# CITY OF ROUND ROCK, TEXAS 2023 ROADWAY IMPACT FEE STUDY UPDATED APRIL, 2024



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# Prepared for the City of Round Rock

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#### **EXECUTIVE SUMMARY**

#### Introduction

Impact Fees are a mechanism for funding the public infrastructure necessitated by new development. Across the country, they are used to fund police and fire facilities, parks, schools, roads and utilities. In Texas, the legislature has allowed their use for water, wastewater, roadway and drainage facilities. Since 1989, they have been used to fund public water and wastewater improvements in the City of Round Rock. In 2023, the City of Round Rock began performing an update to the Roadway Impact Fees last updated in 2021. In 2019, the land use assumptions and capital improvements plan were updated as part of the original study. The report was last updated in 2021 to reflect annexations and one minor project change.

In the most basic terms, impact fees are meant to recover the incremental cost of the impact of each new unit of development creating new infrastructure needs. In the case of Roadway Impact Fees, the infrastructure need is the increased capacity on arterial and collector roadways that serve the overall transportation system, which is based on the City of Round Rock Transportation Master Plan. The purpose of the 2023 Roadway Impact Fee Study Update 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. Per Chapter 395.052, the land use assumptions and capital improvements plan are required to be updated every five years. This report satisfies the first required update to the original 2019 Roadway Impact Fee Study.

Impact Fees are a mathematical calculation that determines a maximum impact fee that would be equivalent for growth paying for growth. The Maximum Roadway Impact Fee per Service Unit for Roadway Facilities is considered an appropriate measure of the impacts generated by a new unit of development on the City's Roadway System. An impact fee program is designed to be predictable for both the development community and City. An impact fee program is equitable since similar developments pay a similar fee regardless if they are the first or last to develop. An impact fee program is transparent because the maximum fee and collection rates are developed through a public process. This report describes in detail how the fee is calculated and how the Capital Improvement Advisory Committee (CIAC) monitors the Impact Fee program. An impact fee program



is flexible in that funds can be used on priority projects within service areas and not just on project adjacent to a specific development. An impact fee program is consistent with other City goals and objectives for growth. For example, the actual collection rate set by Council may be determined to be less than the Maximum Roadway Impact Fee to achieve and be in alignment with other City goals and objectives for growth.

#### Impact Fee Basics

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

#### Impact Fee Study

The 2023 Roadway Impact Fee Study Update determines the maximum impact fee per unit of new development chargeable as allowed by the state law. This determination is not a recommendation; the actual fee amount ultimately assessed is at the discretion of the Round Rock City Council, so long as it does not exceed the maximum assessable fee allowed 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 restudied at least every five years, per Chapter 395.052, which is the purpose of the 2023 Roadway Impact Fee Study Update. However, the study can be updated at any time 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 Roadway Impact Fees, the service area may not exceed 6 miles, per Chapter 395.001 (9). In Round Rock, this restriction necessitated the creation of 3 separate service areas in the original 2019 Roadway Impact Fee Study. During the 2023 Roadway Impact Fee Study Update, it was determined that due to additional annexations in the northeast area of the city that an additional service area would need to be created to comply with the 6-mile limit. This impacted Service Area B in the original study which was then split along existing and proposed Kenney Fort Boulevard. North of Palm Valley Boulevard, the area west of Kenney Fort Boulevard, the area east of Kenney



Fort Boulevard and new annexations have been reassigned as Service Area D. For the purposes of implementing roadway impact fees, collections on building permits with a plat recorded within the effective date range of the original ordinance shall utilize the 3-service area structure, maximum fees and collection rates. For any ordinances with effective dates after the adoption of this study the new 4 service area structure is anticipated to be used. A map of the 3 service areas can be found on Page 16. A map of the 4 service areas can be found on Page 17.

Kenney Fort was chosen as new Service Area D to minimize the possibility of requiring service areas in the future. This facility was a logical choice to as a major arterial facility and beneficial to be a boundary so that extensions and expansions included in the Roadway Impact Fee Capital Improvements Plan may be funded from collections and both service area B and D. Since each service area has a unique maximum impact fee, the per-unit maximum fee for an identical land use may vary from one service area to the next.

#### Land Use Assumptions

The Impact Fee determination is required to be based on the projected growth and corresponding capacity needs in a 10-year window. This study considers the years 2023-2033. Acknowledging that the parameters of the study (the corporate boundaries, Transportation Plan, Comprehensive Plan, zoning maps, platting history, etc.) are changing constantly, this study is based on conditions as they were on July 1, 2023.

One of the key elements in the determination of the impact fee is the amount of new development anticipated over 10 years. The residential and non-residential growth projections were performed using the Capital Area Metropolitan Planning Organization (CAMPO) Model projections from the Transportation Master Plan study finalized in 2023. Compared to the original 2019 Roadway Impact Fee Study, the 2023 Roadway Impact Fee Study Update projects a higher ratio of multifamily to single family residential development and a higher number of overall units, but a lower square footage of commercial growth over a 10-year period.

#### Roadway Impact Fee Capital Improvements Plan

The Roadway Impact Fee Capital Improvements Plan (RIF CIP) is distinct and separate from the City's traditional Capital Improvements Plan (CIP). The RIF CIP is a list of projects eligible for funding



through impact fees. The City's Transportation Master Plan is the plan for the infrastructure that is estimated to be necessary to accommodate the expected growth. Only capacity improvements within the city limits from the City's Transportation Master Plan are included in the RIF CIP. Capacity improvements may include the addition of lanes, intersection improvements, ITS capacity enhancements, or the extension of a new road. Resurfacing or other maintenance activities do not qualify as capacity improvements under impact fee law in Texas and cannot be funded with Roadway Impact Fees.

The cost of the RIF CIP is one of the fundamental factors in the calculation of the per-unit maximum impact fee. The RIF CIP's cost was calculated through systematic evaluation of each eligible project. The previous 2019 Roadway Impact Fee Study projects were evaluated to determine if they were already completed, or the scope of projects had changed in this update. The project team drove the City's collector and arterial roadway network to determine the project scope, the presence of any special conditions (such as the need for significant drainage improvements or railroad crossings) and whether various additional construction costs were applicable (such as costing for significant grades). In determining project limits, the team identified roadway segments with uniform need. For Example, New Hope Drive has a portion with half of a 4-lane undivided built from Sam Bass Road to Flowstone Lane, while the remainder east to Flowstone Lane is a new alignment. These were split as separate projects based on uniform need. Developing unit costs from recently City bid projects and TxDOT moving average bid prices, uniform costs were determined for the major items of work, additional construction items, and project delivery costs. Section III provides a listing of the 10-Year RIF CIP by service area in Tables 2.A – 2.D and maps of the RIF CIP by service area in Exhibits 2.A – 2.D. 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.

Only those projects listed in the RIF CIP are eligible to utilize impact fee funds. In some cases, an interim project designation was used due to the ultimate build out not being needed in the 10-year window. An example of this is University Boulevard east of A.W. Grimes Boulevard, which is shown as a 4- lane divided road widening in the RIF CIP, but ultimately will be built out to a 6-lane divided road based on the Transportation Master Plan.



Only the costs associated with providing the additional capacity at an anticipated level of service D necessitated by 10 years of growth can be used to calculate the maximum impact fee. To calculate the maximum impact fee, the total cost of the RIF CIP at build-out was reduced to account for (1) the portion of new capacity that will address existing needs, (2) the portion of new capacity that will not be necessitated until beyond the 10-year growth window, and (3) contributions already made by current developments. A ratio that compares 10 years' demand for capacity to the net supply of capacity (total new capacity in the RIF 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. The result is known as the recoverable cost of the RIF CIP.

#### Service Unit

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 2023 Roadway Impact Fee Study Update to quantify the supply and demand for roads in the city. For transportation purposes, the service unit is defined as a vehicle-mile. A vehicle-mile is the capacity consumed in a single lane in the PM peak hour by a vehicle making a trip one mile in length. The PM Peak is used as the basis for transportation planning and the estimation of trips caused by new development. In accordance with the Institute of Transportation Engineers (ITE) *Trip Generation Manual*, 11th Edition, the PM peak is used as the basis for transportation planning and the estimation of trips caused by new development.



#### Impact Fee Calculation

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

In the original 2019 Roadway Impact Fee Study, the maximum fee the city imposed was limited to service area C at \$2,511 per base service unit. Service area C was chosen since it had the lowest maximum fee. This decision was made to ease the burden on development. Additionally, this resulted in the same fee being charged citywide regardless of location which was seen as simpler.

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 9. A detailed discussion of the calculation precedes Table 8, found on Page 47.

#### Collection and Use of Roadway Impact Fees

Roadway 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. Roadway 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 in the designated service area or must be refunded with interest. Fees should be utilized in a first in, first out basis.



#### **Adoption Process**

Chapter 395 of the Texas Local Government Code stipulates a specific process for the adoption of Roadway Impact Fees. A Capital Improvements Advisory Committee (CIAC) is required to review the Land Use Assumptions and RIF CIP used in calculating the maximum fee, and to provide the Committee's findings for consideration by the City Council. The CIAC also reviews the Roadway Impact Fee ordinance and provides its findings to the City Council. The composition of the CIAC is required to adequately represent the building and development communities, per Chapter 395.058. The City Council then conducts a public hearing on the Land Use Assumptions, RIF CIP and Impact Fee Ordinance. One public hearing is required for the 2023 Roadway Impact Fee Study Update, per Chapter 395.054.

During adoption of the previous study, it was determined that phasing in the collection fee rate would help ease the burden on development by the then current city council. The adopted fee was determined to be 30 percent of that maximum for residential developments and 20 percent for non-residential developments with plat issued before January 1st, 2022, in Phase 1. The fee increased to 45 percent for residential developments and 25 percent for non-residential developments for final plat dates between January 1st, 2022, and before December 31, 2023, in Phase 2. Additionally, the fee increased to 60 percent for residential developments and 30 percent for non-residential for final plate dates after January 1st, 2024, in Phase 3. The ordinance collection rates established can be found on Page 8.

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



#### 2023 Roadway Impact Fee Study Update Results

Below are the listing of the 2019 Roadway Impact Fee Study and 2023 Roadway Impact Fee Study Update's Maximum Assessable Impact Fee Per Service Unit (Vehicle-Mile) in comparison:

	2019 Maximum	2023 Maximum
Service	Fee Per Service	Fee Per Service
Area	Unit	Unit
	(per Vehicle-Mile)	(per Vehicle-Mile)
Α	\$2,678	\$5,740
В	\$2,933	\$4,765
С	\$2,511	\$3,818
D	-	\$4,156

Below are the ordinance collection rates established by year for residential and non-residential:

Effective Date (Plat Date)	Residential Rates	Non-Residential Rates
Phase I	\$753 / service unit	\$503 / service unit
Phase 2	\$1,130 / service unit	\$628 / service unit
Phase 3	\$1,507 / service unit	\$753 / service unit

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#### I. INTRODUCTION

Chapter 395 of the Texas Local Government Code describes the procedure political subdivisions must follow to create and implement impact fees. Chapter 395 define an Impact Fee as "a charge or assessment imposed by a political subdivision against new development to generate revenue for funding or recouping the costs of capital improvements or facility expansions necessitated by and attributable to the new development."

The City has retained Kimley-Horn and Associates, Inc. to provide professional transportation engineering services for the 2023 Roadway Impact Fee Study Update. This report includes details of the Roadway Impact Fee calculation methodology in accordance with Chapter 395, the applicable Land Use Assumptions, development of the Roadway Impact Fee RIF CIP, and the Land Use Equivalency Table.

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

- 1) Land Use Assumptions (Pg. 11)
- 2) Roadway Impact Fee Capital Improvements Plan (RIF CIP) (Pg. 19) Information from these Land Use Assumptions and RIF CIP is used extensively throughout the remainder of the report.

There is a detailed discussion of the methodology for the computation of impact fees. This discussion is broken into three components:

- 1) Methodology for Roadway Impact Fees (Pg. 29)
- 2) Roadway Impact Fee Calculation (Pg. 47)
- 3) Plan for Financing and the Ad Valorem Tax Credit (Pg. 49) (Reference Section V.B. "Plan for Financing and the Ad Valorem Tax Credit")



The components of the Computation Method for Roadway Impact Fee include development of:

- Service Areas (Pg. 29)
- Service Units (Pg. 29)
- Cost Per Service Unit (Pg. 32)
- RIF CIP Costing Methodology (Pg. 34)
- Summary of RIF CIP Costs (Pg. 36)
- Service Unit Calculation (Pg. 41)

The Roadway Impact Fee is then calculated as:

- Maximum Assessable Impact Fee Per Service Unit (Pg. 47)
- Service Unit Demand Per Unit of Development (Pg. 55)

The report also includes a section concerning the Plan for Financing and the Ad Valorem Tax Credit. 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 RIF CIP. This plan, prepared by NewGen Strategies, and upon which we relied, details the maximum assessable impact fee per service unit the City of Round Rock 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 residential and employment growth projections within a municipality. As defined by Chapter 395 of the Texas Local Government Code, these assumptions include a description of changes in land uses, densities, and development in the service area. The land use assumptions are then used in determining the need and timing of transportation improvements to serve future development.

This report documents the process used to develop the Land Use Assumptions for the City of Round Rock's Roadway Impact Fee (RIF) study. In accordance with Chapter 395 of the Texas Local Government Code, roadway impact fees must be calculated based on reasonable expectations of residential and employment growth within the next ten years (2023 – 2033).

Information from the following sources was compiled to complete the Land Use Assumptions:

- Transportation Master Plan 2023 Update
- CAMPO 2045 Plan
- City of Round Rock Historical Building Permit Data 2013-2017
- City of Round Rock staff
- Current planned development projects
- Parks and Trails System map



This Land Use Assumptions Summary includes the following components:

- Land Use Assumptions Methodology An overview of the general methodology used to generate the land use assumptions.
- Roadway Impact Fee Service Areas Explanation of the division of Round Rock into service areas for roadway and infrastructure facilities.
- Residential and Employment Growth Data on residential and employment growth within the service area over the next ten years (2023 – 2033).
- Land Use Assumptions Summary Table A synopsis of the Land Use Assumptions.

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

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

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 which 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 offices.

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

The above categories in the Land Use Assumptions match those used to develop the travel demand model for the City of Round Rock. These broader categories are used in the development of the assumptions for impact fees; however, expanded classifications used in the assessment of impact fees are found in the Land Use / Vehicle-Mile Equivalency Table (Pg. 57).



#### B. Land Use Assumptions Methodology

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

- Character, type, density, and quantity of existing development;
- Emerging Projects;
- Growth trends;
- Location of vacant land;
- Physical restrictions (i.e. flood plains, railroads); and
- Carrying Capacity (Growth Potential) of the City of Round Rock.

Determination of the ten-year growth within the Roadway Impact Fee study area was accomplished through two general steps:

- Step 1: Determine Base Year (2023)
- Step 2: Determine 10-Year Growth Projections

Step 1: Determine Base Year (2023)

Traffic Analysis Zone (TAZ) data obtained from the CAMPO 2045 model was used to determine the 2023 residential units and employment square footage.

Residential units and basic, retail, and service employment data were interpolated to the year 2023 based on the 2010 base year and 2045 future year data in the CAMPO model. A conversion of square footage per employee was utilized to determine the number of units for non-residential land uses based on *ITE Trip Generation Manual*. Residential units were broken out into a split of 60% multifamily units and 40% single family units.



Step 2: Determine 10-Year Growth Projections

The CAMPO 2045 model was also used to determine carrying capacity using the same methodology as the 2023 base year. Growth rates for 2015 to 2045 were applied to the 2023 base year to determine growth for the City of Round Rock over the next 10 years to 2033. Growth rates for employment were converted to square footage using typical figures for employees per 1,000 square feet for each employment type. The growth rates for both residential and non-residential (employment) were then applied to the 2023 base year estimates and projected 10 years into the future to 2033. Finally, the 2033 projections were compared to historical building permit data from 2011 to 2017 to calibrate growth projections from the CAMPO 2045 Model and validate the 10-year growth assumptions.

From 2013 to 2017, 4,618 dwelling units were constructed and approximately 9,700,000 square feet of non-residential space was constructed in the City of Round Rock. The average of the historical trends (assuming growth rate for 5 years from 2013 to 2017 continues from 2023 to 2033) and the CAMPO 2045 Model were used to determine growth projections. Finally, planned large projects were also added to the average of the CAMPO 2045 Model and historical trends to further calibrate the Land Use Assumptions shown in Table 1.

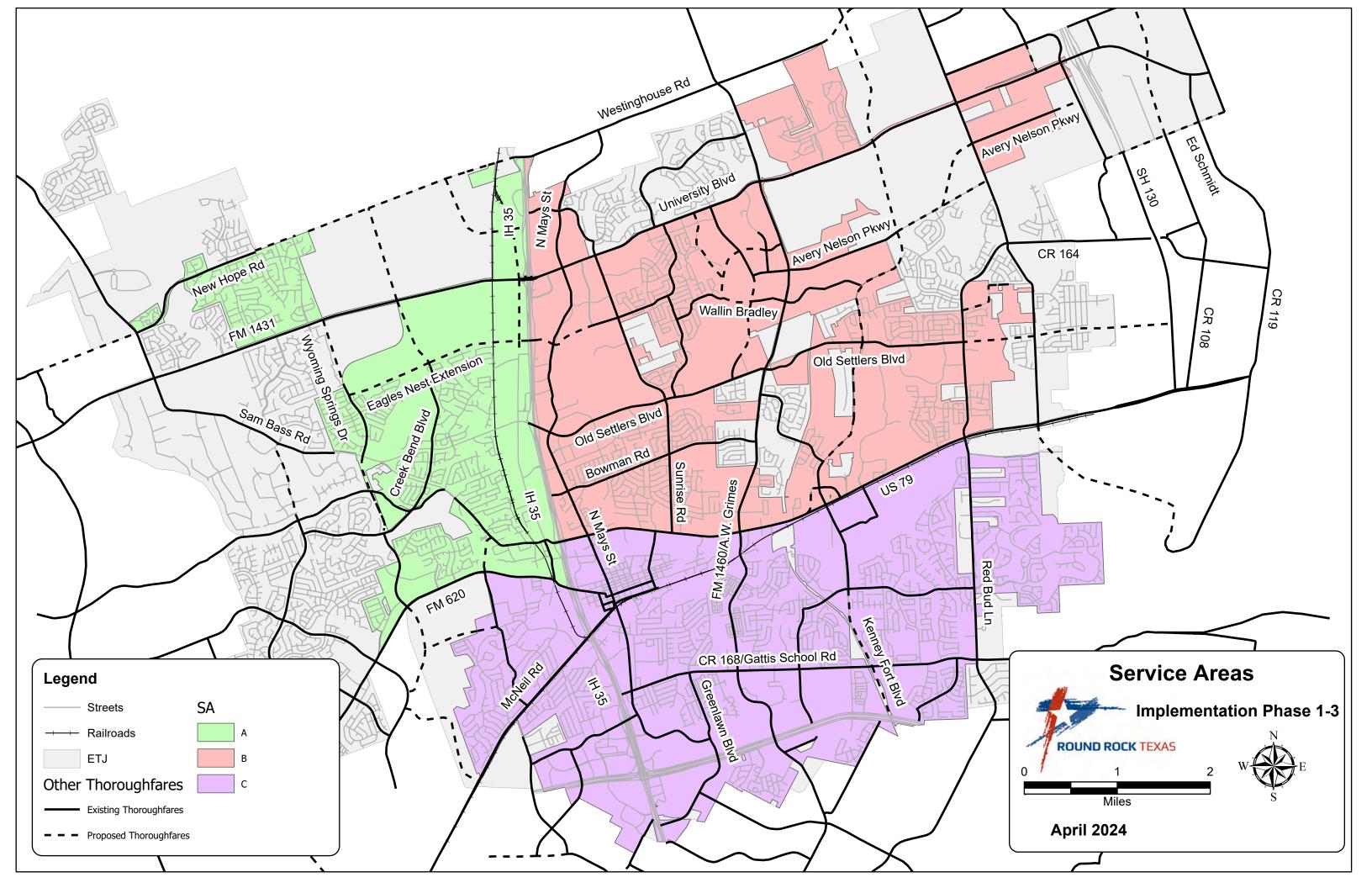


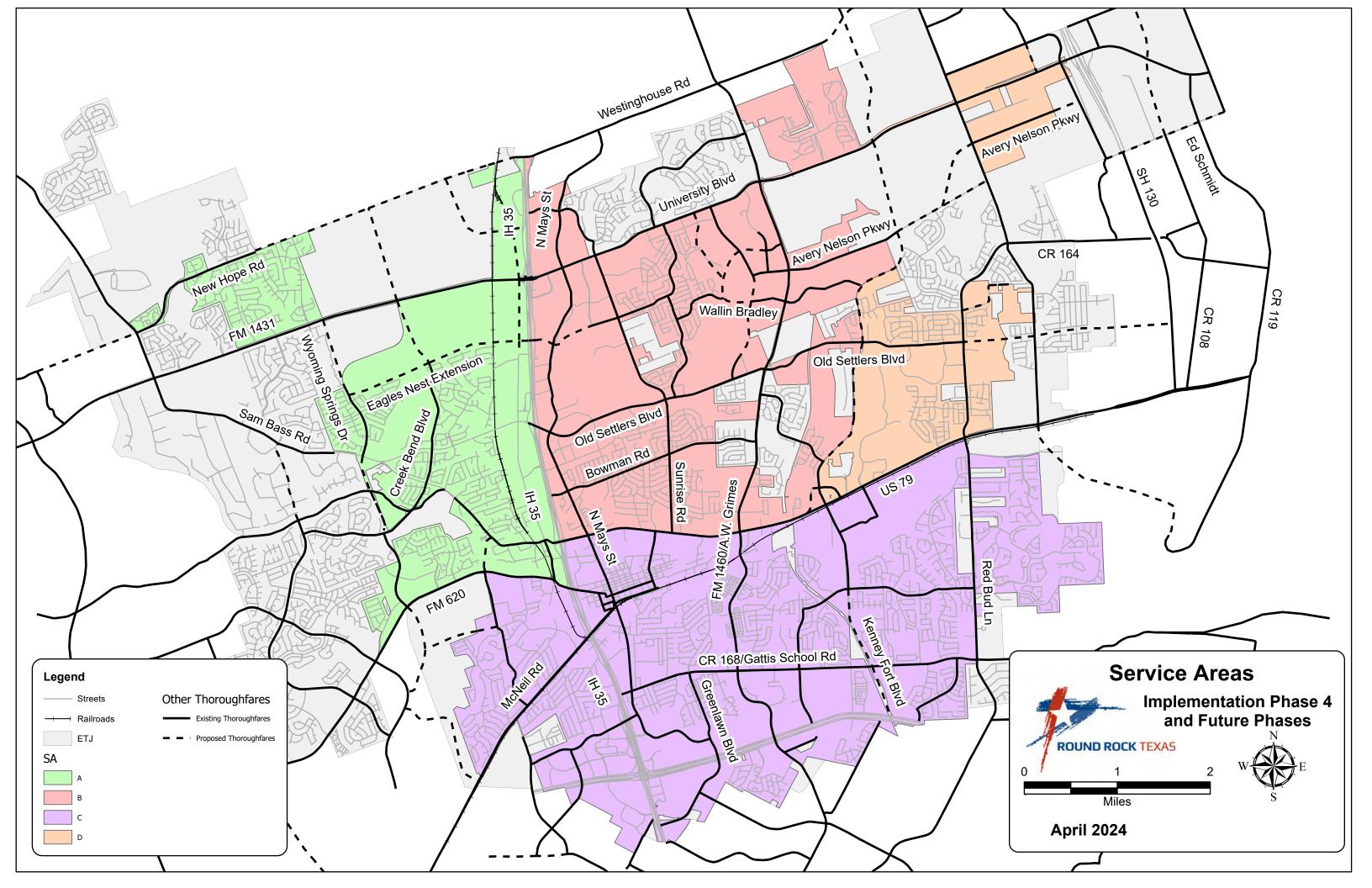
#### C. Roadway Impact Fee Service Areas

The geographic boundary of the proposed impact fee service areas for transportation facilities is shown in *Exhibit 1* and *Exhibit 2*. For Roadway Impact Fees, the service area may not exceed 6 miles, per Chapter 395.001 (9) of the Texas Local Government Code. In Round Rock, this restriction necessitated the creation of 3 separate service areas in the original 2019 Roadway Impact Fee Study. During the 2023 Roadway Impact Fee Study Update, it was determined that due to annexations in the northeast area of the city that an additional service area would be needed to comply with the 6-mile limit. Service Area B from the 2019 Roadway Impact Fee Study was split along existing and proposed Kenney Fort Boulevard to comply with the 6-mile limit. The area west of Kenney Fort Boulevard from the original Service Area B remains as Service Area B in this study. The area east of Kenney Fort Boulevard has been reassigned as Service Area D. For the purposes of implementing roadway impact fees, collections on building permits with a plat recorded within the effective date range of the original ordinance shall utilize the 3 service area structure, maximum fees and collection rates. For any ordinances with effective dates after the adoption of this study the new 4 service area structure is anticipated to be used.

Kenney Fort was chosen as new Service Area D to minimize the possibility of requiring additional service areas in the future. This facility was a logical choice as a major arterial facility and beneficial to be a boundary so that extensions and expansions included in the Roadway Impact Fee Capital Improvements Plan may be funded from collections from both Service Area B and Service Area D. Since each service area has a unique maximum impact fee, the per-unit maximum fee for an identical land use may vary from one service area to the next.

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







## D. Land Use Assumptions Summary

Table 1 summarizes the residential and employment 10-year growth projections.

Table 1. Residential and Employment 10-Year Projections

Service		Residential (Units)		Employment (Sq. Ft.)			
Area	Year	Single Family	Multi- Family	Basic	Service	Retail	Total
А		2,127	1,418	500,000	1,100,000	300,000	1,900,000
В		2,259	1,506	700,000	600,000	200,000	1,500,000
С	2023- 2033	3,250	717	0	3,925,000	400,000	4,325,000
D		2,750	340	0	220,000	80,000	300,000
Total		10,387	3,981	1,200,000	5,845,000	980,000	8,025,000



#### III. ROADWAY IMPACT FEE CAPITAL IMPROVEMENTS PLAN

The City has identified the transportation projects needed to accommodate the projected growth within the City. The City's Transportation Master Plan is the plan for the infrastructure that is estimated to be necessary to accommodate the expected growth. The Roadway Impact Fee Capital Improvements Plan (RIF CIP) consists of 5 categories of projects. They are as follows:

- Previously Constructed Identified corridors that were previously constructed and have access capacity for future development to utilized.
- Widening Existing roadways not currently built to the ultimate class in the
   Transportation Master Plan and must be completely reconstructed
- ½ Widening Existing roadways that have built half of a 4-lane or 6-lane divided roadway previously and only need one side of the roadway to be built
- Access Management Existing 5 Iane undivided roadways identified for median construction in the existing center turn Iane for access management purposes.
- New All future roadways needed to complete the Transportation Master Plan

The RIF CIP includes arterial class roadway facilities, collector facilities as well as major intersection improvements. All the roadway facilities identified are included in the Transportation Master Plan except for some roadway alignment modifications due to city direction. Through evaluation of the Transportation Master Plan with City staff, some facilities were identified that were upgraded or downgraded from their functional classification to reflect capacity need in a 10-year window.



Major intersection improvements were identified in the Transportation Master Plan. Some improvements were left off because they did not specify capacity improvements, and some were added based on field observed need and confirmation from city staff. Improvements were categorized as follows:

- Signal either a new signal or modification to an existing signal due to construction of a new roadway approach to an existing signalized intersection
- Intersection Improvement construction of an intersection improvement to be determined after complete analysis
- Turn Lanes addition or extension of a turn lane consistent with ASDG, TxDOT, and NCHRP Report 780 turn lane length recommendations.
- Other a catch-all for other improvements, limited to new turn lanes, bond project recommendations not in the other 3 categories, removing split phasing at intersections, and special intersections (Continuous Flow Intersections (CFI), Diverging Diamond Intersections (DDI), or grade separation improvements)
- Update ITS and Traffic Management Infrastructure This item was identified in the Transportation Master Plan and was split evenly between the four (4) service areas for developing the roadway impact fee.

All intersection improvement recommendations are recommended to undergo a design level evaluation before implementation to ensure the most appropriate improvements are made. In the case where a design level evaluation determines improvements contrary to the RIF CIP, such as turn lane improvements in place of a signal, the RIF CIP cost allocated to the intersection may still be applied to the alternate improvements.

The proposed RIF CIP is listed in Tables 2.A - 2.D and mapped in Exhibits 2.A - 2.D. The tables show the length of each project as well as the facility's typology. The RIF CIP was developed in conjunction with input from City of Round Rock staff and represents projects that will be needed to accommodate the growth projected in the Land Use Assumptions section of this report.



Table 2.A. 10-Year Roadway Impact Fee Capital Improvements Plan – Service Area A

Service Area	Proj. #	IF Class	Roadway	Limits	Length (mi)	% In Service Area
	A-1	4 Lane - Enhanced (1/2)	New Hope Rd (1)	Sam Bass Rd to CR 175	1.10	100%
	A-2	4 Lane - Enhanced (1/2)	New Hope Rd (2)	240' W of Lagoona Dr to Flowstone Ln	0.55	50%
	A-3	4 Lane - Proposed	New Hope Rd (3)	Flowstone Ln to 1000' E of Wyoming Springs Dr	0.46	50%
	A-4, B-1	6 Lane - Enhanced	Westinghouse Rd	IH 35 SBFR to IH 35 NBFR	0.19	50%
	A-7	6 Lane - Enhanced	RM 1431 (1)	1100' W of Mayfield Ranch Blvd to 850' E of Stone Oak Dr	0.97	50%
	A-8	6 Lane - Enhanced	RM 1431 (2)	850' E of Stone Oak Dr to 5195' E of Stone Oak St	0.82	100%
	A-9	6 Lane - Enhanced	RM 1431 (3)	5195' E of Stone Oak St to IH 35 SBFR	1.34	50%
	A-10	4 Lane - Enhanced (1/2)	Wyoming Springs Dr (3)	390' N of Goldenoak Cir to Alondra Way	0.13	100%
	A-11	4 Lane - Proposed	Eagles Nest Dr (1)	Wyoming Springs Dr to Chisholm Trl Rd (Future)	1.73	100%
	A-12	4 Lane - Enhanced (1/2)	Creek Bend Blvd (1)	RM 1431 to West End Pl	0.79	100%
	A-13	4 Lane - Proposed	Creek Bend Blvd (2)	West End Pl to Camino Del Verdes Pl	0.14	100%
	A-14	4 Lane - Proposed	Chisholm Trl Rd (1)	RM 1431 to CR 173	0.76	100%
	A-15, B-11	4 Lane - Proposed	Eagles Nest Dr (2)	Chisholm Trl Rd (Future) to IH 35 NBFR	0.17	100%
	A-16	5 Lane - Enhanced	CR 173	IH 35 SBFR to 3250' N of Wolle Ln	0.10	100%
A	A-17	5 Lane - Enhanced	Chisholm Trl Rd (2)	3250' N of Wolle Ln to 1980' N of Wolle Ln	0.24	100%
SA ,	A-21	3 Lane - Enhanced	Sam Bass Rd (3)	FM 3406 to Desert Willow Dr	0.35	50%
· ·	A-22	3 Lane - Enhanced	Sam Bass Rd (4)	Desert Willow Dr to Creek Bend Blvd	0.19	100%
	A-23	3 Lane - Enhanced	Sam Bass Rd (5)	Creek Bend Blvd to Hairy Man Dr	0.21	100%
	A-24	3 Lane - Enhanced	Sam Bass Rd (6)	Hairy Man Rd to Chisholm Trl Rd	1.33	50%
	A-26	4 Lane - Proposed	Wyoming Springs Dr (4)	Sam Bass Rd to Creek Bend Blvd	0.88	100%
	A-28	4 Lane - Enhanced	Creek Bend Blvd (3)	Brushy Creek to Wyoming Springs Dr	0.40	100%
	A-29	4 Lane - Proposed	Deepwood Dr (1)	Sam Bass Rd to 345' N of RM 620	0.34	100%
	A-30	4 Lane - Enhanced	Deepwood Dr (2)	345' N of RM 620 to RM 620	0.07	100%
	A-31, C-1	6 Lane - Enhanced	RM 620	Deepwood Dr to IH 35 SBFR	0.93	50%
		Intersection	Location	Improve ment(s)		% In Service Area
	AI-1	. sec	Sam Bass Rd and FM 3406	SIGNAL		100%
	AI-2	pro pro	Sam Bass Rd and Hairy Man Rd	INTERSECTION IMPROVEMENT		75%
	AI-3	<u> </u>	Sam Bass Rd and Chisholm Trl Rd	TURN LANES		100%
	-		Update ITS and Traffic Managmenet Infrastructure	-		25%

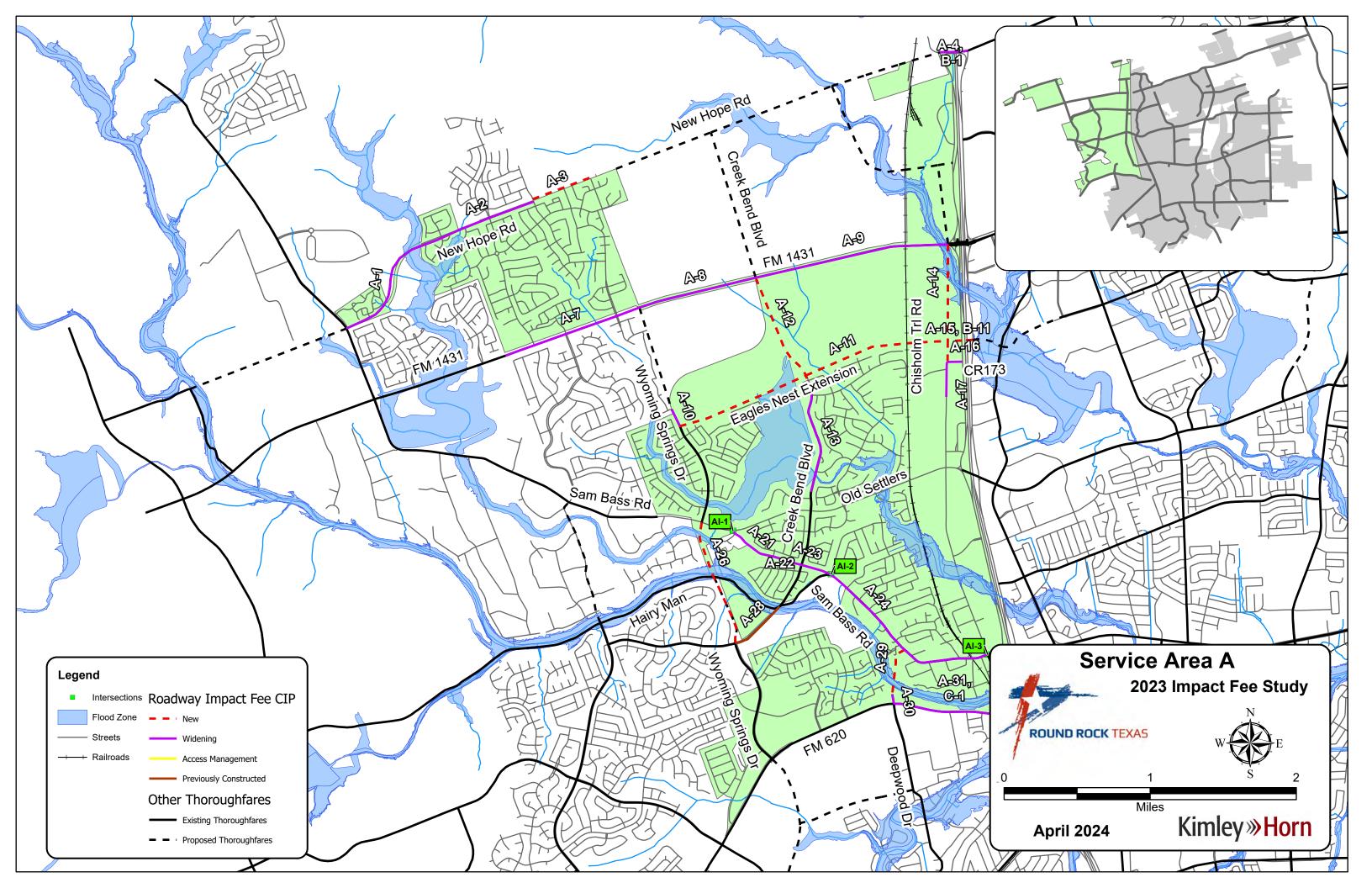




Table 2.B. 10-Year Roadway Impact Fee Capital Improvements Plan – Service Area B

Service Area	Proj. #	IF Class	Roadway	Limits	Length (mi)	% In Service Area
	A-4, B-1	6 Lane - Enhanced	Westinghouse Rd (1)	IH 35 SBFR to IH 35 NBFR	0.19	50%
	B-4	6 Lane - Enhanced	University Blvd (1)	University Oaks Blvd to 335' W of Sunrise Dr	0.49	100%
	B-5	6 Lane - Enhanced	University Blvd (2)	335' W of Sunrise Dr to A.W. Grimes Blvd	2.03	50%
	B-6	4 Lane - Enhanced	University Blvd (3)	A.W. Grimes Blvd to 1830' E of A.W. Grimes Blvd	0.36	100%
ľ	B-7	4 Lane - Enhanced	University Blvd (4)	1830' E of A.W. Grimes Blvd to Lunata Way	0.78	50%
1	B-8	4 Lane - Enhanced	University Blvd (5)	Lunata Way to Kenney Fort Blvd (Future)	0.16	100%
	B-9	4 Lane - Enhanced	N Mays St (2)	350' S of University Blvd to 2000' S of University Blvd	0.31	100%
	A-15, B-11	4 Lane - Proposed	Eagles Nest (1)	Chisholm Trl Rd (Future) to IH 35 NBFR	0.08	50%
	B-12	4 Lane - Proposed	Eagles Nest (2)	IH 35 NBFR to Cypress Blvd	0.69	100%
i	B-13	4 Lane - Enhanced	N Mays St (4)	Paloma Dr to 540' N of Steam Way	0.27	100%
l	B-15	4 Lane - Enhanced (AM)	Sunrise Rd (2)	Hidden Valley Dr to 325' S of Eagles Nest St	0.54	100%
	B-16	4 Lane - Enhanced (AM)	Sunrise Rd (3)	325' S of Eagles Nest St to Applegate Cir	0.30	50%
	B-17	4 Lane - Enhanced (AM)	Sunrise Rd (4)	Applegate Cir to Lake Dr	0.20	100%
l i	B-18	4 Lane - Enhanced (AM)	Sunrise Rd (5)	Lake Dr to 545' S of Lake Dr	0.10	50%
	B-19	4 Lane - Enhanced (AM)	Sunrise Rd (6)	545' S of Lake Dr to Old Settlers Blvd	0.40	100%
l i	B-21	4 Lane - Proposed	Wallin Bradley (2)	College Park (Future) to A.W. Grimes Blvd	0.37	100%
ľ	B-22	4 Lane - Proposed	College Park (2)	Avery Nelson Rd to 1355' N of Old Settlers Blvd	0.91	100%
l	B-23	3 Lane - Existing	Seton Pkwy	2400' N of Avery Nelson Blvd to Avery Nelson Blvd	0.45	100%
	B-24	4 Lane - Proposed	Medical Center Pkwy	College Park to Seton Pkwy	0.27	100%
l	B-25	4 Lane - Enhanced	Avery Nelson Pkwy (1)	A.W. Grimes Blvd to 3580' E of A.W. Grimes Blvd	0.68	100%
l	B-26	4 Lane - Enhanced	Avery Nelson Pkwy (2)	3580' E of A.W. Grimes Blvd to Kenney Fort Blvd (Future)	0.57	50%
	B-27, D-7	6 Lane - Proposed	Kenney Fort Blvd (1)	CR 117 to 145' N of Haselwood Ln	0.58	100%
SA B	B-28, D-9	6 Lane - Proposed	Kenney Fort Blvd (3)	200' N of Bluffstone Dr to Old Settlers Blvd	0.36	100%
S.	B-31	6 Lane - Enhanced (1/3)	Old Settlers Blvd (1)	N Mays St to Sunrise Rd	1.33	100%
ľ	B-32	6 Lane - Enhanced	Old Settlers Blvd (2)	Sunrise Rd to A.W. Grimes Blvd	1.13	100%
ı	B-34	4 Lane - Enhanced (AM)	N Mays St	540' N of Steam Way to Northwest Dr	1.42	100%
ľ	B-35	4 Lane - Enhanced (AM)	Sunrise Rd (7)	Old Settlers Blvd to Country Aire Dr	0.28	100%
l i	B-36	6 Lane - Enhanced	FM 1460 (A.W. Grimes Blvd) (1)	Old Settlers Blvd to 375' S of Chandler Creek Blvd	0.35	100%
ľ	B-37	6 Lane - Enhanced	FM 1460 (A.W. Grimes Blvd) (2)	375' S of Chandler Creek Blvd to 1250' N of Tiger Trl	0.20	50%
ı	B-38	6 Lane - Enhanced	FM 1460 (A.W. Grimes Blvd) (3)	1250' N of Tiger Trl to US 79	1.25	100%
ľ	B-39, D-10	6 Lane - Proposed (1/2)	Kenney Fort Blvd (4)	Old Settler's Blvd to 2540' S of Old Settler's Blvd	0.30	100%
l	B-40, D-11	6 Lane - Proposed	Kenney Fort Blvd (5)	Old Settler's Blvd to 2540' S of Old Settler's Blvd	0.18	50%
l	B-41, D-12	6 Lane - Proposed	Kenney Fort Blvd (6)	2540' S of Old Settlers Blvd to Chandler Creek Blvd	0.36	100%
	B-42, D-14	6 Lane - Enhanced	Kenney Fort Blvd (7)	Chandler Creek Blvd to Joe DiMaggio Blvd	0.30	100%
ľ	B-46, C-6	6 Lane - Enhanced	US 79 (1)	IH 35 NBFR to AW Grimes	1.96	50%
	B-47	6 Lane - Enhanced	US 79 (3)	200' E of Red Bud Ln to 1690' E of Red Bud Ln	0.28	50%
l	B-48	3 Lane - Proposed	Joe Dimaggio Blvd Extension	Kenney Fort Blvd to US 79	0.39	100%
ı	B-49	3 Lane - Proposed	Wallin Bradley (1)	College Park Dr to College Park Dr	0.81	100%
l	B-50	4 Lane - Proposed	Wallin Bradley (3)	A.W. Grimes Blvd to Kenney Fort Blvd (Future)	1.01	100%
ı	B-51, C-28	6 Lane - Enhanced	US 79 (2)	AW Grimes to Red Bud Ln	2.63	50%
		Intersection Improvement s	Location	Improvement(s)		% In Service Area
İ	BI-4, CI-8	pr.	A.W. Grimes Blvd and Palm Valley Blvd	OTHER & TURN LANES		50%
i i	-	五 五	Update ITS and Traffic Managmenet Infrastructure			25%

