,130 | 88,302 | 81,968 |
| 9 PERCENT OF CAPACITY ADDED ATTRIBUTABLE TO GROWTH (LINE 8 / LINE 4) | 184% | 1989% | 90% | 272% | 137% | 218% | 429% | 286% | 290% | 131% | 201% | 127% | 187% | 284% | 373% | 1162% | 188% | 125% | 125% |
| 10 IF LINE 8 > LINE 4, REDUCE LINE 9 TO 100%, OTHERWISE NO CHANGE | 100% | 100% | 90% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% |
| 11 COST OF CAPACITY ADDED ATTRIBUTABLE TO GROWTH (LINE 6 * LINE 10) | \$ 60,345,655 | \$ 1,765,070 | \$ 63,900,317 | \$ 75,961,370 | \$ 97,539,818 | \$ 61,418,058 | \$ 36,397,895 | \$ 52,029,850 | \$ 8,540,376 | \$ 57,713,463 | \$ 31,354,115 | \$ 18,785,953 | \$ 64,722,963 \$ | 13,184,859 | \$ 96,359,526 | \$ 3,107,835 | \$ 45,015,020 | \$ 96,858,846 | \$ 119,701,710 |
| 12 FINANCING COSTS (FROM APPENDIX D) | \$ 25,517,062 | \$ 746,357 | \$ 27,020,145 | \$ 32,120,141 | \$ 41,244,553 | \$ 25,970,526 | \$ 15,390,791 | \$ 22,000,737 | \$ 3,611,284 | \$ 24,404,044 | \$ 13,258,036 | \$ 7,943,610 | \$ 27,367,999 \$ | 5,575,196 | \$ 40,745,468 | \$ 1,314,143 | \$ 19,034,528 | \$ 40,956,605 | \$ 50,615,673 |
| 13 INTEREST EARNINGS (FROM APPENDIX D) | \$ (18,575,687) | \$ (543,515) | \$ (19,671,836) | \$ (23,347,365) | \$ (29,996,597) | \$ (18,885,180) | \$ (11,205,190) | \$ (16,000,242) | \$ (2,630,462) | \$ (17,769,263) | \$ (9,655,668) | \$ (5,785,682) | \$ (19,912,948) \$ | (4,061,093) | \$ (29,583,524) | \$ (957,092) | \$ (13,860,011) | \$ (29,783,886) | \$ (36,823,134) |
| 14 COST OF CIP AND FINANCING ATTRIBUTABLE TO GROWTH (LINE 11 + LINE 12 + LINE 13) | \$ 67,287,030 | \$ 1,967,912 | \$ 71,248,626 | \$ 84,734,146 | \$ 108,787,774 | \$ 68,503,403 | \$ 40,583,496 | \$ 58,030,345 | \$ 9,521,198 | \$ 64,348,243 | \$ 34,956,483 | \$ 20,943,880 | \$ 72,178,014 \$ | 14,698,963 | \$ 107,521,471 | \$ 3,464,886 | \$ 50,189,537 | \$ 108,031,565 | \$ 133,494,249 |
| 15 PRE-CREDIT MAX FEE PER SERVICE UNIT (\$ PER VEH-MI) (LINE 14 / LINE 8) | \$ 993 | \$ 63 | \$ 2,020 | \$ 647 | \$ 995 | \$ 978 | \$ 388 | \$ 761 | \$ 620 | \$ 1,454 | \$ 743 | \$ 1,633 | \$ 1,034 \$ | 726 | \$ 577 | \$ 121 | \$ 1,001 | \$ 1,223 | \$ 1,629 |
| 16 CREDIT FOR AD VALOREM TAXES (FROM APPENDIX D) | \$ (231,297) | \$ (3,558) | \$ (211,704) | \$ (900,313) | \$ (860,406) | \$ (590,973) | \$ (120,114) | \$ (469,248) | \$ (6,406) | \$ (156,109) | \$ (48,794) | \$ (21,670) | \$ (422,462) \$ | (7,939) | \$ (1,735,913) | \$ (4,542) | \$ (114,256) | \$ (911,667) | \$ (864,400) |
| 17 RECOVERABLE COST OF CIP AND FINANCING (LINE 14 + LINE 16) | \$ 67,055,733 | \$ 1,964,354 | \$ 71,036,922 | \$ 83,833,833 | \$ 107,927,368 | \$ 67,912,430 | \$ 40,463,382 | \$ 57,561,097 | \$ 9,514,792 | \$ 64,192,134 | \$ 34,907,689 | \$ 20,922,210 | \$ 71,755,552 \$ | 14,691,023 | \$ 105,785,558 | \$ 3,460,344 | \$ 50,075,280 | \$ 107,119,898 | \$ 132,629,848 |
| 18 MAX ASSESSABLE FEE PER SERVICE UNIT (\$ PER VEH-MI) (LINE 17 / LINE 8) | \$ 989 | \$ 63 | \$ 2,014 | \$ 640 | \$ 987 | \$ 969 | \$ 387 | \$ 755 | \$ 619 | \$ 1,450 | \$ 742 | \$ 1,632 | \$ 1,028 \$ | 726 | \$ 567 | \$ 121 | \$ 999 | \$ 1,213 | \$ 1,618 |