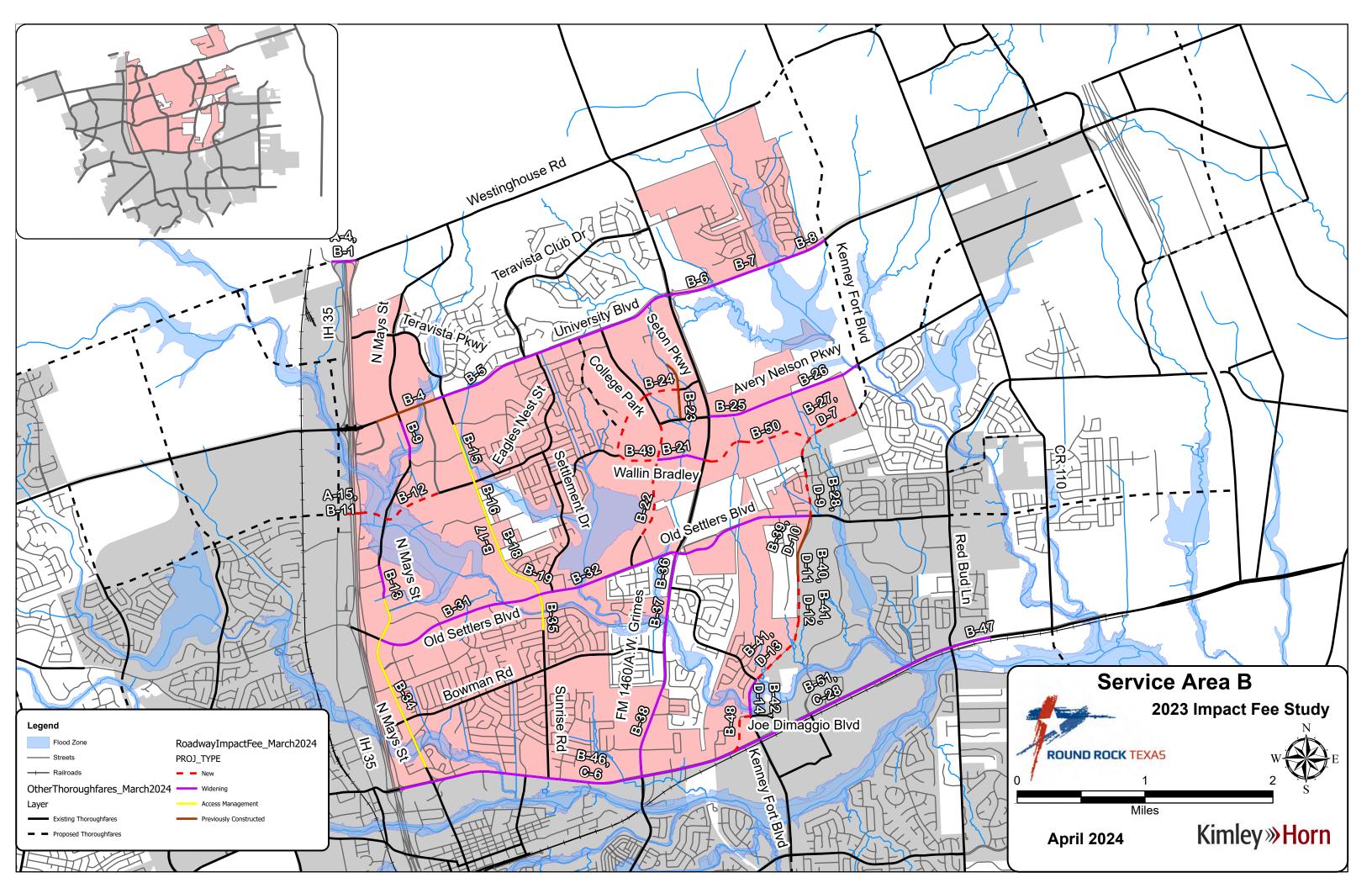




Table 2.C. 10-Year Roadway Impact Fee Capital Improvements Plan – Service Area C

Service Area	Proj. #	IF Class	Roadway	Limits	Length (mi)	% In Service Area
	A-31, C-1	6 Lane - Enhanced	RM 620	Deepwood Dr to IH 35 SBFR	0.93	50%
	C-3	4 Lane - Enhanced	CR 172 (2)	Hesters Crossing Rd to 445' N of Hesters Crossing Rd	0.08	50%
	C-4	4 Lane - Enhanced (AM)	Hesters Crossing Rd	Dry Creek Dr to IH 35 SBFR	0.32	100%
	C-5	4 Lane - Enhanced	Bratton Ln	IH 35 SBFR to 1160' S of Michael Angelo Way	0.42	50%
	B-46, C-6	6 Lane - Enhanced	US 79 (1)	IH 35 NBFR to 200' E of Red Bud Ln	1.96	50%
	C-7	3 Lane - Existing	McNeil Extension	S Mays St to Georgetown St	0.52	100%
	C-8	4 Lane - Enhanced (AM)	S Mays St	Nash St to Gattis School Rd	0.69	100%
	C-10	6 Lane - Proposed	Kenney Fort Blvd (2)	Forest Creek Dr to 830' S of Gattis School Rd	1.04	100%
	C-11	4 Lane - Enhanced (AM)	Red Bud Ln (1)	Forest Ridge Blvd to 265' S of Forest Ridge Blvd	0.05	50%
	C-12	4 Lane - Enhanced	Red Bud Ln (2)	265' S of Forest Ridge Blvd to 280' S of Woodlawn Ln	0.11	100%
	C-13	4 Lane - Enhanced	Red Bud Ln (3)	280' S of Woodlawn Ln to 130' S of Old Oaks Dr	0.10	50%
	C-14	4 Lane - Enhanced	Red Bud Ln (4)	130' S of Old Oaks Dr to 315' S of Country Dr	0.11	100%
	C-15	4 Lane - Enhanced	Red Bud Ln (5)	315' S of Country Dr to Wildflower Trl	0.10	50%
	C-16	4 Lane - Enhanced	Red Bud Ln (6)	Wildflower Trl to 295' S of Wildflower Trl	0.06	100%
	C-17	4 Lane - Enhanced	Red Bud Ln (7)	295' S of Wildflower Trl to 840' N of Forest Creek Dr	0.55	50%
	C-18	4 Lane - Enhanced	Red Bud Ln (8)	840' N of Forest Creek Dr to 340' S of Forest Creek Dr	0.22	100%
C	C-19	4 Lane - Enhanced	Red Bud Ln (9)	340' S of Forest Creek Dr to Gattis School Rd	0.71	50%
$\mathbf{S}\mathbf{A}$	C-20	6 Lane - Enhanced	Gattis School Rd (1)	S Mays St to Windy Park Dr	1.23	100%
	C-21	6 Lane - Enhanced	Gattis School Rd (2)	Windy Park Dr to Red Bud Ln	2.82	100%
	C-22	4 Lane - Enhanced (AM)	S Mays St / Dell Way	Gattis School Rd to Greenlawn Blvd	1.24	100%
	C-23	6 Lane - Proposed	Kenney Fort Blvd (3)	830' S of Gattis School Rd to SH 45	0.41	100%
	C-24	6 Lane - Enhanced (1/3)	Greenlawn Blvd	IH 35 NBFR to SH 45 EBFR	1.86	100%
	C-26	4 Lane - Enhanced	Schultz (1)	SH 45 EBFR to 290' S of SH 45 EBFR	1.45	100%
	C-27	4 Lane - Enhanced	Schultz (2)	290' S of SH 45 EBFR to 255' S of Autumn Sage Way	0.50	50%
	B-51, C-28	6 Lane - Enhanced	US 79 (2)	AW Grimes to Red Bud Ln	2.63	50%
						% In
			Location	Improve ment(s)		Service
		\$2		_		Area
	CI-5	oo ne	Mays St and Liberty Ave	SIGNAL		100%
	CI-7	cti.	Greenlawn Blvd and Louis Henna Blvd (SH 45 FR)	OTHER		100%
	BI-4, CI-8	Intersection Improvements	A.W. Grimes Blvd and Palm Valley Blvd	OTHER & TURN LANES		50%
	CI-10	m ite	Red Bud Ln and Gattis School Rd	TURN LANES		100%
	CI-11	44	E McNeil Rd and Oakridge Dr	INTERSECTION IMPROVEMENT		100%
	-		Update ITS and Traffic Managmenet Infrastructure	-		25%

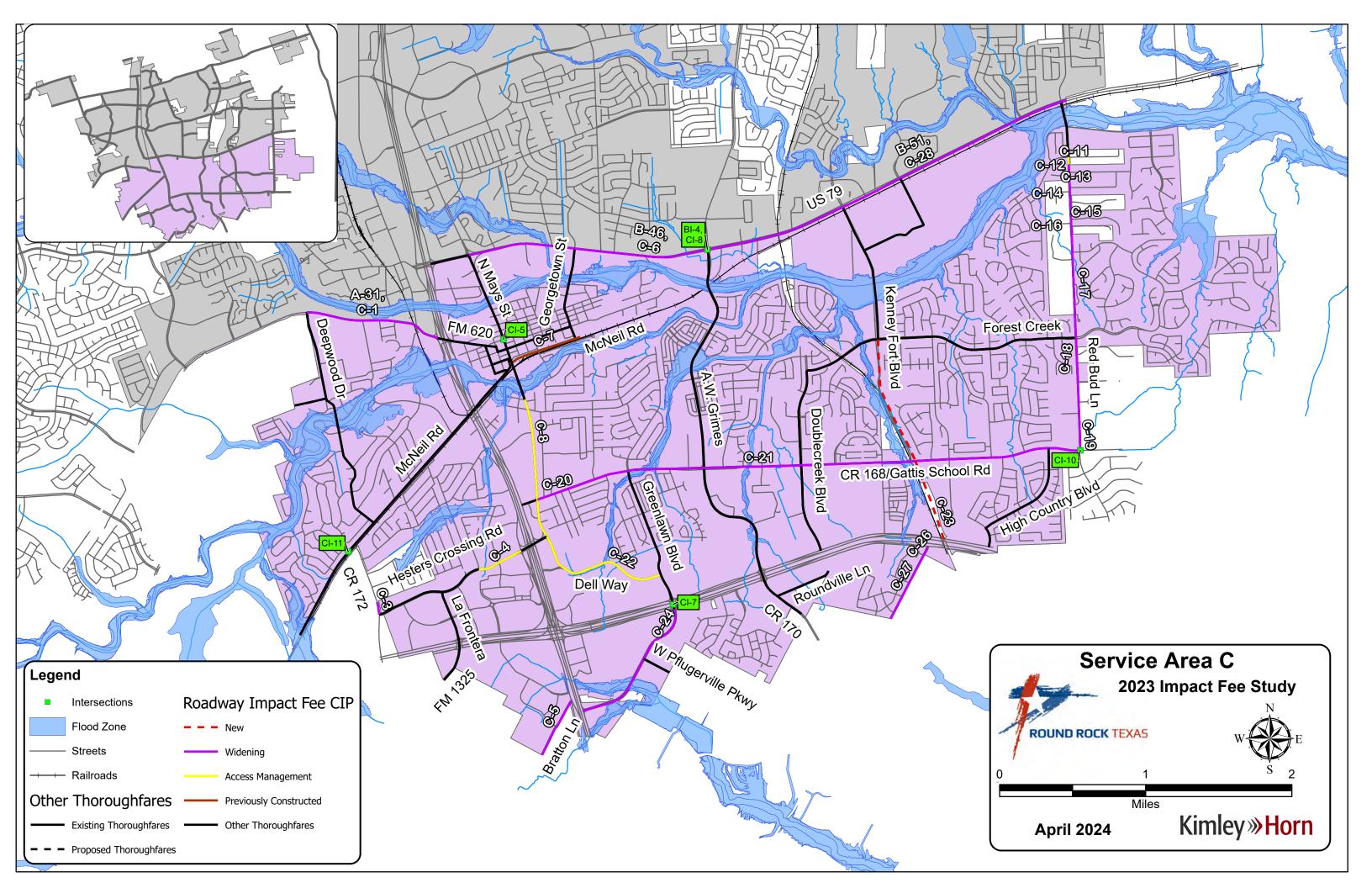
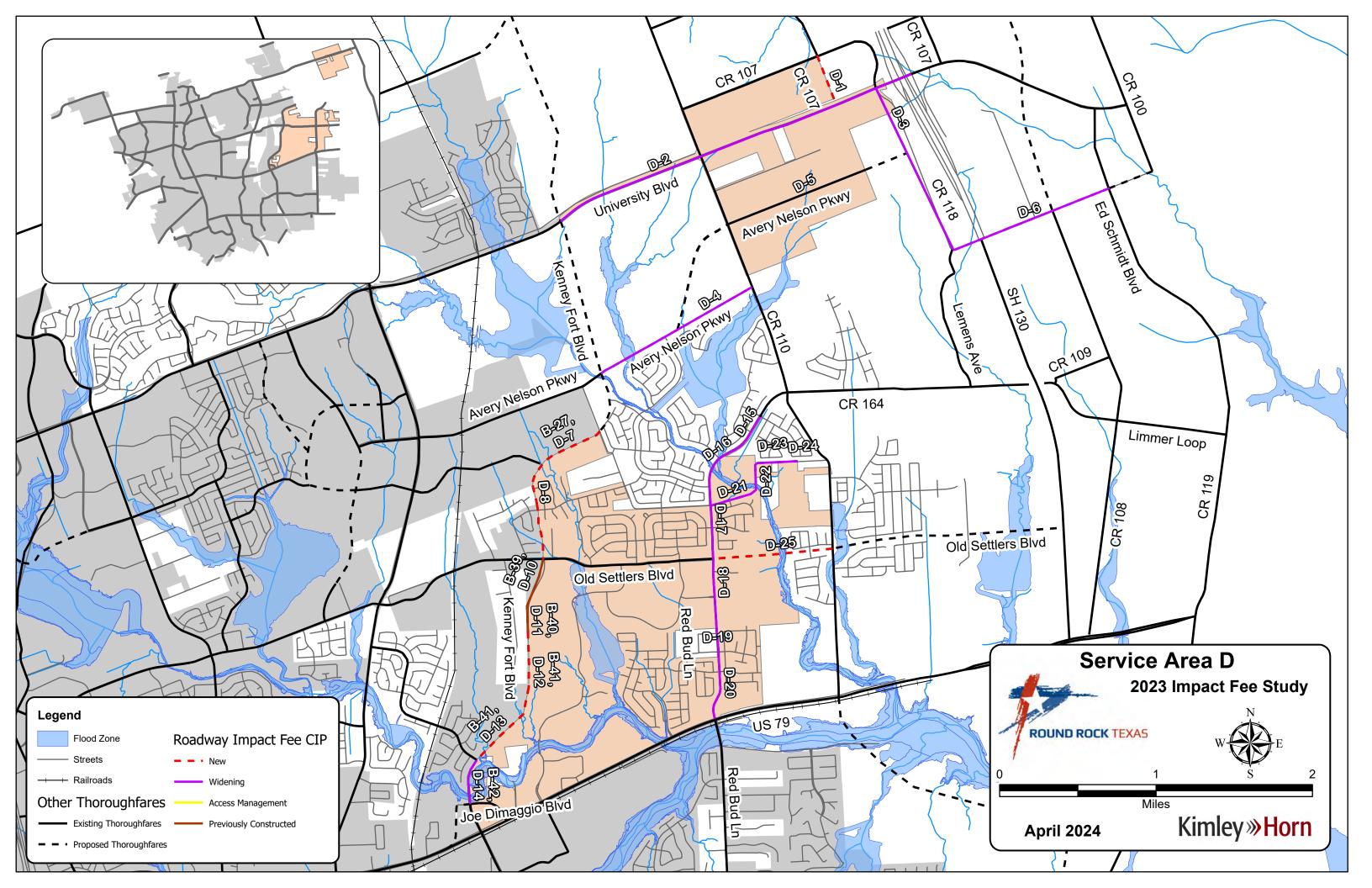




Table 2.D. 10-Year Roadway Impact Fee Capital Improvements Plan – Service Area D

Service Area	Proj.#	IF Class	Roadway	Limits	Length (mi)	% In Service Area
	D-1	4 Lane - Proposed	CR 107	CR 107 to University Blvd	0.34	50%
	D-2	4 Lane - Enhanced	University Blvd (6)	Kenney Fort Blvd to SH 130	2.44	100%
	D-3	4 Lane - Proposed	CR 118	University Blvd to Avery Nelson Pkwy	1.14	100%
	D-4	4 Lane - Enhanced	Avery Nelson Pkwy (3)	Kenney Fort Blvd to CR 110	1.11	100%
	D-5	4 Lane - Existing	Avery Nelson Pkwy (4)	CR 110 to 5015' E of CR 110	0.95	100%
	D-6	4 Lane - Proposed	CR 118	Carmel Creekside Dr to Ed Schmidt Blvd	1.08	100%
	B-27, D-7	6 Lane - Proposed	Kenney Fort Blvd (1)	CR 117 to 125' N of Haselwood Ln	0.58	100%
	D-8	4 Lane - Proposed	Kenney Fort Blvd (6)	125' N of Haselwood Ln to 200' N of Bluffstone Dr	0.12	50%
	B-28, D-9	6 Lane - Proposed	Kenney Fort Blvd (7)	200' N of Bluffstone Dr to Old Settlers Blvd	0.36	100%
	B-39, D-10	6 Lane - Proposed	Kenney Fort Blvd (2)	Old Settlers Blvd to 2540' S of Old Settler's Blvd	0.30	100%
	B-40, D-11	6 Lane - Proposed (1/2)	Kenney Fort Blvd (3)	2540' S of Old Settler's Blvd to 4625' N of Chandler Creek Blvd	0.18	50%
	B-41, D-12	6 Lane - Proposed	6 Lane - Proposed  Kenney Fort Blvd (4)  4625' N of Chandler Creek Blvd to 3115' N of Chandler Creek Blvd		0.36	100%
D	B-41, D-13	6 Lane - Proposed	Kenney Fort Blvd (8)	3115' N of Chandler Creek Blvd to Chandler Creek Blvd	0.59	100%
SA 1	B-42, D-14	6 Lane - Proposed	Kenney Fort Blvd (5)	Chandler Creek Blvd to Joe DiMaggio Blvd	0.30	100%
S	D-15	4 Lane - Proposed	Red Bud Ln (1)	Guadalajara St to 160' N of Margarita Loop	0.35	100%
	D-16	4 Lane - Enhanced (1/2)	Red Bud Ln (2)	160' N of Margarita Loop to CR 117	0.35	50%
	D-17	4 Lane - Enhanced (1/2)	Red Bud Ln (3)	CR 117 to Old Settlers Blvd	0.34	100%
	D-18	4 Lane - Enhanced	Red Bud Ln (4)	Old Settlers Blvd to 170' N of Joseph St	0.45	100%
	D-19	4 Lane - Enhanced	Red Bud Ln (5)	170' N of Joseph St to 160' S of Covered Wagon Trl	0.18	50%
	D-20	4 Lane - Enhanced	Red Bud Ln (6)	160' S of Covered Wagon Trl to US 79	0.41	100%
	D-21	4 Lane - Enhanced	CR 122 (1)	Red Bud Ln to 230' SW of Rosalina Loop	0.49	100%
	D-22	3 Lane - Proposed	CR 122 (2)	230' SW of Rosalina Loop to 100' S of Emilia Ln	0.09	50%
	D-23	3 Lane - Proposed	CR 122 (3)	100' S of Emilia Ln to 100' S of Rosalina Loop	0.04	100%
	D-24	3 Lane - Proposed	CR 122 (4)	100' S of Rosalina Loop to 100' S of Penelope Ct	0.13	50%
	D-25	4 Lane - Proposed	Old Settlers Blvd	Red Bud Ln to CR 110	0.77	100%
		Intersection Improvements	Location	Improvement(s)		% In Service Area
	-		Update ITS and Traffic Managmenet Infrastructure	-		25%





#### A. Service Areas

The three (3) service areas used in the 2019 Roadway Impact Fee Study are shown in Exhibit 1. The four (4) service areas used in the 2023 Roadway Impact Fee Study Update are shown in Exhibit 2. These service areas cover the entire corporate area of the City of Round Rock (both limited and full purpose jurisdictions). 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." In Round Rock, this restriction necessitated the creation of 3 separate service areas from the original 2019 Roadway Impact Fee Study. During the 2023 Roadway Impact Fee Study Update, it was determined that due to additional annexations in the northeast area of the city that an additional service area would need to be created to stay within the 6-mile limit. This impacted Service Area B in the original study which was then split along existing and proposed Kenney Fort Boulevard. The area west of Kenney Fort Boulevard from original Service Area B remains as Service Area B in this study. The area east of Kenney Fort Boulevard and new annexations have been reassigned as Service Area D. For the purposes of implementing roadway impact fees, collections on building permits with a plat recorded within the effective date range of the original ordinance shall utilize the 3 service area structure, maximum fees, and collection rates. For any ordinances with effective dates after the adoption of this study the new 4 service area structure anticipated to be used. The service areas in the 2023 Roadway Impact Fee Study Update are consistent with the specification of Chapter 395 of the Texas Local Government Code.

#### 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 2023 Roadway Impact Fee Study Update to quantify the supply and demand for roads in the City. For transportation purposes, the service unit is defined as a vehicle-mile. Below is the definition for vehicle-mile.

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

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

<u>Total Vehicle-Miles of Demand</u>: Based on the 10-year growth projections (Pg. 46). The demand is equal to PM Trip Rate (trips) \* Trip Length (miles).

The capacity values used in the 2023 Roadway Impact Fee Study Update are based upon Capacity Criteria published by the Capital Area Metropolitan Planning Organization (CAMPO) and modified to accommodate different contexts within the City of Round Rock corporate limits. This capacity represents an approximate level of service D. Table 3A and 3B show the service volumes as a function of the facility classification and type.



Table 3A. Service Volumes for Proposed Facilities (used in Appendix B – Roadway Impact Fee CIP Service Units of Supply)

Facility Classification	Lanes	Median Configuration	Hourly Vehicle-Mile Capacity per Lane-Mile of Roadway Facility
6 Lane	6	Divided	900
4 Lane Proposed	4	Divided	810
3 Lane Proposed	3	Undivided	410
2 Lane Existing	2	Undivided	410

Table 3B. Service Volumes for Existing Facilities

Roadway Type	Description	Hourly Vehicle-Mile Capacity per Lane-Mile of Roadway Facility
2U-G	Rural Cross-Section (i.e., gravel, dirt, etc.)	100
2U-H	Two lane undivided – rural setting, high speed	770
2U	Two lane undivided – built-out	410
2U-OP	Two lane undivided with on-street parking	330
2U-Half	Two lane undivided – half of a 4 lane divided	410
3U	Three lane undivided (two-way, left-turn lane)	510
3U-OP	Three lane undivided with on street parking	410
4U	Four lane undivided	680
4D	Four lane divided	810
5U	Five lane undivided	770
6U	Six lane undivided	770
6D	Six lane divided	900
7U	Seven lane undivided	860



#### C. Cost Per Service Unit

A fundamental step in the impact fee process is to establish the cost for each service unit. In the case of the Roadway Impact Fee, this is the cost for each vehicle-mile of travel. Thus, it is the cost to construct a roadway (lane-mile) needed to accommodate a vehicle-mile of travel. The cost per service unit is calculated for each service area based on the roadway projects within that service area.

The second component of the cost per service unit is the determination of 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.

#### D. Cost of the RIF CIP

All of the project costs for an arterial or collector facility which serves the overall transportation system are eligible to be included in the Roadway Impact Fee Capital Improvements Plan (RIF CIP). Chapter 395 of the Texas Local Government Code specifies that the allowable costs are "...including and limited to the:

- 1. Construction contract price;
- 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 RIF 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. The following is a detailed description of the costing worksheet/methodology for the RIF CIP.

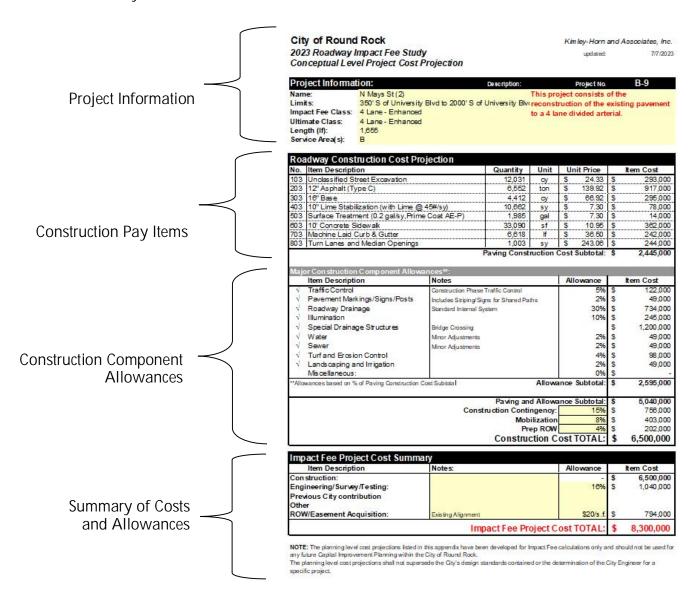
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#### 1. Overview of RIF CIP Costing Worksheets

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

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





## 2. Project Information

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

- <u>Project Number</u> Identifies which service area the project is in with a corresponding number. The corresponding number does not represent any prioritizations and is used only to identify projects. For example, Project A-9 is in Service Area A and is the 9<sup>th</sup> project on the list.
- Name A unique identifier for each project. In some cases, abbreviations are used for the project name.
- <u>Limits</u> Represents the beginning and ending location for each project.
- <u>Service Area(s)</u> Represents the service areas where the project is located. Multiple service areas will be listed if the project lies along a service area boundary.
- Impact Fee Class The costing class to be used in the analysis. The impact fee class provides the width for the various elements in the roadway. The construction costs are variable, based on the Transportation Master Plan classification of the roadway. Modification to roadway element widths are utilized in cases where a portion of the facility currently exists and the road is only to be widened, or where the road is planned to be widened to an interim configuration. Examples of these are access management projects, median widening projects (widening that occurs in an existing median), and are designated in the summary sheets at the beginning of each service area's Conceptual Level Cost Projections in Appendix A. Other specialized cases are noted in the short description box located in this section
- <u>Ultimate Class</u> the ultimate classification of the roadway, if different from the Impact
   Fee Class based on determination of need in the 10-year window
- <u>Length (ft)</u> The distance measured in feet that is used to cost out the project.



## 3. Construction Pay Items

A typical roadway project consists of several costs, including the following: planning, survey, design engineering, permitting, right-of way acquisition, and construction and testing. While the construction cost component of a project may consist of approximately 100 various pay items, a simplified approach was used for developing the conceptual level project costs. The pay items used in the 2023 RIF CIP are as follows:

- Unclassified street excavation;
- HMAC Surface courses (asphalt, in depth);
- Flexible roadway base;
- Lime stabilized subgrade;
- Surface treated prime coat;
- Concrete sidewalks;
- Concrete curb and gutter; and
- Turn lanes and median openings.

#### 4. Construction Component Allowances

A percentage of the paving construction cost is allotted for various major construction component allowances, as appropriate. These allowances include traffic control, pavement markings, signs and posts, roadway drainage, illumination, water and sewer adjustments, turf and erosion control, landscaping and irrigation, mobilization, and preparation of right-of-way. These allowance percentages are also based on historical data.

In addition, lump sum dollar allowances are provided for special drainage structures (bridges and culverts) and railroad crossings. The paving and allowance subtotal is given a fifteen percent (15%) contingency.



## 5. Summary of Cost and Allowances

To determine the total Impact Fee Project Cost, sixteen percent (16%) of the construction cost total is added for engineering, surveying, and testing. Cost per square foot are also allotted ROW/easement acquisition based on \$20 for widenings and \$10 for new roadway alignments.

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

## E. Summary of Roadway Impact Fee CIP Costs

Tables 4.A – 4.D are the 10-Year RIF CIP project lists for each service area with planning level project costs. Individual project cost worksheets can be seen in Appendix A, Conceptual Level Project Cost Projections. It should be noted that these tables reflect only conceptual-level opinions or assumptions regarding the portions of future project costs that are 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 RIF CIP establishes the list of projects for which Impact Fees may be utilized. Projects not included in the RIF CIP are not eligible to receive impact fee funding. The cost projections utilized in this study should not be utilized for the City's construction CIP.



## Table 4.A - 10-Year RIF CIP with Conceptual Level Cost Projections – Service Area A

Service Area	Proj. #	Class	Roadway	Limits	Length (mi)	% In Service Area	То	tal Project Cost	Cost in Service Area
	A-1	4 Lane - Enhanced (1/2)	New Hope Rd (1)	Sam Bass Rd to CR 175	1.10	100%	\$	16,500,000	\$ 16,500,000
	A-2	4 Lane - Enhanced (1/2)	New Hope Rd (2)	240' W of Lagoona Dr to Flowstone Ln	0.55	50%	\$	8,200,000	\$ 4,100,000
	A-3	4 Lane - Proposed	New Hope Rd (3)	Flowstone Ln to 1000' E of Wyoming Springs Dr	0.46	50%	\$	11,100,000	\$ 5,550,000
	A-4, B-1	6 Lane - Enhanced	Westinghouse Rd	IH 35 SBFR to IH 35 NBFR	0.19	50%	\$	9,152,896	\$ 4,576,448
	A-7	6 Lane - Enhanced	RM 1431 (1)	1100' W of Mayfield Ranch Blvd to 850' E of Stone Oak Dr	0.97	50%	\$	5,180,000	\$ 2,590,000
	A-8	6 Lane - Enhanced	RM 1431 (2)	850' E of Stone Oak Dr to 5195' E of Stone Oak St	0.82	100%	\$	5,200,000	\$ 5,200,000
	A-9	6 Lane - Enhanced	RM 1431 (3)	5195' E of Stone Oak St to IH 35 SBFR	1.34	50%	\$	6,960,000	\$ 3,480,000
	A-10	4 Lane - Enhanced (1/2)	Wyoming Springs Dr (3)	390' N of Goldenoak Cir to Alondra Way	0.13	100%	\$	1,800,000	\$ 1,800,000
	A-11	4 Lane - Proposed	Eagles Nest Dr (1)	Wyoming Springs Dr to Chisholm Trl Rd (Future)	1.73	100%	\$	41,600,000	\$ 41,600,000
	A-12	4 Lane - Enhanced (1/2)	Creek Bend Blvd (1)	RM 1431 to West End Pl	0.79	100%	\$	13,800,000	\$ 13,800,000
	A-13	4 Lane - Proposed	Creek Bend Blvd (2)	West End Pl to Camino Del Verdes Pl	0.14	100%	\$	3,500,000	\$ 3,500,000
	A-14	4 Lane - Proposed	Chisholm Trl Rd (1)	RM 1431 to CR 173	0.76	100%	\$	19,400,000	\$ 19,400,000
	A-15, B-11	4 Lane - Proposed	Eagles Nest Dr (2)	Chisholm Trl Rd (Future) to IH 35 NBFR	0.17	100%	\$	12,216,939	\$ 12,216,939
	A-16	5 Lane - Enhanced	CR 173	IH 35 SBFR to 3250' N of Wolle Ln	0.10	100%	\$	2,100,000	\$ 2,100,000
	A-17	5 Lane - Enhanced	Chisholm Trl Rd (2)	3250' N of Wolle Ln to 1980' N of Wolle Ln	0.24	100%	\$	5,000,000	\$ 5,000,000
	A-21	3 Lane - Enhanced	Sam Bass Rd (3)	FM 3406 to Desert Willow Dr	0.35	50%	\$	3,900,000	\$ 1,950,000
Y.	A-22	3 Lane - Enhanced	Sam Bass Rd (4)	Desert Willow Dr to Creek Bend Blvd	0.19	100%	\$	2,100,000	\$ 2,100,000
$_{ m SA}$	A-23	3 Lane - Enhanced	Sam Bass Rd (5)	Creek Bend Blvd to Hairy Man Dr	0.21	100%	\$	2,400,000	\$ 2,400,000
	A-24	3 Lane - Enhanced	Sam Bass Rd (6)	Hairy Man Rd to Chisholm Trl Rd	1.33	50%	\$	14,800,000	\$ 7,400,000
	A-26	4 Lane - Proposed	Wyoming Springs Dr (4)	Sam Bass Rd to Creek Bend Blvd	0.88	100%	\$	26,379,928	\$ 26,379,928
	A-28	4 Lane - Enhanced	Creek Bend Blvd (3)	Brushy Creek to Wyoming Springs Dr	0.40	100%	\$	11,012,302	\$ 11,012,302
	A-29	4 Lane - Proposed	Deepwood Dr (1)	Sam Bass Rd to 345' N of RM 620	0.34	100%	\$	18,900,346	\$ 18,900,346
	A-30	4 Lane - Enhanced	Deepwood Dr (2)	345' N of RM 620 to RM 620	0.07	100%	\$	1,400,000	\$ 1,400,000
	A-31, C-1	6 Lane - Enhanced	RM 620	Deepwood Dr to IH 35 SBFR	0.93	50%	\$	12,560,624	\$ 6,280,312
	Proj. #	Intersection Improvements	Location	Improvement(s)		% In Service Area	To	otal Project Cost	Cost in Service Area
	AI-1	sec	Sam Bass Rd and FM 3406	SIGNAL		100%	\$	550,000	\$ 550,000
	AI-2	pro	Sam Bass Rd and Hairy Man Rd	INTERSECTION IMPROVEMENT		75%	\$	2,500,000	\$ 1,875,000
	AI-3	ii ii	Sam Bass Rd and Chisholm Trl Rd	TURN LANES		100%	\$	240,000	\$ 240,000
	-		Update ITS and Traffic Managmenet Infrastructure	=		25%	\$	20,900,000	\$ 5,225,000
	Service Area Roadway Project Cost Subtotal							\$ 219,236,275	
	Service Area Intersection Project Cost Subtotal							\$ 7,890,000	
	2023 Roadway Impact Fee Study Cost Per Service Area								
				Tota	l Cost in	SERVI	CE.	AREA A	\$ 227,150,025

These planning level cost projections have been developed for Impact Fee calculations only and should not be used for any future Roadway Capacity Projects within the City of Round Rock.

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



## Table 4.B - 10-Year RIF CIP with Conceptual Level Cost Projections – Service Area B

Service Area	Proj. #	Class	Roadway	Limits	Length (mi)	% In Service Area	Total Project Cost	Cost in Service Area
	A-4, B-1	6 Lane - Enhanced	Westinghouse Rd (1)	IH 35 SBFR to IH 35 NBFR	0.19	50%	\$ 9,152,896	\$ 4,576,448
	B-4	6 Lane - Enhanced	University Blvd (1)	University Oaks Blvd to 335' W of Sunrise Dr	0.49	100%	\$ 17,220,832	\$ 17,220,832
	B-5	6 Lane - Enhanced	University Blvd (2)	335' W of Sunrise Dr to A.W. Grimes Blvd	2.03	50%	\$ 53,300,000	\$ 26,650,000
	B-6	4 Lane - Enhanced	University Blvd (3)	A.W. Grimes Blvd to 1830' E of A.W. Grimes Blvd	0.36	100%	\$ 8,200,000	\$ 8,200,000
	B-7	4 Lane - Enhanced	University Blvd (4)	1830' E of A.W. Grimes Blvd to Lunata Way	0.78	50%	\$ 17,000,000	\$ 8,500,000
	B-8	4 Lane - Enhanced	University Blvd (5)	Lunata Way to Kenney Fort Blvd (Future)	0.16	100%	\$ 4,300,000	\$ 4,300,000
	B-9	4 Lane - Enhanced	N Mays St (2)	350' S of University Blvd to 2000' S of University Blvd	0.31	100%	\$ 8,300,000	\$ 8,300,000
	A-15, B-11	4 Lane - Proposed	Eagles Nest (1)	Chisholm Trl Rd (Future) to IH 35 NBFR	0.08	50%	\$ 12.216.939	\$ 6,108,470
	B-12	4 Lane - Proposed	Eagles Nest (2)	IH 35 NBFR to Cypress Blvd	0.69	100%	\$ 21,436,451	\$ 21,436,451
	B-13	4 Lane - Enhanced	N Mays St (4)	Paloma Dr to 540' N of Steam Way	0.27	100%	\$ 5,500,000	\$ 5,500,000
	B-15	4 Lane - Enhanced (AM)	Sunrise Rd (2)	Hidden Valley Dr to 325' S of Eagles Nest St	0.54	100%	\$ 1,600,000	\$ 1,600,000
	B-16	4 Lane - Enhanced (AM)	Sunrise Rd (3)	325' S of Eagles Nest St to Applegate Cir	0.30	50%	\$ 900,000	\$ 450,000
	B-17	4 Lane - Enhanced (AM)	Sunrise Rd (4)	Applegate Cir to Lake Dr	0.20	100%	\$ 700,000	\$ 700,000
	B-18	4 Lane - Enhanced (AM)	Sunrise Rd (5)	Lake Dr to 545' S of Lake Dr	0.10	50%	\$ 300,000	\$ 150,000
	B-19	4 Lane - Enhanced (AM)	Sunrise Rd (6)	545' S of Lake Dr to Old Settlers Blvd	0.40	100%	\$ 1,200,000	\$ 1,200,000
	B-21	4 Lane - Proposed	Wallin Bradley (2)	College Park (Future) to A.W. Grimes Blvd	0.37	100%	\$ 6,600,000	\$ 6,600,000
	B-22	4 Lane - Proposed	College Park (2)	Avery Nelson Rd to 1355' N of Old Settlers Blvd	0.91	100%	\$ 21,700,000	\$ 21,700,000
	B-23	3 Lane - Existing	Seton Pkwy	2400' N of Avery Nelson Blvd to Avery Nelson Blvd	0.45	100%	\$ 1,795,839	\$ 1,795,839
	B-24	4 Lane - Proposed	Medical Center Pkwy	College Park to Seton Pkwy	0.43	100%	\$ 1,058,160	\$ 1,058,160
	B-25	4 Lane - Enhanced	Avery Nelson Pkwy (1)	A.W. Grimes Blvd to 3580' E of A.W. Grimes Blvd	0.68	100%	\$ 14,000,000	\$ 14,000,000
	B-26	4 Lane - Enhanced	Avery Nelson Pkwy (2)	3580' E of A.W. Grimes Blvd to Kenney Fort Blvd (Future)	0.57	50%	\$ 11,800,000	\$ 5,900,000
	B-27, D-7	6 Lane - Proposed	Kenney Fort Blvd (1)	CR 117 to 145' N of Haselwood Ln	0.58	100%	\$ 15,018,951	\$ 15,018,951
	B-28, D-9	6 Lane - Proposed	Kenney Fort Blvd (1)	200' N of Bluffstone Dr to Old Settlers Blvd	0.36	100%	\$ 9,173,038	\$ 9,173,038
B	B-31	6 Lane - Enhanced (1/3)	Old Settlers Blvd (1)	N Mays St to Sunrise Rd	1.33	100%	\$ 14,700,000	\$ 14,700,000
SA B	B-32	6 Lane - Enhanced	Old Settlers Blvd (2)	Sunrise Rd to A.W. Grimes Blvd	1.13	100%	\$ 31,100,000	\$ 31,100,000
	B-34	4 Lane - Enhanced (AM)	N Mays St	540' N of Steam Way to Northwest Dr	1.42	100%	\$ 3,900,000	\$ 3,900,000
	B-35	4 Lane - Enhanced (AM)	Sunrise Rd (7)	Old Settlers Blvd to Country Aire Dr	0.28	100%	\$ 800,000	\$ 800,000
	B-36	6 Lane - Enhanced	FM 1460 (A.W. Grimes Blvd) (1)	Old Settlers Blvd to 375' S of Chandler Creek Blvd	0.35	100%	\$ 1.820.000	\$ 1,820,000
	B-37	6 Lane - Enhanced	FM 1460 (A.W. Grimes Blvd) (2)	375' S of Chandler Creek Blvd to 1250' N of Tiger Trl	0.20	50%	\$ 1,620,000	\$ 810,000
	B-37	6 Lane - Enhanced	FM 1460 (A.W. Grimes Blvd) (2)	1250' N of Tiger Trl to US 79	1.25	100%	\$ 6,960,000	\$ 6,960,000
	B-39, D-10	6 Lane - Proposed (1/2)	Kenney Fort Blvd (4)	Old Settler's Blvd to 2540' S of Old Settler's Blvd	0.30	100%	\$ 5,000,000	\$ 5,000,000
	B-40, D-11	6 Lane - Proposed (1/2)	Kenney Fort Blvd (4)	Old Settler's Blvd to 2540' S of Old Settler's Blvd	0.18	50%	\$ 4,900,000	\$ 2,450,000
	B-41, D-12	6 Lane - Proposed	Kenney Fort Blvd (5)  Kenney Fort Blvd (6)	2540' S of Old Settlers Blvd to Chandler Creek Blvd	0.36	100%	\$ 10,700,000	\$ 10,700,000
	B-41, D-12 B-42, D-14	6 Lane - Enhanced	Kenney Fort Blvd (7)	Chandler Creek Blvd to Joe DiMaggio Blvd	0.30	100%	\$ 9,600,000	\$ 9,600,000
	B-42, D-14 B-46, C-6	6 Lane - Enhanced	US 79 (1)	IH 35 NBFR to AW Grimes	1.96	50%	\$ 16,379,383	\$ 8,189,692
	B-40, C-0 B-47	6 Lane - Enhanced	US 79 (1)	200' E of Red Bud Ln to 1690' E of Red Bud Ln	0.28	50%	\$ 1,600,000	\$ 800,000
	B-47 B-48	3 Lane - Proposed	Joe Dimaggio Blvd Extension	Kenney Fort Blvd to US 79	0.28	100%	\$ 7,000,000	\$ 7,000,000
	B-49	3 Lane - Proposed	Wallin Bradley (1)	College Park Dr to College Park Dr	0.39	100%	\$ 9,500,000	\$ 9,500,000
	B-49	4 Lane - Proposed	Walin Bradley (1) Wallin Bradley (3)	A.W. Grimes Blvd to Kenney Fort Blvd (Future)	1.01	100%	\$ 18,200,000	\$ 18,200,000
	B-50 B-51, C-28	6 Lane - Enhanced	US 79 (2)	A.W. Grimes Bivd to Reimey Port Bivd (Future)  AW Grimes to Red Bud Ln	2.63	50%	\$ 12,760,000	\$ 6,380,000
	D-51, C-20		03 17 (2)	Aw Gianes to Red Bud Lii	2.03	% In		
	Proj. #	nen men	A.W. Grimes Blvd and Palm Valley Blvd	OTHER & TURN LANES		Service	Total Project	Cost in Service
		Intersection Improvement s				Area	Cost	Area
	BI-4, CI-8	nter npre	A.W. Grimes Blvd and Palm Valley Blvd	OTHER & TURN LANES		50%	\$ 2,141,000	\$ 1,070,500
	-	1 1	Update ITS and Traffic Managmenet Infrastructure	-		25%	\$ 20,900,000	\$ 5,225,000
Service Area Roadway Project Cost Sub					ct Cost Subtotal	\$ 328,047,880		
Service Area Intersection Project Cost Subtotal							\$ 6,295,500	
				2023 Roadway Impa	ct Fee Stu	dy Cost P	er Service Area	\$ 23,750
				Tota	l Cost in	SERVI	CE AREA B	\$ 334,367,130

These planning level cost projections have been developed for Impact Fee calculations only and should not be used for any future Roadway Capacity Projects within the City of Round Rock.

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



## Table 4.C - 10-Year RIF CIP with Conceptual Level Cost Projections – Service Area C

Service Area	Proj. #	Class	Roadway	Limits	Length (mi)	% In Service Area	Total Project Cost	Cost in Service Area
	A-31, C-1	6 Lane - Enhanced	RM 620	Deepwood Dr to IH 35 SBFR	0.93	50%	\$ 12,560,624	\$ 6,280,312
	C-3	4 Lane - Enhanced	CR 172 (2)	Hesters Crossing Rd to 445' N of Hesters Crossing Rd	0.08	50%	\$ 1,800,000	\$ 900,000
	C-4	4 Lane - Enhanced (AM)	Hesters Crossing Rd	Dry Creek Dr to IH 35 SBFR	0.32	100%	\$ 900,000	\$ 900,000
	C-5	4 Lane - Enhanced	Bratton Ln	IH 35 SBFR to 1160' S of Michael Angelo Way	0.42	50%	\$ 8,700,000	\$ 4,350,000
	B-46, C-6	6 Lane - Enhanced	US 79 (1)	IH 35 NBFR to 200' E of Red Bud Ln	1.96	50%	\$ 16,379,383	\$ 8,189,692
	C-7	3 Lane - Existing	McNeil Extension	S Mays St to Georgetown St	0.52	100%	\$ 4,799,620	\$ 4,799,620
	C-8	4 Lane - Enhanced (AM)	S Mays St	Nash St to Gattis School Rd	0.69	100%	\$ 2,000,000	\$ 2,000,000
	C-10	6 Lane - Proposed	Kenney Fort Blvd (2)	Forest Creek Dr to 830' S of Gattis School Rd	1.04	100%	\$ 40,800,000	\$ 40,800,000
	C-11	4 Lane - Enhanced (AM)	Red Bud Ln (1)	Forest Ridge Blvd to 265' S of Forest Ridge Blvd	0.05	50%	\$ 200,000	\$ 100,000
	C-12	4 Lane - Enhanced	Red Bud Ln (2)	265' S of Forest Ridge Blvd to 280' S of Woodlawn Ln	0.11	100%	\$ 2,200,000	\$ 2,200,000
	C-13	4 Lane - Enhanced	Red Bud Ln (3)	280' S of Woodlawn Ln to 130' S of Old Oaks Dr	0.10	50%	\$ 2,200,000	\$ 1,100,000
	C-14	4 Lane - Enhanced	Red Bud Ln (4)	130' S of Old Oaks Dr to 315' S of Country Dr	0.11	100%	\$ 2,200,000	\$ 2,200,000
	C-15	4 Lane - Enhanced	Red Bud Ln (5)	315' S of Country Dr to Wildflower Trl	0.10	50%	\$ 2,200,000	\$ 1,100,000
	C-16	4 Lane - Enhanced	Red Bud Ln (6)	Wildflower Trl to 295' S of Wildflower Trl	0.06	100%	\$ 1,200,000	\$ 1,200,000
	C-17	4 Lane - Enhanced	Red Bud Ln (7)	295' S of Wildflower Trl to 840' N of Forest Creek Dr	0.55	50%	\$ 13,100,000	\$ 6,550,000
	C-18	4 Lane - Enhanced	Red Bud Ln (8)	840' N of Forest Creek Dr to 340' S of Forest Creek Dr	0.22	100%	\$ 4,600,000	\$ 4,600,000
	C-19	4 Lane - Enhanced	Red Bud Ln (9)	340' S of Forest Creek Dr to Gattis School Rd	0.71	50%	\$ 18,713,810	\$ 9,356,905
ပ	C-20	6 Lane - Enhanced	Gattis School Rd (1)	S Mays St to Windy Park Dr	1.23	100%	\$ 31,800,000	\$ 31,800,000
Y.	C-21	6 Lane - Enhanced	Gattis School Rd (2)	Windy Park Dr to Red Bud Ln	2.82	100%	\$ 81,800,000	\$ 81,800,000
	C-22	4 Lane - Enhanced (AM)	S Mays St / Dell Way	Gattis School Rd to Greenlawn Blvd	1.24	100%	\$ 3,600,000	\$ 3,600,000
	C-23	6 Lane - Proposed	Kenney Fort Blvd (3)	830' S of Gattis School Rd to SH 45	0.41	100%	\$ 12,400,000	\$ 12,400,000
	C-24	6 Lane - Enhanced (1/3)	Greenlawn Blvd	IH 35 NBFR to SH 45 EBFR	1.86	100%	\$ 16,468,640	\$ 16,468,640
	C-26	4 Lane - Enhanced	Schultz (1)	SH 45 EBFR to 290' S of SH 45 EBFR	1.45	100%	\$ 1,200,000	\$ 1,200,000
	C-27	4 Lane - Enhanced	Schultz (2)	290' S of SH 45 EBFR to 255' S of Autumn Sage Way	0.50	50%	\$ 10,300,000	\$ 5,150,000
	B-51, C-28	6 Lane - Enhanced	US 79 (2)	AW Grimes to Red Bud Ln	2.63	50%	\$ 12,760,000	\$ 6,380,000
	Proj. #	Intersection Improvements	Location	Improve ment(s)		% In Service Area	Total Project Cost	Cost in Service Area
	CI-5	pro.	Mays St and Liberty Ave	SIGNAL		100%	\$ 550,000	\$ 550,000
	CI-7	<u>[</u>	Greenlawn Blvd and Louis Henna Blvd (SH 45 FR)	OTHER		100%	\$ 848,000	\$ 848,000
	BI-4, CI-8	u o	A.W. Grimes Blvd and Palm Valley Blvd	OTHER & TURN LANES		50%	\$ 2,141,000	\$ 1,070,500
	CI-10	ecti	Red Bud Ln and Gattis School Rd	TURN LANES		100%	\$ 1,773,000	\$ 1,773,000
1	CI-11	ters	E McNeil Rd and Oakridge Dr	INTERSECTION IMPROVEMENT		100%	\$ 10,000,000	\$ 10,000,000
1	-	ĪĒ	Update ITS and Traffic Managmenet Infrastructure	-		25%	\$ 20,900,000	\$ 5,225,000
				Service A	Area Road	way Projec	ct Cost Subtotal	\$ 255,425,168
	Service Area Intersection Project Cost Subtotal							\$ 19,466,500
	2023 Roadway Impact Fee Study Cost Per Service Area						\$ 23,750	
				Tota	l Cost in	SERVI	CE AREA C	\$ 274,915,418

- These planning level cost projections have been developed for Impact Fee calculations only and should not be used for any future Roadway Capacity Projects within the City of Round Rock.

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



# Table 4.D – 10-Year RIF CIP with Conceptual Level Cost Projections – Service Area D

Service Area	Proj. #	Class	Roadway	Limits	Length (mi)	% In Service Area	Total Project Cost	Cost in Service Area
	D-1	4 Lane - Proposed	CR 107	CR 107 to University Blvd	0.34	50%	\$ 3,940,000	\$ 1,970,000
	D-2	4 Lane - Enhanced	University Blvd (6)	Kenney Fort Blvd to SH 130	2.44	100%	\$ 8,500,000	\$ 8,500,000
l	D-3	4 Lane - Proposed	CR 118	University Blvd to Avery Nelson Pkwy	1.14	100%	\$ 7,800,000	\$ 7,800,000
l	D-4	4 Lane - Enhanced	Avery Nelson Pkwy (3)	Kenney Fort Blvd to CR 110	1.11	100%	\$ 10,200,000	\$ 10,200,000
l i	D-5	4 Lane - Existing	Avery Nelson Pkwy (4)	CR 110 to 5015' E of CR 110	0.95	100%	\$ 12,000,000	\$ 12,000,000
	D-6	4 Lane - Proposed	CR 118	Carmel Creekside Dr to Ed Schmidt Blvd	1.08	100%	\$ 1,960,000	\$ 1,960,000
l	B-27, D-7	6 Lane - Proposed	Kenney Fort Blvd (1)	CR 117 to 125' N of Haselwood Ln	0.58	100%	\$ 15,018,951	\$ 15,018,951
	D-8	4 Lane - Proposed	Kenney Fort Blvd (6)	125' N of Haselwood Ln to 200' N of Bluffstone Dr	0.12	50%	\$ 15,018,951	\$ 7,509,476
l	B-28, D-9	6 Lane - Proposed	Kenney Fort Blvd (7)	200' N of Bluffstone Dr to Old Settlers Blvd	0.36	100%	\$ 9,173,038	\$ 9,173,038
l	B-39, D-10	6 Lane - Proposed	Kenney Fort Blvd (2)	Old Settlers Blvd to 2540' S of Old Settler's Blvd	0.30	100%	\$ 5,000,000	\$ 5,000,000
ĺ	B-40, D-11	6 Lane - Proposed (1/2)	Kenney Fort Blvd (3)	2540' S of Old Settler's Blvd to 4625' N of Chandler Creek Blvd	0.18	50%	\$ 4,900,000	\$ 2,450,000
	B-41, D-12	6 Lane - Proposed	Kenney Fort Blvd (4)	4625' N of Chandler Creek Blvd to 3115' N of Chandler Creek Blvd	0.36	100%	\$ 10,700,000	
	B-41, D-13	6 Lane - Proposed	Kenney Fort Blvd (8)	3115' N of Chandler Creek Blvd to Chandler Creek Blvd	0.59	100%	\$ 3,700,000	\$ 3,700,000
	B-42, D-14	6 Lane - Proposed	Kenney Fort Blvd (5)	Chandler Creek Blvd to Joe DiMaggio Blvd	0.30	100%	\$ 9,600,000	
Q	D-15	4 Lane - Proposed	Red Bud Ln (1)	Guadalajara St to 160' N of Margarita Loop	0.35	100%	\$ 7,300,000	
SAI	D-16	4 Lane - Enhanced (1/2)	Red Bud Ln (2)	160' N of Margarita Loop to CR 117	0.35	50%	\$ 5,600,000	
S.	D-17	4 Lane - Enhanced (1/2)	Red Bud Ln (3)	CR 117 to Old Settlers Blvd	0.34	100%	\$ 4,700,000	
	D-18	4 Lane - Enhanced	Red Bud Ln (4)	Old Settlers Blvd to 170' N of Joseph St	0.45	100%	\$ 8,486,565	
	D-19	4 Lane - Enhanced	Red Bud Ln (5)	170' N of Joseph St to 160' S of Covered Wagon Trl	0.18	50%	\$ 3,446,574	
	D-20	4 Lane - Enhanced	Red Bud Ln (6)	160' S of Covered Wagon Trl to US 79	0.41	100%	\$ 7,711,173	
	D-21	4 Lane - Enhanced	CR 122 (1)	Red Bud Ln to 230' SW of Rosalina Loop	0.49	100%	\$ 13,671,273	\$ 13,671,273
	D-22	3 Lane - Proposed	CR 122 (2)	230' SW of Rosalina Loop to 100' S of Emilia Ln	0.09	50%	\$ 2,472,664	\$ 1,236,332
	D-23	3 Lane - Proposed	CR 122 (3)	100' S of Emilia Ln to 100' S of Rosalina Loop	0.04	100%	\$ 1,106,506	
	D-24	3 Lane - Proposed	CR 122 (4)	100' S of Rosalina Loop to 100' S of Penelope Ct	0.13	50%	\$ 3,430,613	\$ 1,715,306
	D-25	4 Lane - Proposed	Old Settlers Blvd	Red Bud Ln to CR 110	0.77	100%	\$ 20,155,000	\$ 20,155,000
	Proj. #	Intersection Improvements	Location	Improvement(s)		% In Service Area	Total Project Cost	Cost in Service Area
l l	-		Update ITS and Traffic Managmenet Infrastructure	=		25%	\$ 20,900,000	\$ 5,225,000
l i	Service Area Roadway Project Cost Subtotal							
	Service Area Intersection Project Cost Subtotal							\$ 5,225,000
2023 Roadway Impact Fee Study Cost Per Service A								
							ICE AREA D	\$ 181,435,656



#### F. Service Unit Calculation

The basic service unit for the computation of Round Rock's Roadway Impact Fees is the vehicle-mile of travel during the afternoon peak-hour (as explained on Pg. 29). 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. Compared to the original 2019 Roadway Impact Fee Study, the 2023 Roadway Impact Fee Study Update projects a higher ratio of multifamily to single family residential development and a higher number of overall units, but a lower square footage of commercial growth over a 10-year period.

The growth in vehicle-miles from 2023 to 2033 is based upon projected changes in residential units and employment for the period. To determine this growth, estimates of residential units, basic employment, service employment, and retail employment for 2023 were made, along with growth projections for each of these demographic statistics through 2033. The Land Use Assumptions section of this report details the growth estimates used for impact fee determination.

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 number of dwelling units are estimated. The number of dwelling units in each service area is multiplied by a *transportation demand factor* (discussed in more detail below) to compute the vehicle-miles of travel that occur during the afternoon peak hour. This factor indicates the average amount of demand created by the residential land uses in the service area.

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 North American Industrial Classification System (NAICS).



Building square footage is the most common independent variable for the estimation of non-residential trips in the *Institute of Transportation Engineers (ITE) Trip Generation Manual*, 11<sup>th</sup> Edition. This characteristic is more appropriate than the number of employees, because building square footage is tied more closely to trip generation and is known at the time of application for any development 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 used in the 2023 Roadway Impact Fee Study Update are aggregate rates derived from two sources – the ITE Trip Generation Manual, 11<sup>th</sup> Edition and the Replica online platforms. The original 2019 Roadway Impact Fee Study utilized the demand factors using the ITE Trip Generation Manual, 10<sup>th</sup> Edition and the National Household Travel Survey performed by the Federal Highway Administration (FHWA).

The ITE Trip Generation Manual, 11th Edition provides the number of trips that are produced or attracted to the land use for each dwelling unit, square foot of building, or other corresponding unit. For the retail category of land uses, the rate is adjusted to account for the fact that a percentage of retail trips are made by people who would otherwise be traveling past that particular establishment anyway, such as a trip between work and home. 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 passby 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 determined through the Replica online platform. This database serves as an activity-based travel demand model from which several travel parameters can be extracted based on a combination of existing data and projected traffic conditions. Some trips tied to various commercial land uses were assumed by considering traffic within the City of Round Rock. Additionally, trips tied to various industrial land uses were assumed by considering traffic within the counties between Dallas and San Antonio. Trips for all remaining land uses were assumed to be exclusively within the City and County limits.

Compared to the 2019 Roadway Impact Fee Study, the 2023 Roadway Impact Fee Study Update overall projects lower trip lengths and trip rates for residential land uses and projects higher trip lengths and trip rates for non-residential land uses. For example, in ITE Trip Generation Manual, 10th Edition the trip length for single-family housing was 4.30 while in ITE Trip Generation Manual, 11th Edition the trip length decreased to 3.38. The main reason for the decrease is due to the ITE Trip Generation Manual, 11th Edition Manual splitting single-family land use to Single-Family Detach and Single-Family Attached. Refer to Table 11. Land Use Descriptions for an explanation of the two different land uses. Additionally, the trip rate in the original 2019 Roadway Impact Fee Study was 0.99 for single-family and decreased to 0.94 in the 2023 Roadway Impact Fee Study Update.



The computation of the *transportation demand factor* is based on the following equation:

Variables:

$$TDF = T * (1 - P_b) * L_{max}$$
  
where...  $L_{max} = min(L * OD \text{ or } 6)$ 

TDF = Transportation Demand Factor,
T = Trip Rate (peak hour trips / unit),
Pb = Pass-By Discount (% of trips),
Lmax = 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 Round Rock 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 Roadway Impact Fee is charged to both the origin and destination end of the trip. For example, impact fee methodology will account for a trip from home to work within Round Rock 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 National Household Travel Survey. These lengths were developed based on the CAMPO long-range transportation model.

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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, Single Family	Residential, Multifamily	Basic	Service	Retail	
Т	0.94	0.51	0.65	1.44	2.51	
Pb	0%	0%	0%	0%	34%	
L	6.77	6.24	9.99	6.79	6.74	
L <sub>max</sub>	3.38	3.12	4.99	3.40	3.37	
TDF	3.18	1.59	3.24	4.90	8.46	
* L <sub>max</sub> is less than 6 miles for all land uses; therefore this lower trip length is used for calculating the TDF.						

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 growth in total vehicle-miles by service area between the years 2023 – 2033. These estimates and projections lead to the Vehicle-Miles of Travel for both 2023 and 2033.



## Table 6. 10-Year Growth Projections

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

	.000 0.011		••													
SERVICE		RESIDEN'	TIAL VEHICLE	-MILES		NON-RESID	ENTIAL SQUA	TRANS	TRANS. DEMAND FACTOR6			NON-RESIDENTIAL VEHICLE-MILES <sup>10</sup>				
AREA	Single Family Units	Trip Rate	Multi-Family Units	Trip Rate	VEHICLE MILES <sup>4</sup>	BASIC	SERVICE	RETAIL	BASIC <sup>7</sup>	SERVICE <sup>8</sup>	RETAIL <sup>9</sup>	BASIC	SERVICE	RETAIL	TOTAL	VEHICLE MILES <sup>11</sup>
		0.94		0.51					0.65	1.44	2.51					
Α	1,418		2,127		7,892	500,000	1,100,000	300,000			1,620	5,390	2,538	9,548	17,440	
В	1,506	3.18	2,259	4.50	8,383	700,000	600,000	200,000	3.24	4.00	8.46	2,268	2,940	1,692	6,900	15,283
С	717	3.18	3,250	1.59	7,446	0	3,925,000	400,000	3.24	4.90	4.90 8.46	0	19,233	3,384	22,617	30,063
D	340		2,750		5,455	0	220,000	80,000				0	1,078	677	1,755	7,210
Totals	3,981	•	10.387	•	29.175	1,200,000	5.845.000	980.000				3.888	28.641	8.291	40.820	69.995

#### Notes:

Table 7. 10-Year Growth Projections Vehicle Miles of Increase (2023-2033)

SERVICE AREA	VEH-MILES
Α	17,440
В	15,283
С	30,063
D	7,210

<sup>&</sup>lt;sup>1</sup> From City of Round Rock 2023 Land Use Assumptions for Roadway Impact Fees

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

<sup>&</sup>lt;sup>3</sup> Transportation Demand Factor for each Service Area (from LUVMET) using Multifamily Housing (Low-Rise) land use and trip generation rate

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

<sup>&</sup>lt;sup>5</sup> From City of Round Rock 2023 Land Use Assumptions for Roadway Impact Fees

 $<sup>^{\</sup>rm 6}$  Trip generation rate and Transportation Demand Factors from LUVMET for each land use

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

<sup>&</sup>lt;sup>8</sup> 'Service' corresponds to General Office land use and *trip generation rate* 

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

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

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



## V. ROADWAY IMPACT FEE CALCULATION

## A. Maximum Assessable Impact Fee Per Service Unit

This section presents the maximum assessable impact fee rate calculated for each service area. The maximum assessable impact fee is the sum of the eligible RIF 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 8 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. The calculation of the maximum assessable impact fee is shown in Table 9. The Roadway Impact Fee CIP consists of both roadway segment and intersection improvements. The roadway segment component is referred to as the "Roadway Impact Fee CIP," while the intersection component is referred to as the "Intersection Impact Fee CIP."

Table 8. Maximum Assessable Roadway Impact Fee Computation

	Line	Title	Description
I		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
		Roadway Impact Fee CIP	Appendix B – Roadway Impact Fee CIP Units of Supply)

Each project identified in the RIF 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 – Roadway Impact Fee CIP Units of Supply)
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A number of facilities identified in the RIF CIP have traffic currently utilizing a portion of their existing capacity. This line displays the total amount of capacity along these facilities currently being used by existing traffic.

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



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

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

5	Total Cost of the Roadway Impact Fee CIP	The total cost of the roadway projects within each service area (from Table 4: 10-Year Roadway Impact Fee CIP with Conceptual Level
	within the Service Area	Cost Projections)

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

6	Cost of Net Capacity Supplied	The total Roadway Impact Fee 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)]
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Using the ratio of vehicle-miles added by the Roadway Impact Fee CIP available to serve future growth to the total vehicle-miles added, the total cost of the RIF CIP is reduced to the amount available for future growth (i.e. excluding existing usage and deficiencies).

7	Cost to Meet Existing Needs and Usage	The difference between the Total Cost of the Roadway Impact Fee CIP (Line 5) and the Cost of the Net Capacity supplied (Line 6). (Line 5 – Line 6)
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This line is provided for information purposes only – it is to present the portion of the total cost of the Roadway Impact Fee CIP that is required to meet existing demand.

Ī		Total Vehicle-Miles of	Based upon the growth projection provided in the Land Use
	8	New Demand over Ten	Assumptions, an estimate of the number of new vehicle-miles within
		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.

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

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

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

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



Ī		Total Cost of the Intersection	The total cost of the intersection projects within each service area
	12	Impact Fee CIP within the Service	(from Table 4: 10-Year Roadway Impact Fee Capacity
		Area	Improvements Plan with Conceptual Level Cost Projections)

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

	Percent of Intersection Capacity	The result of dividing Total Vehicle-Miles of New Demand (Line
13	Added Attributable to New	8) by the vehicle-mile carrying capacity in each service area
	Growth	(Table 6).

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

14	Cost of Intersection Impact Fee CIP Attributable to New Growth	The result of multiplying the Cost of Net Capacity Added (Line 12) by the Percent of Capacity Added Attributable to New Growth (Line 13). (Line 12 * Line 13)
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This value is the total Intersection Impact Fee CIP project cost (excluding financial costs) that may be recovered through impact fees. This line is determined considering the limitations to impact fees required by the Texas legislature.

15	Cost of Total Roadway Impact Fee CIP Attributable to New Growth	The result of adding the Cost of the Roadway Impact Fee CIP Attributable to new growth (Line 11) to the Cost of the Intersection Impact Fee CIP Attributable to new growth (Line 14) less credits for previous contributions (Line 11 + Line 14).
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This value is the Total Roadway Impact Fee CIP project cost (excluding financial costs) that may be recovered through impact fees. This line is determined considering the limitations to impact fees required by the Texas legislature.

## B. Plan for Financing and the Ad Valorem Tax Credit

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

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

The plan is summarized, as prepared by NewGen Strategies in Appendix D and Appendix E, Plan for Awarding the Roadway Impact Fee Credit. The following table summarizes the portions of Table 9 that utilize this credit calculation.



Line	Title	Description
16	Financing Costs	(from Appendix D – Plan for Awarding the Roadway Impact Fee Credit)
17	Interest Earnings	(from Appendix D – Plan for Awarding the Roadway Impact Fee Credit)
18	Cost of the Roadway Impact Fee 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 15 + Line 16 + Line 17)
19	Pre-Credit Maximum Fee Per Service Unit	Found by dividing the Cost of the CIP and Financing Attributable to New Growth (Line 18) by the Total Vehicle-Miles of New Demand Over Ten Years (Line 8). (Line 18 / Line 8)
20	Credit for Ad Valorem Taxes	A credit for the portion of ad valorem taxes projected to be generated by the new service units, as per Section 395.014 of the Local Government Code. (from Appendix D – Plan for Awarding the Roadway Impact Fee Credit)
21	Recoverable Cost of the Roadway Impact Fee CIP and Financing	The difference between the Cost of the CIP and Financing Attributable to New Growth (Line 18) and the Credit for Ad Valorem Taxes (Line 20). (Line 18 + Line 20)
22	Maximum Assessable Fee Per Service Unit	Found by dividing the Recoverable Cost of the CIP and Financing (Line 21) by the Total Vehicle-Miles of New Demand Over Ten Years (Line 8). (Line 21 / Line 8)



## C. Maximum Assessable Impact Fee Determination

The impact fee determination method employed by NewGen Strategies and Solutions, LLC 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 the following:

- Financing
  - Method of financing (i.e. cash or debt financing)
  - The level of financing (e.g. 50% debt and 50% cash)
  - Cost of financing
  - Debt repayment structure
- Timing and Level of Expenditures and Revenues
- Interest Earnings
- Annual Vehicle Mile Growth
- Portion of Ad Valorem Tax Revenue Used to Fund Impact Fee Roadway Improvements

The assumptions employed in the maximum assessable impact fee determination provide a reasonable basis for forecasting; however, it must be emphasized 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 (Max Fee Table - line 18) is determined, it must then be decided how the cost will be financed: cash and/or debt. For any previously funded projects, whether partially funded or in full, actual costs of capital have been included. Based on discussions with City staff, unless specified otherwise, it is assumed that the City will debt finance 50% of the future project costs, and cash funded the remaining 50%. For debt financing, the cost of financing is based on the City staff 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 cash capital expenditures over the forecast period is indeterminate; therefore, it is assumed that cash 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 expend debt proceeds over a 2-year timeframe. For the calculation of the maximum assessable impact fee, debt is assumed to be issued in equal amounts for every year.

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 to recognize that interest earnings are used to fund only impact fee eligible 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 3.40%, which is the average Texpool 12-month average rate per City Staff.

As with the timing and level of the capital expenditures over the 10-year forecast, the timing and annual level of vehicle mile growth over the 10-year program period is indeterminate at the present time. As such, it is assumed that vehicle mile 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 vehicle miles during the program period that are used for payment of improvements that are included in the Roadway Impact Fee CIP. As an alternative, a credit equal to 50% of the total cost of implementing the Roadway Impact Fee CIP may be used. The City has elected to pursue the determination of a credit for

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the portion of ad valorem tax revenues generated by new vehicle miles during the program period that are used for payment of improvements that are included in the Roadway Impact Fee CIP. It should be noted that the credit is not a determination to recognize the total ad valorem tax revenue generated by new vehicle miles, 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 Roadway Impact Fee CIP. Theoretically, the credit determination could be zero (\$0) if the City does not utilize any of the new vehicle mile ad valorem tax revenue to fund improvements that are included in the Roadway Impact Fee CIP. 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 debt-funded projects (50% of the improvement costs included in the Roadway Impact Fee CIP but not otherwise funded) could potentially be funded by ad valorem tax revenue.

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



Table 9. Maximum Assessable Roadway Impact Fee

	SERVICE AREA:	A	В	С	D
1	TOTAL VEH-MI OF CAPACITY ADDED BY THE ROADWAY IMPACT FEE CIP (FROM ROADWAY IMPACT FEE CIP SERVICE UNITS OF SUPPLY, APPENDIX B)	39,675	71,824	66,389	46,553
2	TOTAL VEH-MI OF EXISTING DEMAND  (FROM ROADWAY IMPACT FEE CIP  SERVICE UNITS OF SUPPLY, APPENDIX B)	8,586	9,264	15,868	2,299
3	TOTAL VEH-MI OF EXISTING DEFICIENCIES (FROM EXISTING ROADWAY FACILITIES INVENTORY, APPENDIX C)	1,589	1,851	1,709	1,192
4	NET AMOUNT OF VEH-MI OF CAPACITY ADDED (LINE 1 - LINE 2 - LINE 3)	29,500	60,709	48,812	43,062
5	TOTAL COST OF THE ROADWAY IMPACT FEE CIP AND STUDY WITHIN SERVICE AREA (FROM TABLES 5A TO 5C)	\$ 219,260,025	\$ 328,071,630	\$ 255,448,918	\$ 176,210,656
6	COST OF NET CAPACITY SUPPLIED (LINE 4 / LINE 1) * (LINE 5)	\$ 163,028,878	\$ 277,301,467	\$ 187,816,846	\$ 162,996,655
7	COST TO MEET EXISTING NEEDS AND USAGE (LINE 5 - LINE 6)	\$ 56,231,147	\$ 50,770,163	\$ 67,632,072	\$ 13,214,001
8	TOTAL VEH-MI OF NEW DEMAND OVER TEN YEARS (FROM TABLE 7 AND LAND USE ASSUMPTIONS)	17,440	15,283	30,063	7,210
9	PERCENT OF CAPACITY ADDED ATTRIBUTABLE TO GROWTH (LINE 8 / LINE 4)	59.1%	25.2%	61.6%	16.7%
10	IF LINE 8 > LINE 4, REDUCE LINE 9 TO 100%, OTHERWISE NO CHANGE	59.1%	25.2%	61.6%	16.7%
11	COST OF ROADWAY IMPACT FEE CIP ATTRIBUTABLE TO GROWTH (LINE 6 * LINE 10)	\$ 96,350,067	\$ 69,879,970	\$ 115,695,177	\$ 27,220,441
12	TOTAL COST OF THE INTERSECTION IMPACT FEE CIP WITHIN SERVICE AREA (FROM TABLES 4A TO 4C)	\$ 7,890,000	\$ 6,295,500	\$ 19,466,500	\$ 5,225,000
13	PERCENT OF INTERSECTION CAPACITY ADDED ATTRIBUTABLE TO GROWTH (FROM TABLE 7 AND LAND USE ASSUMPTIONS)	27.6%	21.1%	19.0%	32.5%
14	COST OF INTERSECTION IMPACT FEE CIP ATTRIBUTABLE TO GROWTH (LINE 12 * LINE 13)	\$ 2,177,640	\$ 1,328,351	\$ 3,698,635	\$ 1,698,125
15	COST OF TOTAL ROADWAY IMPACT FEE CIP ATTRIBUTABLE TO GROWTH (LINE 11 + LINE 14)	\$ 98,527,707	\$ 71,208,321	\$ 119,393,812	\$ 28,918,566
16	FINANCING COSTS (FROM APPENDIX D)	\$ 23,947,285	\$ 17,641,852	\$ 23,280,687	\$ 7,233,864
17	INTEREST EARNINGS (FROM APPENDIX D)	\$ (19,167,248)	\$ (14,107,526)	\$ (22,623,260)	\$ (5,785,589)
18	COST OF THE ROADWAY IMPACT FEE CIP AND FINANCING ATTRIBUTABLE TO NEW GROWTH (LINE 15 + LINE 16 + LINE 17)	\$ 103,307,744	\$ 74,742,647	\$ 120,051,240	\$ 30,366,842
19	PRE-CREDIT MAXIMUM FEE PER SERVICE UNIT (LINE 18 / LINE 8)	\$ 5,924	\$ 4,891	\$ 3,993	\$ 4,212
20	CREDIT FOR AD VALOREM TAXES (FROM APPENDIX D)	\$ (3,196,329)	\$ (1,925,151)	\$ (5,273,827)	\$ (399,023)
21	RECOVERABLE COST OF ROADWAY IMPACT FEE CIP AND FINANCING (LINE 18 + LINE 20)	\$ 100,111,415	\$ 72,817,496	\$ 114,777,413	\$ 29,967,819
22	MAXIMUM ASSESSABLE FEE PER SERVICE UNIT (LINE 21 / LINE 8)	\$ 5,740	\$ 4,765	\$ 3,818	\$ 4,156



## D. Service Unit Demand Per Unit of Development

The Roadway Impact Fee is determined by multiplying the impact fee rate by the number of service units projected for the proposed development. For this purpose, the City will utilize the Land Use/Vehicle-Mile Equivalency Table (LUVMET), presented in Table 10. This table lists the predominant land uses that may occur within the City of Round Rock. 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. The descriptions for each land use are presented in Table 11. 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.

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 in Table 10, if applicable to the land use, presents the percentage 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*, 11<sup>th</sup> 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. However, for land uses not contained within the 11<sup>th</sup> Edition of the *ITE Trip Generation Manual*, an alternative service unit demand could be calculated by completing a trip generation study based on the procedure identified in the *ITE Trip Generation Handbook*.

To convert vehicle trips to vehicle-miles, it is necessary to multiply trips by trip length. The adjusted trip length values are based on the region-wide travel characteristics determined by the Replica online travel demand model. The other adjustment to trip length is the 50% origin-destination reduction to avoid double counting of trips. At this stage, another important aspect of the state law is applied – the limit on transportation service unit demand. If the adjusted trip length is above six (6) miles, the maximum trip length used for calculation is

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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.

For any alternative service unit not represented in the LUVMET, the table below anticipated to be used for trip lengths within the City of Round Rock. The alternative service unit computation should be expressed as a multiplier to computed trip rates to determine the vehicle miles per development unit.

Figure 7- Other Land Uses Trip Length Multiplier

Land Use	Trip Length Multiplier (miles)
Industrial	4.99
Residential	3.38
Lodging	3.91
Office	3.40
Retail & Dining	3.37
School	2.41
Convenience Stop	1.35
All other uses	3.98



Table 10. Land Use / Vehicle-Mile Equivalency Table (LUVMET)

Table 10. Land Use / Vehicle-Mile Equivalency Table (LUVMET)											
Land Use Category La		ITE Land Use Code Development Unit		Pass- by Rate	Pass-by Source	Trip Rate	Trip Length (mi)	2019 Study Trip Length (mi)	Adj. Trip Length (mi)	Max Trip Length (mi)	Veh-Mi Per Dev- Unit
PARKING AREA											
Park-and-Ride Lot with Bus or Light Rail Service	090	Occupied Parking Space(s)	0.55			0.55	8.09	n/a	4.04	4.04	2.22
INDUSTRIAL											
General Light Industrial	110	1,000 SQ FT	0.65			0.65	9.99	12.89	4.99	4.99	3.24
Industrial Park	130	1,000 SQ FT	0.34			0.34	9.99	12.89	4.99	4.99	1.70
Manufacturing	140	1,000 SQ FT	0.47			0.47	9.99	12.89	4.99	4.99	2.35
Warehousing	150	1,000 SQ FT	0.18			0.18	9.99	12.89	4.99	4.99	0.90
Mini-Warehouse	151	1,000 SQ FT	0.15			0.15	9.99	12.89	4.99	4.99	0.75
High-Cube Transload and Short-Term Storage Warehouse	154	1,000 SQ FT	0.10			0.10	9.99	n/a	4.99	4.99	0.50
High-Cube Fulfillment Center Warehouse	155	1,000 SQ FT	0.16			0.16	9.99	n/a	4.99	4.99	0.80
High-Cube Parcel Hub Warehouse	156	1,000 SQ FT	0.64			0.64	9.99	n/a	4.99	4.99	3.19
High-Cube Cold Storage Warehouse	157	1,000 SQ FT	0.12			0.12	9.99	n/a	4.99	4.99	0.60
Data Center	160	1,000 SQ FT	0.09			0.09	8.09	n/a	4.05	4.05	0.36
Utilities	170	1,000 SQ FT	2.16			2.16	8.09	n/a	4.05	4.05	8.75
Specialty Trade Contractor	180	1,000 SQ FT	1.93			1.93	8.09	n/a	4.05	4.05	7.82
RESIDENTIAL											
Single-Family Detached Housing	210	Dwelling Unit	0.94			0.94	6.77	8.59	3.38	3.38	3.18
Single-Family Attached Housing	215	Dwelling Unit	0.57			0.57	6.77	n/a	3.38	3.38	1.93
Multifamily Housing (Low-Rise)	220	Dwelling Unit	0.51			0.51	6.24	8.59	3.12	3.12	1.59
Multifamily Housing (Mid-Rise)	221	Dwelling Unit	0.39		***************************************	0.39	6.24	8.59	3.12	3.12	1.22
Multifamily Housing (High-Rise)	222	Dwelling Unit	0.32		***************************************	0.32	6.24	8.59	3.12	3.12	1.00
Off-Campus Student Apartment	225	Bedrooms	0.24			0.24	6.24	n/a	3.12	3.12	0.75
Off-Campus Student Apartment (Mid-Rise)	226	Bedrooms	0.21			0.21	6.24	n/a	3.12	3.12	0.66
Off-Campus Student Apartment (High-Rise)	227	Bedrooms	0.04			0.04	6.24	n/a	3.12	3.12	0.12
Mobile Home Park	240	Dwelling Unit	0.58			0.58	6.77	8.59	3.38	3.38	1.96
Senior Adult Housing-Detached	251	Dwelling Unit	0.30	***************************************		0.30	6.24	8.59	3.12	3.12	0.94
Senior Adult Housing-Attached	252	Dwelling Unit	0.25			0.25	6.24	8.59	3.12	3.12	0.78
Congregate Care Facility	253	Dwelling Unit	0.18			0.18	6.24	n/a	3.12	3.12	0.56
Assisted Living	254	Beds	0.26			0.26	6.24	8.59	3.12	3.12	0.81
Continuing Care Retirement Community	255	Units	0.19			0.19	6.24	n/a	3.12	3.12	0.59
Recreational Homes	260	Dwelling Unit	0.29		***************************************	0.29	6.24	n/a	3.12	3.12	0.90
Timeshare	265	Dwelling Unit	0.63			0.63	6.24	n/a	3.12	3.12	1.97
Residential Planned Unit Development	270	Dwelling Unit	0.69			0.69	6.77	n/a	3.38	3.38	2.33
LODGING											
Hotel	310	Room	0.59			0.59	7.81	5.41	3.91	3.91	2.31
All Suites Hotel	311	Room	0.36		***************************************	0.36	7.81	n/a	3.91	3.91	1.41
Business Hotel	312	Room	0.31			0.31	7.81	n/a	3.91	3.91	1.21
Motel	320	Room	0.36			0.36	7.81	5.41	3.91	3.91	1.41
Resort Hotel	330	Room	0.41			0.41	7.81	n/a	3.91	3.91	1.60
RECREATIONAL											
Public Park	411	Acres	0.11			0.11	6.70	n/a	3.35	3.35	0.37
Golf Course	430	Holes	0.28			0.28	6.70	6.35	3.35	3.35	0.94
Golf Driving Range	432	Driving Positions	1.25			1.25	6.70	6.35	3.35	3.35	4.19
Batting Cages	433	Cages	2.22			2.22	7.81	n/a	3.91	3.91	8.68
Multipurpose Recreational Facility	435	1,000 SQ FT	3.58			3.58	7.81	n/a	3.91	3.91	14.00
Trampoline Park	436	1,000 SQ FT	1.50			1.50	7.81	n/a	3.91	3.91	5.87
Bowling Alley	437	Lanes	1.30			1.30	7.81	n/a	3.91	3.91	5.08
Movie Theater (Friday)	445a	1,000 SQ FT	4.80			4.80	7.81	n/a	3.91	3.91	18.77
Ice Skating Rink	465	1,000 SQ FT	1.33			1.33	7.81	6.35	3.91	3.91	5.20
Cas ino	473	1,000 SQ FT	22.61			22.61	7.81	n/a	3.91	3.91	88.41
Soccer Complex	488	Fields	16.43			16.43	6.70	n/a	3.35	3.35	55.04
Health/Fitness Club	492	1,000 SQ FT	3.45			3.45	7.81	n/a	3.91	3.91	13.49
Athletic Club	493	1,000 SQ FT	6.29			6.29	7.81	n/a	3.91	3.91	24.59

Key to Sources of Pass-by Rates:

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

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

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



Table 10 (Cont'd). Land Use / Vehicle-Mile Equivalency Table (LUVMET)

Land Use Category	ITE Land Use Code	Development Unit	Trip Gen Rate (PM)	Pass- by Rate	Pass-by Source	Trip Rate	Trip Length (mi)	2019 Study Trip Length (mi)	Adj. Trip Length (mi)	Max Trip Length (mi)	Veh-Mi Per Dev- Unit
INSTITUTIONAL											
Elementary School	520	Students	0.16			0.16	4.81	n/a	2.41	2.41	0.39
Middle School/Junior High School	522	Students	0.15			0.15	4.81	3.39	2.41	2.41	0.36
High School	525	Students	0.14			0.14	4.81	n/a	2.41	2.41	0.34
Private School (K-8)	530	Students	0.26			0.26	4.81	n/a	2.41	2.41	0.63
Private School (K-12)	532	Students	3.00			3.00	4.81	n/a	2.41	2.41	7.23
Private High School	534	Students	0.19			0.19	4.81	n/a	2.41	2.41	0.46
Charter Elementary School (1)	536	Students	0.16			0.16	4.81	n/a	2.41	2.41	0.39
Charter School (K-12)	538	Students	0.30			0.30	4.81	n/a	2.41	2.41	0.72
Junior / Community College	540	Students	0.11			0.11	4.81	3.39	2.41	2.41	0.27
University / College	550	Students	0.15			0.15	7.95	3.39	3.98	3.98	0.60
Church	560	1,000 SQ FT	0.49			0.49	7.95	6.30	3.98	3.98	1.95
Day Care Center	565	1,000 SQ FT	11.12	44%	A	6.23	7.95	3.39	3.98	3.98	24.80
Cemetry	566	Acres	0.46			0.46	7.95	n/a	3.98	3.98	1.83
Fire Rescue Station	575	1,000 SQ FT	0.48			0.48	7.95	n/a	3.98	3.98	1.91
Library	590	1,000 SQ FT	8.16			8.16	7.95	n/a	3.98	3.98	32.48
MEDICAL											
Hospital	610	1,000 SQ FT	0.86			0.86	7.96	6.76	3.98	3.98	3.42
Nursing Home	620	Beds	0.59			0.59	7.96	6.76	3.98	3.98	2.35
Clinic	630	1,000 SQ FT	3.69			3.69	7.96	6.76	3.98	3.98	14.69
Animal Hospital/Veterinary Clinic	640	1,000 SQ FT	3.53			3.53	7.96	6.76	3.98	3.98	14.05
Free-Standing Emergency Room	650	1,000 SQ FT	1.52			1.52	7.96	n/a	3.98	3.98	6.05
OFFICE											
General Office Building	710	1,000 SQ FT	1.44			1.44	6.79	6.76	3.40	3.40	4.90
Small Office Building	712	1,000 SQ FT	2.16			2.16	6.79	n/a	3.40	3.40	7.34
Corporate Headquarters Building	714	1,000 SQ FT	1.30			1.30	6.79	6.76	3.40	3.40	4.42
Single Tenant Office Building	715	1,000 SQ FT	1.76			1.76	6.79	6.76	3.40	3.40	5.98
Medical-Dental Office Building	720	1,000 SQ FT	3.93			3.93	6.79	6.76	3.40	3.40	13.36
Government Office Building	730	1,000 SQ FT	1.71			1.71	6.79	n/a	3.40	3.40	5.81
State Motor Vehicles Department	731	1,000 SQ FT	5.20			5.20	6.79	n/a	3.40	3.40	17.68
United States Post Office	732	1,000 SQ FT	11.21			11.21	6.79	n/a	3.40	3.40	38.11
Office Park	750	1,000 SQ FT	1.07			1.07	6.79	6.76	3.40	3.40	3.64
Business Park	770	1,000 SQ FT	1.22			1.22	6.79	n/a	3.40	3.40	4.15
COMMERCIAL											
Automobile Related											
Automobile Sales (New)	840	1,000 SQ FT	2.42			2.42	6.74	n/a	3.37	3.37	8.16
Automobile Sales (Used)	841	1,000 SQ FT	3.75			3.75	6.74	5.41	3.37	3.37	12.64
Automobile Parts Sales	843	1,000 SQ FT	4.90			4.90	6.74	5.41	3.37	3.37	16.51
Tire Store	848	1,000 SQ FT	3.75	28%	A	2.70	6.74	5.41	3.37	3.37	9.10
Tire Superstore	849	1,000 SQ FT	2.11			2.11	6.74	n/a	3.37	3.37	7.11
Quick Lubrication Vehicle Shop	941	Servicing Positions	4.85			4.85	6.74	5.41	3.37	3.37	16.34
Automobile Care Center	942	1,000 SQ FT	3.11			3.11	6.74	5.41	3.37	3.37	10.48
Automobile Parts and Service Center	943	1,000 SQ FT	2.06			2.06	6.74	n/a	3.37	3.37	6.94
Gas oline/Service Station	944	Vehicle Fueling Position	14.03	42%	A	8.14	2.70	1.20	1.35	1.35	10.99
Casoline/Service Station w/ Conv Market	945	Vehicle Fueling Position	18.42	62%	A	7.00	2.70	1.20	1.35	1.35	9.45
Self-Service Car Wash	947	Stall	5.54			5.54	2.70	1.20	1.35	1.35	7.48
Truck Stop	950	Fueling Postions	15.42			15.42	2.70	n/a	1.35	1.35	20.82

Key to Sources of Pass-by Rates:

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



Table 10 (Cont'd). Land Use / Vehicle-Mile Equivalency Table (LUVMET)