D. SERVICE UNIT DEMAND PER UNIT OF DEVELOPMENT

The transportation impact fee is determined by multiplying the impact fee rate by the number of service units projected for the proposed development. For this purpose, the City utilizes the Land Use/Vehicle-Mile Equivalency Table (LUVMET), presented in **Table 8**. This table lists the predominant land uses that may occur within the City of Fort Worth. 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 local 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 definitive source of the trip generation and pass-by statistics is the *ITE Trip Generation Manual*, 7th *Edition*, the latest edition. 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 trip length values are based on the *Regional Origin-Destination Travel Survey* performed by the North Central Texas Council of Governments (NCTCOG). 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 six (6) miles, the maximum trip length used for calculation is reduced to six (6) miles. 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 to compute the number of service units attributed to each land use category. The number of service units is multiplied by the impact fee rate (established by City ordinance) in order to determine the impact fee for a development.





Table 8. Land Use / Vehicle-Mile Equivalency Table (LUVMET)

| Table 6. | Lanu (| Jse / Venic | 16-1VII | ie E | quiva | iency | | $(\mathbf{L}\mathbf{U})$ | A 1ATT7 1 | L) | |
|---|----------------------|--------------------------------------|--------------------------|---------------------|-------------------|--------------|----------------------------------|--------------------------|-----------------------------|----------------------------|----------------------------|
| Land Use Category | ITE Land Use Code | Development Unit | Trip Gen Rate (PM) | Pass- by Rate | Pass-by Source | Trip Rate | NCTCOG 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 | 0.98 | | | 0.98 | 10.02 | 50% | 5.01 | 5.01 | 4.91 |
| General Heavy Industrial | 120 | 1,000 SF GFA | 0.68 | | | 0.68 | 10.02 | 50% | 5.01 | 5.01 | 3.41 |
| Industrial Park | 130 150 | 1,000 SF GFA 1,000 SF GFA | 0.86 | | | 0.86 | 10.02 10.83 | 50% 50% | 5.01 5.42 | 5.01 5.42 | 4.31 3.19 |
| Warehousing Mini-Warehouse | 150 | 1,000 SF GFA 1,000 SF GFA | 0.39 | | | 0.39 | 10.83 | 50% | 5.42 | 5.42 | 1.41 |
| RESIDENTIAL | 101 | 1,000 01 0111 | 0.20 | | | 0.20 | 10.03 | 5070 | 5.12 | 5.12 | 1.11 |
| Single-Family Detached Housing | 210 | Dwelling Unit | 1.01 | | | 1.01 | 17.21 | 50% | 8.61 | 6.00 | 6.06 |
| Apartment/Multi-family | 220 | Dwelling Unit | 0.62 | | | 0.62 | 17.21 | 50% | 8.61 | 6.00 | 3.72 |