Land Use Category	ITE Land Use Code	Development Unit	Trip Gen Rate (PM)	Pass- by Rate	Pass-by Source	Trip Rate	Trip Length (mi)	2019 Study Trip Length (mi)	Adj. Trip Length (mi)	Max Trip Length (mi)	Veh-Mi Per Dev- Unit
Dining											
Food Cart Pod	926	1,000 SQ FT	6.16			6.16	6.74	n/a	3.37	3.37	20.76
Fast Casual Restaurant	930	1,000 SQ FT	12.55	44%	В	7.03	6.74	n/a	3.37	3.37	23.69
Fine Dining Restaurant	931	1,000 SQ FT	7.80	44%	A	4.37	6.74	n/a	3.37	3.37	14.73
High Turnover (Sit-Down) Restaurant	932	1,000 SQ FT	9.05	43%	A	5.16	6.74	5.41	3.37	3.37	17.39
Fast Food Restaurant without Drive-Thru Window	933	1,000 SQ FT	33.21	44%	В	18.60	6.74	3.39	3.37	3.37	62.68
Fast Food Restaurant with Drive-Thru Window	934	1,000 SQ FT	33.03	49%	A	16.85	6.74	3.39	3.37	3.37	56.78
Fast-Food Restaurant w/ D.T. No Indoor Seats	935	Drive-in Lanes	59.50	49%	В	30.35	6.74	n/a	3.37	3.37	102.28
Coffee/Donut Shop w/o D.T.	936	1,000 SQ FT	32.29	49%	В	16.47	6.74	n/a	3.37	3.37	55.50
Coffee/Donut Shop with Drive-Thru Window	937	1,000 SQ FT	43.38	49%	В	22.12	6.74	1.20	3.37	3.37	74.54
Coffee/Donut Shop w/ D.T. No Indoor Seats	938	1,000 SQ FT	15.08	49%	В	7.69	6.74	n/a	3.37	3.37	25.92
Winery	970	1,000 SQ FT	7.31			7.31	6.74	n/a	3.37	3.37	24.63
Drinking Place	975	1,000 SQ FT	11.36			11.36	6.74	n/a	3.37	3.37	38.28
Other Retail											
Tractor Supply Store	810	1,000 SQ FT	1.40			1.40	6.74	n/a	3.37	3.37	4.72
Construction Equipment Rental Store	811	1,000 SQ FT	0.99			0.99	6.74	n/a	3.37	3.37	3.34
Free-Standing Store	815	1,000 SQ FT	4.86	17%	A	4.03	6.74	n/a	3.37	3.37	13.58
Hardware/Paint Store	816	1,000 SQ FT	2.98	26%	A	2.21	6.74	n/a	3.37	3.37	7.45
Nursery (Garden Center)	817	1,000 SQ FT	6.94			6.94	6.74	6.35	3.37	3.37	23.39
Shopping Center (>150k)	820	1,000 SQ FT GLA	3.81	34%	A	2.51	6.74	6.35	3.37	3.37	8.46
Shopping Plaza (40k - 150k) (Supermarket)	821	1,000 SQ FT GLA	9.03	34%	В	5.96	6.74	n/a	3.37	3.37	20.09
Shopping Plaza (40k - 150k) (No Supermarket)	821a	1,000 SQ FT GLA	5.19	34%	В	3.43	6.74	n/a	3.37	3.37	11.56
Strip Retail Plaza (<40k)	822	1,000 SQ FT GLA	25.00	34%	В	16.50	6.74	n/a	3.37	3.37	55.61
Factory Outlet Center	823	1,000 SQ FT	2.29			2.29	6.74	n/a	3.37	3.37	7.72
Recreational Vehicle Sales	842	1,000 SQ FT	0.77			0.77	6.74	n/a	3.37	3.37	2.59
Supermarket	850	1,000 SQ FT	8.95	36%	A	5.73	6.74	6.35	3.37	3.37	19.31
Convienence Market	851	1,000 SQ FT	49.11	51%	A	24.06	6.74	n/a	3.37	3.37	81.08
Discount Club	857	1,000 SQ FT	4.19	37%	A	2.64	6.74	n/a	3.37	3.37	8.90
Sporting Goods Superstore	861	1,000 SQ FT	2.14			2.14	6.74	n/a	3.37	3.37	7.21
Home Improvement Superstore	862	1,000 SQ FT	2.29	42%	A	1.33	6.74	6.35	3.37	3.37	4.48
Electronics Superstore	863	1,000 SQ FT	4.25			4.25	6.74	n/a	3.37	3.37	14.32
Pet Supply Superstore	866	1,000 SQ FT	3.55			3.55	6.74	n/a	3.37	3.37	11.96
Office Supply Superstore	867	1,000 SQ FT	2.77			2.77	6.74	n/a	3.37	3.37	9.33
Discount Home Furnishing Superstore	869	1,000 SQ FT	1.57			1.57	6.74	n/a	3.37	3.37	5.29
Department Store	875	1,000 SQ FT	1.95			1.95	6.74	6.35	3.37	3.37	6.57
Apparel Store	876	1,000 SQ FT	4.12			4.12	6.74	n/a	3.37	3.37	13.88
Pharmacy/Drugstore w/o Drive-Thru Window	880	1,000 SQ FT	8.51	53%	A	4.00	6.74	6.35	3.37	3.37	13.48
Pharmacy/Drugstore w/ Drive-Thru Window	881	1,000 SQ FT	10.25	49%	A	5.23	6.74	6.35	3.37	3.37	17.63
Furniture Store	890	1,000 SQ FT	0.52	53%	A	0.24	6.74	n/a	3.37	3.37	0.81
Liquor Store (1)	899	1,000 SQ FT	16.62			16.62	6.74	n/a	3.37	3.37	56.01
SERVICES											
Walk-In Bank	911	1,000 SQ FT	12.13	35%	В	7.88	7.95	3.39	3.98	3.98	31.36
Drive-In Bank	912	Drive-in Lanes	21.01	35%	A	13.66	7.95	3.39	3.98	3.98	54.37

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## Table 11. Land Use Descriptions

Land Use Category PARKING AREA	ITE Land Use Code	Land Use Description
Park-and-Ride Lot with Bus or Light Rail Service	090	Area used for the transfer of people between private vehicles and buses or light rail
INDUSTRIAL	0,0	Area used for the transfer of people between private venices and buses of agric ran
General Light Industrial	110	Facility has an emphasis on activities other than manufacturing and typically has minimal office space
Industrial Park	130	A mix of manufacturing, service, and warehouse facilities with a wide variation in the proportion of each type of use from one location to another
Manufacturing	140	Primary activity is conversion of raw materials or parts into finished products
Warehousing	150	Devoted to storage of materials but may included office and maintenance areas
Mini-Warehouse	151	Facilities with a number of units rented to others for the storage of goods
William Walcilouse	131	A transload facility typically has little storage duration, high throughput, and its operations are high efficiency. A short-term
		HCW is a distribution facility often with custom/special features built into the structure for the movement of large volumes
High-Cube Transload and Short-Term Storage Warehouse	154	of freight with only short-term storage of products.
		Building that typically has at least 200,000 gross square feet of floor area, has a ceiling height of 24 feet or more, and is used primarily for the storage and/or consolidation of manufactured goods (and to a lesser extent, raw materials) prior to their
High-Cube Fulfillment Center Warehouse	155	distribution to retail locations or other warehouses
High-Cube Parcel Hub Warehouse	156	Typically serves as a regional and local freight-forwarder facility for time sensitive shipments via airfreight and ground carriers
High-Cube Cold Storage Warehouse	157	Has substantial temperature-controlled environments for frozen food and other perishable products
		A free-standing warehouse type of facility that is primarily used for off-site storage of computer systems and associated
Data Center	160	components including applications and secure data
Utilities	170	A free-standing building that can house office space, a storage area, and electromechanical or industrial equipment that support a local electrical, communication, water supply or control, or sewage treatment utility
Specialty Trade Contractor	180	A business primarily involved in providing contract repairs and services to meet industrial or residential needs
RESIDENTIAL	100	
Single-Family Detached Housing	210	Single-family detached homes on individual lots
	215	Any single-family housing unit that shares a wall with an adjoining dwelling unit, whether the walls are for living space, a vehicle garage, or storage space
Single-Family Attached Housing	215	Includes apartments, townhouses, and condominiums located within the same building with at least three other dwelling
Multifamily Housing (Low-Rise)	220	units and that have two or three floors
Multifamily Housing (Mid-Rise)	221	Includes apartments and condominiums located in a building that has between four and 10 floors of living space
Multifamily Housing (High-Rise)	222	Includes apartments, townhouses, and condominiums. Each building has more than 10 floors of living space.
Off-Campus Student Apartment	225	Student apartment (low-rise) complex houses college or university students in structures with two or three floors of living space
Off-Campus Student Apartment (Mid-Rise)	226	Complex houses college or university students in structures with between four and 10 floors of living space
Off-Campus Student Apartment (High-Rise)	227	Complex houses college or university students in structures with more than 10 floors of living space
Mobile Home Park	240	Generally consists of manufactured homes that are sited and installed on permanent foundations
Senior Adult Housing-Detached	251	Consists of detached independent living developments that include amenities such as golf courses and swimming pools
Senior Adult Housing-Attached	252	Consists of attached independent living developments that include limited social or recreation services
Congregate Care Facility	253	An independent living development that provides centralized amenities such as dining, housekeeping, communal transportation, and organized social/recreational activities
Assisted Living	254	Residential settings that provide either routine general protective oversight or assistance with activities.
Assisted Living	2.54	Enables a resident to transition in place from independent living to increased care as the medical needs of the resident
		change. Housing options may include various combinations of senior adult housing (both single-family and multifamily),
Continuing Care Retirement Community	255	congregate care, assisted living, and nursing home
Recreational Homes	260	Either (1) a second home used by its owner periodically for recreation or (2) rented on a seasonal basis
		Development where multiple purchasers buy interests in the same property and each purchaser receives the right to use the
Timeshare	265	facility for a period of time each year
Residential Planned Unit Development	270	Containing any combination of residential land uses. These developments might also contain supporting services such as limited retail and recreational facilities
LODGING	-/-	
		Lodging that provides sleeping accommodations and supporting facilities such as a full-service restaurant, cocktail lounge,
Hotel	310	meeting rooms, banquet room, and convention facilities
All Suites Hotel	311	Lodging that provides sleeping accommodations, a small restaurant and lounge, and small amounts of meeting space. Each suite includes a sitting room and separate bedroom.
Business Hotel	312	Lodging aimed toward the business traveler but also accommodates a growing number of recreational travelers
Motel	320	Lodging facilities that may have small on-site restaurant or buffet area but little or no meeting space
Resort Hotel	330	Provides sleeping accomodations, and caters to the tourist and vacation industry, often providing a wide variety of recreational facilities/programs



# Table 11 (Cont'd). Land Use Descriptions

Land Use Category	ITE Land Use Code	Land Use Description
RECREATIONAL		
Public Park	411	Public park is owned and operated by a municipal, county, state, or federal agency. The parks surveyed vary widely as to location, type, and number of facilities, including boating or swimming facilities, beaches, hiking trails, ball fields, soccer fields, campsites, and picnic facilities.
		May include municipal courses and private country clubs; may have driving ranges, pro shops, and restaurant/banquet
Golf Course	430	facilities Facilities with driving tees for practice; may provide individual or group lessons; may have prop shop and/or refreshment
Golf Driving Range	432	facilities
Batting Cages	433	Area for batting practice that is enclosed by fencing or netting
		Contains two or more of the following land uses combined at one site: miniature golf, batting cages, video arcade, bumper boats, go-carts, and golf driving
Multipurpose Recreational Facility	435	range. A refreshment area may also be provided
		Recreational facility that houses wall-to-wall trampolines and other facilities such as climbing walls, gymnastics tumble tracks, inflatable basketball, dodge ball facilities, foam
Trampoline Park	436	pits, and warrior courses
		A recreational facility that includes bowling lanes. A small lounge, restaurant
Bowling Alley	437	and/or snack bar, video games, and pool tables may also be available.  Place where movies are screened for public entertainment. A theater includes
Movie Theater (Friday)	445a	a lobby, refres hment area, and audience seating for each movie screen.
Ice Skating Rink	465	Rinks for ice skating and related sports; may contain spectator areas and refreshment facilities
		Facility that exists for the primary purpose of deriving revenue from gaming operations. The games conducted at these facilities include but are not limited to table games,
Casino	473	electronic slot machines, video poker and lottery games, and electronic table games.
Soccer Complex	488	Facility that is used for non-professional soccer games. It may consist of multiple fields.
Health/Fitness Club	492	A privately-owned facility that primarily focuses on individual fitness or training
Athletic Club	493	A privately-owned facility that offers comprehensive athletic facilities. An athletic club typically has courts for racquet sport; a basketball court; a sauna or spa; and fitness, exercise, and weightlifting rooms
Recreational Community Center	495	Category includes racquet clubs, health/fitness clubs, can include facilities such as YMCA's
INSTITUTIONAL		
Elementary School	520	A public school that typically serves students attending kindergarten through the fifth or sixth grade
Middle School/Junior High School	522	Serves students who have not yet entered high school
High School	525	A public school that serves students who have completed middle or junior high school
Private School (K-8)	530	A private school (K-8) serves students attending kindergarten through the eighth grade.
Private School (K-12)	532	A private school (K-12) serves students attending kindergarten through the 12th grade
Private High School	534	A private high school serves students who have completed middle school, junior high school, or an elementary school that takes students through 8th grade.
Charter Elementary School (1)	536	An elementary school that is publicly funded and privately managed. The school serves students attending kindergarten through the fifth, sixth, or eighth grade.
Cl. (c. C. t 1 (W. 12)	520	A school that is publicly funded and privately managed. The school serves students attending kindergarten through the 12th grade.
Charter School (K-12) Junior / Community College	538 540	Two-year junior, community, or technical colleges
University / College	550	Four-year universities or colleges that may or may not offer graduate programs
Church	560	Churches and houses of worship
		Generally includes facilities for care of pre-school aged children, generally includes classrooms, offices, eating areas, and
Day Care Center	565	playgrounds
Cemetry	566	Place for burying the deceased, possibly including buildings used for funeral services, a mausoleum, and a crematorium.  A building that houses emergency services equipment, firefighting apparatus, and the individuals that provide emergency
Fire Rescue Station	575	firefighting services
Library	590	A facility that houses shelved books and reading rooms or areas
MEDICAL		
Hospital	610	Medical and surgical facilities with overnight accommodations
Nursing Home Clinic	620	Rest and convalescent homes with residents who do little or no driving
Animal Hospital/Veterinary Clinic	640	Facilities with limited diagnostic and outpatient care  Rest and convalescent homes with residents who do little or no driving
		A facility that specializes in personal medical care and treatment of people. They are typically open 24 hours a day, 7 days a
Free-Standing Emergency Room	650	week, 365 days per year.
OFFICE General Office Building	710	Office buildings which house multiple tenants
Small Office Building	710	Office building with less than or equal to 10,000 square feet of gross floor area
Corporate Headquarters Building	714	Office building housing corporate headquarters of a single company or organization
Single Tenant Office Building	715	Single tenant office buildings other than corporate headquarters
Medical-Dental Office Building	720	Multi-tenant building with offices for physicians and/or dentists
Government Office Building	730	An individual building containing either the entire function or simply one agency of a city, county, state, federal, or other governmental unit
State Motor Vehicles Department	731	an office-type building where driver license testing, vehicle registration, and other related functions are administered
United States Post Office	732	A federal building that contains service windows for mailing packages and letters, post office boxes, offices, sorting and distributing facilities for mail, and vehicle storage areas
Office Park	750	Office buildings (typically low-rise) in a campus setting and served by a common roadway system
Business Park	770	Group of flex-type or incubator one- or two-story buildings served by a common roadway system
1		



# Table 11 (Cont'd). Land Use Descriptions

	ITE	
Land Use Category		Land Use Description
		·
	Code	
COMMERCIAL		
Automobile Related		
Automobile Sales (New)	840	Sale or leasing of new cars is the primary business at these facilities
Automobile Sales (Used)	841	Sale or leasing of used cars is the primary business at these facilities
Automobile Parts Sales	843	Retail sale of auto parts but no on-site vehicle repair
Tire Store	848	Primary business is sales and installation of tires; usually do not have large storage or warehouse area
Tire Superstore	849	A warehouse-like facility with the primary function of selling and installing tires for automobiles and small trucks
Quick Lubrication Vehicle Shop	941	Primary business is to perform oil changes and fluid/filter changes with other repair services not provided
Automobile Care Center	942	Automobile repair and servicing including stereo installations and upholstering
Automobile Parts and Service Center	943	Sells automobile parts for do-it-yourself maintenance and repair including tires, batteries, oil, and sparks plugs
Gasoline/Service Station	944	Casoline sales without convenience store or car wash; may include repair
Gasoline/Service Station w/ Conv Market	945	Casoline sales with convenience store and car washes where the primary business is gasoline sales
Self-Service Car Wash	947	Has stalls for driver to park and wash the vehicle
Seir-Seivice Cai wasii	247	Facility located adjacent to an interstate highway interchange that provides commercial vehicle fueling, space and supplies
Truck Stop	950	for self-service vehicle maintenance
Dining		
Food Cart Pod	926	A group of food carts or food trucks congregated in an established location
Fast Casual Restaurant		
	930	A sit-down restaurant with no (or very limited) wait staff or table service
Fine Dining Restaurant	931	A full-service eating establishment with a typical duration of stay of at least 1 hour
High Turnover (Sit-Down) Restaurant	932	Restaurants with tumover rates less than one hour, typically includes moderately-priced chain restaurants
Fast Food Restaurant without Drive-Thru Window	933	High-turnover fast food restaurant for carry-out and eat-in customers, but without a drive-thru window
Fast Food Restaurant with Drive-Thru Window	934	High-turnover fast food restaurant for carry-out and eat-in customers with a drive-thru window
Fast-Food Restaurant w/ D.T. No Indoor Seats	935	Any fast-food restaurant that provides drive-through service only
Coffee/Donut Shop w/o D.T.	936	Any coffee and donut restaurant that does not have a drive-through window
Coffee/Donut Shop with Drive-Thru Window	937	Any coffee and donut restaurant that has a drive-through window as well as a walk-in entrance area
Coffee/Donut Shop w/ D.T. No Indoor Seats	938	Any coffee and donut restaurant that has only drive-through window service
Wine Tasting Room	970	Designated area found in conjunction with a winery in which customers can try samples of a winery's products
Drinking Place	975	Contains a bar, where alcoholic beverages and food are sold, and possibly some type of entertainment
Other Retail		
Tractor Supply Store	810	A free-standing facility that specializes in the sale of agricultural and garden equipment
Construction Equipment Rental Store	811	A business that specializes in the rental of construction equipment tools and supplies
		Category includes free-standing stores with off-street parking; typically offer a variety of products and services with long
Free-Standing Store	815	store hours
Hardware/Paint Store	816	A free-standing building that sells hardware and paint supplies
Nursery (Garden Center)	817	Building with a yard of planting or landscape stock; may have office, storage, shipping or greenhouse facilities
Shopping Center (>150k)	820	Integrated group of commercial establishments; planning, owned, and managed as a unit
Shopping Plaza (40k - 150k) (Supermarket)	821	An integrated group of commercial establishments that is planned, developed, owned, and managed as a unit
Shopping Plaza (40k - 150k) (No Supermarket)	821a	An integrated group of commercial establishments that is planned, developed, owned, and managed as a unit
		Integrated group of commercial establishments that is planned, developed, owned, and managed as a unit. Each study site in
Strip Retail Plaza (<40k)	822	this land use has less than 40,000 square feet of gross leasable area (GLA)
		A shopping center that primarily houses factory outlet stores, attracting customers from a wide geographic area, very often
Factory Outlet Center	823	from a larger area than a regional shopping center
Recreational Vehicle Sales	842	Free-standing facility that specializes in the sales of new RVs
		Primary business is sale of groceries, food, and household cleaning items; may include photo, pharmacy, video rental, and/or
Supermarket	850	ATM
		A small retail business that sells grocery and other everyday items that a person may need or want as a matter of
Convienence Market	851	convenience
Provide Class	057	A discount store or warehouse where shoppers pay a membership fee in order to take advantage of discounted prices on a
Discount Club	857	wide variety of items
Sporting Goods Superstore	861	Businesses specializing in child-oriented merchandise
Home Improvement Superstore	862	Warehouse-type facilities offering a large variety of products and services including lumber, tool, paint, lighting, and fixtures, among other items.
Electronics Superstore	863	A free-standing facility that specializes in the sale of electronic merchandise
Pet Supply Superstore	866	A free-standing facility that specializes in the sale of pets and pet supplies, food, and accessories
Office Supply Superstore	867	A free-standing facility that specializes in the sale of office equipment and supplies
Discount Home Furnishing Superstore	869	Free-standing facility that sells an extensive variety of home furnishings and accessories
Department Store	875	Free-standing stores that specialize in the sale of apparel, footwear, bedding, home products, jewelry, etc.
Apparel Store	876	An individual store specializing in the sale of clothing
Pharmacy/Drugstore w/o Drive-Thru Window	880	Facilities that primarily sell prescription and non-prescription drugs without a drive-through window
Pharmacy/Drugstore w/ Drive-Thru Window	881	Facilities that primarily sell prescription and non-prescription drugs with a drive-through window
Marijuana Dispensary	882	Stand-alone facility where cannabis is sold to patients or retail consumers in a legal manner
Furniture Store	890	Full-service retail facility that specializes in the sale of furniture and often carpeting
Liquor Store (1)	899	Specializes in the sale of prepackaged alcoholic beverages intended to be consumed off the store's premises
SERVICES		* * * *
Walk-In Bank	911	Banks with their own parking lots, no drive-in lanes but contain non-drive-through ATMs
Drive-In Bank	912	Banking facilities to conduct financial transactions from the vehicle; also usually apart of walk-in bank
Dire in Duite	/14	Dannang memory to conduct imaneut transactions from the vehicle, also usually apart of wait-in bank



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

## Example 1:

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

_	
	Roadway Impact Fee Calculation Steps – Example 1
	Determine Development Unit and Vehicle-Miles Per Development Unit
Stan	From Table 9 [Land Use – Vehicle-Mile Equivalency Table]
Step 1	Development Type: 1 Dwelling Unit of Single-Family Detached Housing Number of Development Units: 1 Dwelling Unit Veh-Mi Per Development Unit: 3.18
Ston	Determine Maximum Assessable Impact Fee Per Service Unit (Vehicle-Mile)
Step 2	From Table 9, Line 19 [Maximum Assessable Fee Per Service Unit]
	Service Area A: \$5,740
	Determine Maximum Assessable Impact Fee
Step 3	Impact Fee = # of Development Units * Veh-Mi Per Dev Unit * Max. Fee Per Service Unit Impact Fee = 1 * 3.18 * \$5,740 Maximum Assessable Impact Fee = \$18,253.20

Example 2: Development Type – 100,000 square foot Home Improvement Superstore in Service Area C

	Roadway Impact Fee Calculation Steps – Example 2
	Determine Development Unit and Vehicle-Miles Per Development Unit
Step	From Table 9 [Land Use - Vehicle-Mile Equivalency Table]
1	Development Type: 100,000 square feet of Home Improvement Superstore Development Unit: 1,000 square feet of Gross Floor Area Veh-Mi Per Development Unit: 4.48
Cton	Determine Maximum Assessable Impact Fee Per Service Unit (Vehicle-Mile)
Step 2	From Table 9, Line 19 [Maximum Assessable Fee Per Service Unit]
	Service Area C: \$3,818
	Determine Maximum Assessable Impact Fee
Step 3	Impact Fee = # of Development Units * Veh-Mi Per Dev Unit * Max. Fee Per Service Unit
3	Impact Fee = 100 * 4.48 * \$3,818 Maximum Assessable Impact Fee = \$1,710,464



## ADOPTION AND ADMINISTRATION OF ROADWAY IMPACT FEES

## A. Adoption Process

Chapter 395 of the Texas Local Government Code stipulates a specific process for the adoption of Roadway Impact Fees. A Capital Improvements Advisory Committee (CIAC) is required to review the Land Use Assumptions and Roadway Impact Fees CIP used in calculating the maximum fee, and to provide the Committee's findings for consideration by the City Council. This CIAC also reviews the calculation and resulting maximum fees and provides its findings to the City Council. The composition of the CIAC is required to adequately represent the building and development communities. The City Council then conducts a public hearing on the Land Use Assumptions, RIF CIP and Impact Fee Ordinance. One public hearing is required for the 2023 Roadway Impact Fee Study Update, per Chapter 395.054.

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

# B. Collection and Use of Roadway Impact Fees

Roadway 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. Roadway 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.



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

This report establishes the maximum allowable Roadway Impact Fee that could be assessed by the City of Round Rock, as shown in the previously referenced Table 9. This document serves as a guide to the assessment of Roadway 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 collected, up to the calculated maximum and establish the Roadway 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 Roadway Impact Fee Capital Improvements Plan are appropriately incorporated into the development of the maximum assessable Roadway Impact Fee.

Below is the listing of the 2023 Roadway Impact Fee Study Update's Maximum Assessable Impact Fee Per Service Unit (Vehicle-Mile):

Service Area	2019 Maximum Fee Per Service Unit (per Vehicle-Mile)	2023 Maximum Fee Per Service Unit (per Vehicle-Mile)
Α	\$2,678	\$5,740
В	\$2,933	\$4,765
С	\$2,511	\$3,818
D	=	\$4,156



A. Conceptual Level Project Cost Projections

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

- B. Roadway Impact Fee CIP Service Units of Supply
- C. Existing Roadway Facilities Inventory
- D. Plan for Awarding the Roadway Impact Fee Credit Supporting Exhibits
- E. Plan for Awarding the Roadway Impact Fee Credit Supporting Exhibits

66



#### City of Round Rock - 2023 Roadway Impact Fee Study

Capital Improvement Plan for Roadway Impact Fees Summary of Conceptual Level Project Cost Projections

Roadway Improvements - Service Area A

#	IF Class	<u>Project</u>	<u>Type</u>		Percent in	Proj	ect Cost		al Cost in	
				<u>From</u>	<u>To</u>	Service Area			Ser	vice Area
A-1	4 Lane - Enhanced (1/2)	New Hope Rd (1)	1/2) Widening	Sam Bass Rd	CR 175	100%	\$	16,500,000	\$	16,500,000
A-2	4 Lane - Enhanced (1/2)	New Hope Rd (2)	1/2) Widening	240' W of Lagoona Dr	Flowstone Ln	50%	\$	8,200,000	\$	4,100,000
A-3	4 Lane - Proposed	New Hope Rd (3)	lew	Flowstone Ln	1000' E of Wyoming Springs Dr	50%	\$	11,100,000	\$	5,550,000
A-4, B-1	6 Lane - Enhanced	Westinghouse Rd W	Videning	IH 35 SBFR	IH 35 NBFR	50%	\$	9,152,896	\$	4,576,448
A-7	6 Lane - Enhanced	RM 1431 (1)	Videning	1100' W of Mayfield Ranch Blvd	850' E of Stone Oak Dr	50%	\$	5,180,000	\$	2,590,000
A-8	6 Lane - Enhanced	RM 1431 (2)	Videning	850' E of Stone Oak Dr	5195' E of Stone Oak St	100%	\$	5,200,000	\$	5,200,000
A-9	6 Lane - Enhanced	RM 1431 (3)	Videning	5195' E of Stone Oak St	IH 35 SBFR	50%	\$	6,960,000	\$	3,480,000
A-10	4 Lane - Enhanced (1/2)	Wyoming Springs Dr (3)	1/2) Widening	390' N of Goldenoak Cir	Alondra Way	100%	\$	1,800,000	\$	1,800,000
A-11	4 Lane - Proposed	Eagles Nest Dr (1)	lew	Wyoming Springs Dr	Chisholm Trl Rd (Future)	100%	\$	41,600,000	\$	41,600,000
A-12	4 Lane - Enhanced (1/2)	Creek Bend Blvd (1)	lew	RM 1431	West End PI	100%	\$	13,800,000	\$	13,800,000
A-13	4 Lane - Proposed	Creek Bend Blvd (2)	1/2) Widening	West End PI	Camino Del Verdes Pl	100%	\$	3,500,000	\$	3,500,000
A-14	4 Lane - Proposed	Chisholm Trl Rd (1)	lew	RM 1431	CR 173	100%	\$	19,400,000	\$	19,400,000
A-15, B-11	4 Lane - Proposed	Eagles Nest Dr (2)	lew	Chisholm Trl Rd (Future)	IH 35 NBFR	100%	\$	12,216,939	\$	12,216,939
A-16	5 Lane - Enhanced	CR 173	Videning	IH 35 SBFR	3250' N of Wolle Ln	100%	\$	2,100,000	\$	2,100,000
A-17	5 Lane - Enhanced	Chisholm Trl Rd (2)	Videning	3250' N of Wolle Ln	1980' N of Wolle Ln	100%	\$	5,000,000	\$	5,000,000
A-21	3 Lane - Enhanced	Sam Bass Rd (3)	Videning	FM 3406	Desert Willow Dr	50%	\$	3,900,000	\$	1,950,000
A-22	3 Lane - Enhanced	Sam Bass Rd (4)	Videning	Desert Willow Dr	Creek Bend Blvd	100%	\$	2,100,000	\$	2,100,000
A-23	3 Lane - Enhanced	Sam Bass Rd (5)	Videning	Creek Bend Blvd	Hairy Man Dr	100%	\$	2,400,000	\$	2,400,000
A-24	3 Lane - Enhanced	Sam Bass Rd (6)	Videning	Hairy Man Rd	Chisholm Trl Rd	50%	\$	14,800,000	\$	7,400,000
A-26	4 Lane - Proposed	Wyoming Springs Dr (4)	lew	Sam Bass Rd	Creek Bend Blvd	100%	\$	26,379,928	\$	26,379,928
A-28	4 Lane - Enhanced	Creek Bend Blvd (3)	Previously Constructed	Brushy Creek	Wyoming Springs Dr	100%	\$	11,012,302	\$	11,012,302
A-29	4 Lane - Proposed	Deepwood Dr (1)	lew	Sam Bass Rd	345' N of RM 620	100%	\$	18,900,346	\$	18,900,346
A-30	4 Lane - Enhanced	Deepwood Dr (2)	Videning	345' N of RM 620	RM 620	100%	\$	1,400,000	\$	1,400,000
A-31, C-1	6 Lane - Enhanced	RM 620	Videning	Deepwood Dr	IH 35 SBFR	50%	\$	12,560,624	\$	6,280,312

TOTAL \$ 255,163,035 \$ 219,236,275

#### City of Round Rock - 2023 Roadway Impact Fee Study

Capital Improvement Plan for Roadway Impact Fees Summary of Conceptual Level Project Cost Projections

#### Intersection Improvements - Service Area A

#	Project	Improv	vement	Percent in	Project Cost	Total Cost in	
#	Floject	Improvement 1	Improvement 2	Service Area	Froject Cost	Service Area	
Al-1	Sam Bass Rd and FM 3406	SIGNAL		100%	\$ 550,000	\$ 550,000	
Al-2	Sam Bass Rd and Hairy Man Rd	INTERSECTION IMPROVEMENT		75%	\$ 2,500,000	\$ 1,875,000	
Al-3	Sam Bass Rd and Chisholm Trl Rd	TURN LANES		100%	\$ 240,000	\$ 240,000	
-	Update ITS and Traffic Managmenet Infrastructure			25%	\$ 20,900,000	\$ 5,225,000	
				TOTAL	\$ 24,190,000	\$ 7,890,000	

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

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

<b>Project Informa</b>	tion:	Description:	Project No.	A-1			
Name:	New Hope Rd (1)	T	his project consists of w	idening			
Limits:	Sam Bass Rd to CR 175	е	existing pavement with half of a 4 lane				
Impact Fee Class:	4 Lane - Enhanced (1/2)	d	livided arterial.				
Ultimate Class:	4 Lane - Enhanced (1/2)						
Length (If):	5,817						
Service Area(s):	Α						

Roa	adway Construction Cost Pro	ection						
No.	Item Description		Quantity	Unit	Uı	nit Price		Item Cost
101	Unclassified Street Excavation		21,150	су	\$	24.33	\$	515,000
201	12" Asphalt (Type C)		11,518	ton	\$	139.92	\$	1,612,000
301	16" Base		7,756	су	\$	66.92	\$	519,000
401	10" Lime Stabilization (with Lime @ 4	15#/sy)	18,744	sy	\$	7.30	\$	137,000
501	Surface Treatment (0.2 gal/sy,Prime	Coat AE-P)	3,490	gal	\$	7.30	\$	25,000
601	10' Concrete Sidewalk		116,341	sf	\$	10.95	\$	1,274,000
701	Machine Laid Curb & Gutter		11,634	lf	\$	36.50	\$	425,000
801	Turn Lanes and Median Openings		3,525	sy	\$	243.06	\$	857,000
		P	aving Consti	ruction (	Cost	Subtotal:	\$	5,364,000
Majo	or Construction Component Allowa							
	Item Description Notes Allowance						Item Cost	
	Traffic Control	Construction Phase 1	Fraffic Control			5%		268,000
$\sqrt{}$	Pavement Markings/Signs/Posts	Includes Striping/Sigr	ns for Shared Pa	ths		2%		107,000
$\sqrt{}$	Roadway Drainage	Standard Internal Sys	stem			30%		1,609,000
	Illumination					10%	-	536,000
	Special Drainage Structures	Bridge Crossing					\$	800,000
	Water	Minor Adjustments				2%	\$	107,000
	Sewer	Minor Adjustments				2%	\$	107,000
	Turf and Erosion Control					2%	\$	107,000
	Landscaping and Irrigation					4%	\$	215,000
	Miscellaneous:					0%	\$	-
**Allo	wances based on % of Paving Construction Co	st Subtotal		Allowa	ınce	Subtotal:	\$	3,856,000
			Paving an					9,220,000
		Constr	uction Conti	-		15%	\$	1,383,000
				ilization		8%	\$	738,000
				ep ROW		4%	\$	369,000
			Constru	ction C	ost	TOTAL:	\$	11,800,000

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 11,800,000
Engineering/Survey/Testing:		16%	\$ 1,888,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	Existing Alignment	\$20/s.f.	\$ 2,792,000

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

## 2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information:

Name:

New Hope Rd (2)

Limits:

240' W of Lagoona Dr to Flowstone Ln

Impact Fee Class:

Ultimate Class:

Ultimate Class:

Description:

Project No.

A-2

This project consists of widening
existing pavement with half of a 4 lane
divided arterial.

Length (If): 2,903 Service Area(s): A

	dway Construction Cost Pro	ection					
No.	Item Description		Quantity	Unit	Ur	nit Price	Item Cost
101	Unclassified Street Excavation		10,554	су	\$	24.33	\$ 257,000
201	12" Asphalt (Type C)		5,748	ton	\$	139.92	\$ 804,000
301	16" Base		3,870	су	\$	66.92	\$ 259,000
401	401 10" Lime Stabilization (with Lime @ 45#/sy)			sy	\$	7.30	\$ 68,000
501	Surface Treatment (0.2 gal/sy,Prime	Coat AE-P)	1,742	gal	\$	7.30	\$ 13,000
601	10' Concrete Sidewalk		58,057	sf	\$	10.95	\$ 636,000
701	Machine Laid Curb & Gutter		5,806	lf	\$	36.50	\$ 212,000
801	Turn Lanes and Median Openings		1,759	sy	\$	243.06	\$ 428,000
	Paving Construction Cost Subtotal:					\$ 2,677,000	
Majo	or Construction Component Allowa	nces**:					
	Item Description	Notes			All	owance	Item Cost
	Traffic Control	Construction Phase	Traffic Control			5%	\$ 134,000
$\checkmark$	Pavement Markings/Signs/Posts	Includes Striping/Sig	ns for Shared Pa	ths		2%	\$ 54,000
$\checkmark$	Roadway Drainage	Standard Internal Sys	stem			30%	\$ 803,000
	Illumination					10%	\$ 268,000
$\checkmark$	Special Drainage Structures	Bridge Crossing					\$ 400,000
	Water	Minor Adjustments				2%	\$ 54,000
	Sewer	Minor Adjustments				2%	\$ 54,000
	Turf and Erosion Control					2%	\$ 54,000
	Landscaping and Irrigation					4%	\$ 107,000
	Miscellaneous:					0%	\$ -
**Allo	wances based on % of Paving Construction Co	st Subtotal		Allowa	nce	Subtotal:	\$ 1,928,000
			Paving an	d Allowa	nce	Subtotal:	\$ 4,605,000
		Consti	ruction Conti			15%	\$ 691,000
				ilization		8%	\$ 368,000

•	Notes:	Allowance	Item Cost
Construction:		-	\$ 5,900,000
Engineering/Survey/Testing:		16%	\$ 944,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	Existing Alignment	\$20/s.f.	\$ 1,393,000

Prep ROW

**Construction Cost TOTAL:** 

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

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

184,000

5,900,000

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. A-3

Name: New Hope Rd (3)

This project consists of the constru

Name: New Hope Rd (3)

Limits: This project consists of the construction of a new 4 lane divided arterial.

Import Foo Class Allers Brancod

Impact Fee Class: 4 Lane - Proposed
Ultimate Class: 4 Lane - Proposed

Length (If): 2,447 Service Area(s): A

Sewer

Turf and Erosion Control

Roa	dway Construction Cost Pro	jection					
No.	Item Description	-	Quantity	Unit	Ur	nit Price	Item Cost
102	Unclassified Street Excavation		17,791	су	\$	24.33	\$ 433,000
202	12" Asphalt (Type C)		9,689	ton	\$	139.92	\$ 1,356,000
302	16" Base		6,524	су	\$	66.92	\$ 437,000
402	10" Lime Stabilization (with Lime @	45#/sy)	15,767	sy	\$	7.30	\$ 115,000
502	Surface Treatment (0.2 gal/sy,Prime	Coat AE-P)	2,936	gal	\$	7.30	\$ 21,000
602	10' Concrete Sidewalk		48,932	sf	\$	10.95	\$ 536,000
702	Machine Laid Curb & Gutter		9,786	lf	\$	36.50	\$ 357,000
802	Turn Lanes and Median Openings		1,483	sy	\$	243.06	\$ 360,000
			Paving Const	ruction (	Cost	Subtotal:	\$ 3,615,000
Majo	or Construction Component Allowa	nces**:					
	Item Description	Notes			All	lowance	Item Cost
	Traffic Control	None Anticipated				0%	\$ -
	Pavement Markings/Signs/Posts	Includes Striping/Sig	gns for Shared Pa	ths		2%	\$ 72,000
	Roadway Drainage	Standard Internal St	ystem			30%	\$ 1,085,000
	Illumination					10%	\$ 362,000
	Special Drainage Structures	None Anticipated					\$ -
$\checkmark$	Water	Minor Adjustments				2%	\$ 72,000

√ Landscaping and Irrigation		4%	\$ 145,000
Miscellaneous:		0%	\$ -
**Allowances based on % of Paving Construction Cos	t Subtotal Allowa	ance Subtotal:	\$ 1,880,000
	Paving and Allowa	ance Subtotal:	\$ 5,495,000
	Construction Contingency:	15%	\$ 824,000
	Mobilization	8%	\$ 440,000
	Prep ROW	4%	\$ 220,000
	Construction C	ost TOTAL:	\$ 7,000,000

Minor Adjustments

Impact Fee Project Cost Sun Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 7,000,000
Engineering/Survey/Testing:		16%	\$ 1,120,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	New Roadway Alignment	\$10/s.f.	\$ 2,936,000
	Impact Fee Project	Cost TOTAL:	\$ 11,100,000

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

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

72,000

72,000

# 2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information:

Name:

Limits:

Ultimate Class:

Description:

Description:

Project No.

A-4, B-1

This project consists of the construction of a new 6 lane undivided bridge section, u-turn bridge and frontage road realignment.

Ultimate Class:

Description:

Project No.

A-4, B-1

This project consists of the construction of a new 6 lane undivided bridge section, u-turn bridge and frontage road realignment.

Length (If): 1,014
Service Area(s): A,B

# Roadway Construction Cost Projection Construction Cost TOTAL: \$ 38,928,000

Impact Fee Project Cost Summa						
Item Description	Notes:	Allowance		Item Cost		
Construction:		-	\$	38,928,000		
Engineering/Survey/Testing:		-	\$	6,228,480		
ROW/Easement Acquisition:	TxDOT Roadway	-	\$	608,000		
	Overall Project Cost Total:					
	City Contribution:					
Impact Fee F	Impact Fee Project Cost TOTAL (20% City Contribution)					

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

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. A-7

Name: RM 1431 (1) This project consists of the

Limits: 1100' W of Mayfield Ranch Blvd to 850' E of Stone (reconstruction of existing pavement to a

Impact Fee Class: 6 Lane - Enhanced 6 lane divided arterial.

Ultimate Class: 6 Lane - Enhanced

Length (If): 5,137 Service Area(s): A

Roa	adway Construction Cost Pro	jection						
No.	Item Description		Quantity	Unit	Ur	nit Price		Item Cost
105	Unclassified Street Excavation		50,613	су	\$	24.33	\$	1,232,000
205	12" Asphalt (Type C)		28,632	ton	\$	139.92	\$	4,006,000
305	16" Base		19,281	су	\$	66.92	\$	1,290,000
405	10" Lime Stabilization (with Lime @	45#/sy)	45,666	sy	\$	7.30	\$	333,000
505	Surface Treatment (0.2 gal/sy,Prime	Coat AE-P)	8,676	gal	\$	7.30	\$	63,000
605	10' Concrete Sidewalk		102,747	sf	\$	10.95	\$	1,125,000
705	Machine Laid Curb & Gutter		20,549	lf	\$	36.50	\$	750,000
805	Turn Lanes and Median Openings		3,114	sy	\$	243.06	\$	757,000
		Р	aving Consti	ruction (	Cost	Subtotal:	\$	9,556,000
Major Construction Component Allowances**:								
	Item Description	Notes A				owance		Item Cost
$\sqrt{}$	Traffic Control	Construction Phase	Traffic Control			5%	\$	478,000
	Pavement Markings/Signs/Posts	Includes Striping/Sig	ns for Shared Pat	ths		2%	\$	191,000
	Roadway Drainage	Standard Internal Sys	stem			30%	\$	2,867,000
	Illumination					10%	\$	956,000
	Special Drainage Structures	Bridge Crossing					\$	500,000
	Water	Minor Adjustments				2%	\$	191,000
	Sewer	Minor Adjustments				2%	\$	191,000
	Turf and Erosion Control					2%	\$	191,000
	Landscaping and Irrigation					4%	\$	382,000
	Miscellaneous:					0%	\$	
**Allo	wances based on % of Paving Construction Co	st Subtotal		Allowa	nce	Subtotal:	\$	5,947,000
			Paving an	d Allowa	nce	Subtotal:	\$	15,503,000
		Constr	uction Conti	ngency:		15%	\$	2,325,000
			Mob	ilization		8%	\$	1,240,000
			Pro	ep ROW		4%	\$	620,000
	Construction Cost TOTAL:							19,700,000

Item Description	Notes:	Allowance		Item Cost
Construction:		-	\$	19,700,000
Engineering/Survey/Testing:		16%	\$	3,152,000
Previous City contribution				
Other				
ROW/Easement Acquisition:	TxDOT Roadway	\$20/s.f.	\$	3,082,000
Impact Fee Project Cost TOTAL (20% City Contribution)				5,180,000

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

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. A-8

Name: RM 1431 (2) This project consists of the

Limits: 850' E of Stone Oak Dr to 5195' E of Stone Oak St reconstruction of existing pavement to a

Impact Fee Class: 6 Lane - Enhanced 6 lane divided arterial.

Ultimate Class: 6 Lane - Enhanced

Length (If): 4,343
Service Area(s): A

Roa	dway Construction Cost Projection					
No.	Item Description	Quantity	Unit	Ur	nit Price	Item Cost
105	Unclassified Street Excavation	42,790	су	\$	24.33	\$ 1,041,000
205	12" Asphalt (Type C)	24,207	ton	\$	139.92	\$ 3,387,000
305	16" Base	16,301	су	\$	66.92	\$ 1,091,000
405	10" Lime Stabilization (with Lime @ 45#/sy)	38,607	sy	\$	7.30	\$ 282,000
505	Surface Treatment (0.2 gal/sy,Prime Coat AE-P)	7,335	gal	\$	7.30	\$ 54,000
605	10' Concrete Sidewalk	86,866	sf	\$	10.95	\$ 951,000
705	Machine Laid Curb & Gutter	17,373	lf	\$	36.50	\$ 634,000
805	Turn Lanes and Median Openings	2,632	sy	\$	243.06	\$ 640,000

Paving Construction Cost Subtotal: \$ 8,080,000

		ost Subtotal:	Þ	8,080,000	
Maio	or Construction Component Allowa	ances**:			
	Item Description	Notes	Allowance	П	Item Cost
	Traffic Control	Construction Phase Traffic Control	5%	\$	404,000
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Shared Paths	2%	\$	162,000
	Roadway Drainage	Standard Internal System	30%	\$	2,424,000
	Illumination		10%	\$	808,000
	Special Drainage Structures	Bridge Crossing		\$	3,200,000
	Water	Minor Adjustments	2%	\$	162,000
	Sewer	Minor Adjustments	2%	\$	162,000
	Turf and Erosion Control		2%	\$	162,000
	Landscaping and Irrigation		4%	\$	323,000
	Miscellaneous:		0%	\$	-
**Allo	wances based on % of Paving Construction C	ost Subtotal Allowa	nce Subtotal:	\$	7,807,000
		Paving and Allowa	nce Subtotal:	\$	15,887,000
		Construction Contingency:	15%	\$	2,383,000
		Mobilization	8%	\$	1,271,000
		Prep ROW	4%	\$	635,000
		Construction C	ost TOTAL:	\$	20,200,000

Impact Fee Project Cost Summ	ary		
Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 20,200,000
Engineering/Survey/Testing:		16%	\$ 3,232,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	TxDOT Roadway	\$20/s.f.	\$ 2,606,000
Impact Fee	\$ 5,200,000		

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

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

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

Name: RM 1431 (3) This project consists of the

Limits: 5195' E of Stone Oak St to IH 35 SBFR reconstruction of existing pavement to a

11,950

141,510

28,302

4,288

gal

sf

lf

sy

Impact Fee Class: 6 Lane - Enhanced **Ultimate Class:** 6 Lane - Enhanced

**Roadway Construction Cost Projection** 

405 10" Lime Stabilization (with Lime @ 45#/sy)

505 Surface Treatment (0.2 gal/sy, Prime Coat AE-P)

Length (If): 7.075 Service Area(s):

105 Unclassified Street Excavation

No. Item Description

305 16" Base

205 12" Asphalt (Type C)

605 10' Concrete Sidewalk

705 Machine Laid Curb & Gutter

805 Turn Lanes and Median Openings

Quantity	Unit	Uı	nit Price		Item Cost
69.707	01/	¢	04.00	\$	1,696,000
09,707	СУ	\$	24.33	Ψ	1,090,000
39,434	ton	\$	139.92	\$	5,517,000
, -				•	

7.30 \$

\$

\$

10.95

36.50

243.06

87,000

1,550,000

1,033,000

1,042,000

6 lane divided arterial.

\$

\$

\$

		Paving Construction C	Cost Subtotal:	\$ 13,161,000
Maj	or Construction Component Allowa	ances**:		
	Item Description	Notes	Allowance	Item Cost
	Traffic Control	Construction Phase Traffic Control	5%	\$ 658,000
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Shared Paths	2%	\$ 263,000
$\sqrt{}$	Roadway Drainage	Standard Internal System	30%	\$ 3,948,000
	Illumination		10%	\$ 1,316,000
	Special Drainage Structures	None Anticipated		\$ -
	Water	Minor Adjustments	2%	\$ 263,000
	Sewer	Minor Adjustments	2%	\$ 263,000
	Turf and Erosion Control		2%	\$ 263,000
	Landscaping and Irrigation		4%	\$ 526,000
	Miscellaneous:		0%	\$ -
**Allo	wances based on % of Paving Construction C	ost Subtotal Allowa	nce Subtotal:	\$ 7,500,000
		Paving and Allowa	nce Subtotal:	\$ 20,661,000
		Construction Contingency:	15%	\$ 3,099,000
		Mobilization	8%	\$ 1,653,000
		Prep ROW	4%	\$ 826,000
		Construction C	ost TOTAL:	\$ 26,300,000

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 26,300,000
Engineering/Survey/Testing:		16%	\$ 4,208,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	TxDOT Roadway	\$20/s.f.	\$ 4,245,000
Impact F	ee Project Cost TOTAL (20% City	Contribution)	\$ 6,960,000

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

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information:

Name:
Wyoming Springs Dr (3)
Limits:
390' N of Goldenoak Cir to Alondra Way
Impact Fee Class:
Ultimate Class:
4 Lane - Enhanced (1/2)
4 Lane - Enhanced (1/2)
4 Lane - Enhanced (1/2)

Length (If): 703 Service Area(s): A

Ros	dway Construction Cost Pro	iection					
	Item Description	jection	Quantity	Unit	Ur	nit Price	Item Cost
101	Unclassified Street Excavation		2,557	СУ	\$	24.33	\$ 62,000
201	12" Asphalt (Type C)		1,393	ton	\$	139.92	\$ 195,000
301	16" Base		938	су	\$	66.92	\$ 63,000
401	10" Lime Stabilization (with Lime @	45#/sy)	2,267	sy	\$	7.30	\$ 17,000
501	Surface Treatment (0.2 gal/sy,Prime	Coat AE-P)	422	gal	\$	7.30	\$ 3,000
601	10' Concrete Sidewalk		14,068	sf	\$	10.95	\$ 154,000
701	Machine Laid Curb & Gutter		1,407	lf	\$	36.50	\$ 51,000
801	Turn Lanes and Median Openings		426	sy	\$	243.06	\$ 104,000
		F	Paving Const	ruction (	Cost	Subtotal:	\$ 649,000
Majo	Major Construction Component Allowances**:						
	Item Description	Notes			All	owance	Item Cost
	Traffic Control	Construction Phase	Traffic Control			5%	\$ 32,000
	Pavement Markings/Signs/Posts	Includes Striping/Sig	ns for Shared Pa	ths		2%	\$ 13,000
	Roadway Drainage	Standard Internal Sy	stem			30%	195,000
	Illumination					10%	\$ 65,000
	Special Drainage Structures	None Anticipated					\$ -
	Water	Minor Adjustments				2%	\$ 13,000
	Sewer	Minor Adjustments				2%	\$ 13,000
	Turf and Erosion Control					2%	\$ 13,000
	Landscaping and Irrigation					4%	\$ 26,000
	Miscellaneous:					0%	\$ -
**Allo	wances based on % of Paving Construction C	ost Subtotal		Allowa	nce	Subtotal:	\$ 370,000
			Paving an	d Allowa	nce	Subtotal:	\$ 1,019,000
		Const	ruction Conti	ngency:		15%	\$ 153,000
			Mob	ilization		8%	\$ 82,000
				ep ROW		4%	\$ 41,000
			Constru	ction C	ost	TOTAL:	\$ 1,300,000

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 1,300,000
Engineering/Survey/Testing:		16%	\$ 208,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	Existing Alignment	\$20/s.f.	\$ 338,000

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

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

**Project Information:** A-11 Description: Project No. Name: Eagles Nest Dr (1) This project consists of the construction of a new 4 lane divided arterial.

Limits: Wyoming Springs Dr to Chisholm Trl Rd (Future)

Impact Fee Class: 4 Lane - Proposed **Ultimate Class:** 4 Lane - Proposed

Roadway Construction Cost Projection

Length (If): 9,140 Service Area(s):

	Roadway Construction Cost Projection							
	Item Description		Quantity	Unit	Ur	nit Price	<u> </u>	Item Cost
	Unclassified Street Excavation		66,463	су	\$	24.33	\$	1,617,000
202	12" Asphalt (Type C)		36,195	ton	\$	139.92	\$	5,064,000
302	16" Base		24,374	су	\$	66.92	\$	1,631,000
402	10" Lime Stabilization (with Lime @		58,903	sy	\$	7.30	\$	430,000
502	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Coat AE-P)	10,968	gal	\$	7.30	\$	80,000
602	10' Concrete Sidewalk		182,802	sf	\$	10.95	\$	2,002,000
	Machine Laid Curb & Gutter		36,560	lf	\$	36.50	\$	1,334,000
802	Turn Lanes and Median Openings		5,539	sy	\$	243.06	\$	1,346,000
		P	Paving Const	ruction (	Cost	Subtotal:	\$	13,504,000
Major Construction Component Allowances**:								
	Item Description	Notes			All	lowance		Item Cost
	Traffic Control	None Anticipated				0%	\$	-
	Pavement Markings/Signs/Posts	Includes Striping/Sign	ns for Shared Pa	ths		2%	\$	270,000
	Roadway Drainage	Standard Internal Sys	stem			30%		4,051,000
	Illumination					10%	\$	1,350,000
	Special Drainage Structures	Minor Stream Crossii	ng				\$	200,000
$\sqrt{}$	Water	Minor Adjustments				2%	\$	270,000
$\sqrt{}$	Sewer	Minor Adjustments				2%	\$	270,000
	Turf and Erosion Control					2%	\$	270,000
	Landscaping and Irrigation					4%	\$	540,000
	Miscellaneous:					0%	\$	
**Allo	wances based on % of Paving Construction Co	st Subtotal		Allowa	nce	Subtotal:	\$	7,221,000
			Paving an	d Allowa	nce	Subtotal:	\$	20,725,000
		Constr	ruction Conti	ngency:		15%	\$	3,109,000
			Mob	ilization		8%	\$	1,658,000
	Prep ROW 4% \$							829,000

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 26,400,000
Engineering/Survey/Testing:		16%	\$ 4,224,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	New Roadway Alignment	\$10/s.f.	\$ 10,968,000

**Construction Cost TOTAL:** 

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

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

26,400,000

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information:

Name:
Creek Bend Blvd (1)
Limits:

Description:
Project No.
A-12

This project consists of the construction of a new 4

Lane divided arterial.

Impact Fee Class: 4 Lane - Enhanced (1/2)
Ultimate Class: 4 Lane - Enhanced (1/2)

Length (If): 4,164
Service Area(s): A

No.	Item Description	Quantity	Unit	Uı	nit Price	Item Cost
101	Unclassified Street Excavation	15,138	су	\$	24.33	\$ 368,000
201	12" Asphalt (Type C)	8,244	ton	\$	139.92	\$ 1,153,000
301	16" Base	5,552	су	\$	66.92	\$ 371,000
401	10" Lime Stabilization (with Lime @ 45#/sy)	13,416	sy	\$	7.30	\$ 98,000
501	Surface Treatment (0.2 gal/sy,Prime Coat AE-P)	2,498	gal	\$	7.30	\$ 18,000
601	10' Concrete Sidewalk	83,273	sf	\$	10.95	\$ 912,000
701	Machine Laid Curb & Gutter	8,327	lf	\$	36.50	\$ 304,000
801	Turn Lanes and Median Openings	2,523	sy	\$	243.06	\$ 613,000
	· · · · · · - · · · · · · · · · · · ·	Paving Const		Τ.		3

Paving Construction Cost Subtotal: \$ 3,837,000

		_		·
Maj	or Construction Component Allowa	nces**:		
	Item Description	Notes	Allowance	Item Cost
	Traffic Control	None Anticipated	0%	\$ -
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Shared Paths	2%	\$ 77,000
	Roadway Drainage	Standard Internal System	30%	\$ 1,151,000
	Illumination		10%	\$ 384,000
	Special Drainage Structures	Minor Stream Crossing		\$ 100,000
	Water	Minor Adjustments	2%	\$ 77,000
	Sewer	Minor Adjustments	2%	\$ 77,000
	Turf and Erosion Control		2%	\$ 77,000
	Landscaping and Irrigation		4%	\$ 153,000
	Miscellaneous:		0%	\$ -
**Allo	wances based on % of Paving Construction Co	ost Subtotal Allowa	nce Subtotal:	\$ 2,096,000
		Paving and Allowa	nce Subtotal:	\$ 5,933,000
		Construction Contingency:	15%	\$ 890,000
		Mobilization	8%	\$ 475,000
		Prep ROW	4%	\$ 237,000
		Construction C	ost TOTAL:	\$ 7,600,000

Impact Fee Project Cost Sum	mary		
Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 7,600,000
Engineering/Survey/Testing:		16%	\$ 1,216,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	New Roadway Alignment	\$10/s.f.	\$ 4,996,000
	Impact Fee Project C	ost TOTAL:	\$ 13,800,000

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

### 2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information:

Name:
Creek Bend Blvd (2)
Limits:
West End Pl to Camino Del Verdes Pl
Impact Fee Class:

Description:
Project No.
A-13
This project consists of widening
existing pavement with half of a 4 lane
divided arterial.

Ultimate Class: 4 Lane - Proposed

Length (If): 764
Service Area(s): A

Roa	adway Construction Cost Pro	jection						
No.	Item Description		Quantity	Unit	Ur	nit Price		Item Cost
102	Unclassified Street Excavation		5,556	су	\$	24.33	\$	135,000
202	12" Asphalt (Type C)		3,025	ton	\$	139.92	\$	423,000
302	2   16" Base 2,037   cy					66.92	\$	136,000
402						7.30	\$	36,000
502	Surface Treatment (0.2 gal/sy,Prime	Coat AE-P)	917	gal	\$	7.30	\$	7,000
602	10' Concrete Sidewalk		15,280	sf	\$	10.95	\$	167,000
702	Machine Laid Curb & Gutter		3,056	lf	\$	36.50	\$	112,000
802	Turn Lanes and Median Openings		463	sy	\$	243.06	\$	113,000
	Paving Construction Cost Subtotal:							1,129,000
Majo	Major Construction Component Allowances**:							
	Item Description Notes Allowance							Item Cost
	Traffic Control	Construction Phase Traffic Control				5%	\$	56,000
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Shared Paths				2%		23,000
	Roadway Drainage	Standard Internal System				30%	\$	339,000
	Illumination					10%	\$	113,000
	Special Drainage Structures	Minor Stream Crossi	ng				\$	300,000
	Water	Minor Adjustments				2%	\$	23,000
	Sewer	Minor Adjustments				2%	\$	23,000
	Turf and Erosion Control					2%	\$	23,000
	Landscaping and Irrigation					4%	\$	45,000
	Miscellaneous:					0%	\$	-
**Allo	wances based on % of Paving Construction Co	ost Subtotal		Allowa	nce	Subtotal:	\$	945,000
			Paving an	d Allowa	nce	Subtotal:	\$	2,074,000
		Constr	uction Conti	ngency:		15%	\$	311,000
			Mob	ilization		8%	\$	166,000
			Pro	ep ROW		4%	\$	83,000
			Constru	ction C	ost	TOTAL:	\$	2,700,000

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 2,700,000
Engineering/Survey/Testing:		16%	\$ 432,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	Existing Alignment	\$20/s.f.	\$ 367,000
	Impact Fee Project C	ost TOTAL:	\$ 3,500,000

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

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

**Project Information:** A-14 Description: Project No. Name: Chisholm Trl Rd (1) This project consists of the construction of a new 4 Limits: RM 1431 to CR 173 lane divided arterial.

Impact Fee Class: 4 Lane - Proposed **Ultimate Class:** 4 Lane - Proposed

Length (If): 3,995 Service Area(s):

Roa	dway Construction Cost Projection					
No.	Item Description	Quantity	Unit	Ui	nit Price	Item Cost
102	Unclassified Street Excavation	29,051	су	\$	24.33	\$ 707,000
202	12" Asphalt (Type C)	15,821	ton	\$	139.92	\$ 2,214,000
302	16" Base	10,654	су	\$	66.92	\$ 713,000
402	10" Lime Stabilization (with Lime @ 45#/sy)	25,746	sy	\$	7.30	\$ 188,000
502	Surface Treatment (0.2 gal/sy,Prime Coat AE-P)	4,794	gal	\$	7.30	\$ 35,000
602	10' Concrete Sidewalk	79,903	sf	\$	10.95	\$ 875,000
702	Machine Laid Curb & Gutter	15,981	lf	\$	36.50	\$ 583,000
802	Turn Lanes and Median Openings	2,421	sy	\$	243.06	\$ 589,000
		Paving Const	ruction (	Cost	Subtotal:	\$ 5,904,000

Paving Construction Cost Subtotal: \$

		•		
<b>Major Construction</b>	n Component Allowa	ances**:		
Item Descript	ion	Notes	Allowance	Item Cost
Traffic Control		None Anticipated	0%	\$ -
√ Pavement Mar	kings/Signs/Posts	Includes Striping/Signs for Shared Paths	2%	\$ 118,000
√ Roadway Drair	nage	Standard Internal System	30%	\$ 1,771,000
√ Illumination			10%	\$ 590,000
√ Special Draina	ge Structures	Bridge Crossing		\$ 900,000
√ Water		Minor Adjustments	2%	\$ 118,000
√ Sewer		Minor Adjustments	2%	\$ 118,000
√ Turf and Erosic	on Control		2%	\$ 118,000
√ Landscaping a	nd Irrigation		4%	\$ 236,000
Miscellaneous	:		0%	\$ -
**Allowances based on %	6 of Paving Construction C	ost Subtotal Allowa	nce Subtotal:	\$ 3,969,000
		Paving and Allowa	nce Subtotal:	\$ 9,873,000
		Construction Contingency:	15%	\$ 1,481,000
		Mobilization	8%	\$ 790,000
		Prep ROW	4%	\$ 395,000
		Construction C	ost TOTAL:	\$ 12,600,000

Impact Fee Project Cost Sum	mary					
Item Description	Notes:	Allowance		Item Cost		
Construction:		-	\$	12,600,000		
Engineering/Survey/Testing:		16%	\$	2,016,000		
Previous City contribution						
Other						
ROW/Easement Acquisition:	New Roadway Alignment	\$10/s.f.	\$	4,794,000		
	Impact Fee Project Cost TOTAL:					

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

Kimley-Horn and Associates, Inc.

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. A-15, B-11

Name: Eagles Nest (1) This project consists of the construction of a new 4

Limits: Chisholm Trl Rd (Future) to IH 35 NBF lane divided arterial.

Impact Fee Class: 4 Lane - Proposed
Ultimate Class: 4 Lane - Proposed

Length (If): 400 Service Area(s): A,B

# Roadway Construction Cost Projection Construction Cost TOTAL: \$ 10,612,800

Impact Fee Project Cost Sum	nmary			
Item Description	Notes:		Allowance	Item Cost
Construction:	From City Estimate		-	\$ 10,612,800
Engineering/Survey/Testing:	From City Estimate		11%	\$ 1,167,408
ROW/Easement Acquisition:	From City Estimate		-	\$ 436,731
Overall Project Cost Total:				\$ 12,216,939
	\$ 12,216,939			
		Impact Fee Pr	oject Cost:	\$ 12,216,939

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

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. A-16

Name: CR 173 This project consists of the reconstruction of existing pavement to a 5 lane divided arterial.

Impact Fee Class: 5 Lane - Enhanced Ultimate Class: 5 Lane - Enhanced

Length (If): 538
Service Area(s): A

No.	Item Description	Quantity	Unit	Ur	nit Price	Item Cost
111	Unclassified Street Excavation	4,545	су	\$	24.33	\$ 111,000
211	12" Asphalt (Type C)	2,684	ton	\$	139.92	\$ 376,000
311	16" Base	1,807	су	\$	66.92	\$ 121,000
411	10" Lime Stabilization (with Lime @ 45#/sy)	4,186	sy	\$	7.30	\$ 31,000
511	Surface Treatment (0.2 gal/sy,Prime Coat AE-P)	813	gal	\$	7.30	\$ 6,000
611	10' Concrete Sidewalk	10,764	sf	\$	10.95	\$ 118,000
711	Machine Laid Curb & Gutter	1,076	lf	\$	36.50	\$ 39,000
811	Turn Lanes and Median Openings	0	sy	\$	243.06	\$ 
		Paving Constr	uction (	Cost	Subtotal:	\$ 802,000

Majo	or Construction Component Allowa	ınces**:		
	Item Description	Notes	Allowance	Item Cost
	Traffic Control	Construction Phase Traffic Control	5%	\$ 40,000
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Shared Paths	2%	\$ 16,000
	Roadway Drainage	Standard Internal System	30%	\$ 241,000
	Illumination		10%	\$ 80,000
	Special Drainage Structures	None Anticipated		\$ -
	Water	Minor Adjustments	2%	\$ 16,000
	Sewer	Minor Adjustments	2%	\$ 16,000
	Turf and Erosion Control		2%	\$ 16,000
	Landscaping and Irrigation		4%	\$ 32,000
	Miscellaneous:		0%	\$ -
**Allo	wances based on % of Paving Construction Co	ost Subtotal Allowa	nce Subtotal:	\$ 457,000
		Paving and Allowa	nce Subtotal:	\$ 1,259,000
		Construction Contingency:	15%	\$ 189,000
		Mobilization	8%	\$ 101,000
		Prep ROW	4%	\$ 50,000
		Construction C	ost TOTAL:	\$ 1,600,000

Construction: Engineering/Survey/Testing:	- 16% S	<b>\$</b> 1	256,000
	16%	\$	256 000
Drawie va City contribution			_55,000
Previous City contribution			
Other			
ROW/Easement Acquisition: Existing Alignment	\$20/s.f. \$	\$	258,000

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

### 2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Roadway Construction Cost Projection

Project Information: Description: Project No. A-17

Name: Chisholm Trl Rd (2) This project consists of the

Limits: 3250' N of Wolle Ln to 1980' N of Wolle Ln reconstruction of existing pavement to a

Impact Fee Class: 5 Lane - Enhanced 4 lane divided arterial.
Ultimate Class: 5 Lane - Enhanced

Length (If): 1,272 Service Area(s): A

No.	Item Description		Quantity	Unit	Ur	nit Price		Item Cost
111	Unclassified Street Excavation		10,740	су	\$	24.33	\$	261,000
211	12" Asphalt (Type C)		6,342	ton	\$	139.92	\$	887,000
311	16" Base		4,271	су	\$	66.92	\$	286,000
411	10" Lime Stabilization (with Lime @	45#/sy)	9,892	sy	\$	7.30	\$	72,000
511	Surface Treatment (0.2 gal/sy,Prime	Coat AE-P)	1,922	gal	\$	7.30	\$	14,000
611	10' Concrete Sidewalk	25,436 sf			\$	10.95	\$	279,000
711	Machine Laid Curb & Gutter	2,544 If			\$	36.50	\$	93,000
811	Turn Lanes and Median Openings		0	sy	\$	243.06	\$	-
Paving Construction Cost Subtotal:							\$	1,892,000
Major Construction Component Allowances**:								
	Item Description	Notes			All	owance		Item Cost
	Traffic Control	Construction Phase Traffic Control				5%	\$	95,000
	Pavement Markings/Signs/Posts	Includes Striping/Sig	ns for Shared Pa	ths		2%	\$	38,000
	Roadway Drainage	Standard Internal Sys	stem			30%		568,000
	Illumination					10%	\$	189,000
	Special Drainage Structures	None Anticipated					\$	-
	Water	Minor Adjustments				2%	\$	38,000
	Sewer	Minor Adjustments				2%	\$	38,000
	Turf and Erosion Control	<u>'</u>				2%	\$	38,000
	Landscaping and Irrigation					4%	\$	76,000
	Miscellaneous:					0%	\$	-
**Allo	wances based on % of Paving Construction Co	ost Subtotal		Allowa	nce	Subtotal:	\$	1,080,000
Paving and Allowance Subtotal:								2,972,000

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 3,800,000
Engineering/Survey/Testing:		16%	\$ 608,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	Existing Alignment	\$20/s.f.	\$ 610,000

**Construction Contingency:** 

Mobilization

Prep ROW

Construction Cost TOTAL:

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

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

\$

8% \$

<del>4%</del> \$

446,000

238,000

119,000

3,800,000

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. A-21

Name: Sam Bass Rd (3) This project
Limits: FM 3406 to Desert Willow Dr existing pay

Impact Fee Class: 3 Lane - Enhanced
Ultimate Class: 3 Lane - Enhanced

Length (If): 1,853
Service Area(s): A

This project consists of the reconstruction of existing pavement to a 3 lane divided arterial.

Roa	dway Construction Cost Proje	ection					
No.	Item Description		Quantity	Unit	Uı	nit Price	Item Cost
110	Unclassified Street Excavation		5,507	су	\$	24.33	\$ 134,000
210	5" Asphalt (Type C)		3,002	ton	\$	139.92	\$ 420,000
310	10" Base		3,032	су	\$	66.92	\$ 203,000
410	10" Lime Stabilization (with Lime @ 4	5#/sy)	11,327	sy	\$	7.30	\$ 83,000
510	Surface Treatment (0.2 gal/sy,Prime (	Coat AE-P)	2,183	gal	\$	7.30	\$ 16,000
610	10' Concrete Sidewalk		37,069	sf	\$	10.95	\$ 406,000
710	Machine Laid Curb & Gutter		3,707	lf	\$	36.50	\$ 135,000
810	Turn Lanes and Median Openings		0	sy	\$	243.06	\$ -
		F	Paving Consti	ruction (	Cost	Subtotal:	\$ 1,397,000
Majo	or Construction Component Allowan	ices**:					
	Item Description	Notes			All	lowance	Item Cost
<b>V</b>	Traffic Control	Construction Phase	Traffic Control			5%	\$ 70,000

Majo				
	Item Description	Notes	Allowance	Item Cost
	Traffic Control	Construction Phase Traffic Control	5%	\$ 70,000
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Shared Paths	2%	\$ 28,000
	Roadway Drainage	Standard Internal System	30%	\$ 419,000
	Illumination		10%	\$ 140,000
	Special Drainage Structures	None Anticipated		\$ -
	Water	Minor Adjustments	2%	\$ 28,000
	Sewer	Minor Adjustments	2%	\$ 28,000
	Turf and Erosion Control		2%	\$ 28,000
	Landscaping and Irrigation		4%	\$ 56,000
	Miscellaneous:		0%	\$ -
**Allo	wances based on % of Paving Construction Co	st Subtotal Allowa	nce Subtotal:	\$ 797,000
		Paving and Allowa	nce Subtotal:	\$ 2,194,000
		Construction Contingency:	15%	\$ 329,000
		Mobilization	8%	\$ 176,000
		Prep ROW	4%	\$ 88,000
		Construction C	ost TOTAL:	\$ 2,800,000

	Notes:	Allowance	Item Cost
Construction:		-	\$ 2,800,000
Engineering/Survey/Testing:		16%	\$ 448,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	Existing Alignment	\$20/s.f.	\$ 667,000

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

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information:

Name:

Sam Bass Rd (4)

Limits:

Description:

Project No. A-22

This project consists of the reconstruction of existing pavement to a 3 lane divided arterial.

Impact Fee Class: 3 Lane - Enhanced
Ultimate Class: 3 Lane - Enhanced

Length (If): 991 Service Area(s): A

Roa	adway Construction Cost Pro	jection					
No.	Item Description		Quantity	Unit	Ur	nit Price	Item Cost
110	Unclassified Street Excavation		2,945	су	\$	24.33	\$ 72,000
210	5" Asphalt (Type C)		1,605	ton	\$	139.92	\$ 225,000
310	10" Base		1,621	су	\$	66.92	\$ 108,000
410	10" Lime Stabilization (with Lime @	45#/sy)	6,057	sy	\$	7.30	\$ 44,000
510	Surface Treatment (0.2 gal/sy,Prime	Coat AE-P)	1,167	gal	\$	7.30	\$ 9,000
610	10' Concrete Sidewalk		19,822	sf	\$	10.95	\$ 217,000
710	Machine Laid Curb & Gutter		1,982	lf	\$	36.50	\$ 72,000
810	Turn Lanes and Median Openings		0	sy	\$	243.06	\$ 
		P	Paving Consti	ruction (	Cost	Subtotal:	\$ 747,000
Majo	or Construction Component Allowa	_					
	Item Description	Notes			All	lowance	Item Cost
<b>√</b>	Traffic Control	Construction Phase	Traffic Control			5%	\$ 37,000
	Pavement Markings/Signs/Posts	Includes Striping/Sig	ins for Shared Pat	ths		2%	\$ 15,000
	Roadway Drainage	Standard Internal Sys	stem stem			30%	224,000
	Illumination					10%	\$ 75,000
l	Special Drainage Structures	None Anticipated					\$ -
	Water	Minor Adjustments				2%	\$ 15,000
	Sewer	Minor Adjustments				2%	\$ 15,000
	Turf and Erosion Control					2%	\$ 15,000
	Landscaping and Irrigation					4%	\$ 30,000
	Miscellaneous:					0%	\$ 
**Allo	wances based on % of Paving Construction Co	ost Subtotal		Allowa	ince	Subtotal:	\$ 426,000
			Paving and			Subtotal:	\$ 1,173,000
		Constr	ruction Conti	ngency:		15%	\$ 176,000
			Mob	ilization		8%	\$ 94,000
			Pro	ep ROW		4%	\$ 47,000
	Construction Cost TOTAL:					\$ 1,500,000	

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 1,500,000
Engineering/Survey/Testing:		16%	\$ 240,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	Existing Alignment	\$20/s.f.	\$ 357,000

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

existing pavement to a 4 lane divided arterial.

### **City of Round Rock**

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

**Project Information:** A-23 Description: Project No. Sam Bass Rd (5) Name: This project consists of the reconstruction of Limits: Creek Bend Blvd to Hairy Man Dr

Impact Fee Class: 3 Lane - Enhanced **Ultimate Class:** 3 Lane - Enhanced

Length (If): 1,121 Service Area(s):

Water

Sewer

Turf and Erosion Control

Roa	dway Construction Cost Pro	jection						
No.	Item Description		Quantity	Unit	Uı	nit Price		Item Cost
110	Unclassified Street Excavation		3,330	су	\$	24.33	\$	81,000
210	210 5" Asphalt (Type C)			ton	\$	139.92	\$	254,000
310	310 10" Base			су	\$	66.92	\$	123,000
410	410 10" Lime Stabilization (with Lime @ 45#/sy)			sy	\$	7.30	\$	50,000
510	510 Surface Treatment (0.2 gal/sy,Prime Coat AE-P)			gal	\$	7.30	\$	10,000
610	10' Concrete Sidewalk		22,414	sf	\$	10.95	\$	245,000
710	10 Machine Laid Curb & Gutter		2,241	lf	\$	36.50	\$	82,000
810	810 Turn Lanes and Median Openings			sy	\$	243.06	\$	-
			Paving Consti	ruction (	Cost	Subtotal:	\$	845,000
Mois	or Construction Component Allows	naaa**:						
Iviajo	or Construction Component Allowa Item Description	Notes			LΔI	lowance		Item Cost
- 2/	Traffic Control		T#:- O		All	5%	\$	
<b>V</b>		Construction Phase					*	42,000
<b>√</b>	Pavement Markings/Signs/Posts	Includes Striping/Signs for Shared Paths			2%	*	17,000	
√.	Roadway Drainage	Standard Internal S	ystem			30%	\$	254,000
	Illumination					10%	\$	85,000
	Special Drainage Structures	None Anticipated					\$	-

√ Landscaping and Irrigation Miscellaneous:		4% 0%	*	34,000
**Allowances based on % of Paving Construction Cost S	Subtotal Allowa	nce Subtotal:	\$	483,000
	Paving and Allowa	nce Subtotal:	\$	1,328,000
	<b>Construction Contingency:</b>	15%	\$	199,000
	Mobilization	8%	\$	106,000
	Prep ROW	4%	\$	53,000
	Construction C	ost TOTAL:	\$	1,700,000

Minor Adjustments

Minor Adjustments

Item Description	Notes:	Allowance		Item Cost
Construction:		-	\$	1,700,000
Engineering/Survey/Testing:		16%	\$	272,000
Previous City contribution				
Other				
ROW/Easement Acquisition:	Existing Alignment	\$20/s.f.	\$	403,000
ROW/Easement Acquisition:	Existing Alignment  Impact Fee Projec		t i	

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

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

17,000

17,000

17,000

\$

2% \$

### 2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. A-24

Name: Sam Bass Rd (6) This project consists of the

Limits: Hairy Man Rd to Chisholm Trl Rd reconstruction of existing pavement to a

Impact Fee Class: 3 Lane - Enhanced

Ultimate Class: 3 Lane - Enhanced

Length (If): 7,007 Service Area(s): A

Roa	dway Construction Cost Projection					
No.	Item Description	Quantity	Unit	Ur	it Price	Item Cost
110	Unclassified Street Excavation	20,821	су	\$	24.33	\$ 507,000
210	5" Asphalt (Type C)	11,348	ton	\$	139.92	\$ 1,588,000
310	10" Base	11,463	су	\$	66.92	\$ 767,000
410	10" Lime Stabilization (with Lime @ 45#/sy)	42,824	sy	\$	7.30	\$ 313,000
510	Surface Treatment (0.2 gal/sy,Prime Coat AE-P)	8,253	gal	\$	7.30	\$ 60,000
610	10' Concrete Sidewalk	140,150	sf	\$	10.95	\$ 1,535,000
710	Machine Laid Curb & Gutter	14,015	lf	\$	36.50	\$ 512,000
810	Turn Lanes and Median Openings	0	sy	\$	243.06	\$ -

Paving Construction Cost Subtotal: \$ 5,282,000

4 lane divided arterial.

		_						
Maj	Major Construction Component Allowances**:							
	Item Description	Notes	Allowance		Item Cost			
	Traffic Control	Construction Phase Traffic Control	5%	\$	264,000			
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Shared Paths	2%	\$	106,000			
	Roadway Drainage	Standard Internal System	30%	\$	1,585,000			
	Illumination		10%	\$	528,000			
	Special Drainage Structures	None Anticipated		\$	-			
	Water	Minor Adjustments	2%	\$	106,000			
	Sewer	Minor Adjustments	2%	\$	106,000			
	Turf and Erosion Control		2%	\$	106,000			
	Landscaping and Irrigation		4%	\$	211,000			
	Miscellaneous:		0%	\$	-			
**Allo	wances based on % of Paving Construction Co	ost Subtotal Allowa	nce Subtotal:	\$	3,012,000			
		Paving and Allowa	nce Subtotal:	\$	8,294,000			
		Construction Contingency:	15%	\$	1,244,000			
		Mobilization	8%	\$	664,000			
		Prep ROW	4%	\$	332,000			
		Construction C	ost TOTAL:	\$	10,600,000			

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 10,600,000
Engineering/Survey/Testing:		16%	\$ 1,696,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	Existing Alignment	\$20/s.f.	\$ 2,523,000

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

# 2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information:

Name:

Limits:

Sam Bass Rd to Creek Bend Blvd
Impact Fee Class:

Ultimate Class:

Ultimate Class:

Description:

Project No. A-26

This project consists of the construction of a new 4

lane divided arterial with bridges over Brushy Creek
and Dry Fork Creek.

Length (If): 4,646
Service Area(s): A

# Roadway Construction Cost Projection Construction Cost TOTAL: \$ 18,604,928

Impact Fee Project Cost Summ					
Item Description	Notes:	Allowance		Item Cost	
Construction:	From City estimate	-	\$	18,604,928	
Engineering/Survey/Testing:	From City estimate	-	\$	2,200,000	
ROW/Easement Acquisition:	New Roadway Alignment	\$10/s.f.	\$	5,575,000	
	Overall Project Cost Total:  City Contribution:  Impact Fee Project Cost:				

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

Kimley-Horn and Associates, Inc.

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. A-28

Name: Creek Bend Blvd (3) This project consists of the previous construction of

Limits: Brushy Creek to Wyoming Springs Dr a 4 lane divided arterial.

Impact Fee Class: 4 Lane - Enhanced
Ultimate Class: 4 Lane - Enhanced

Length (If): 2,123 Service Area(s): A

# Roadway Construction Cost Projection Construction Cost TOTAL: \$ 8,245,045

Impact Fee Project Cost Sum	mary		
Item Description	Notes:	Allowance	Item Cost
Construction:	From City estimate	-	\$ 8,245,045
Engineering/Survey/Testing:		-	\$ 1,964,288
ROW/Easement Acquisition:	Existing Alignment	-	\$ 802,969
	Overall Project	<b>Cost Total:</b>	\$ 11,012,302
	City Co	ontribution:	\$ 11,012,302
	Impact Fee Project C	ost (100%):	\$ 11,012,302

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

Kimley-Horn and Associates, Inc.

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. A-29

Name: Deepwood Dr (1) This project consists of the construction of a new 4

Limits: Sam Bass Rd to 345' N of RM 620 lane divided arterial.

Impact Fee Class: 4 Lane - Proposed
Ultimate Class: 4 Lane - Proposed

Length (If): 1,770 Service Area(s): A

# Roadway Construction Cost Projection Construction Cost TOTAL: \$ 11,119,830

Impact Fee Project Cost Sum	nmary		
Item Description	Notes:	Allowance	Item Cost
Construction:	From City estimate	-	\$ 11,119,830
Engineering/Survey/Testing:		-	\$ 1,130,516
ROW/Easement Acquisition:	New Roadway Alignment	-	\$ 6,650,000
	Overall Project	<b>Cost Total:</b>	\$ 18,900,346
	City Co	ontribution:	\$ 18,900,346
	Impact Fee Pi	oject Cost:	\$ 18,900,346

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

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. A-30

Name: Deepwood Dr (2) This project consists of the reconstruction of

Limits: 345' N of RM 620 to RM 620

Impact Fee Class: 4 Lane - Enhanced
Ultimate Class: 4 Lane - Enhanced

Length (If): 346 Service Area(s): A

Roa	dway Construction Cost Projection						
No.	Item Description	Quantity	Unit	Uı	nit Price		Item Cost
103	Unclassified Street Excavation	2,514	су	\$	24.33	\$	61,000
203	12" Asphalt (Type C)	1,369	ton	\$	139.92	\$	192,000
303	16" Base	922	су	\$	66.92	\$	62,000
403	10" Lime Stabilization (with Lime @ 45#/sy)	2,228	sy	\$	7.30	\$	16,000
503	Surface Treatment (0.2 gal/sy,Prime Coat AE-P)	415	gal	\$	7.30	\$	3,000
603	10' Concrete Sidewalk	6,916	sf	\$	10.95	\$	76,000
703	Machine Laid Curb & Gutter	1,383	lf	\$	36.50	\$	50,000
803	Turn Lanes and Median Openings	210	sy	\$	243.06	\$	51,000
		D				_	E44.000

Paving Construction Cost Subtotal: \$ 511,000

existing pavement to a 4 lane divided arterial.

		-		
Мај	or Construction Component Allowa	ınces**:		
	Item Description	Notes	Allowance	Item Cost
	Traffic Control	Construction Phase Traffic Control	5%	\$ 26,000
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Shared Paths	2%	\$ 10,000
	Roadway Drainage	Standard Internal System	30%	\$ 153,000
	Illumination		10%	\$ 51,000
	Special Drainage Structures	None Anticipated		\$ -
	Water	Minor Adjustments	2%	\$ 10,000
	Sewer	Minor Adjustments	2%	\$ 10,000
	Turf and Erosion Control		2%	\$ 10,000
	Landscaping and Irrigation		4%	\$ 20,000
	Miscellaneous:		0%	\$ -
**Allo	owances based on % of Paving Construction Co	ost Subtotal Allowa	ınce Subtotal:	\$ 290,000
		Paving and Allowa	ince Subtotal:	\$ 801,000
		Construction Contingency:	15%	\$ 120,000
		Mobilization	8%	\$ 64,000
		Prep ROW	4%	\$ 32,000
		Construction C	ost TOTAL:	\$ 1,100,000

Construction:			
		-	\$ 1,100,000
Engineering/Survey/Testing:		16%	\$ 176,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	Existing Alignment	\$20/s.f.	\$ 166,000

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

# 2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. A-31, C-1

Name: RM 620 This project consists of the reconstruction of Limits: Deepwood Dr to IH 35 SBFR existing pavement to a 6 lane divided arterial.