| Residential Condominium/Townhome | 230 | Dwelling Unit | 0.52 | | | 0.52 | 17.21 | 50% | 8.61 | 6.00 | 3.12 |
| Mobile Home Park | 240 | Dwelling Unit | 0.59 | | | 0.59 | 17.21 | 50% | 8.61 | 6.00 | 3.54 |
| Assisted Living | 254 | Dwelling Unit | 0.22 | | | 0.22 | 17.21 | 50% | 8.61 | 6.00 | 1.32 |
| LODGING Hotel | 310 | Room | 0.59 | | | 0.59 | 6.43 | 50% | 3.22 | 3.22 | 1.90 |
| Motel / Other Lodging Facilities | 320 | Room | 0.39 | | | 0.39 | 6.43 | 50% | 3.22 | 3.22 | 1.51 |
| RECREATIONAL | | | | | | | 0.1.0 | | | 0 | |
| Driving Range | 432 | Tee | 1.25 | | | 1.25 | 6.43 | 50% | 3.22 | 3.22 | 4.02 |
| Golf Course | 430 | Acre | 0.30 | | | 0.30 | 6.43 | 50% | 3.22 | 3.22 | 0.96 |
| Health/Rec. Clubs and Facilities | 495 | 1,000 SF GFA | 1.64 | | | 1.64 | 6.43 | 50% | 3.22 | 3.22 | 5.27 |
| Ice Rink | 465 | 1,000 SF GFA | 2.36 | | | 2.36 | 6.43 | 50% | 3.22 | 3.22 | 7.59 |
| Miniature Golf Multipley Mayie Theotor | 431 445 | Hole | 0.33 | | | 0.33 | 6.43 | 50% 50% | 3.22 3.22 | 3.22 3.22 | 1.06 43.85 |
| Multiplex Movie Theater Racquet / Tennis Club | 443 | Screens Court | 3.35 | | | 3.35 | 6.43 | 50% | 3.22 | 3.22 | 10.77 |
| INSTITUTIONAL | 7/1 | Court | 3.33 | | | 3.33 | 0.43 | 3070 | 3.22 | 3.22 | 10.77 |
| Church | 560 | 1,000 SF GFA | 0.66 | | | 0.66 | 4.20 | 50% | 2.10 | 2.10 | 1.39 |
| Day Care Center | 565 | 1,000 SF GFA | 13.18 | | | 13.18 | 4.20 | 50% | 2.10 | 2.10 | 27.68 |
| Primary/Middle School (1-8) | 522 | Students | 0.15 | | | 0.15 | 4.20 | 50% | 2.10 | 2.10 | 0.32 |
| High School (9-12) | 530 | Students | 0.14 | | | 0.14 | 4.20 | 50% | 2.10 | 2.10 | 0.29 |
| Jr / Community College | 540 | Students | 0.12 | | | 0.12 | 4.20 | 50% | 2.10 | 2.10 | 0.25 |
| University / College MEDICAL | 550 | Students | 0.21 | | | 0.21 | 4.20 | 50% | 2.10 | 2.10 | 0.44 |
| Clinic | 630 | 1,000 SF GFA | 5.18 | | | 5.18 | 7.55 | 50% | 3.78 | 3.78 | 19.55 |
| Hospital | 610 | Beds | 1.30 | | | 1.30 | 7.55 | 50% | 3.78 | 3.78 | 4.91 |
| Nursing Home | 620 | Beds | 0.22 | | | 0.22 | 7.55 | 50% | 3.78 | 3.78 | 0.83 |
| OFFICE | | | | | | | | | | | |
| Corporate Headquarters Building | 714 | 1,000 SF GFA | 1.40 | | | 1.40 | 10.92 | 50% | 5.46 | 5.46 | 7.64 |
| General Office Building | 710 | 1,000 SF GFA | 1.49 | | | 1.49 | 10.92 | 50% | 5.46 | 5.46 | 8.14 |
| Medical/Dental Office Single Tenant Office Building | 720 715 | 1,000 SF GFA 1,000 SF GFA | 3.72 | | | 3.72 1.73 | 10.92 10.92 | 50% 50% | 5.46 5.46 | 5.46 5.46 | 20.31 9.45 |
| Office/Business Park | 750 | 1,000 SF GFA | 1.73 | | | 1.73 | 10.92 | 50% | 5.46 | 5.46 | 8.19 |
| COMMERCIAL | 750 | 1,000 51 5171 | 1.50 | | | 1.50 | 10.72 | 3070 | 3.40 | 5.40 | 0.17 |