Impact Fee Class: 6 Lane - Enhanced
Ultimate Class: 6 Lane - Enhanced

Length (If): 4,923 Service Area(s): A,C

Roadway Construction Cost Projection		
	Construction Cost TOTAL:	\$ 25,545,000

Impact Fee Project Cost Summa	ary		
Item Description	Notes:	Allowance	Item Cost
Construction:	From City estimate	-	\$ 25,545,000
Engineering/Survey/Testing:		-	\$ 2,600,000
ROW/Easement Acquisition:	TxDOT Roadway	-	\$ 14,629,808
	Overall Project	<b>Cost Total:</b>	\$ 42,774,808
	City Co	ontribution:	\$ 12,560,624
	Impact Fee Project	Cost (29%):	\$ 12,560,624

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

### City of Round Rock - 2023 Roadway Impact Fee Study

Capital Improvement Plan for Roadway Impact Fees Summary of Conceptual Level Project Cost Projections

Roadway Improvements - Service Area B

<u>#</u>	IF Class	<u>Project</u>	<u>Type</u>	<u>Li</u> ı	mits	Percent in Service Area	Pro	oject Cost		otal Cost in
				<u>From</u>	<u>To</u>	Oct vice Area			<u> </u>	si vice Area
A-4, B-1	6 Lane - Enhanced	Westinghouse Rd (1)	Videning	IH 35 SBFR	IH 35 NBFR	50%	\$	9,152,896	\$	4,576,448
B-4	6 Lane - Enhanced	University Blvd (1)	reviously Constructed	University Oaks Blvd	335' W of Sunrise Dr	100%	\$	17,220,832	\$	17,220,832
B-5	6 Lane - Enhanced	University Blvd (2)	Videning	335' W of Sunrise Dr	A.W. Grimes Blvd	50%	\$	53,300,000	\$	26,650,000
B-6	4 Lane - Enhanced	University Blvd (3)	Videning	A.W. Grimes Blvd	1830' E of A.W. Grimes Blvd	100%	\$	8,200,000	\$	8,200,000
B-7	4 Lane - Enhanced	University Blvd (4)	Videning	1830' E of A.W. Grimes Blvd	Lunata Way	50%	\$	17,000,000	\$	8,500,000
B-8	4 Lane - Enhanced	University Blvd (5)	Videning	Lunata Way	Kenney Fort Blvd (Future)	100%	\$	4,300,000	\$	4,300,000
B-9	4 Lane - Enhanced	N Mays St (2)	Videning	350' S of University Blvd	2000' S of University Blvd	100%	\$	8,300,000	\$	8,300,000
A-15, B-11	4 Lane - Proposed	Eagles Nest (1)	lew	Chisholm Trl Rd (Future)	IH 35 NBFR	50%	\$	12,216,939	\$	6,108,470
B-12	4 Lane - Proposed	Eagles Nest (2) N	lew	IH 35 NBFR	Cypress Blvd	100%	\$	21,436,451	\$	21,436,451
B-13	4 Lane - Enhanced	N Mays St (4)	Videning	Paloma Dr	540' N of Steam Way	100%	\$	5,500,000	\$	5,500,000
B-15	4 Lane - Enhanced (AM)	Sunrise Rd (2)	ccess Management	Hidden Valley Dr	325' S of Eagles Nest St	100%	\$	1,600,000	\$	1,600,000
B-16	4 Lane - Enhanced (AM)	Sunrise Rd (3)	ccess Management	325' S of Eagles Nest St	Applegate Cir	50%	\$	900,000	\$	450,000
B-17	4 Lane - Enhanced (AM)	Sunrise Rd (4)	ccess Management	Applegate Cir	Lake Dr	100%	\$	700,000	\$	700,000
B-18	4 Lane - Enhanced (AM)	Sunrise Rd (5)	ccess Management	Lake Dr	545' S of Lake Dr	50%	\$	300,000	\$	150,000
B-19	4 Lane - Enhanced (AM)	Sunrise Rd (6)	ccess Management	545' S of Lake Dr	Old Settlers Blvd	100%	\$	1,200,000	\$	1,200,000
B-21	3 Lane - Proposed	Wallin Bradley (2)	Videning	College Park (Future)	A.W. Grimes Blvd	100%	\$	3,400,000	\$	3,400,000
B-22	4 Lane - Proposed	College Park (2) N	lew	Avery Nelson Rd	1355' N of Old Settlers Blvd	100%	\$	21,700,000	\$	21,700,000
B-23	3 Lane - Existing	Seton Pkwy P	reviously Constructed	2400' N of Avery Nelson Blvd	Avery Nelson Blvd	100%	\$	1,795,839	\$	1,795,839
B-24	4 Lane - Proposed	Medical Center Pkwy N	lew	College Park	Seton Pkwy	100%	\$	1,058,160	\$	1,058,160
B-25	4 Lane - Enhanced	Avery Nelson Pkwy (1)	Videning	A.W. Grimes Blvd	3580' E of A.W. Grimes Blvd	100%	\$	14,000,000	\$	14,000,000
B-26	4 Lane - Enhanced	Avery Nelson Pkwy (2)	Videning	3580' E of A.W. Grimes Blvd	Kenney Fort Blvd (Future)	50%	\$	11,800,000	\$	5,900,000
B-27, D-7	6 Lane - Proposed	Kenney Fort Blvd (1)	lew	CR 117	145' N of Haselwood Ln	100%	\$	15,018,951	\$	15,018,951
B-28, D-9	6 Lane - Proposed	Kenney Fort Blvd (3)	lew	200' N of Bluffstone Dr	Old Settlers Blvd	100%	\$	9,173,038	\$	9,173,038
B-31	6 Lane - Enhanced (1/3)	Old Settlers Blvd (1)	Videning	N Mays St	Sunrise Rd	100%	\$	14,700,000	\$	14,700,000
B-32	6 Lane - Enhanced	Old Settlers Blvd (2)	Videning	Sunrise Rd	Kenney Fort Blvd (Future)	100%	\$	60,400,000	\$	60,400,000
B-34	4 Lane - Enhanced (AM)	N Mays St A	ccess Management	540' N of Steam Way	Northwest Dr	100%	\$	3,900,000	\$	3,900,000
B-35	4 Lane - Enhanced (AM)	Sunrise Rd (7)	ccess Management	Old Settlers Blvd	Country Aire Dr	100%	\$	800,000	\$	800,000
B-36	6 Lane - Enhanced	FM 1460 (A.W. Grimes Blvd) (1)	Videning	Old Settlers Blvd	375' S of Chandler Creek Blvd	100%	\$	1,820,000	\$	1,820,000
B-37	6 Lane - Enhanced	FM 1460 (A.W. Grimes Blvd) (2)	Videning	375' S of Chandler Creek Blvd	1250' N of Tiger Trl	50%	\$	1,620,000	\$	810,000
B-38	6 Lane - Enhanced	FM 1460 (A.W. Grimes Blvd) (3)	Videning	1250' N of Tiger Trl	US 79	100%	\$	6,960,000	\$	6,960,000
B-39, D-10	6 Lane - Proposed (1/2)	Kenney Fort Blvd (4) (1	1/2) Widening	Old Settler's Blvd	2540' S of Old Settler's Blvd	100%	\$	5,000,000	\$	5,000,000
B-40, D-11	6 Lane - Proposed	Kenney Fort Blvd (5)	Videning	Old Settler's Blvd	2540' S of Old Settler's Blvd	50%	\$	4,900,000	\$	2,450,000

#### City of Round Rock - 2023 Roadway Impact Fee Study

Capital Improvement Plan for Roadway Impact Fees Summary of Conceptual Level Project Cost Projections

Roadway Improvements - Service Area B

<u>#</u>	<u>IF Class</u>	<u>Project</u>	Type	<u>Lir</u>	mits	Percent in Service Area	Proje	ct Cost	Total Cost in Service Area	
				<u>From</u>	<u>To</u>	Service Area			Service Area	
B-41, D-12	6 Lane - Proposed	Kenney Fort Blvd (6)	New	2540' S of Old Settlers Blvd	Chandler Creek Blvd	100%	\$ 1	0,700,000	\$ 10,700,000	
B-42, D-14	6 Lane - Enhanced	Kenney Fort Blvd (7)	Widening	Chandler Creek Blvd	Joe DiMaggio Blvd	100%	\$	9,600,000	\$ 9,600,000	
B-46, C-6	6 Lane - Enhanced	US 79 (1)	Widening	IH 35 NBFR	AW Grimes	50%	\$ 1	6,379,383	\$ 8,189,692	
B-47	6 Lane - Enhanced	US 79 (3)	Widening	200' E of Red Bud Ln	1690' E of Red Bud Ln	50%	\$	1,600,000	\$ 800,000	
B-48	3 Lane - Proposed	Joe Dimaggio Blvd Extension	New	Kenney Fort Blvd	US 79	100%	\$	7,000,000	\$ 7,000,000	
B-49	3 Lane - Proposed	Wallin Bradley (1)	New	College Park Dr	Wallin Bradley (Future)	100%	\$	9,800,000	\$ 9,800,000	
B-50	4 Lane - Proposed	Wallin Bradley (3)	New	A.W. Grimes Blvd	Kenney Fort Blvd (Future)	100%	\$ 1	8,200,000	\$ 18,200,000	
B-51, C-28	6 Lane - Enhanced	US 79 (2)	Widening	AW Grimes	Red Bud Ln	50%	\$ 1	2,760,000	\$ 6,380,000	

TOTAL \$ 425,412,489 \$ 354,447,880

Intersection Improvements - Service Area B

	Drainat	Project Improvement		Percent in	Drainet Cont	Total Cost in
#	<u>Project</u>	Improvement 1	Improvement 2	Service Area	Project Cost	Service Area
BI-4, CI-8	A.W. Grimes Blvd and Palm Valley Blvd	OTHER	TURN LANES	50%	\$ 2,141,000	\$ 1,070,500
-	Update ITS and Traffic Managmenet Infrastructure			25%	\$ 20,900,000	\$ 5,225,000

TOTAL \$ 23,041,000 \$ 6,295,500

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

Kimley-Horn and Associates, Inc.

# 2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. B-4

Name: University Blvd (1) This project consists of the reconstruction of Limits: University Oaks Blvd to 335' W of Sun existing pavement to a 6 lane divided arterial.

Impact Fee Class: 6 Lane - Enhanced
Ultimate Class: 6 Lane - Enhanced

Length (If): 2,601
Service Area(s): B

# Roadway Construction Cost Projection Construction Cost TOTAL: \$ 13,672,344

Impact Fee Project Cost Sum	nmary			
Item Description	Notes:		Allowance	Item Cost
Construction:			-	\$ 13,672,344
Engineering/Survey/Testing:			-	\$ 1,987,487
ROW/Easement Acquisition:	<b>Existing Alignment</b>		\$20/s.f.	\$ 1,561,000
		<b>Overall Project</b>		
				17,220,832
		Impact Fee Pr	oject Cost:	\$ 17,220,832

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

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. B-5

Name: University Blvd (2) This project consists of the reconstruction of Limits: This project consists of the reconstruction of existing pavement to a 6 lane divided arterial.

Impact Fee Class: 6 Lane - Enhanced
Ultimate Class: 6 Lane - Enhanced

Length (If): 10,701 Service Area(s): B

Roa	adway Construction Cost Pro	jection						
No.	Item Description	-	Quantity	Unit	Uı	nit Price		Item Cost
105	Unclassified Street Excavation		105,425	су	\$	24.33	\$	2,565,000
205	12" Asphalt (Type C)		59,641	ton	\$	139.92	\$	8,345,000
305	16" Base		40,162	су	\$	66.92	\$	2,687,000
405	405 10" Lime Stabilization (with Lime @ 45#/sy)			sy	\$	7.30	\$	694,000
505	Surface Treatment (0.2 gal/sy,Prime	Coat AE-P)	18,073	gal	\$	7.30	\$	132,000
605	10' Concrete Sidewalk		214,021	sf	\$	10.95	\$	2,344,000
705	Machine Laid Curb & Gutter		42,804	lf	\$	36.50	\$	1,562,000
805	Turn Lanes and Median Openings		6,485	sy	\$	243.06	\$	1,576,000
	Paving Construction (				Cost	Subtotal:	\$	19,905,000
Majo	or Construction Component Allowa	nces**:						
	Item Description	Notes Allowance						Item Cost
V	Traffic Control	Construction Phase Traffic Control				5%		995,000
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Shared Paths				2%		398,000
	Roadway Drainage	Standard Internal Sys	stem			30%		5,972,000
	Illumination					10%	\$	1,991,000
	Special Drainage Structures	Bridge Crossing					\$	500,000
	Water	Minor Adjustments				2%	\$	398,000
	Sewer	Minor Adjustments				2%	\$	398,000
	Turf and Erosion Control					4%	\$	796,000
	Landscaping and Irrigation					2%	\$	398,000
	Miscellaneous:					0%	\$	-
**Allo	wances based on % of Paving Construction Co	st Subtotal		Allowa	ınce	Subtotal:	\$	11,846,000
			Paving an				-	31,751,000
		Constr	uction Conti	ngency:		15%		4,763,000
				ilization		8%	\$	2,540,000
			Pro	ep ROW		4%	\$	1,270,000
			Constru	ction C	ost	TOTAL:	\$	40,400,000

Item Description	Notes:	Allowance		Item Cost
Construction:		-	\$	40,400,000
Engineering/Survey/Testing:		16%	\$	6,464,000
Previous City contribution				
Other				
ROW/Easement Acquisition:	Existing Alignment	\$20/s.f.	\$	6,421,000
	Impact Fee Project (	Cost TOTAL :	6	53,300,000

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

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. B-6

Name: University Blvd (3) This project consists of the

Limits: A.W. Grimes Blvd to 1830' E of A.W. Grimes Blvd reconstruction of the existing pavement

Impact Fee Class: 4 Lane - Enhanced to a 4 lane divided arterial.

Ultimate Class: 4 Lane - Enhanced

Length (If): 1,922 Service Area(s): B

Roa	adway Construction Cost Pro	jection					
No.	Item Description	•	Quantity	Unit	Uı	nit Price	Item Cost
103	Unclassified Street Excavation		13,977	су	\$	24.33	\$ 340,000
203	12" Asphalt (Type C)		7,612	ton	\$	139.92	\$ 1,065,000
303	16" Base		5,126	су	\$	66.92	\$ 343,000
403	10" Lime Stabilization (with Lime @	45#/sy)	12,387	sy	\$	7.30	\$ 90,000
503	Surface Treatment (0.2 gal/sy,Prime	Coat AE-P)	2,307	gal	\$	7.30	\$ 17,000
603	10' Concrete Sidewalk		38,444	sf	\$	10.95	\$ 421,000
703	Machine Laid Curb & Gutter		7,689	lf	\$	36.50	\$ 281,000
803	Turn Lanes and Median Openings		1,165	sy	\$	243.06	\$ 283,000
		F	Paving Consti	ruction (	Cost	Subtotal:	\$ 2,840,000
Majo	or Construction Component Allowa						
	Item Description	Notes			All	lowance	Item Cost
	Traffic Control	Construction Phase	Traffic Control			5%	\$ 142,000
	Pavement Markings/Signs/Posts	Includes Striping/Sig	ns for Shared Pa	ths		2%	\$ 57,000
	Roadway Drainage	Standard Internal Sy	stem			30%	852,000
	Illumination					10%	\$ 284,000
	Special Drainage Structures	Bridge Crossing					\$ 500,000
	Water	Minor Adjustments				2%	\$ 57,000
	Sewer	Minor Adjustments				2%	\$ 57,000
	Turf and Erosion Control					4%	\$ 114,000
	Landscaping and Irrigation					2%	\$ 57,000
	Miscellaneous:					0%	\$ -
**Allo	wances based on % of Paving Construction Co	ost Subtotal		Allowa	nce	Subtotal:	\$ 2,120,000
			Paving an			Subtotal:	\$ 4,960,000
		Const	ruction Conti	ngency:		15%	\$ 744,000
				ilization		8%	\$ 397,000
				ep ROW		4%	\$ 198,000
			Constru	ction C	ost	TOTAL:	\$ 6,300,000

Construction:		Allowance	Item Cost
Construction:		-	\$ 6,300,000
Engineering/Survey/Testing:		16%	\$ 1,008,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	Existing Alignment	\$20/s.f.	\$ 923,000

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

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. B-7

Name: University Blvd (4) This project consists of the

Limits: 1830' E of A.W. Grimes Blvd to Lunata Way reconstruction of the existing pavement

Impact Fee Class: 4 Lane - Enhanced to a 4 lane divided arterial.

Ultimate Class: 4 Lane - Enhanced

Length (If): 4,093
Service Area(s): B

D -	-lead One (marking One)						
	dway Construction Cost Prolitem Description	jection	Quantity	Unit	Ur	nit Price	Item Cost
103	Unclassified Street Excavation		29,763	СУ	\$	24.33	\$ 724,000
203	12" Asphalt (Type C)		16,208	ton	\$	139.92	\$ 2,268,000
303	16" Base		10,915	СУ	\$	66.92	\$ 730,000
	10" Lime Stabilization (with Lime @ 4	15#/sv)	26,377	sy	\$	7.30	\$ 193,000
	Surface Treatment (0.2 gal/sy,Prime		4,912	gal	\$	7.30	\$ 36,000
603	10' Concrete Sidewalk	,	81,861	sf	\$	10.95	\$ 896,000
703	Machine Laid Curb & Gutter		16,372	lf	\$	36.50	\$ 598,000
803	Turn Lanes and Median Openings		2,481	sy	\$	243.06	\$ 603,000
	· · ·	F	aving Const	ruction (		Subtotal:	\$ 6,048,000
Majo	or Construction Component Allowa	nces**:					
	Item Description	Notes			All	lowance	Item Cost
	Traffic Control	Construction Phase	Traffic Control			5%	\$ 302,000
	Pavement Markings/Signs/Posts	Includes Striping/Sig	ns for Shared Pa	ths		2%	\$ 121,000
	Roadway Drainage	Standard Internal Sy	stem			30%	\$ 1,814,000
	Illumination					10%	\$ 605,000
	Special Drainage Structures	Bridge Crossing					\$ 700,000
	Water	Minor Adjustments				2%	\$ 121,000
	Sewer	Minor Adjustments				2%	\$ 121,000
	Turf and Erosion Control					4%	\$ 242,000
	Landscaping and Irrigation					2%	\$ 121,000
	Miscellaneous:					0%	\$ -
**Allo	wances based on % of Paving Construction Co	st Subtotal		Allowa	nce	Subtotal:	\$ 4,147,000
			Paving an	d Allowa	nce	Subtotal:	\$ 10,195,000
		Const	ruction Conti	ngency:		15%	\$ 1,529,000
I			Mob	ilization		8%	\$ 816,000
			Pro	ep ROW		4%	\$ 408,000
			Constru	ction C	ost	TOTAL:	\$ 13,000,000

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 13,000,000
Engineering/Survey/Testing:		16%	\$ 2,080,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	Existing Alignment	\$20/s.f.	\$ 1,965,000

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

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. B-8

Name: University Blvd (5) This project consists of the reconstruction of the

Limits: Lunata Way to Kenney Fort Blvd (Futu existing pavement to a 4 lane divided arterial.

Impact Fee Class: 4 Lane - Enhanced
Ultimate Class: 4 Lane - Enhanced

Length (If): 839
Service Area(s): B

Roa	adway Construction Cost Pro	jection					
No.	Item Description		Quantity	Unit	Ur	nit Price	Item Cost
103	Unclassified Street Excavation		6,099	су	\$	24.33	\$ 148,000
203	12" Asphalt (Type C)		3,321	ton	\$	139.92	\$ 465,000
303	16" Base		2,237	су	\$	66.92	\$ 150,000
403	10" Lime Stabilization (with Lime @ 4	45#/sy)	5,405	sy	\$	7.30	\$ 39,000
503	Surface Treatment (0.2 gal/sy,Prime	Coat AE-P)	1,006	gal	\$	7.30	\$ 7,000
603	10' Concrete Sidewalk		16,775	sf	\$	10.95	\$ 184,000
703	Machine Laid Curb & Gutter		3,355	lf	\$	36.50	\$ 122,000
803	Turn Lanes and Median Openings		508	sy	\$	243.06	\$ 124,000
		Р	aving Consti	ruction (	Cost	Subtotal:	\$ 1,239,000
<u> </u>							
Majo	or Construction Component Allowa						
	Item Description	Notes			All	lowance	Item Cost
V	Traffic Control	Construction Phase 1	Traffic Control			5%	\$ 62,000
	Pavement Markings/Signs/Posts	Includes Striping/Sigr	ns for Shared Pat	ths		2%	\$ 25,000
	Roadway Drainage	Standard Internal Sys	stem			30%	\$ 372,000
	Illumination					10%	\$ 124,000
	Special Drainage Structures	Bridge Crossing					\$ 700,000
	Water	Minor Adjustments				2%	\$ 25,000
	Sewer	Minor Adjustments				2%	\$ 25,000
	Turf and Erosion Control					4%	\$ 50,000
	Landscaping and Irrigation					2%	\$ 25,000
	Miscellaneous:					0%	\$ -
**Allo	wances based on % of Paving Construction Co	st Subtotal		Allowa	nce	Subtotal:	\$ 1,408,000
			Paving and			Subtotal:	\$ 2,647,000
		Constr	ruction Conti	ngency:		15%	\$ 397,000
			Mob	ilization		8%	\$ 212,000
			Pro	ep ROW		4%	\$ 106,000
			Construc	ction C	ost	TOTAL:	\$ 3,400,000

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 3,400,000
Engineering/Survey/Testing:		16%	\$ 544,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	Existing Alignment	\$20/s.f.	\$ 403,000
	Impact Fee Project C	ost TOTAL:	\$ 4,300,000

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

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. B-9

Name: N Mays St (2) This project consists of the

Limits: 350' S of University Blvd to 2000' S of University Blv reconstruction of the existing pavement

Impact Fee Class: 4 Lane - Enhanced to a 4 lane divided arterial.

Ultimate Class: 4 Lane - Enhanced

Length (If): 1,655
Service Area(s): B

	adway Construction Cost Pro	jection					
No.	Item Description		Quantity	Unit	Ur	nit Price	Item Cost
103	Unclassified Street Excavation		12,031	су	\$	24.33	\$ 293,000
203	12" Asphalt (Type C)		6,552	ton	\$	139.92	\$ 917,000
303	16" Base		4,412	су	\$	66.92	\$ 295,000
403	10" Lime Stabilization (with Lime @	45#/sy)	10,662	sy	\$	7.30	\$ 78,000
503	Surface Treatment (0.2 gal/sy,Prime	Coat AE-P)	1,985	gal	\$	7.30	\$ 14,000
603			33,090	sf	\$	10.95	\$ 362,000
703	Machine Laid Curb & Gutter		6,618	lf	\$	36.50	\$ 242,000
803	Turn Lanes and Median Openings		1,003	sy	\$	243.06	\$ 244,000
		F	Paving Consti	ruction (	Cost	Subtotal:	\$ 2,445,000
Majo	or Construction Component Allowa						
	Item Description	Notes			All	lowance	Item Cost
√.	Traffic Control	Construction Phase	Traffic Control			5%	\$ 122,000
	Pavement Markings/Signs/Posts	Includes Striping/Sig	ns for Shared Pa	ths		2%	\$ 49,000
	Roadway Drainage	Standard Internal Sy	stem			30%	\$ 734,000
	Illumination					10%	\$ 245,000
	Special Drainage Structures	Bridge Crossing					\$ 1,200,000
	Water	Minor Adjustments				2%	\$ 49,000
	Sewer	Minor Adjustments				2%	\$ 49,000
	Turf and Erosion Control					4%	\$ 98,000
	Landscaping and Irrigation					2%	\$ 49,000
	Miscellaneous:					0%	\$ -
**Allo	wances based on % of Paving Construction Co	ost Subtotal		Allowa	nce	Subtotal:	\$ 2,595,000
			Paving an				5,040,000
I		Consti	ruction Conti	-		15%	\$ 756,000
I				ilization		8%	\$ 403,000
				ep ROW		4%	\$ 202,000
			Constru	ction C	ost	TOTAL:	\$ 6,500,000

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 6,500,000
Engineering/Survey/Testing:		16%	\$ 1,040,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	Existing Alignment	\$20/s.f.	\$ 794,000

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

### Kimley-Horn and Associates, Inc.

# **City of Round Rock**

# 2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. B-12

Name: Eagles Nest (2) This project consists of the construction of a new 4

lane divided arterial.

Limits: IH 35 NBFR to Cypress Blvd

Impact Fee Class: 4 Lane - Proposed
Ultimate Class: 4 Lane - Proposed

Length (If): 3,644
Service Area(s): B

Roadway Construction Cost Projection		
	Construction Cost TOTAL: \$	17,010,230

Impact Fee Project Cost Sun	nmary			
Item Description	Notes:		Allowance	Item Cost
Construction:	From City Estimate		-	\$ 17,010,230
Engineering/Survey/Testing:	From City Estimate		11%	\$ 1,871,125
ROW/Easement Acquisition:	From City Estimate		-	\$ 2,555,096
		Overall Project	<b>Cost Total:</b>	\$ 21,436,451
		City Co	ontribution:	\$ 21,436,451
		Impact Fee Pr	roject Cost:	\$ 21,436,451

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

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information:

Name:

Name:

Name:

Project No.

Name:

Name:

Project No.

Name:

This project consists of the reconstruction of the existing pavement to a 4 lane divided arterial.

Impact Fee Class: 4 Lane - Enhanced
Ultimate Class: 4 Lane - Enhanced

Length (If): 1,402 Service Area(s): B

Roa	adway Construction Cost Pro	jection					
No.	Item Description		Quantity	Unit	Uı	nit Price	Item Cost
103	Unclassified Street Excavation		10,197	су	\$	24.33	\$ 248,000
203	12" Asphalt (Type C)		5,553	ton	\$	139.92	\$ 777,000
303	16" Base		3,740	су	\$	66.92	\$ 250,000
403	10" Lime Stabilization (with Lime @	45#/sy)	9,037	sy	\$	7.30	\$ 66,000
503	Surface Treatment (0.2 gal/sy,Prime	Coat AE-P)	1,683	gal	\$	7.30	\$ 12,000
603	10' Concrete Sidewalk		28,046	sf	\$	10.95	\$ 307,000
703			5,609	lf	\$	36.50	\$ 205,000
803	Turn Lanes and Median Openings		850	sy	\$	243.06	\$ 207,000
		P	aving Const	ruction (	Cost	Subtotal:	\$ 2,072,000
Majo	or Construction Component Allowa	nces**:					
	Item Description	Notes			All	lowance	Item Cost
	Traffic Control	Construction Phase	Traffic Control			5%	\$ 104,000
	Pavement Markings/Signs/Posts	Includes Striping/Sig	ns for Shared Pa	ths		2%	\$ 41,000
	Roadway Drainage	Standard Internal Sys	stem			30%	622,000
	Illumination					10%	\$ 207,000
	Special Drainage Structures	None Anticipated					\$ -
	Water	Minor Adjustments				2%	\$ 41,000
	Sewer	Minor Adjustments				2%	\$ 41,000
	Turf and Erosion Control					4%	\$ 83,000
	Landscaping and Irrigation					2%	\$ 41,000
	Miscellaneous:					0%	\$ -
**Allo	wances based on % of Paving Construction Co	st Subtotal		Allowa	nce	Subtotal:	\$ 1,180,000
			Paving an	d Allowa	nce	Subtotal:	\$ 3,252,000
		Constr	uction Conti	ngency:		15%	\$ 488,000
				ilization		8%	\$ 260,000
			Pre	ep ROW		4%	\$ 130,000
			Constru	ction C	ost	TOTAL:	\$ 4,200,000

Construction: Engineering/Survey/Testing:	- <b>\$</b> 16% \$	-,,
	16% \$	672 000
		072,000
Previous City contribution		
Other		
ROW/Easement Acquisition: Existing A	lignment \$20/s.f. \$	673,000

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

## **City of Round Rock** 2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

**Project Information:** B-15 Description: Project No.

Name: Sunrise Rd (2) This project consists of the

Limits: Hidden Valley Dr to 325' S of Eagles Nest St reconstruction of existing pavement to

Impact Fee Class: 4 Lane - Enhanced (AM)

include a median. **Ultimate Class:** 4 Lane - Enhanced (AM)

Length (If): 2,858 Service Area(s): В

No.	Item Description	Quantity	Unit	Uı	nit Price	1	Item Cost
104	Unclassified Street Excavation	5,363	су	\$	24.33	\$	130,000
204	Asphalt (Type C)	0	ton	\$	139.92	\$	-
304	Base	0	су	\$	66.92	\$	-
404	Lime Stabilization (with Lime @ 45#/sy)	0	sy	\$	7.30	\$	-
504	Surface Treatment (0.2 gal/sy,Prime Coat AE-P)	0	gal	\$	7.30	\$	-
604	Concrete Sidewalk	0	sf	\$	10.95	\$	-
704	Machine Laid Curb & Gutter	5,715	lf	\$	36.50	\$	209,000
804	Turn Lanes and Median Openings	1,732	sy	\$	243.06	\$	421,000
		Paving Constr	ruction (	Cost	Subtotal:	\$	760,000
		•					

N4 - :				_	
Majo	or Construction Component Allowa Item Description	Notes	Unit Price		Item Cost
	Traffic Control	Assume 6 months to Construct	\$2,500 / MO	\$	15,000
	Pavement Markings/Signs/Posts	4 signs / 1000', 1/2 Length mrkgs (\$1.50/LF)	\$750	\$	11,000
	Roadway Drainage	None Anticipated	0%	\$	-
	Street Lighting	1 Assem / 100', \$15/LF cond/cndr	\$2,800	\$	123,000
	Special Drainage Structures	None Anticipated		\$	-
	Utilities	Minor Adjustments	\$1,000 / STA	\$	6,000
	ADA Ramps & Requirements	4 ramps / 600'	\$2,200	\$	42,000
	Landscaping and Irrigation	Grass, Trees, Restoration, E/S Controls	\$10 / SY	\$	135,000
**Allo	\$	332,000			
	\$	1,092,000			
		Construction Contingency:	15%	\$	164,000
		Mobilization	5%	\$	55,000
		Prep ROW	\$3,000 / STA	\$	9,000
		Construction C	ost TOTAL:	\$	1,400,000

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 1,400,000
Engineering/Survey/Testing:		16%	\$ 224,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	No ROW Acquisition Costs included		\$ -

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

## City of Round Rock 2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. B-16

Name: Sunrise Rd (3) This project consists of the

Limits: 325' S of Eagles Nest St to Applegate Cir reconstruction of existing pavement to

Impact Fee Class: 4 Lane - Enhanced (AM) include a median.

Ultimate Class: 4 Lane - Enhanced (AM)

Length (If): 1,576 Service Area(s): B

Roa	adway Construction Cost Proj	ection						
No.	Item Description		Quantity	Unit	Uı	nit Price		Item Cost
104	Unclassified Street Excavation		2,958	су	\$	24.33	\$	72,000
204	Asphalt (Type C)		0	ton	\$	139.92	\$	-
304	Base		0	су	\$	66.92	\$	-
404	Lime Stabilization (with Lime @ 45#/	sy)	0	sy	\$	7.30	\$	-
504	Surface Treatment (0.2 gal/sy,Prime	Coat AE-P)	0	gal	\$	7.30	\$	-
604	Concrete Sidewalk		0	sf	\$	10.95	\$	-
704	Machine Laid Curb & Gutter		3,153	lf	\$	36.50	\$	115,000
804	74 Turn Lanes and Median Openings		955	sy	\$	243.06	\$	232,000
	Paving Construction Cos				Cost	Subtotal:	\$	419,000
Majo	or Construction Component Allowa	nces**:						
	Item Description	Notes			Uı	nit Price		Item Cost
V	Traffic Control	Assume 6 months to	o Construct		\$2	,500 / MO	\$	15,000
	Pavement Markings/Signs/Posts	4 signs / 1000', 1/2	Length mrkgs (\$1.5	50/LF)		\$750	\$	6,000
1	5 . 5 .	I					_	

	Item Description	Notes	Unit Price		Item Cost		
	Traffic Control	Assume 6 months to Construct	\$2,500 / MO	\$	15,000		
	Pavement Markings/Signs/Posts	4 signs / 1000', 1/2 Length mrkgs (\$1.50/LF)	\$750	\$	6,000		
	Roadway Drainage	None Anticipated	0%	\$	-		
	Street Lighting	1 Assem / 100', \$15/LF cond/cndr	\$2,800	\$	68,000		
	Special Drainage Structures	ecial Drainage Structures None Anticipated		\$	-		
	Utilities	Minor Adjustments	\$1,000 / STA	\$	3,000		
	ADA Ramps & Requirements	4 ramps / 600'	\$2,200	\$	23,000		
	Landscaping and Irrigation	Grass, Trees, Restoration, E/S Controls	\$10 / SY	\$	74,000		
**Allowances based on % of Paving Construction Cost Subtotal Allowance Subtotal:				\$	189,000		
	\$	608,000					
		Construction Contingency:	15%	\$	91,000		
		Mobilization	5%	\$	30,000		
		Prep ROW	\$3,000 / STA	\$	5,000		
		Construction C	ost TOTAL:	\$	800,000		

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 800,000
Engineering/Survey/Testing:		16%	\$ 128,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	No ROW Acquisition Costs included		\$ -

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

Project Information:

Name:

Sunrise Rd (4)

Limits:

Impact Fee Class:

Ultimate Class:

Description:

Project No.

B-17

This project consists of the reconstruction of existing pavement to include a median.

Existing pavement to include a median.

4 Lane - Enhanced (AM)

4 Lane - Enhanced (AM)

Length (If): 1,075 Service Area(s): B

Roa	adway Construction Cost Pro	ection						
No.	Item Description		Quantity	Unit	Ur	nit Price		Item Cost
104	Unclassified Street Excavation		2,017	су	\$	24.33	\$	49,000
204	Asphalt (Type C)		0	ton	\$	139.92	\$	-
304	Base		0	су	\$	66.92	\$	-
404	404 Lime Stabilization (with Lime @ 45#/sy)			sy	\$	7.30	\$	-
504	Surface Treatment (0.2 gal/sy,Prime	Coat AE-P)	0	gal	\$	7.30	\$	-
604	Concrete Sidewalk		0	sf	\$	10.95	\$	-
704	Machine Laid Curb & Gutter	2,149 If			\$	36.50	\$	78,000
804	Turn Lanes and Median Openings		651	sy	\$	243.06	\$	158,000
	Paving Construction Cost Subtotal							285,000
Major Construction Component Allowances**:								
	Item Description	Notes			Ur	nit Price		Item Cost
	Traffic Control	Assume 6 months to	Construct		\$2	,500 / MO	\$	15,000
	Pavement Markings/Signs/Posts	4 signs / 1000', 1/2 L	ength mrkgs (\$1.5	50/LF)		\$750	\$	4,000
	Roadway Drainage	None Anticipated				0%	\$	-
	Street Lighting	1 Assem / 100', \$15/	LF cond/cndr			\$2,800	\$	46,000
	Special Drainage Structures	None Anticipated					\$	-
	Utilities	Minor Adjustments			\$1,	000 / STA	\$	2,000
	ADA Ramps & Requirements	4 ramps / 600'				\$2,200	\$	16,000
	Landscaping and Irrigation	Grass, Trees, Restor	ration, E/S Contro	ls		\$10 / SY	\$	51,000
**Allo	wances based on % of Paving Construction Co	st Subtotal		Allowa	nce	Subtotal:	\$	134,000
		•	Paving an	d Allowa	nce	Subtotal:	\$	419,000
		Const	ruction Conti	ngency:		15%	\$	63,000
			Mob	ilization		5%	\$	21,000
			Pro	ep ROW	\$3,	000 / STA	\$	3,000
			Constru	ction C	ost	TOTAL:	\$	600,000

Item Description	Notes:	Allowance	l	tem Cost
Construction:		-	\$	600,000
Engineering/Survey/Testing:		16%	\$	96,000
Previous City contribution				
Other				
ROW/Easement Acquisition:	No ROW Acquisition Costs included		\$	-

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

Project Information:Description:Project No.B-18Name:Sunrise Rd (5)This project consists of the reconstruction of

Limits: Lake Dr to 545' S of Lake Dr Impact Fee Class: 4 Lane - Enhanced (AM)

Ultimate Class: 4 Lane - Enhanced (AM)
Length (If): 543
Service Area(s): B

Dr existing pavement to include a median.

Roa	adway Construction Cost Proj	jection					
No.	Item Description		Quantity	Unit	Ur	nit Price	Item Cost
104	Unclassified Street Excavation	•	1,019	су	\$	24.33	\$ 25,000
204	Asphalt (Type C)		0	ton	\$	139.92	\$ -
304	Base		0	су	\$	66.92	\$ -
404	Lime Stabilization (with Lime @ 45#/sy)		0	sy	\$	7.30	\$ -
504	Surface Treatment (0.2 gal/sy,Prime Coat AE-P)		0	gal	\$	7.30	\$ 
604	4 Concrete Sidewalk		0	sf	\$	10.95	\$ -
704	Machine Laid Curb & Gutter		1,086	lf	\$	36.50	\$ 40,000
804	Turn Lanes and Median Openings		329	sy	\$	243.06	\$ 80,000
		F	Paving Const	ruction (	Cost	Subtotal:	\$ 145,000
			_				
Majo	or Construction Component Allowa	nces**:					
	Item Description	Notes			Ur	nit Price	Item Cost
	Traffic Control	Assume 6 months to	Construct		\$2	,500 / MO	\$ 15,000
	Pavement Markings/Signs/Posts	4 signs / 1000', 1/2 L	ength mrkgs (\$1./	50/LF)		\$750	\$ 2,000
	Roadway Drainage	None Anticipated				0%	\$ _

	Item Description	Notes	Unit Price		Item Cost	
	Traffic Control	Assume 6 months to Construct	\$2,500 / MO	\$	15,000	
	Pavement Markings/Signs/Posts	4 signs / 1000', 1/2 Length mrkgs (\$1.50/LF)	\$750	\$	2,000	
	Roadway Drainage	None Anticipated	0%	\$	-	
	Street Lighting	1 Assem / 100', \$15/LF cond/cndr	\$2,800	\$	23,000	
	Special Drainage Structures	\$	-			
	Utilities	Minor Adjustments	\$1,000 / STA	\$	1,000	
	ADA Ramps & Requirements	4 ramps / 600'	\$2,200	\$	8,000	
	Landscaping and Irrigation	Grass, Trees, Restoration, E/S Controls	\$10 / SY	\$	26,000	
**Allo	**Allowances based on % of Paving Construction Cost Subtotal Allowance Subtotal:					
		Paving and Allowa	ince Subtotal:	\$	220,000	
		Construction Contingency:	15%	\$	33,000	
		Mobilization	5%	\$	11,000	
		Prep ROW	\$3,000 / STA	\$	2,000	
		Construction C	ost TOTAL:	\$	300,000	

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 300,000
Engineering/Survey/Testing:		16%	\$ 48,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	No ROW Acquisition Costs included		\$ -

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

Project Information: Description: Project No. B-19

Name: Sunrise Rd (6) This project consists of the reconstruction of

Limits: 545' S of Lake Dr to Old Settlers Blvd existing pavement to include a median.

Impact Fee Class: 4 Lane - Enhanced (AM)
4 Lane - Enhanced (AM)

Length (If): 2,098 Service Area(s): B

	dway Construction Cost Pro	ection						
No.	Item Description		Quantity	Unit	Uı	nit Price		Item Cost
104	Unclassified Street Excavation		3,937	су	\$	24.33	\$	96,000
204	Asphalt (Type C)		0	ton	\$	139.92	\$	-
304	04 Base 0 cy			су	\$	66.92	\$	-
404	04 Lime Stabilization (with Lime @ 45#/sy)			sy	\$	7.30	\$	-
504				gal	\$	7.30	\$	-
604	Concrete Sidewalk		0	sf	\$	10.95	\$	-
704	Machine Laid Curb & Gutter		4,196	lf	\$	36.50	\$	153,000
804	Turn Lanes and Median Openings		1,271	sy	\$	243.06	\$	309,000
	Paving Construction Cost Subtotal:							558,000
Majo	Major Construction Component Allowances**:							
	Item Description	Notes			Uı	nit Price		Item Cost
	Traffic Control	Assume 6 months to	Construct		\$2	2,500 / MO	\$	15,000
	Pavement Markings/Signs/Posts	4 signs / 1000', 1/2 L	ength mrkgs (\$1.	50/LF)		\$750	\$	8,000
	Roadway Drainage	None Anticipated				0%	\$	-
	Street Lighting	1 Assem / 100', \$15/I	LF cond/cndr			\$2,800	\$	90,000
	Special Drainage Structures	None Anticipated					\$	-
	Utilities	Minor Adjustments			\$1,	000 / STA	\$	4,000
	ADA Ramps & Requirements	4 ramps / 600'				\$2,200	\$	31,000
	Landscaping and Irrigation	Grass, Trees, Restor	ation, E/S Contro	ls		\$10 / SY	\$	99,000
**Allo	wances based on % of Paving Construction Co	st Subtotal		Allowa	nce	Subtotal:	\$	247,000
			Paving an	d Allowa	nce	Subtotal:	\$	805,000
		Const	ruction Conti			15%	\$	121,000
				ilization		5%	\$	40,000
			Pr	ep ROW	\$3,	000 / STA	\$	6,000
			Constru	ction C	ost	TOTAL:	\$	1,000,000

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 1,000,000
Engineering/Survey/Testing:		16%	\$ 160,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	No ROW Acquisition Costs included		\$ -

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

## City of Round Rock 2023 Roadway Impact Fee Study

Conceptual Level Project Cost Projection

Project Information:Description:Project No.B-21Name:Wallin Bradley (2)This project consists of the construction of a new 3

Limits: College Park (Future) to A.W. Grimes I lane undivided collector.

Impact Fee Class: 3 Lane - Proposed Ultimate Class: 3 Lane - Proposed

Length (If): 1,971 Service Area(s): B

Roa	adway Construction Cost Pro	ection						
No.	Item Description		Quantity	Unit	Ur	nit Price		Item Cost
109	Unclassified Street Excavation		5,856	су	\$	24.33	\$	143,000
209	5" Asphalt (Type C)		3,192	ton	\$	139.92	\$	447,000
309	10" Base		3,224	су	\$	66.92	\$	216,000
409	10" Lime Stabilization (with Lime @ 4	l5#/sy)	12,046	sy	\$	7.30	\$	88,000
509	Surface Treatment (0.2 gal/sy,Prime Coat AE-P)			gal	\$	7.30	\$	17,000
609	609 10' Concrete Sidewalk 39			sf	\$	10.95	\$	432,000
709	09 Machine Laid Curb & Gutter 3,942 If				\$	36.50	\$	144,000
809	309 Turn Lanes and Median Openings 0 sy \$					243.06	\$	-
		P	aving Const	ruction (	Cost	Subtotal:	\$	1,487,000
Major Construction Component Allowances**:								
	Item Description	Notes			All	owance		Item Cost
	Traffic Control	None Anticipated				0%	-	-
V	Pavement Markings/Signs/Posts	Includes Striping/Sign	ns for Shared Pa	ths		2%		30,000
V	Roadway Drainage	Standard Internal Sys	stem			30%	-	446,000
	Illumination					10%	\$	149,000
	Special Drainage Structures	None Anticipated					\$	-
	Water	Minor Adjustments				2%	\$	30,000
	Sewer	Minor Adjustments				2%	\$	30,000
	Turf and Erosion Control					4%	\$	59,000
	Landscaping and Irrigation					2%	\$	30,000
						0%	_	-
**Allo	wances based on % of Paving Construction Co	st Subtotal		Allowa	nce	Subtotal:	\$	774,000
			Paving an					2,261,000
		Constr	uction Conti			15%	\$	339,000
				ilization		8%	\$	181,000
				ep ROW		4%	\$	90,000
			Constru	ction C	ost	TOTAL:	\$	2,900,000

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 2,900,000
Engineering/Survey/Testing:		16%	\$ 464,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	New Roadway Alignment	\$10/s.f.	

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

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

**Project Information: B-22** Description: Project No. Name: College Park (2) This project consisted of the construction of a 4 lane divided arterial.

Limits: Avery Nelson Rd to 1355' N of Old Settlers Blvd

Impact Fee Class: 4 Lane - Proposed **Ultimate Class:** 4 Lane - Proposed

Length (If): 4,800 Service Area(s): В

Roadway Construction Cost Projection								
No.	Item Description	-	Quantity	Unit	Uı	nit Price		Item Cost
102	Unclassified Street Excavation		34,903	су	\$	24.33	\$	849,000
202	12" Asphalt (Type C)		19,008	ton	\$	139.92	\$	2,659,000
302	16" Base		12,800	су	\$	66.92	\$	857,000
402	10" Lime Stabilization (with Lime @	45#/sy)	30,933	sy	\$	7.30	\$	226,000
502	502 Surface Treatment (0.2 gal/sy,Prime Coat AE-P)			gal	\$	7.30	\$	42,000
602				\$	10.95	\$	1,051,000	
702	Machine Laid Curb & Gutter	19,200 If			\$	36.50	\$	701,000
802	72 Turn Lanes and Median Openings 2,909 sy \$				\$	243.06	\$	707,000
	Paving Construction Cost Subtotal:							7,092,000
Majo	Major Construction Component Allowances**:							
	Item Description	Notes Allo			lowance		Item Cost	
	Traffic Control	None Anticipated				0%		-
	Pavement Markings/Signs/Posts	Includes Striping/Sig	ns for Shared Pa	ths		2%	\$	142,000
	Roadway Drainage	Standard Internal Sys	stem			30%		2,128,000
	Illumination					10%	\$	709,000
	Special Drainage Structures	None Anticipated					\$	-
	Water	Minor Adjustments				2%	\$	142,000
	Sewer	Minor Adjustments				2%	\$	142,000
	Turf and Erosion Control					4%	\$	284,000
	Landscaping and Irrigation					2%	\$	142,000
	Miscellaneous:					0%	\$	-
**Allo	wances based on % of Paving Construction Co	st Subtotal		Allowa	nce	Subtotal:	\$	3,689,000
			Paving an	d Allowa	nce	Subtotal:	\$	10,781,000
		Constr	uction Conti	ngency:		15%	\$	1,617,000
			Mob	ilization		8%	\$	862,000
			Pro	ep ROW		4%	\$	431,000
			Constru	ction C	ost	TOTAL:	\$	13,700,000

Impact Fee Project Cost Sun Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 13,700,000
Engineering/Survey/Testing:		16%	\$ 2,192,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	New Roadway Alignment	\$10/s.f.	\$ 5,760,000
	Impact Fee Proje	ect Cost TOTAL:	\$ 21,700,000

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

Kimley-Horn and Associates, Inc.

## 2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. B-23

Name: Seton Pkwy This project consists of the

Limits: 2400' N of Avery Nelson Blvd to Avery Nelson Blvd construction of a new 3 lane undivided

Impact Fee Class: 3 Lane - Existing collector.

**Ultimate Class:** 3 Lane - Existing

Length (If): 2,397 Service Area(s): B

# Roadway Construction Cost Projection Construction Cost TOTAL: \$ 1,857,129

Impact Fee Project Cost Sum	nmary				
Item Description	Notes:	Allowance		Item Cost	
Construction:		-	\$	1,857,129	
Engineering/Survey/Testing:		-	\$	237,238	
ROW/Easement Acquisition:	Existing Alignment	-	\$	-	
	Overall Project Cost Total:				
	City	Contribution:	\$	1,795,839	
	Impact Fee Proje	ct Cost (86%):	\$	1,795,839	

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

## City of Round Rock Kimley-Horn and Associates, Inc.

## 2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. B-24

Name: Medical Center Pkwy This project consists of the construction of a new 4

lane divided arterial.

Limits: College Park to Seton Pkwy

Impact Fee Class: 4 Lane - Proposed
Ultimate Class: 4 Lane - Proposed

Length (If): 1,412 Service Area(s): B

Roadway Construction Cost Projection		
	Construction Cost TOTAL: \$	1,094,274

Impact Fee Project Cost Sum	nmary		
Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 1,094,274
Engineering/Survey/Testing:		-	\$ 139,787
ROW/Easement Acquisition:	Existing Alignment	-	\$ -
	Overall Pro	oject Cost Total:	\$ 1,234,061
	Ci	ity Contribution:	\$ 1,058,160
	Impact Fee Pro	ject Cost (86%):	\$ 1,058,160

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

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

**Project Information:** Description: B-25 Project No. Name: Avery Nelson Pkwy (1) This project consists of the

A.W. Grimes Blvd to 3580' E of A.W. Grimes Blvd Limits:

reconstruction of the existing pavement Impact Fee Class: 4 Lane - Enhanced to a 4 lane divided arterial.

**Ultimate Class:** 4 Lane - Enhanced

Length (If): 3,580 Service Area(s): В

Roa	adway Construction Cost Projection					
No.	Item Description	Quantity	Unit	Ur	nit Price	Item Cost
103	Unclassified Street Excavation	26,032	су	\$	24.33	\$ 633,000
203	12" Asphalt (Type C)	14,176	ton	\$	139.92	\$ 1,984,000
303	16" Base	9,546	су	\$	66.92	\$ 639,000
403	10" Lime Stabilization (with Lime @ 45#/sy)	23,071	sy	\$	7.30	\$ 168,000
503	Surface Treatment (0.2 gal/sy,Prime Coat AE-P)	4,296	gal	\$	7.30	\$ 31,000
603	10' Concrete Sidewalk	71,598	sf	\$	10.95	\$ 784,000
703	Machine Laid Curb & Gutter	14,320	lf	\$	36.50	\$ 523,000
803	Turn Lanes and Median Openings	2,170	sy	\$	243.06	\$ 527,000
		Paving Const	ruction (	:ost	Subtotal:	\$ 5.289.000

		_		. ,
Maj	or Construction Component Allowa	nces**:		
	Item Description	Notes	Allowance	Item Cost
	Traffic Control	Construction Phase Traffic Control	5%	\$ 264,000
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Shared Paths	2%	\$ 106,000
	Roadway Drainage	Standard Internal System	30%	\$ 1,587,000
	Illumination		10%	\$ 529,000
	Special Drainage Structures	None Anticipated		\$ -
	Water	Minor Adjustments	2%	\$ 106,000
	Sewer	Minor Adjustments	2%	\$ 106,000
	Turf and Erosion Control		4%	\$ 212,000
	Landscaping and Irrigation		2%	\$ 106,000
	Miscellaneous:		0%	\$ -
**Allo	wances based on % of Paving Construction Co	ost Subtotal Allowa	nce Subtotal:	\$ 3,016,000
		Paving and Allowa	nce Subtotal:	\$ 8,305,000
		Construction Contingency:	15%	\$ 1,246,000
		Mobilization	8%	\$ 664,000
		Prep ROW	4%	\$ 332,000
		Construction C	ost TOTAL:	\$ 10,600,000

- 16%	<b>\$</b> \$	<b>10,600,000</b> 1,696,000
16%	\$	1,696,000
		.,000,000
\$20/s.f.	\$	1,718,000
	¥ 20.5	\$20/s.f. \$ Fee Project Cost TOTAL: \$

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

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. B-26

Name: Avery Nelson Pkwy (2) This project consists of the

Limits: 3580' E of A.W. Grimes Blvd to Kenney Fort Blvd (F reconstruction of the existing pavement

Impact Fee Class: 4 Lane - Enhanced to a 4 lane divided arterial.

Ultimate Class: 4 Lane - Enhanced

Length (If): 3,011 Service Area(s): B

Day	shuar Canataurtian Cast Bus	de ette n						
	Idway Construction Cost Pro	ection	Quantity	Unit	He	it Price		Item Cost
	•				_		Φ.	
103	Unclassified Street Excavation		21,894	су	\$	24.33	\$	533,000
203	12" Asphalt (Type C)		11,923	ton	\$	139.92	\$	1,668,000
303	16" Base		8,029	су	\$	66.92	\$	537,000
403	10" Lime Stabilization (with Lime @	• /	19,403	sy	\$	7.30	\$	142,000
503	Surface Treatment (0.2 gal/sy,Prime	e Coat AE-P)	3,613	gal	\$	7.30	\$	26,000
603	10' Concrete Sidewalk		60,217	sf	\$	10.95	\$	659,000
703	Machine Laid Curb & Gutter		12,043	lf	\$	36.50	\$	440,000
803	Turn Lanes and Median Openings		1,825	sy	\$	243.06	\$	444,000
		P	aving Const	ruction (	Cost	Subtotal:	\$	4,449,000
Majo	or Construction Component Allowa							
	Item Description	Notes			All	owance		Item Cost
	Traffic Control	Construction Phase	Traffic Control			5%	\$	222,000
	Pavement Markings/Signs/Posts	Includes Striping/Sig	ns for Shared Pa	ths		2%	\$	89,000
	Roadway Drainage	Standard Internal Sys	stem			30%	\$	1,335,000
	Illumination					10%	\$	445,000
	Special Drainage Structures	None Anticipated					\$	-
	Water	Minor Adjustments				2%	\$	89,000
	Sewer	Minor Adjustments				2%	\$	89,000
	Turf and Erosion Control	,				4%	-	178,000
	Landscaping and Irrigation					2%	\$	89,000
	Miscellaneous:					0%		-
**Allo	wances based on % of Paving Construction C	ost Subtotal		Allowa	nce	Subtotal:	\$	2,536,000
	-							,,
			Paving an	d Allowa	nce	Subtotal:	\$	6,985,000
		Constr	uction Conti			15%		1,048,000
				ilization		8%		559,000
			Pro	ep ROW		4%		279,000
			Constru	•	ost	TOTAL:	\$	8,900,000

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 8,900,000
Engineering/Survey/Testing:		16%	\$ 1,424,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	Existing Alignment	\$20/s.f.	\$ 1,445,000
	Impact Fee Project C	ost TOTAL:	\$ 11,800,000

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

## City of Round Rock Kimley-Horn and Associates, Inc.

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. B-27, D-7

Name: Kenney Fort Blvd (1) This project consists of the construction of a new 6

lane divided arterial.

Limits: CR 117 to 145' N of Haselwood Ln

Impact Fee Class: 6 Lane - Proposed
Ultimate Class: 6 Lane - Proposed

Length (If): 3,074
Service Area(s): B,D

Roadway Construction Cost Projection		
	Construction Cost TOTAL:	\$ 11,034,874

Impact Fee Project Cost Sum	mary		
Item Description	Notes:	Allowance	Item Cost
Construction:	From City estimate	-	\$ 11,034,874
Engineering/Survey/Testing:	From City estimate	-	\$ 846,007
ROW/Easement Acquisition:	New Roadway Alignment	-	\$ 3,138,070
	Overall Project	Cost Total:	\$ 15,018,951
	City Co	ontribution:	\$ 15,018,951
	Impact Fee Pr	oject Cost :	\$ 15,018,951

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

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

 Project Information:
 Description:
 Project No.
 B-31

 Name:
 Old Settlers Blvd (1)
 This project consists of widening existing pavement to a 6 lane divided arterial.

 Limits:
 N Mays St to Sunrise Rd
 to a 6 lane divided arterial.

Impact Fee Class: 6 Lane - Enhanced (1/3)
Ultimate Class: 6 Lane - Enhanced (1/3)

Length (If): 7,044
Service Area(s): B

No.	Item Description	Quantity	Unit	Uı	nit Price	Item Cost
106	Unclassified Street Excavation	26,438	су	\$	24.33	\$ 643,000
206	12" Asphalt (Type C)	6,027	ton	\$	139.92	\$ 843,000
306	16" Base	9,740	су	\$	66.92	\$ 652,000
406	10" Lime Stabilization (with Lime @ 45#/sy)	25,046	sy	\$	7.30	\$ 183,000
506	Surface Treatment (0.2 gal/sy,Prime Coat AE-P)	4,383	gal	\$	7.30	\$ 32,000
606	10' Concrete Sidewalk	140,884	sf	\$	10.95	\$ 1,543,000
706	Machine Laid Curb & Gutter	14,088	lf	\$	36.50	\$ 514,000
806	Turn Lanes and Median Openings	0	sy	\$	243.06	\$ -
		Paving Constr	ruction (	Cost	Subtotal:	\$ 4,410,000
		_				

Majo	or Construction Component Allowa	nces**:		
	Item Description	Notes	Allowance	Item Cost
	Traffic Control	Construction Phase Traffic Control	5%	\$ 221,000
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Shared Paths	2%	\$ 88,000
$\checkmark$	Roadway Drainage	Standard Internal System	30%	\$ 1,323,000
	Illumination		10%	\$ 441,000
$\checkmark$	Special Drainage Structures	Minor Stream Crossing		\$ 100,000
	Water	Minor Adjustments	2%	\$ 88,000
	Sewer	Minor Adjustments	2%	\$ 88,000
	Turf and Erosion Control		4%	\$ 176,000
	Landscaping and Irrigation		2%	\$ 88,000
	Miscellaneous:		0%	\$ -
**Allo	wances based on % of Paving Construction Co	st Subtotal Allowa	nce Subtotal:	\$ 2,613,000
		Paving and Allowa	nce Subtotal:	\$ 7,023,000
		Construction Contingency:	15%	\$ 1,053,000
		Mobilization	8%	\$ 562,000
		Prep ROW	4%	\$ 281,000
		Construction C	ost TOTAL:	\$ 9,000,000

- 16%	<b>\$</b> \$	<b>9,000,000</b> 1,440,000
16%	\$	1 440 000
	Ψ	1,440,000
st \$20/s.f.	\$	4,227,000
	* ***	nt \$20/s.f. \$ mpact Fee Project Cost TOTAL: \$

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

## 2023 Roadway Impact Fee Study

Conceptual Level Project Cost Projection

**Project Information:** Description: Project No. **B-32** Name: Old Settlers Blvd (2) This project consists of the reconstruction of the Limits: Sunrise Rd to Kenney Fort Blvd (Future) existing pavement to a 6 lane divided arterial.

Impact Fee Class: 6 Lane - Enhanced **Ultimate Class:** 6 Lane - Enhanced

Length (If): 11,946 Service Area(s): В

No.	Item Description	Quantity	Unit	Uı	nit Price	Item Cost
105	Unclassified Street Excavation	117,694	су	\$	24.33	\$ 2,864,000
205	12" Asphalt (Type C)	66,581	ton	\$	139.92	\$ 9,316,000
305	16" Base	44,836	су	\$	66.92	\$ 3,000,000
405	10" Lime Stabilization (with Lime @ 45#/sy)	106,191	sy	\$	7.30	\$ 775,000
505	Surface Treatment (0.2 gal/sy,Prime Coat AE-P)	20,176	gal	\$	7.30	\$ 147,000
605	10' Concrete Sidewalk	238,929	sf	\$	10.95	\$ 2,616,000
705	Machine Laid Curb & Gutter	47,786	lf	\$	36.50	\$ 1,744,000
805	Turn Lanes and Median Openings	7,240	sy	\$	243.06	\$ 1,760,000
		Paving Const	ruction (	Cost	Subtotal:	\$ 22,222,000

Majo	or Construction Component Allowar	nces**:		
	Item Description	Notes	Allowance	Item Cost
	Traffic Control	Construction Phase Traffic Control	5%	\$ 1,111,000
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Shared Paths	2%	\$ 444,000
	Roadway Drainage	Standard Internal System	30%	\$ 6,667,000
	Illumination		10%	\$ 2,222,000
	Special Drainage Structures	Bridge Crossing		\$ 1,200,000
	Water	Minor Adjustments	2%	\$ 444,000
	Sewer	Minor Adjustments	2%	\$ 444,000
	Turf and Erosion Control		4%	\$ 889,000
	Landscaping and Irrigation		2%	\$ 444,000
	Miscellaneous:		0%	\$ -
**Allo	wances based on % of Paving Construction Co	st Subtotal Allowa	nce Subtotal:	\$ 13,865,000
		Paving and Allowa	nce Subtotal:	\$ 36,087,000
		Construction Contingency:	15%	\$ 5,413,000
		Mobilization	8%	\$ 2,887,000
		Prep ROW	4%	\$ 1,443,000
		Construction C	ost TOTAL:	\$ 45,900,000

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 45,900,000
Engineering/Survey/Testing:		16%	\$ 7,344,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	Existing Alignment	\$20/s.f.	\$ 7,168,000

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

Project Information: Description: Project No. B-34

Name: N Mays St This project consists of the reconstruction of

Limits: 540' N of Steam Way to Northwest Dr existing pavement to include a median.

Impact Fee Class: 4 Lane - Enhanced (AM)
4 Lane - Enhanced (AM)

**Roadway Construction Cost Projection** 

Length (If): 7,524
Service Area(s): B

No.	Item Description		Quantity	Unit	Uı	nit Price		Item Cost
104	Unclassified Street Excavation		14,118	су	\$	24.33	\$	344,000
204	Asphalt (Type C)		0	ton	\$	139.92	\$	-
304	Base		0	су	\$	66.92	\$	-
404	Lime Stabilization (with Lime @ 45#/s	sy)	0	sy	\$	7.30	69	-
504	Surface Treatment (0.2 gal/sy,Prime	Coat AE-P)	0	gal	\$	7.30	\$	-
604			0	sf	\$	10.95	\$	-
704	Machine Laid Curb & Gutter		15,047	lf	\$	36.50	\$	549,000
804	Turn Lanes and Median Openings		4,560	sy	\$	243.06	\$	1,108,000
		P	Paving Const	ruction (	Cost	Subtotal:	\$	2,001,000
Majo	or Construction Component Allowar							
	Item Description	Notes Unit Price					Item Cost	
<b>V</b>	Traffic Control	Assume 6 months to Construct			\$2	,500 / MO	\$	15,000
	Pavement Markings/Signs/Posts	4 signs / 1000', 1/2 Le	ength mrkgs (\$1.	50/LF)		\$750	\$	28,000
	Roadway Drainage	None Anticipated				0%	\$	-
	Street Lighting	1 Assem / 100', \$15/L	_F cond/cndr			\$2,800	\$	324,000
	Special Drainage Structures	None Anticipated					\$	-
	Utilities	Minor Adjustments			\$1,	000 / STA	\$	15,000
	ADA Ramps & Requirements	4 ramps / 600'				\$2,200	\$	110,000
	Landscaping and Irrigation	Grass, Trees, Restor	ation, E/S Contro			\$10 / SY	\$	305,000
**Allo	wances based on % of Paving Construction Cos	t Subtotal		Allowa	nce	Subtotal:	\$	797,000
			Paving an				\$	2,798,000
		Consti	ruction Conti	-		15%		420,000
				ilization		5%		140,000
						000 / STA	\$	23,000
			Constru	ction C	ost	TOTAL:	\$	3,400,000

<b>Impact Fee Project Cost Sum</b>	nmary		
Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 3,400,000
Engineering/Survey/Testing:		16%	\$ 544,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	No ROW Acquisition Costs included		\$ -
	Impact Fee Proje	ect Cost TOTAL:	\$ 3,900,000

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

Project Information: Description: Project No. B-35

Name: Sunrise Rd (7) This project consists of the reconstruction of

Name: Sunrise Rd (7) This project consists of the reconstruction of Limits: Old Settlers Blvd to Country Aire Dr existing pavement to include a median.

Impact Fee Class: 4 Lane - Enhanced (AM)
4 Lane - Enhanced (AM)
4 Lane - Enhanced (AM)

Length (If): 1,485 Service Area(s): B

No.	Item Description	-	Quantity	Unit	Ur	nit Price	Item Cost
104	Unclassified Street Excavation		2,786	су	\$	24.33	\$ 68,000
204	Asphalt (Type C)		0	ton	\$	139.92	\$ -
304	Base		0	су	\$	66.92	\$ -
404	Lime Stabilization (with Lime @ 45#	/sy)	0	sy	\$	7.30	\$ -
504			0	gal	\$	7.30	\$ -
604			0	sf	\$	10.95	\$ -
704	Machine Laid Curb & Gutter		2,970	lf	\$	36.50	\$ 108,000
804	Turn Lanes and Median Openings		900	sy	\$	243.06	\$ 219,000
	Paving Construction Cost Subtotal:						\$ 395,000
Majo	or Construction Component Allowa	ances**:					
	Item Description	Notes			Ur	nit Price	Item Cost
V	Traffic Control	Assume 6 months to	Construct		\$2	,500 / MO	\$ 15,000
	Pavement Markings/Signs/Posts	4 signs / 1000', 1/2 L	ength mrkgs (\$1.5	50/LF)		\$750	\$ 6,000
	Roadway Drainage	None Anticipated				0%	\$ -
	Street Lighting	1 Assem / 100', \$15/	LF cond/cndr			\$2,800	\$ 64,000
	Special Drainage Structures	None Anticipated					\$ -
	Utilities	Minor Adjustments			\$1,	000 / STA	\$ 3,000
	ADA Ramps & Requirements	4 ramps / 600'				\$2,200	\$ 22,000
	Landscaping and Irrigation	Grass, Trees, Restor	ration, E/S Contro	ls		\$10 / SY	\$ 60,000
**Allo	wances based on % of Paving Construction Co	ost Subtotal		Allowa	nce	Subtotal:	\$ 170,000
			Paving an	d Allowa	nce	Subtotal:	\$ 565,000
		Const	ruction Conti	ngency:		15%	\$ 85,000
				ilization		5%	\$ 28,000
	Prep ROW \$3,000 / STA \$						
			Pro	ep ROW	\$3,	000 / STA	\$ 4,000

Item Description	Notes:	Allowance	tem Cost
Construction:		-	\$ 700,000
Engineering/Survey/Testing:		16%	\$ 112,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	No ROW Acquisition Costs included		\$ -

Construction Cost TOTAL:

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

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

700,000

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

**Project Information:** Description: **B-36** Project No. Name: FM 1460 (A.W. Grimes Blvd) (1) This project consists of the

Limits: Old Settlers Blvd to 375' S of Chandler Creek Blvd reconstruction of the existing pavement to a 6 lane divided arterial.

Impact Fee Class: 6 Lane - Enhanced **Ultimate Class:** 6 Lane - Enhanced

Length (If): 1,846 Service Area(s): В

dway Construction Cost Projection						
Item Description	Quantity	Unit	Ur	nit Price		Item Cost
Unclassified Street Excavation	18,190	су	\$	24.33	\$	443,000
12" Asphalt (Type C)	10,290	ton	\$	139.92	\$	1,440,000
16" Base	6,930	су	\$	66.92	\$	464,000
10" Lime Stabilization (with Lime @ 45#/sy)	16,412	sy	\$	7.30	\$	120,000
Surface Treatment (0.2 gal/sy,Prime Coat AE-P)	3,118	gal	\$	7.30	\$	23,000
10' Concrete Sidewalk	36,927	sf	\$	10.95	\$	404,000
Machine Laid Curb & Gutter	7,385	lf	\$	36.50	\$	270,000
Turn Lanes and Median Openings	1,119	sy	\$	243.06	\$	272,000
	Item Description Unclassified Street Excavation 12" Asphalt (Type C) 16" Base 10" Lime Stabilization (with Lime @ 45#/sy) Surface Treatment (0.2 gal/sy,Prime Coat AE-P) 10' Concrete Sidewalk Machine Laid Curb & Gutter	Item DescriptionQuantityUnclassified Street Excavation18,19012" Asphalt (Type C)10,29016" Base6,93010" Lime Stabilization (with Lime @ 45#/sy)16,412Surface Treatment (0.2 gal/sy,Prime Coat AE-P)3,11810' Concrete Sidewalk36,927Machine Laid Curb & Gutter7,385	Item DescriptionQuantityUnitUnclassified Street Excavation18,190cy12" Asphalt (Type C)10,290ton16" Base6,930cy10" Lime Stabilization (with Lime @ 45#/sy)16,412sySurface Treatment (0.2 gal/sy,Prime Coat AE-P)3,118gal10' Concrete Sidewalk36,927sfMachine Laid Curb & Gutter7,385If	Item Description         Quantity         Unit         Ur           Unclassified Street Excavation         18,190         cy         \$           12" Asphalt (Type C)         10,290         ton         \$           16" Base         6,930         cy         \$           10" Lime Stabilization (with Lime @ 45#/sy)         16,412         sy         \$           Surface Treatment (0.2 gal/sy,Prime Coat AE-P)         3,118         gal         \$           10' Concrete Sidewalk         36,927         sf         \$           Machine Laid Curb & Gutter         7,385         lf         \$	Item Description         Quantity         Unit         Unit Price           Unclassified Street Excavation         18,190         cy         \$ 24.33           12" Asphalt (Type C)         10,290         ton         \$ 139.92           16" Base         6,930         cy         \$ 66.92           10" Lime Stabilization (with Lime @ 45#/sy)         16,412         sy         \$ 7.30           Surface Treatment (0.2 gal/sy,Prime Coat AE-P)         3,118         gal         \$ 7.30           10' Concrete Sidewalk         36,927         sf         \$ 10.95           Machine Laid Curb & Gutter         7,385         If         \$ 36.50	Item Description         Quantity         Unit         Unit Price           Unclassified Street Excavation         18,190         cy         \$ 24.33         \$ 12" Asphalt (Type C)         10,290         ton         \$ 139.92         \$ 66.92         \$ 66.92         \$ 66.92         \$ 7.30<

Paving Construction Cost Subtotal: \$ 3,436,000

Maj	or Construction Component Allowa	nces**:		
	Item Description	Notes	Allowance	Item Cost
	Traffic Control	Construction Phase Traffic Control	5%	\$ 172,000
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Shared Paths	2%	\$ 69,000
	Roadway Drainage	Standard Internal System	30%	\$ 1,031,000
	Illumination		10%	\$ 344,000
	Special Drainage Structures	None Anticipated		\$ -
	Water	Minor Adjustments	2%	\$ 69,000
	Sewer	Minor Adjustments	2%	\$ 69,000
	Turf and Erosion Control		4%	\$ 137,000
	Landscaping and Irrigation		2%	\$ 69,000
	Miscellaneous:		0%	\$ -
**Allo	wances based on % of Paving Construction Co	st Subtotal Allowa	nce Subtotal:	\$ 1,960,000
		Paving and Allowa	nce Subtotal:	\$ 5,396,000
		Construction Contingency:	15%	\$ 809,000
		Mobilization	8%	\$ 432,000
		Prep ROW	4%	\$ 216,000
		Construction C	ost TOTAL:	\$ 6,900,000

Impact Fee Project Cost Summ	ary		
Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 6,900,000
Engineering/Survey/Testing:		16%	\$ 1,104,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	TxDOT Roadway	\$20/s.f.	\$ 1,108,000
Impact Fee	Project Cost TOTAL (20% City Co	ontribution)	\$ 1,820,000

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

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. B-37

Name: FM 1460 (A.W. Grimes Blvd) (2) This project consists of the

Limits: 375' S of Chandler Creek Blvd to 1250' N of Tiger Treconstruction of the existing pavement

Impact Fee Class: 6 Lane - Enhanced to a 6 lane divided arterial.

Ultimate Class: 6 Lane - Enhanced

Length (If): 1,055 Service Area(s): B

Roa	adway Construction Cost Pro	jection					
No.	Item Description		Quantity	Unit	Ur	nit Price	Item Cost
105	Unclassified Street Excavation		10,389	су	\$	24.33	\$ 253,000
205	12" Asphalt (Type C)		5,877	ton	\$	139.92	\$ 822,000
305	16" Base		3,958	су	\$	66.92	\$ 265,000
405	10" Lime Stabilization (with Lime @	45#/sy)	9,374	sy	\$	7.30	\$ 68,000
505	05 Surface Treatment (0.2 gal/sy,Prime Coat AE-P)		1,781	gal	\$	7.30	\$ 13,000
605	05 10' Concrete Sidewalk		21,091	sf	\$	10.95	\$ 231,000
705	Machine Laid Curb & Gutter		4,218	lf	\$	36.50	\$ 154,000
805	Turn Lanes and Median Openings		639	sy	\$	243.06	\$ 155,000
	Paving Construction Cost Subtotal					Subtotal:	\$ 1,961,000
Major Construction Component Allowances**:							
	Item Description	Notes			All	lowance	Item Cost
<b>√</b>	Traffic Control	Construction Phase Traffic Control				5%	\$ 98,000
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Shared Paths				2%	\$ 39,000
	Roadway Drainage	Standard Internal Sys	stem			30%	588,000
	Illumination					10%	\$ 196,000
	Special Drainage Structures	Bridge Crossing					\$ 1,900,000
	Water	Minor Adjustments				2%	\$ 39,000
	Sewer	Minor Adjustments				2%	\$ 39,000
	Turf and Erosion Control					4%	\$ 78,000
	Landscaping and Irrigation					2%	\$ 39,000
	Miscellaneous:					0%	\$ -
**Allo	wances based on % of Paving Construction Co	ost Subtotal		Allowa	nce	Subtotal:	\$ 3,016,000
			Paving an			Subtotal:	\$ 4,977,000
		Constr	ruction Conti	ngency:		15%	\$ 747,000
			Mob	ilization		8%	\$ 398,000
			Pre	ep ROW		4%	\$ 199,000
			Constru	ction C	ost	TOTAL:	\$ 6,400,000

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 6,400,000
Engineering/Survey/Testing:		16%	\$ 1,024,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	TxDOT Roadway	\$20/s.f.	\$ 633,000
Impact Fe	ee Project Cost TOTAL (20% City (	Contribution)	\$ 1,620,000

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

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

**Project Information: B-38** Description: Project No. Name: FM 1460 (A.W. Grimes Blvd) (3) This project consists of the reconstruction of the Limits: 1250' N of Tiger Trl to US 79 existing pavement to a 6 lane divided arterial.

Impact Fee Class: 6 Lane - Enhanced **Ultimate Class:** 6 Lane - Enhanced

Turf and Erosion Control

Miscellaneous:

Landscaping and Irrigation

Length (If): 6,599 Service Area(s): В

D I-	O							
	way Construction Cost Progem Description	ection	Quantity	Unit	Uı	nit Price		Item Cost
105 Ur	nclassified Street Excavation		65,017	су	\$	24.33	\$	1,582,000
205 12	2" Asphalt (Type C)		36,781	ton	\$	139.92	\$	5,146,000
305 16	6" Base		24,768	су	\$	66.92	\$	1,657,000
405 10	0" Lime Stabilization (with Lime @ 4	15#/sy)	58,662	sy	\$	7.30	\$	428,000
505 Su	urface Treatment (0.2 gal/sy,Prime	Coat AE-P)	11,146	gal	\$	7.30	\$	81,000
605 10	)' Concrete Sidewalk	,	131,990	sf	\$	10.95	\$	1,445,000
705 Ma	achine Laid Curb & Gutter		26,398	lf	\$	36.50	\$	964,000
805 Tu	urn Lanes and Median Openings		4,000	sy	\$	243.06	\$	972,000
	Paving Construction (					Subtotal:	\$	12,275,000
Major C	Construction Component Allowa	nces**						
	em Description	Notes			All	lowance	П	Item Cost
√ Tr	raffic Control	Construction Phase	Traffic Control			5%	\$	614,000
√ Pa	avement Markings/Signs/Posts	Includes Striping/Sig	gns for Shared Pat	ths		2%	\$	246,000
√ Ro	oadway Drainage	Standard Internal Sy	ystem			30%	\$	3,683,000
	umination					10%	\$	1,228,000
√ Sp	pecial Drainage Structures	Bridge Crossing					\$	1,600,000
					I	00/		
√ W	ater at the state of the state	Minor Adjustments				2%	\$	246,000

Wiledella 100ac.		0 70	Ψ	
*Allowances based on % of Paving Construction Cost	Subtotal Allowa	nce Subtotal:	\$	8,600,000
	Paving and Allowa	nce Subtotal:	\$	20,875,000
	Construction Contingency:	15%	\$	3,131,000
	Mobilization	8%	\$	1,670,000
	Prep ROW	4%	\$	835,000
	Construction C	ost TOTAL:	\$	26,600,000

Impact Fee Project Cost Summ	ary						
Item Description	Notes:	Allowance		Item Cost			
Construction:		-	\$	26,600,000			
Engineering/Survey/Testing:		16%	\$	4,256,000			
Previous City contribution							
Other							
ROW/Easement Acquisition:	TxDOT Roadway	\$20/s.f.	\$	3,960,000			
Impact Fee	Impact Fee Project Cost TOTAL (20% City Contribution)						

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

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

\$

4% \$

2%

491,000

246,000

## 2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. B-39, D-10

Name: Kenney Fort Blvd (4)
Limits: Old Settler's Blvd to 2540' S of Old Settler's Blvd

This project consists of widening existing pavement with half of a 6 lane

Impact Fee Class: 6 Lane - Proposed (1/2)
Ultimate Class: 6 Lane - Proposed (1/2)

divided arterial.

Length (If): 1,566 Service Area(s): B,D

Roa	dway Construction Cost Proj	ection					
No.	Item Description		Quantity	Unit	Uı	nit Price	Item Cost
107	Unclassified Street Excavation		7,713	су	\$	24.33	\$ 188,000
207	12" Asphalt (Type C)		4,363	ton	\$	139.92	\$ 610,000
307	16" Base		2,938	су	\$	66.92	\$ 197,000
407	407 10" Lime Stabilization (with Lime @ 45#/sy)		6,959	sy	\$	7.30	\$ 51,000
507	Surface Treatment (0.2 gal/sy,Prime	Coat AE-P)	2,644	gal	\$	7.30	\$ 19,000
607	10' Concrete Sidewalk		31,315	sf	\$	10.95	\$ 343,000
707	Machine Laid Curb & Gutter		3,131	lf	\$	36.50	\$ 114,000
807	Turn Lanes and Median Openings		949	sy	\$	243.06	\$ 231,000
Paving Construction Co		Cost	Subtotal:	\$ 1,753,000			
Majo	or Construction Component Allowa	nces**:					
	Item Description	Notes			All	lowance	Item Cost
<b>√</b>	Traffic Control	Construction Phase	Traffic Control			5%	88,000
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Shared Paths				2%	35,000
	Roadway Drainage	Standard Internal Sys	stem			30%	 526,000
	Illumination					10%	\$ 175,000
	Special Drainage Structures	None Anticipated					\$ -
	Water	Minor Adjustments				2%	\$ 35,000
	Sewer	Minor Adjustments				2%	\$ 35,000
	Turf and Erosion Control					4%	\$ 70,000
	Landscaping and Irrigation					2%	\$ 35,000
	Miscellaneous:					0%	\$ -
**Allo	wances based on % of Paving Construction Cos	st Subtotal	<del></del>	Allowa	nce	Subtotal:	\$ 999,000
			Paving an			Subtotal:	\$ 2,752,000
		Consti	ruction Conti	ngency:		15%	\$ 413,000
			Mob	ilization		8%	\$ 220,000
			Mob	ilization		8%	\$ 220,00

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 3,500,000
Engineering/Survey/Testing:		16%	\$ 560,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	Existing Alignment	\$20/s.f.	\$ 939,000

Prep ROW

**Construction Cost TOTAL:** 

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\$

110,000

3,500,000

## 2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

**Project Information:** B-40, D-11 Description: Project No.

Name: Kenney Fort Blvd (5) This project consists of the

Old Settler's Blvd to 2540' S of Old Settler's Blvd Limits: reconstruction of existing pavement to a

Impact Fee Class: 6 Lane - Proposed **Ultimate Class:** 6 Lane - Proposed

Length (If): 970

Service Area(s): B,D

Roa	dway Construction Cost Projection					
No.	Item Description	Quantity	Unit	Ur	nit Price	Item Cost
108	Unclassified Street Excavation	9,560	су	\$	24.33	\$ 233,000
208	5" Asphalt (Type C)	5,408	ton	\$	139.92	\$ 757,000
308	10" Base	3,642	су	\$	66.92	\$ 244,000
408	10" Lime Stabilization (with Lime @ 45#/sy)	8,625	sy	\$	7.30	\$ 63,000
508	Surface Treatment (0.2 gal/sy,Prime Coat AE-P)	1,639	gal	\$	7.30	\$ 12,000
608	10' Concrete Sidewalk	19,407	sf	\$	10.95	\$ 213,000
708	Machine Laid Curb & Gutter	3,881	lf	\$	36.50	\$ 142,000
808	Turn Lanes and Median Openings	588	sy	\$	243.06	\$ 143,000

Paving Construction Cost Subtotal: \$ 1,807,000

**Construction Cost TOTAL:** 

6 lane divided arterial.

3,700,000

Majo	or Construction Component Allowa	nces**:		
	Item Description	Notes	Allowance	Item Cost
	Traffic Control	Construction Phase Traffic Control	5%	\$ 90,000
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Shared Paths	2%	\$ 36,000
	Roadway Drainage	Standard Internal System	30%	\$ 542,000
	Illumination		10%	\$ 181,000
	Special Drainage Structures	None Anticipated		\$ -
	Water	Minor Adjustments	2%	\$ 36,000
	Sewer	Minor Adjustments	2%	\$ 36,000
	Turf and Erosion Control		4%	\$ 72,000
	Landscaping and Irrigation		2%	\$ 36,000
	Miscellaneous:		0%	\$ -
**Allo	wances based on % of Paving Construction Co	st Subtotal Allowa	nce Subtotal:	\$ 1,029,000
		Paving and Allowa	nce Subtotal:	\$ 2,836,000
		Construction Contingency:	15%	\$ 425,000
		Mobilization	8%	\$ 227,000
		Prep ROW	4%	\$ 113,000

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 3,700,000
Engineering/Survey/Testing:		16%	\$ 592,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	Existing Alignment	\$20/s.f.	\$ 582,000
	Impact Fee Project C	ost TOTAL:	\$ 4,900,000

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

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. B-41, D-12

Name: Kenney Fort Blvd (6) This project consists of the construction

Limits: 2540' S of Old Settlers Blvd to Chandler Creek Blvd of a new 6 lane divided arterial.

Impact Fee Class: 6 Lane - Proposed
Ultimate Class: 6 Lane - Proposed

Roadway Construction Cost Projection

Length (If): 1,877 Service Area(s): B,D

Item Description		Quantity	Unit	Ur	nit Price		Item Cost
Unclassified Street Excavation		18,493	су	\$	24.33	\$	450,000
5" Asphalt (Type C)		10,462	ton	\$	139.92	\$	1,464,000
10" Base		7,045	су	\$	66.92	\$	471,000
10" Lime Stabilization (with Lime @	45#/sy)	16,686	sy	\$	7.30	\$	122,000
Surface Treatment (0.2 gal/sy,Prime	Coat AE-P)	3,170	gal	\$	7.30	<b>\$</b>	23,000
10' Concrete Sidewalk		37,543	sf	\$	10.95	\$	411,000
Machine Laid Curb & Gutter		7,509	lf	\$	36.50	\$	274,000
Turn Lanes and Median Openings		1,138	sy	\$	243.06	\$	277,000
	P	aving Const	ruction (	Cost	Subtotal:	\$	3,492,000
or Construction Component Allowa	ınces**:						
Item Description	Notes			All	lowance		Item Cost
Traffic Control	None Anticipated						-
Pavement Markings/Signs/Posts	Includes Striping/Sig	ns for Shared Pa	ths		2%	\$	70,000
Roadway Drainage	Standard Internal Sys	stem					1,048,000
Illumination					10%	\$	349,000
Special Drainage Structures	None Anticipated					\$	-
Water	Minor Adjustments				2%	\$	70,000
Sewer	Minor Adjustments				2%	\$	70,000
Turf and Erosion Control					4%	\$	140,000
Landscaping and Irrigation					2%	\$	70,000
Miscellaneous:					0%	\$	-
wances based on % of Paving Construction Co	ost Subtotal		Allowa	nce	Subtotal:	\$	1,817,000
							5,309,000
	Constr	uction Conti	ngency:		15%	\$	796,000
					8%	\$	425,000
		D	ep ROW		4%	\$	212,000
	Unclassified Street Excavation 5" Asphalt (Type C) 10" Base 10" Lime Stabilization (with Lime @ Surface Treatment (0.2 gal/sy,Prime 10' Concrete Sidewalk Machine Laid Curb & Gutter Turn Lanes and Median Openings  or Construction Component Allowa Item Description  Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Special Drainage Structures Water Sewer Turf and Erosion Control Landscaping and Irrigation Miscellaneous:	Unclassified Street Excavation 5" Asphalt (Type C) 10" Base 10" Lime Stabilization (with Lime @ 45#/sy) Surface Treatment (0.2 gal/sy,Prime Coat AE-P) 10' Concrete Sidewalk Machine Laid Curb & Gutter Turn Lanes and Median Openings  Por Construction Component Allowances**:  Item Description Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Special Drainage Structures Water Sewer Turf and Erosion Control Landscaping and Irrigation Miscellaneous: wances based on % of Paving Construction Cost Subtotal	Unclassified Street Excavation 18,493 5" Asphalt (Type C) 10,462 10" Base 7,045 10" Lime Stabilization (with Lime @ 45#/sy) 16,686 Surface Treatment (0.2 gal/sy,Prime Coat AE-P) 3,170 10' Concrete Sidewalk 37,543 Machine Laid Curb & Gutter 7,509 Turn Lanes and Median Openings 1,138  Paving Construction Component Allowances**:  Item Description Notes  Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Special Drainage Structures Water Sewer Mone Anticipated Minor Adjustments Turf and Erosion Control Landscaping and Irrigation Miscellaneous:  wances based on % of Paving Construction Cost Subtotal  Paving an Construction Conti	Unclassified Street Excavation 18,493 cy 5" Asphalt (Type C) 10,462 ton 10" Base 7,045 cy 10" Lime Stabilization (with Lime @ 45#/sy) 16,686 sy Surface Treatment (0.2 gal/sy,Prime Coat AE-P) 3,170 gal 10' Concrete Sidewalk 37,543 sf Machine Laid Curb & Gutter 7,509 lf Turn Lanes and Median Openings 1,138 sy  Paving Construction Corporate Allowances**:  Item Description Notes  Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Special Drainage Structures None Anticipated Minor Adjustments Sewer Minor Adjustments Turf and Erosion Control Landscaping and Irrigation Miscellaneous:  Water Sewer Minor Adjustments  Faving and Allowances Minor Adjustments  Paving and Allowances Mobilization  Paving and Allowances Mobilization  Paving and Allowances Mobilization	Unclassified Street Excavation 18,493 cy \$ 5" Asphalt (Type C) 10,462 ton \$ 10" Base 7,045 cy \$ 10" Lime Stabilization (with Lime @ 45#/sy) 16,686 sy \$ Surface Treatment (0.2 gal/sy,Prime Coat AE-P) 3,170 gal \$ 10' Concrete Sidewalk 37,543 sf \$ Machine Laid Curb & Gutter 7,509 lf \$ Turn Lanes and Median Openings 1,138 sy \$  Paving Construction Cost  Or Construction Component Allowances**:  Item Description Notes All  Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Special Drainage Structures None Anticipated Includes Striping/Signs for Shared Paths Standard Internal System  Water Sewer Minor Adjustments  Turf and Erosion Control Landscaping and Irrigation Miscellaneous:  Wances based on % of Paving Construction Cost Subtotal Allowance Construction Contingency: Mobilization	Unclassified Street Excavation	Unclassified Street Excavation

Impact Fee Project Cost Sun Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 6,800,000
Engineering/Survey/Testing:		16%	\$ 1,088,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	New Roadway Alignment	\$10/s.f.	\$ 2,816,000
_	Impact Fee Proje	ect Cost TOTAL:	\$ 10,700,000

Construction Cost TOTAL: \$

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

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

6,800,000

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. B-42, D-14

Name: Kenney Fort Blvd (7) This project consists of the reconstruction of Limits: Chandler Creek Blvd to Joe DiMaggio existing pavement to a 6 lane divided arterial.

Impact Fee Class: 6 Lane - Enhanced
Ultimate Class: 6 Lane - Enhanced

Length (If): 1,565 Service Area(s): B,D

Roa	adway Construction Cost Pro	jection					
No.	Item Description		Quantity	Unit	Ur	nit Price	Item Cost
105	Unclassified Street Excavation		15,413	су	\$	24.33	\$ 375,000
205	12" Asphalt (Type C)		8,720	ton	\$	139.92	\$ 1,220,000
305	16" Base		5,872	су	\$	66.92	\$ 393,000
405	10" Lime Stabilization (with Lime @	45#/sy)	13,907	sy	\$	7.30	\$ 102,000
505	Surface Treatment (0.2 gal/sy,Prime	Coat AE-P)	2,642	gal	\$	7.30	\$ 19,000
605	10' Concrete Sidewalk		31,290	sf	\$	10.95	\$ 343,000
705	Machine Laid Curb & Gutter		6,258	lf	\$	36.50	\$ 228,000
805	Turn Lanes and Median Openings		948	sy	\$	243.06	\$ 230,000
	Paving Construction Cost Subtotal				Subtotal:	\$ 2,910,000	
Majo	or Construction Component Allowa	nces**:					
	Item Description	Notes			All	lowance	Item Cost
	Traffic Control	Construction Phase	Traffic Control			5%	\$ 146,000
	Pavement Markings/Signs/Posts	Includes Striping/Sign	ns for Shared Pa	ths		2%	\$ 58,000
	Roadway Drainage	Standard Internal Sys	stem			30%	873,000
	Illumination					10%	\$ 291,000
	Special Drainage Structures	Bridge Crossing					\$ 1,300,000
	Water	Minor Adjustments				2%	\$ 58,000
	Sewer	Minor Adjustments				2%	\$ 58,000
	Turf and Erosion Control					4%	\$ 116,000
	Landscaping and Irrigation					2%	\$ 58,000
	Miscellaneous:					0%	\$ -
**Allo	wances based on % of Paving Construction Co	st Subtotal		Allowa	nce	Subtotal:	\$ 2,958,000
			Paving an	d Allowa	nce	Subtotal:	\$ 5,868,000
		Constr	uction Conti	ngency:		15%	\$ 880,000
			Mob	ilization		8%	\$ 469,000
			Pre	ep ROW		4%	\$ 235,000
			Constru	ction C	ost	TOTAL:	\$ 7,500,000

Item Description	Notes:	Allowance		Item Cost
Construction:		-	\$	7,500,000
Engineering/Survey/Testing:		16%	\$	1,200,000
Previous City contribution				
Other				
ROW/Easement Acquisition:	Existing Alignment	\$20/s.f.	\$	939,000
	Impact Fee Project (	Cost TOTAL :	4	9,600,000

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

## City of Round Rock Kimley-Horn and Associates, Inc.

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. B-46, C-6

Name: US 79 (1) This project consists of the reconstruction of Limits: IH 35 NBFR to AW Grimes existing pavement to a 6 lane divided arterial.