| Automobile Related | | | | | | | | | | | |
| Automobile Care Center | 942 | 1,000 SF GFA | 3.38 | 40% | В | 2.03 | 6.43 | 50% | 3.22 | 3.22 | 6.53 |
| Automobile Parts Sales | 843 | 1,000 SF GFA | 5.98 | 43% | A | 3.41 | 6.43 | 50% | 3.22 | 3.22 | 10.96 |
| Gasoline/Service Station | 944 | Fueling Position | 13.86 | 42% | A | 8.04 | 1.20 | 50% | 0.60 | 0.60 | 4.82 |
| Gasoline/Service Station w/ Conv Market Service Station w/ Conv Market and Car Wash | 945 946 | Fueling Position Fueling Position | 13.38 13.33 | 56% 56% | B A | 5.89 5.87 | 1.20 1.20 | 50% 50% | 0.60 | 0.60 | 3.53 3.52 |
| New and Used Car Sales | 841 | 1,000 SF GFA | 2.64 | 20% | B | 2.11 | 6.43 | 50% | 3.22 | 3.22 | 6.78 |
| Quick Lubrication Vehicle Center | 941 | Service Position | 5.19 | 40% | В | 3.11 | 6.43 | 50% | 3.22 | 3.22 | 10.00 |
| 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 | 5.03 | 28% | A | 3.62 | 6.43 | 50% | 3.22 | 3.22 | 11.64 |
| Dining | | | | | | | | | | | |
| Fast Food Restaurant with Drive-Thru | 934 | 1,000 SF GFA | 34.64 | 50% | A | 17.32 | 4.79 | 50% | 2.40 | 2.40 | 41.48 |
| Fast Food Restaurant without Drive-Thru | 933 | 1,000 SF GFA | 26.15 | 50% | В | 13.08 | 4.79 | 50% | 2.40 | 2.40 | 31.33 |
| High Turnover (Sit-Down) Restaurant Sit Down Restaurant | 932 931 | 1,000 SF GFA 1,000 SF GFA | 10.92 7.49 | 43% | A | 6.22 4.19 | 4.79 4.79 | 50% 50% | 2.40 | 2.40 2.40 | 14.90 10.04 |
| Other Retail | 731 | 1,000 SF GFA | 7.49 | 4470 | A | 4.17 | 4./9 | 2070 | 2.40 | 4.40 | 10.04 |
| Free-Standing Retail Store | 815 | 1,000 SF GFA | 5.06 | 30% | С | 3.54 | 6.43 | 50% | 3.22 | 3.22 | 11.38 |
| Garden Center (Nursery) | 817 | 1,000 SF GFA | 3.80 | 30% | В | 2.66 | 6.43 | 50% | 3.22 | 3.22 | 8.55 |
| Home Improvement Superstore | 862 | 1,000 SF GFA | 2.45 | 30% | В | 1.72 | 6.43 | 50% | 3.22 | 3.22 | 5.53 |
| Pharmacy/Drugstore | 881 | 1,000 SF GFA | 8.62 | 49% | A | 4.40 | 6.43 | 50% | 3.22 | 3.22 | 14.15 |
| Shopping Center | 820 | 1,000 SF GFA | 3.75 | 34% | A | 2.48 | 6.43 | 50% | 3.22 | 3.22 | 7.97 |
| Supermarket | 850 | 1,000 SF GFA | 10.45 | 36% | A | 6.69 | 6.43 | 50% | 3.22 | 3.22 | 21.51 |
| Toy/Children's Superstore Video Rental Store | 864 896 | 1,000 SF GFA 1,000 SF GFA | 4.99 13.60 | 30% 50% | B B | 3.49 6.80 | 6.43 | 50% 50% | 3.22 3.22 | 3.22 3.22 | 11.22 21.86 |
| SERVICES | 090 | 1,000 SF GFA | 13.00 | 3070 | ъ | 0.80 | 0.43 | 2070 | 3.44 | 3.44 | 41.00 |
| Bank (Walk-In) | 911 | 1,000 SF GFA | 33.15 | 40% | В | 19.89 | 3.39 | 50% | 1.70 | 1.70 | 33.71 |
| Bank (Drive In) | 912 | 1,000 SF GFA | 45.74 | 47% | A | 24.24 | 3.39 | 50% | 1.70 | 1.70 | 41.09 |
| | • | | • | | | | • | • | | | |

Key to Sources of Pass-by Rates: A: October 1998 ITE Trip Generation handbook

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

C: ITE rate adjusted upward by KHA based on logical relationship to other categories





VI. SAMPLE CALCULATIONS

The following section details two (2) examples of maximum assessable transportation impact fee calculations.

Example 1:

• Development Type - One (1) Unit of Single-Family Housing in Service Area C

| Transportation Impact Fee Calculation Steps – Example 1 | | |
|---|---|--|
| Step 1 | Determine Development Unit and Vehicle-Miles Per Development Unit | |
| | From Table 8 [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: 6.06 | |
| Step 2 | Determine Maximum Assessable Impact Fee Per Service Unit (Vehicle Mile) | |
| | From Table 7, Line 18 [Maximum Assessable Fee Per Service Unit] | |
| | Service Area C: \$640 | |
| Step 3 | Determine Maximum Assessable Impact Fee | |
| | Impact Fee = # of Development Units * Veh-Mi Per Dev Unit * Max. Fee Per Service Unit | |
| | Impact Fee = 1 * 6.06 * \$640 | |
| | Maximum Assessable Impact Fee = \$3,878.40 | |

Example 2:

• Development Type – 125,000 square foot Home Improvement Superstore in Service Area W

| Transportation Impact Fee Calculation Steps – Example 2 | | |
|---|--|--|
| Step 1 | Determine Development Unit and Vehicle-Miles Per Development Unit | |
| | From Table 8 [Land Use – Vehicle Mile Equivalency Table] | |
| | Development Type: 125,000 square feet of Home Improvement Superstore | |
| | Development Unit: 1,000 square feet of Gross Floor Area Veh-Mi Per Development Unit: 5.53 | |
| Step 2 | Determine Maximum Assessable Impact Fee Per Service Unit (Vehicle Mile) | |
| | From Table 7, Line 18 [Maximum Assessable Fee Per Service Unit] | |
| | Service Area W: \$121 | |
| Step 3 | Determine Maximum Assessable Impact Fee | |
| | Impact Fee = # of Development Units * Veh-Mi Per Dev Unit * Max. Fee Per Service Unit | |
| | Impact Fee = 125 * 5.53 * \$121 | |
| | Maximum Assessable Impact Fee = \$83,641.25 | |





VII. CONCLUSIONS

The City of Fort Worth has established a process to implement the assessment and collection of transportation impact fees through the adoption of an impact fee ordinance that is consistent with Chapter 395 of the Texas Local Government Code.

This report establishes the maximum allowable transportation impact fee that could be assessed by the City of Fort Worth, as shown in the previously referenced **Table 7**.

This document serves as a guide to the assessment of transportation impact fees pertaining to future development and the City's need for transportation improvements to accommodate that growth. Following the public hearing process, the City Council may establish an impact fee amount to be assessed (if any) up to the calculated maximum and establish the Transportation Impact Fee Ordinance accordingly.

In conclusion, it is our opinion that the data and methodology used in this analysis are appropriate and consistent with Chapter 395 of the Texas Local Government Code. Furthermore, the Land Use Assumptions and the proposed Capital Improvements Plan are appropriately incorporated into the development of the maximum assessable transportation impact fee.





APPENDICES

A. CONCEPTUAL LEVEL PROJECT COST PROJECTIONS

- SERVICE AREA A
- SERVICE AREA AA
- SERVICE AREA B
- SERVICE AREA C
- SERVICE AREA D
- SERVICE AREA E
- SERVICE AREA F
- SERVICE AREA G
- SERVICE AREA L
- SERVICE AREA M
- SERVICE AREA N
- SERVICE AREA O
- SERVICE AREA S
- SERVICE AREA T
- SERVICE AREA U
- SERVICE AREA W
- SERVICE AREA X
- SERVICE AREA Y
- SERVICE AREA Z

B. CIP SERVICE UNITS OF SUPPLY

C. EXISTING ROADWAY FACILITIES INVENTORY

- D. PLAN FOR AWARDING THE TRANSPORTATION IMPACT FEE CREDIT SUMMARY
- E. PLAN FOR AWARDING THE TRANSPORTATION IMPACT FEE CREDIT SUPPORTING EXHIBITS