Impact Fee Class: 6 Lane - Enhanced
Ultimate Class: 6 Lane - Enhanced

Length (If): 10,325 Service Area(s): B,C

Roadway Construction Cost Projection		
	Construction Cost TOTAL:	\$ 53,060,282

Impact Fee Project Cost Summary								
Item Description	Notes:	Allowance		Item Cost				
Construction:	From City estimate	-	\$	53,060,282				
Engineering/Survey/Testing:		11%	\$	5,836,631				
ROW/Easement Acquisition:	TxDOT Roadway	-	\$	23,000,000				
	Overall Project Cost Total:							
	City C	ontribution:	\$	16,379,383				
	Impact Fee Project	Cost (20%):	\$	16,379,383				

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

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. B-47
Name: US 79 (3) This project consists of the

Limits: 200' E of Red Bud Ln to 1690' E of Red Bud Ln reconstruction of existing

Impact Fee Class: 6 Lane - Enhanced
Ultimate Class: 6 Lane - Enhanced

Length (If): 1,487 Service Area(s): B reconstruction of existing pavement to a 6 lane divided arterial.

No.	Item Description		Quantity	Unit	Ur	nit Price		Item Cost
105	Unclassified Street Excavation		14,653	су	\$	24.33	\$	357,000
205	12" Asphalt (Type C)		8,290 ton \$ 139.9					1,160,000
305	16" Base	5,582 cy \$ 66.92					\$	374,000
105	10" Lime Stabilization (with Lime @	ne @ 45#/sy) 13,221 sy			\$	7.30	\$	97,000
505	Surface Treatment (0.2 gal/sy,Prim	e Coat AE-P)	2,512	gal	\$	7.30	\$	18,000
605	10' Concrete Sidewalk		29,747	sf	\$	10.95	\$	326,000
705	Machine Laid Curb & Gutter	5,949 If			\$	36.50	\$	217,000
305	Turn Lanes and Median Openings		901	sy	\$	243.06	\$	219,000
			Paving Consti	ruction (	Cost	Subtotal:	\$	2,768,000
Major Construction Component Allowances**:								
	Item Description	Notes			All	owance		Item Cost
	Traffic Control	Construction Phase Traffic Control				5%	\$	138,000
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Shared Paths				2%	\$	55,000
	Roadway Drainage	Standard Internal S	system			30%	\$	830,000
	Illumination						\$	277,000
		Bridge Crossing					Ψ	211,000
	Special Drainage Structures	Bridge Crossing					\$	
$\sqrt{}$	Special Drainage Structures Water	Bridge Crossing Minor Adjustments				2%	-	400,000
√ √ √						2% 2%	\$	400,000 55,000
ì	Water	Minor Adjustments					\$	400,000 55,000 55,000
ì	Water Sewer	Minor Adjustments				2%	\$	400,000 55,000 55,000 111,000
\ \ \	Water Sewer Turf and Erosion Control	Minor Adjustments				2% 4%	\$ \$ \$	400,000 55,000 55,000 111,000
√ √ √	Water Sewer Turf and Erosion Control Landscaping and Irrigation	Minor Adjustments Minor Adjustments		Allowa	ince	2% 4% 2%	\$ \$ \$ \$ \$ \$	400,000 55,000 55,000 111,000 55,000
\ \lambda \lambda \lambda	Water Sewer Turf and Erosion Control Landscaping and Irrigation Miscellaneous:	Minor Adjustments Minor Adjustments		Allowa	ınce	2% 4% 2% 0%	\$ \$ \$ \$ \$ \$	400,000 55,000 55,000 111,000 55,000
√ √ √	Water Sewer Turf and Erosion Control Landscaping and Irrigation Miscellaneous:	Minor Adjustments Minor Adjustments	Paving an			2% 4% 2% 0% Subtotal:	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	400,000 55,000 55,000 111,000 55,000 - 1,976,000
\ \lambda \lambda \lambda	Water Sewer Turf and Erosion Control Landscaping and Irrigation Miscellaneous:	Minor Adjustments Minor Adjustments  Sost Subtotal	Paving an	d Allowa	nce	2% 4% 2% 0% Subtotal:	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	400,000 55,000 55,000 111,000 55,000 - 1,976,000
\ \lambda \lambda \lambda	Water Sewer Turf and Erosion Control Landscaping and Irrigation Miscellaneous:	Minor Adjustments Minor Adjustments  Sost Subtotal	truction Conti	d Allowa	nce	2% 4% 2% 0% Subtotal: Subtotal:	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	400,000 55,000 55,000 111,000 55,000 - - 1,976,000 4,744,000 712,000
√ √ √	Water Sewer Turf and Erosion Control Landscaping and Irrigation Miscellaneous:	Minor Adjustments Minor Adjustments  Sost Subtotal	truction Conti Mob	d Allowa	nce	2% 4% 2% 0% Subtotal: Subtotal:	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	400,000 55,000 55,000 111,000 55,000

Item Description	Notes:	Allowance		Item Cost			
Construction:		-	\$	6,100,000			
Engineering/Survey/Testing:		16%	\$	976,000			
Previous City contribution							
Other							
ROW/Easement Acquisition:	TxDOT Roadway	\$20/s.f.	\$	892,000			
'	Impact Fee Project Cost TOTAL (20% City Contribution)						

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

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

**Project Information: B-48** Description: Project No. Name: Joe Dimaggio Blvd Extension This project consisted of the construction of a 3 lane Limits: Kenney Fort Blvd to US 79 undivided collector.

Impact Fee Class: 3 Lane - Proposed **Ultimate Class:** 3 Lane - Proposed

Length (If): 2,078 Service Area(s): В

Roa	Roadway Construction Cost Projection									
No.	Item Description	Quantity	Unit	Ur	nit Price		Item Cost			
109	Unclassified Street Excavation	6,173	су	\$	24.33	\$	150,000			
209	5" Asphalt (Type C)	3,365	ton	\$	139.92	\$	471,000			
309	10" Base	3,399	су	\$	66.92	\$	227,000			
409	10" Lime Stabilization (with Lime @ 45#/sy)	12,697	sy	\$	7.30	\$	93,000			
509	Surface Treatment (0.2 gal/sy,Prime Coat AE-P)	2,447	gal	\$	7.30	\$	18,000			
609	10' Concrete Sidewalk	105,600	sf	\$	10.95	\$	1,156,000			
709	Machine Laid Curb & Gutter	4,155	lf	\$	36.50	\$	152,000			
809	Turn Lanes and Median Openings	0	sy	\$	243.06	\$	-			

Paving Construction Cost Subtotal: \$ 2,267,000

Prep ROW

**Construction Cost TOTAL:** 

138,000

4,400,000

Major Construction Component Allowances**:
--

	Item Description	Notes	Allowance		Item Cost			
	Traffic Control	None Anticipated	0%	\$	-			
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Shared Paths	2%	\$	45,000			
	Roadway Drainage	Standard Internal System	30%	\$	680,000			
	Illumination		10%	\$	227,000			
	Special Drainage Structures	None Anticipated		\$	-			
	Water	Minor Adjustments	2%	\$	45,000			
	Sewer	Minor Adjustments	2%	\$	45,000			
	Turf and Erosion Control		4%	\$	91,000			
	Landscaping and Irrigation		2%	\$	45,000			
	Miscellaneous:		0%	\$	-			
**Allo	wances based on % of Paving Construction Co	st Subtotal Allowa	nce Subtotal:	\$	1,178,000			
	\$	3,445,000						
		Construction Contingency:	15%	\$	517,000			
	Mobilization 8%							

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 4,400,000
Engineering/Survey/Testing:		16%	\$ 704,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	New Roadway Alignment	\$10/s.f.	\$ 1,870,000
	\$ 7,000,00		

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

Project Information:

Name:
Wallin Bradley (1)
Limits:
Description:
Project No.
B-49

This project consisted of the construction of a 3 lane undivided collector.

Impact Fee Class: 3 Lane - Proposed
Ultimate Class: 3 Lane - Proposed

Length (If): 4,271 Service Area(s): B

No.	Item Description	Quantity	Unit	Uı	nit Price		Item Cost			
109	Unclassified Street Excavation	12,691	су	\$	24.33	\$	309,000			
209	5" Asphalt (Type C)	6,917	ton	\$	139.92	\$	968,000			
309	10" Base	6,987	су	\$	66.92	\$	468,000			
409	10" Lime Stabilization (with Lime @ 45#/sy)	26,102	sy	\$	7.30	\$	191,000			
509	Surface Treatment (0.2 gal/sy,Prime Coat AE-P)	5,031	gal	\$	7.30	\$	37,000			
609	10' Concrete Sidewalk	105,600	sf	\$	10.95	\$	1,156,000			
709	Machine Laid Curb & Gutter	8,543	lf	\$	36.50	\$	312,000			
809	Turn Lanes and Median Openings	0	sy	\$	243.06	\$	-			
	Paving Construction Cost Subtotal: \$ 3,441,000									
Maio	or Construction Component Allowances**:									
	Item Description Notes			AI	lowance		Item Cost			

Maj	Major Construction Component Allowances**:								
	Item Description	Notes	Allowance		Item Cost				
	Traffic Control	Construction Phase Traffic Control	5%	\$	172,000				
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Shared Paths	2%	\$	69,000				
	Roadway Drainage	Standard Internal System	30%	\$	1,032,000				
	Illumination		10%	\$	344,000				
	Special Drainage Structures None Anticipated								
	Water	Minor Adjustments	2%	\$	69,000				
	Sewer	Minor Adjustments	2%	\$	69,000				
	Turf and Erosion Control		4%	\$	138,000				
	Landscaping and Irrigation		2%	\$	69,000				
	Miscellaneous:		0%	\$	-				
**Allo	\$	1,962,000							
	\$	5,403,000							
	\$	810,000							
		Mobilization	8%	\$	432,000				
		Prep ROW			216,000				
		Construction C	ost TOTAL:	\$	6,900,000				

	Notes:	Allowance	1	Item Cost
Construction:		-	\$	6,900,000
Engineering/Survey/Testing:		16%	\$	1,104,000
Previous City contribution				
Other				
ROW/Easement Acquisition:	Existing Alignment	\$20/s.f.	\$	1,538,000

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

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. B-50

Name: Wallin Bradley (3)

This project consisted of the construction of a 4 lane

Limits: A.W. Grimes Blvd to Kenney Fort Blvd undivided collector.

Impact Fee Class: 4 Lane - Proposed
Ultimate Class: 4 Lane - Proposed

Length (If): 5,314
Service Area(s): B

Roa	Roadway Construction Cost Projection								
No.	Item Description		Quantity	Unit	Uı	nit Price		Item Cost	
102	Unclassified Street Excavation		38,639	су	\$	24.33	\$	940,000	
202	12" Asphalt (Type C)						\$	2,944,000	
302	02   16" Base   14,170   cy						\$	948,000	
402	402 10" Lime Stabilization (with Lime @ 45#/sy) 34,244 sy					7.30	\$	250,000	
502	502 Surface Treatment (0.2 gal/sy,Prime Coat AE-P) 6,376 gal				\$	7.30	\$	47,000	
602	02 10' Concrete Sidewalk 105,600 sf					10.95	\$	1,156,000	
	Machine Laid Curb & Gutter		21,255	lf	\$	36.50	\$	776,000	
802	Turn Lanes and Median Openings		3,220	sy	\$	243.06	\$	783,000	
		P	Paving Const	ruction (	Cost	Subtotal:	\$	7,844,000	
Majo	or Construction Component Allowa	nces**:							
	Item Description Notes Allowance							Item Cost	
	Traffic Control	Construction Phase	Traffic Control			5%	\$	392,000	
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Shared Paths				2%	\$	157,000	
	Roadway Drainage	Standard Internal System				30%		2,353,000	
	Illumination					10%	\$	784,000	
	Special Drainage Structures	None Anticipated					\$	-	
	Water	Minor Adjustments				2%	\$	157,000	
	Sewer	Minor Adjustments				2%	\$	157,000	
	Turf and Erosion Control					4%	\$	314,000	
	Landscaping and Irrigation					2%	\$	157,000	
	Miscellaneous:					0%	\$	-	
**Allo	wances based on % of Paving Construction Co	st Subtotal		Allowa	nce	Subtotal:	\$	4,471,000	
			Paving an	d Allowa	nce	Subtotal:	\$	12,315,000	
		Consti	ruction Conti	ngency:		15%	\$	1,847,000	
			Mob	ilization		8%	\$	985,000	
			Pre	ep ROW		4%	\$	493,000	
			Constru	ction C	ost	TOTAL:	\$	15,700,000	

		Allowance	1	Item Cost
Construction:		-	\$	15,700,000
Engineering/Survey/Testing:		16%	\$	2,512,000
Previous City contribution				
Other			İ	
ROW/Easement Acquisition:	Existing Alignment	\$20/s.f.	İ	

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

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

**Project Information:** B-51, C-28 Description: Project No.

Name: US 79 (2) This project consists of the reconstruction of Limits: AW Grimes to Red Bud Ln existing pavement to a 6 lane divided arterial.

Impact Fee Class: 6 Lane - Enhanced **Ultimate Class:** 6 Lane - Enhanced

Length (If): 13,902 Service Area(s): B,C

Turf and Erosion Control

Miscellaneous:

Landscaping and Irrigation

\*Allowances based on % of Paving Construction Cost Subtotal

KUč	adway Construction Cost Pro	jection						
No.	Item Description	-	Quantity	Unit	Ur	nit Price		Item Cost
105	Unclassified Street Excavation		136,965	су	\$	24.33	\$	3,333,000
205	12" Asphalt (Type C)		77,483	ton	\$	139.92	\$	10,841,000
305	15   16" Base		52,177	су	\$	66.92	\$	3,491,000
405	10" Lime Stabilization (with Lime @	45#/sy)	123,578	sy	\$	7.30	\$	902,000
505	Surface Treatment (0.2 gal/sy,Prime	Coat AE-P)	23,480	gal	\$	7.30	\$	171,000
605	10' Concrete Sidewalk		105,600	sf	\$	10.95	\$	1,156,000
705	Machine Laid Curb & Gutter		55,610	lf	\$	36.50	\$	2,030,000
805	Turn Lanes and Median Openings		8,426	sy	\$	243.06	\$	2,048,000
		F	Paving Consti	ruction (	Cost	Subtotal:	\$	23,972,000
Majo	or Construction Component Allowa	ınces**:						
Majo	or Construction Component Allowa Item Description	nces**:			All	owance		Item Cost
Majo	-	-	Traffic Control		All	owance 5%	\$	Item Cost 1,199,000
	Item Description	Notes		ths	All			
√ √	Item Description Traffic Control	Notes  Construction Phase	ns for Shared Par	ths	All	5%	\$	1,199,000
√ √	Item Description Traffic Control Pavement Markings/Signs/Posts	Notes  Construction Phase Includes Striping/Sig	ns for Shared Par	ths	All	5% 2%	\$ \$	1,199,000 479,000
√ √ √	Item Description Traffic Control Pavement Markings/Signs/Posts Roadway Drainage	Notes  Construction Phase Includes Striping/Sig	ns for Shared Par	ths	All	5% 2% 30%	\$ \$	1,199,000 479,000 7,192,000
√ √ √	Item Description Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination	Notes  Construction Phase Includes Striping/Sig Standard Internal Sy	ns for Shared Par	ths	All	5% 2% 30%	\$ \$ \$	1,199,000 479,000 7,192,000

Paving and Allowa	nce Subtotal:	\$ 37,635,000
Construction Contingency:	15%	\$ 5,645,000
Mobilization	8%	\$ 3,011,000
Prep ROW	4%	\$ 1,505,000
Construction C	ost TOTAL:	\$ 47,800,000

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 47,800,000
Engineering/Survey/Testing:		16%	\$ 7,648,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	TxDOT Roadway	\$20/s.f.	\$ 8,341,000

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

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

\$

4% \$

2%

0%

Allowance Subtotal: \$

959,000

479,000

13,663,000

#### City of Round Rock - 2023 Roadway Impact Fee Study

Capital Improvement Plan for Roadway Impact Fees Summary of Conceptual Level Project Cost Projections

Roadway Improvements - Service Area C

<u>#</u>	<u>IF Class</u>	<u>Project</u>	<u>Type</u>		nits	Percent in Service Area	Pro	ject Cost	 tal Cost in rvice Area
				<u>From</u>	<u>To</u>	001110071100			 7100 7 11 0 11
A-31, C-1	6 Lane - Enhanced	RM 620	Widening	Deepwood Dr	IH 35 SBFR	50%	\$	12,560,624	\$ 6,280,312
C-3	4 Lane - Enhanced	CR 172 (2)	Widening	Hesters Crossing Rd	445' N of Hesters Crossing Rd	50%	\$	1,800,000	\$ 900,000
C-4	4 Lane - Enhanced (AM)	Hesters Crossing Rd	Access Management	Dry Creek Dr	IH 35 SBFR	100%	\$	900,000	\$ 900,000
C-5	4 Lane - Enhanced	Bratton Ln	Widening	IH 35 SBFR	1160' S of Michael Angelo Way	50%	\$	8,700,000	\$ 4,350,000
B-46, C-6	6 Lane - Enhanced	US 79 (1)	Widening	IH 35 NBFR	200' E of Red Bud Ln	50%	\$	16,379,383	\$ 8,189,692
C-7	3 Lane - Existing	McNeil Extension	Previously Constructed	S Mays St	Georgetown St	100%	\$	4,799,620	\$ 4,799,620
C-8	4 Lane - Enhanced (AM)	S Mays St	Access Management	Nash St	Gattis School Rd	100%	\$	2,000,000	\$ 2,000,000
C-10	6 Lane - Proposed	Kenney Fort Blvd (2)	New	Forest Creek Dr	830' S of Gattis School Rd	100%	\$	40,800,000	\$ 40,800,000
C-11	4 Lane - Enhanced (AM)	Red Bud Ln (1)	Access Management	Forest Ridge Blvd	265' S of Forest Ridge Blvd	50%	\$	200,000	\$ 100,000
C-12	4 Lane - Enhanced	Red Bud Ln (2)	Widening	265' S of Forest Ridge Blvd	280' S of Woodlawn Ln	100%	\$	2,200,000	\$ 2,200,000
C-13	4 Lane - Enhanced	Red Bud Ln (3)	Widening	280' S of Woodlawn Ln	130' S of Old Oaks Dr	50%	\$	2,200,000	\$ 1,100,000
C-14	4 Lane - Enhanced	Red Bud Ln (4)	Widening	130' S of Old Oaks Dr	315' S of Country Dr	100%	\$	2,200,000	\$ 2,200,000
C-15	4 Lane - Enhanced	Red Bud Ln (5)	Widening	315' S of Country Dr	Wildflower Trl	50%	\$	2,200,000	\$ 1,100,000
C-16	4 Lane - Enhanced	Red Bud Ln (6)	Widening	Wildflower Trl	295' S of Wildflower Trl	100%	\$	1,200,000	\$ 1,200,000
C-17	4 Lane - Enhanced	Red Bud Ln (7)	Widening	295' S of Wildflower Trl	840' N of Forest Creek Dr	50%	\$	13,100,000	\$ 6,550,000
C-18	4 Lane - Enhanced	Red Bud Ln (8)	Widening	840' N of Forest Creek Dr	340' S of Forest Creek Dr	100%	\$	4,600,000	\$ 4,600,000
C-19	4 Lane - Enhanced	Red Bud Ln (9)	Widening	340' S of Forest Creek Dr	Gattis School Rd	50%	\$	18,713,810	\$ 9,356,905
C-20	6 Lane - Enhanced	Gattis School Rd (1)	Widening	S Mays St	Windy Park Dr	100%	\$	31,800,000	\$ 31,800,000
C-21	6 Lane - Enhanced	Gattis School Rd (2)	Widening	Windy Park Dr	Red Bud Ln	100%	\$	81,800,000	\$ 81,800,000
C-22	4 Lane - Enhanced (AM)	S Mays St / Dell Way	Access Management	Gattis School Rd	Greenlawn Blvd	100%	\$	3,600,000	\$ 3,600,000
C-23	6 Lane - Proposed	Kenney Fort Blvd (3)	New	830' S of Gattis School Rd	SH 45	100%	\$	12,400,000	\$ 12,400,000
C-24	6 Lane - Enhanced (1/3)	Greenlawn Blvd	Median Widening	IH 35 NBFR	SH 45 EBFR	100%	\$	16,468,640	\$ 16,468,640
C-26	4 Lane - Enhanced	Schultz (1)	Widening	SH 45 EBFR	290' S of SH 45 EBFR	100%	\$	1,200,000	\$ 1,200,000
C-27	4 Lane - Enhanced	Schultz (2)	Widening	290' S of SH 45 EBFR	255' S of Autumn Sage Way	50%	\$	10,300,000	\$ 5,150,000
B-51, C-28	6 Lane - Enhanced	US 79 (2)	Widening	AW Grimes	Red Bud Ln	50%	\$	12,760,000	\$ 6,380,000

TOTAL \$ 304,882,077 \$ 255,425,168

#### City of Round Rock - 2023 Roadway Impact Fee Study

Capital Improvement Plan for Roadway Impact Fees Summary of Conceptual Level Project Cost Projections

#### Intersection Improvements - Service Area C

#	Project	Project Improvement		Percent in	Project Cost	Total Cost in
<u>#</u>	Floject	Improvement 1	Improvement 2	Service Area	Froject Cost	Service Area
CI-5	Mays St and Liberty Ave	SIGNAL		100%	\$ 550,000	\$ 550,000
CI-7	Greenlawn Blvd and Louis Henna Blvd (SH 45 FR)	OTHER		100%	\$ 848,000	\$ 848,000
BI-4, CI-8	A.W. Grimes Blvd and Palm Valley Blvd	OTHER	TURN LANES	50%	\$ 2,141,000	\$ 1,070,500
CI-10	Red Bud Ln and Gattis School Rd	TURN LANES		100%	\$ 1,773,000	\$ 1,773,000
CI-11	E McNeil Rd and Oakridge Dr	INTERSECTION IMPROVEMENT		100%	\$ 10,000,000	\$ 10,000,000
-	Update ITS and Traffic Managmenet Infrastructure			25%	\$ 20,900,000	\$ 5,225,000

TOTAL \$ 36,212,000 \$ 19,466,500

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

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. C-3

Name: CR 172 (2) This project consists of the

Limits: Hesters Crossing Rd to 445' N of Hesters Crossing | reconstruction of existing pavement to a

Impact Fee Class: 4 Lane - Enhanced 4 lane divided arterial.

Ultimate Class: 4 Lane - Enhanced

Length (If): 445 Service Area(s): C

Ros	dway Construction Cost Pro	iection					
No.	Item Description	jection	Quantity	Unit	Ur	nit Price	Item Cost
103	Unclassified Street Excavation		3,238	CV	\$	24.33	\$ 79,000
203	12" Asphalt (Type C)		1,763	ton	\$	139.92	\$ 247,000
303	16" Base		1,187	су	\$	66.92	\$ 79,000
403	10" Lime Stabilization (with Lime @	45#/sy)	2,870	sy	\$	7.30	\$ 21,000
503	Surface Treatment (0.2 gal/sy,Prime	Coat AE-P)	534	gal	\$	7.30	\$ 4,000
603				sf	\$	10.95	\$ 98,000
703	Machine Laid Curb & Gutter		1,781	lf	\$	36.50	\$ 65,000
803	Turn Lanes and Median Openings		270	sy	\$	243.06	\$ 66,000
			Paving Const	ruction (	Cost	Subtotal:	\$ 659,000
Majo	r Construction Component Allowa	ınces**:					
	Item Description	Notes			All	owance	Item Cost
	Traffic Control	Construction Phase	Traffic Control			5%	\$ 33,000
	Pavement Markings/Signs/Posts	Includes Striping/Si	gns for Shared Pa	ths		2%	\$ 13,000
	Roadway Drainage	Standard Internal S	system			30%	\$ 198,000
	Illumination					10%	\$ 66,000
	Special Drainage Structures	None Anticipated					\$ -
	Water	Minor Adjustments				2%	\$ 13,000
	Sewer	Minor Adjustments				2%	\$ 13,000
	Turf and Erosion Control					4%	\$ 26,000
	Landscaping and Irrigation					2%	\$ 13,000
	Miscellaneous:					0%	\$ -
**Allo	vances based on % of Paving Construction C	ost Subtotal		Allowa	nce	Subtotal:	\$ 375,000
			Paving an	d Allowa	nce	Subtotal:	\$ 1,034,000
		Cons	truction Conti	ngency:		15%	\$ 155,000
			Mob	ilization		8%	\$ 83,000
				ep ROW		4%	\$ 41,000
			Constru	ction C	ost	TOTAL:	\$ 1,400,000

Constmistion.		Allowance	Item Cost
Construction:		-	\$ 1,400,000
Engineering/Survey/Testing:		16%	\$ 224,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	Existing Alignment	\$20/s.f.	\$ 214,000

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

Project Information:

Name:

Hesters Crossing Rd
Limits:

Dry Creek Dr to IH 35 SBFR

Dry Creek Dr to IH 35 SBFR

Dry Creek Dr to IH 35 SBFR

Dry Creek Dry Creek Dry to IH 35 SBFR

Dry Creek Dry to IH 35 SBFR

Dry Creek Dry to IH 35 SBFR

Dry Creek Dry to IH 35 SBFR

Dry Creek Dry to IH 35 SBFR

Dry Creek Dry to IH 35 SBFR

Dry Creek Dry to IH 35 SBFR

Dry Creek Dry to IH 35 SBFR

Dry Creek Dry to IH 35 SBFR

Dry Creek Dry to IH 35 SBFR

Dry Creek Dry to IH 35 SBFR

Dry Creek Dry to IH 35 SBFR

Dry Creek Dry to IH 35 SBFR

Impact Fee Class: 4 Lane - Enhanced (AM)
4 Lane - Enhanced (AM)
4 Lane - Enhanced (AM)

Length (If): 1,692 Service Area(s): C

Roa	adway Construction Cost Pro	ection					
No.	Item Description		Quantity	Unit	Ur	nit Price	Item Cost
104	Unclassified Street Excavation		3,174	су	\$	24.33	\$ 77,000
204	Asphalt (Type C)		0	ton	\$	139.92	\$ -
304	Base		0	су	\$	66.92	\$ -
404	Lime Stabilization (with Lime @ 45#/		0	sy	\$	7.30	\$ -
504	504 Surface Treatment (0.2 gal/sy,Prime Coat AE-P)			gal	\$	7.30	\$ -
604	604 Concrete Sidewalk			sf	\$	10.95	\$ -
	704 Machine Laid Curb & Gutter			lf	\$	36.50	\$ 123,000
804	Turn Lanes and Median Openings		1,025	sy	\$	243.06	\$ 249,000
		F	Paving Const	ruction (	Cost	Subtotal:	\$ 449,000
Majo	or Construction Component Allowa						
	Item Description	Notes				nit Price	Item Cost
V	Traffic Control	Assume 6 months to	\$2	,500 / MO	\$ 15,000		
	Pavement Markings/Signs/Posts	4 signs / 1000', 1/2 L	ength mrkgs (\$1.5	50/LF)		\$750	\$ 6,000
<b>1</b> .	Roadway Drainage	None Anticipated				0%	\$ -
	Street Lighting	1 Assem / 100', \$15/I	LF cond/cndr			\$2,800	\$ 73,000
	Special Drainage Structures	None Anticipated					\$ -
	Utilities	Minor Adjustments			\$1,	000 / STA	\$ 3,000
	ADA Ramps & Requirements	4 ramps / 600'				\$2,200	\$ 25,000
	Landscaping and Irrigation	Grass, Trees, Restor	ration, E/S Contro			\$10 / SY	\$ 80,000
**Allo	wances based on % of Paving Construction Co	st Subtotal		Allowa	ınce	Subtotal:	\$ 202,000
			Paving an			Subtotal:	\$ 651,000
		Const	ruction Conti			15%	\$ 98,000
				ilization		5%	\$ 33,000
			Pro	ep ROW	\$3,	000 / STA	\$ 5,000
			Construc	ction C	ost	TOTAL:	\$ 800,000

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 800,000
Engineering/Survey/Testing:		16%	\$ 128,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	No ROW Acquisition Costs included		\$ -

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

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

**Project Information:** Description: **C-5** Project No.

Name: Bratton Ln This project consists of the

Limits: IH 35 SBFR to 1160' S of Michael Angelo Way reconstruction of existing pavement to a

Impact Fee Class: 4 Lane - Enhanced 4 lane divided arterial. **Ultimate Class:** 4 Lane - Enhanced

Length (If): 2,215 Service Area(s): С

Roa	adway Construction Cost Pro	jection					
No.	Item Description		Quantity	Unit	Uı	nit Price	Item Cost
103	Unclassified Street Excavation		16,107	су	\$	24.33	\$ 392,000
203	12" Asphalt (Type C)		8,772	ton	\$	139.92	\$ 1,227,000
303	16" Base		5,907	су	\$	66.92	\$ 395,000
403	10" Lime Stabilization (with Lime @ 4	15#/sy)	14,275	sy	\$	7.30	\$ 104,000
503	Surface Treatment (0.2 gal/sy,Prime	Coat AE-P)	2,658	gal	\$	7.30	\$ 19,000
603				sf	\$	10.95	\$ 485,000
703	Machine Laid Curb & Gutter	8,860	lf	\$	36.50	\$ 323,000	
803	803 Turn Lanes and Median Openings			sy	\$	243.06	\$ 326,000
		Р	aving Const	ruction (	Cost	Subtotal:	\$ 3,271,000
Majo	or Construction Component Allowa	nces**:					
	Item Description	Notes			Al	lowance	Item Cost
	Traffic Control	Construction Phase	Traffic Control			5%	\$ 164,000
	Pavement Markings/Signs/Posts	Includes Striping/Sign	ns for Shared Pa	ths		2%	\$ 65,000
	Roadway Drainage	Standard Internal System				30%	\$ 981,000
	Illumination					10%	\$ 327,000
	Special Drainage Structures	None Anticipated					\$ -
$\sqrt{}$	Water	Minor Adjustments				2%	\$ 65,000
$\sqrt{}$	Sewer	Minor Adjustments				2%	\$ 65,000
$\sqrt{}$	Turf and Erosion Control					4%	\$ 131,000
$\sqrt{}$	Landscaping and Irrigation					2%	\$ 65,000
	Miscellaneous:					0%	\$ -
**Allo	wances based on % of Paving Construction Co	st Subtotal		Allowa	nce	Subtotal:	\$ 1,863,000
			Paving an			Subtotal:	\$ 5,134,000
		Constr	uction Conti	ngency:		15%	\$ 770,000
			Mob	ilization		8%	\$ 411,000
			Pre	ep ROW		4%	\$ 205,000
			Constru	ction C	ost	TOTAL:	\$ 6,600,000

	-	\$	6,600,000
			0,000,000
	16%	\$	1,056,000
sting Alignment	\$20/s.f.	\$	1,063,000
	sting Alignment	sting Alignment \$20/s.f.	

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

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

#### **City of Round Rock** Kimley-Horn and Associates, Inc.

## 2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Description: Project No.

Name: McNeil Extension This project consists of the construction of a new 3 lane collector.

Limits: S Mays St to Georgetown St

Impact Fee Class: 3 Lane - Existing **Ultimate Class:** 3 Lane - Existing

Length (If): 2,732 Service Area(s): С

**Project Information:** 

Roadway Construction Cost Projection		
	Construction Cost TOTAL:	\$ 4,350,076

Impact Fee Project Cost Sun	nmary		
Item Description	Notes:	Allowance	Item Cost
Construction:	From City estimate	-	\$ 4,350,076
Engineering/Survey/Testing:	From City estimate	-	\$ 716,019
ROW/Easement Acquisition:	New Roadway Alignment	-	\$ -
	Overall Project	t Cost Total:	\$ 5,066,094
	City C	ontribution:	\$ 4,799,620
	Impact Fee Project		4,799,620

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

**Project Information:** C-8 Description: Project No. Name: S Mays St This project consists of the construction of a median Limits: Nash St to Gattis School Rd in the existing center turn lane.

Impact Fee Class: 4 Lane - Enhanced (AM) **Ultimate Class:** 4 Lane - Enhanced (AM)

Length (If): 3,657 Service Area(s):

	dway Construction Cost Pro	ection						
	Item Description		Quantity	Unit	Ur	nit Price		Item Cost
104	Unclassified Street Excavation		6,862	су	\$	24.33	69	167,000
204	Asphalt (Type C)		0	ton	\$	139.92	\$	-
304	Base		0	су	\$	66.92	\$	-
404	Lime Stabilization (with Lime @ 45#/		0	sy	\$	7.30	\$	-
504	Surface Treatment (0.2 gal/sy,Prime	Coat AE-P)	0	gal	\$	7.30	\$	-
604	Concrete Sidewalk		0	sf	\$	10.95	\$	-
	Machine Laid Curb & Gutter		7,313	lf	\$	36.50	\$	267,000
804	Turn Lanes and Median Openings		2,216	sy	\$	243.06	\$	539,000
		F	Paving Const	ruction (	Cost	Subtotal:	\$	973,000
Majo	or Construction Component Allowa	nces**:						
	Item Description	Notes			Ur	nit Price		Item Cost
	Traffic Control	Assume 6 months to	Construct		\$2	,500 / MO	\$	15,000
	Pavement Markings/Signs/Posts	4 signs / 1000', 1/2 L	ength mrkgs (\$1.5	50/LF)		\$750	\$	14,000
	Roadway Drainage	None Anticipated				0%	\$	-
	Street Lighting	1 Assem / 100', \$15/	LF cond/cndr			\$2,800	\$	157,000
	Special Drainage Structures	None Anticipated					\$	-
	Utilities	Minor Adjustments			\$1,0	000 / STA	\$	7,000
	ADA Ramps & Requirements	4 ramps / 600'				\$2,200	\$	54,000
	Landscaping and Irrigation	Grass, Trees, Restor	ration, E/S Contro	ls		\$10 / SY	\$	173,000
**Allo	wances based on % of Paving Construction Co	st Subtotal		Allowa	nce	Subtotal:	\$	420,000
			Paving an	d Allowa	nce	Subtotal:	\$	1,393,000
		Const	ruction Conti	ngency:		15%	\$	209,000
			Mob	ilization		5%	\$	70,000
			Pro	ep ROW	\$3,	000 / STA	\$	11,000
			Constru	ction C	ost	TOTAL:	\$	1,700,000

Construction:		1	
		-	\$ 1,700,000
Engineering/Survey/Testing:		16%	\$ 272,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	No ROW Acquisition Costs included		\$ -

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

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

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

**Project Information:** Description: C-10 Project No. Name: Kenney Fort Blvd (2) This project consists of the construction of a new 6 lane divided arterial.

Forest Creek Dr to 830' S of Gattis School Rd Limits:

Impact Fee Class: 6 Lane - Proposed **Ultimate Class:** 6 Lane - Proposed

Length (If): 5,515 Service Area(s): С

Roa	dway Construction Cost Projection					
No.	Item Description	Quantity	Unit	Ū	nit Price	Item Cost
108	Unclassified Street Excavation	54,329	су	\$	24.33	\$ 1,322,000
208	5" Asphalt (Type C)	30,734	ton	\$	139.92	\$ 4,300,000
308	10" Base	20,697	су	\$	66.92	\$ 1,385,000
408	10" Lime Stabilization (with Lime @ 45#/sy)	49,018	sy	\$	7.30	\$ 358,000
508	Surface Treatment (0.2 gal/sy,Prime Coat AE-P)	9,313	gal	\$	7.30	\$ 68,000
608	10' Concrete Sidewalk	110,291	sf	\$	10.95	\$ 1,208,000
708	Machine Laid Curb & Gutter	22,058	lf	\$	36.50	\$ 805,000
808	Turn Lanes and Median Openings	3,342	sy	\$	243.06	\$ 812,000
		Paving Const	ruction (	Cost	Subtotal:	\$ 10,258,000

		_		
Maj	or Construction Component Allowa	nces**:		
	Item Description	Notes	Allowance	Item Cost
	Traffic Control	None Anticipated	0%	\$ -
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Shared Paths	2%	\$ 205,000
	Roadway Drainage	Standard Internal System	30%	\$ 3,077,000
	Illumination		10%	\$ 1,026,000
	Special Drainage Structures	Bridge Crossing		\$ 6,400,000
	Water	Minor Adjustments	2%	\$ 205,000
	Sewer	Minor Adjustments	2%	\$ 205,000
	Turf and Erosion Control		4%	\$ 410,000
	Landscaping and Irrigation		2%	\$ 205,000
	Miscellaneous:		0%	\$ -
**Allo	wances based on % of Paving Construction Co	ost Subtotal Allowa	nce Subtotal:	\$ 11,733,000
		Paving and Allowa	nce Subtotal:	\$ 21,991,000
		Construction Contingency:	15%	\$ 3,299,000
		Mobilization	8%	\$ 1,759,000
		Prep ROW	4%	\$ 880,000
		Construction C	ost TOTAL:	\$ 28,000,000

Item Description	Notes:	Allowance		Item Cost
Construction:		-	\$	28,000,000
Engineering/Survey/Testing:		16%	\$	4,480,000
Previous City contribution				
Other				
ROW/Easement Acquisition:	New Roadway Alignment	\$10/s.f.	\$	8,272,000
ROW/Easement Acquisition:	\$ \$	40,800		

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

Project Information:

Name:

Red Bud Ln (1)

Limits:

Forest Ridge Blvd to 265' S of Forest Ridge Blvd
Impact Fee Class:

4 Lane - Enhanced (AM)

Project No. C-11

This project consists of the construction of a median in the existing center turn lane.

Ultimate Class: 4 Lane - Enhanced (AM)

Length (If): 265 Service Area(s): C

Roa	dway Construction Cost Pro	ection					
No.	Item Description		Quantity	Unit	Ur	nit Price	Item Cost
104	Unclassified Street Excavation		497	су	\$	24.33	\$ 12,000
204	Asphalt (Type C)		0	ton	\$	139.92	\$ -
304	Base		0	су	\$	66.92	\$ -
404	Lime Stabilization (with Lime @ 45#	'sy)	0	sy	\$	7.30	\$ -
504	Surface Treatment (0.2 gal/sy,Prime	Coat AE-P)	0	gal	\$	7.30	\$ -
604	Concrete Sidewalk		0	sf	\$	10.95	\$ -
704	Machine Laid Curb & Gutter		530	lf	\$	36.50	\$ 19,000
804	Turn Lanes and Median Openings		161	sy	\$	243.06	\$ 39,000
		ı	Paving Const	ruction (	Cost	Subtotal:	\$ 70,000
Majo	or Construction Component Allowa	nces**:					
	Item Description	Notes			Ur	nit Price	Item Cost
	Traffic Control	Assume 6 months to	Construct		\$2	,500 / MO	\$ 15,000
	Pavement Markings/Signs/Posts	4 signs / 1000', 1/2 L	ength mrkgs (\$1.5	50/LF)		\$750	\$ 1,000
	Roadway Drainage	None Anticipated				0%	\$ -
	Street Lighting	1 Assem / 100', \$15/	LF cond/cndr			\$2,800	\$ 11,000
	Special Drainage Structures	None Anticipated					\$ -
	Utilities	Minor Adjustments			\$1,	000 / STA	\$ 1,000
	ADA Ramps & Requirements	4 ramps / 600'				\$2,200	\$ 4,000
	Landscaping and Irrigation	Grass, Trees, Resto	ration, E/S Contro	ls		\$10 / SY	\$ 13,000
**Allo	wances based on % of Paving Construction Co	st Subtotal		Allowa	nce	Subtotal:	\$ 45,000
			Paving an	d Allowa	nce	Subtotal:	\$ 115,000
		Const	ruction Conti	ngency:		15%	\$ 17,000
			Mob	ilization		5%	\$ 6,000
			Pr	ep ROW	\$3,	000 / STA	\$ 1,000
			Constru	ction C	ost	TOTAL:	\$ 200,000

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 200,000
Engineering/Survey/Testing:		16%	\$ 32,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	No ROW Acquisition Costs included		\$ -

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

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. C-12

Name: Red Bud Ln (2) This project consists of the

Limits: 265' S of Forest Ridge Blvd to 280' S of Woodlawn I reconstruction of existing pavement to a

Impact Fee Class: 4 Lane - Enhanced 4 lane divided arterial.

Ultimate Class: 4 Lane - Enhanced

Length (If): 565 Service Area(s): C

Roa	adway Construction Cost Pro	jection						
	Item Description		Quantity	Unit	Ur	nit Price		Item Cost
103	Unclassified Street Excavation		4,106	су	\$	24.33	\$	100,000
203	12" Asphalt (Type C)		2,236	ton	\$	139.92	\$	313,000
303	16" Base		1,506	су	\$	66.92	\$	101,000
403	10" Lime Stabilization (with Lime @	45#/sy)	3,639	sy	\$	7.30	\$	27,000
503	Surface Treatment (0.2 gal/sy,Prime	678	gal	\$	7.30	\$	5,000	
603	10' Concrete Sidewalk		11,294	sf	\$	10.95	\$	124,000
703	Machine Laid Curb & Gutter	urb & Gutter 2,259 If					\$	82,000
803	Turn Lanes and Median Openings		342	sy	\$	243.06	\$	83,000
	\$	835,000						
Major Construction Component Allowances**:								
	Item Description	Notes				lowance		Item Cost
	Traffic Control	Construction Phase Traffic Control				5%	\$	42,000
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Shared Paths				2%	\$	17,000
	Roadway Drainage	Standard Internal Sys	stem			30%		251,000
	Illumination					10%	\$	84,000
	Special Drainage Structures	None Anticipated					\$	-
	Water	Minor Adjustments				2%	\$	17,000
	Sewer	Minor Adjustments				2%	\$	17,000
	Turf and Erosion Control					4%	\$	33,000
	Landscaping and Irrigation					2%	\$	17,000
	Miscellaneous:					0%	\$	-
**Allo	wances based on % of Paving Construction Co	st Subtotal		Allowa	nce	Subtotal:	\$	478,000
			Paving an	d Allowa	nce	Subtotal:	\$	1,313,000
		Consti	ruction Conti	ngency:		15%	\$	197,000
			Mob	ilization		8%	\$	105,000
			Pro	ep ROW		4%	\$	53,000
			Constru	ction C	ost	TOTAL:	\$	1,700,000

Impact Fee Project Cost Sum	mary		
Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 1,700,000
Engineering/Survey/Testing:		16%	\$ 272,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	Existing Alignment	\$20/s.f.	\$ 271,000
	Impact Fee Project C	ost TOTAL:	\$ 2,200,000

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

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. C-13

Name: Red Bud Ln (3) This project consists of the

Limits: 280' S of Woodlawn Ln to 130' S of Old Oaks Dr reconstruction of existing pavement to a

Impact Fee Class: 4 Lane - Enhanced

Ultimate Class: 4 Lane - Enhanced

Length (If): 554 Service Area(s): C

Roa	Roadway Construction Cost Projection									
No.	Item Description	Quantity	Unit	Ur	nit Price		Item Cost			
103	Unclassified Street Excavation	4,028	су	\$	24.33	\$	98,000			
203	12" Asphalt (Type C)	2,193	ton	\$	139.92	\$	307,000			
303	16" Base	1,477	су	\$	66.92	\$	99,000			
403	10" Lime Stabilization (with Lime @ 45#/sy)	3,570	sy	\$	7.30	\$	26,000			
503	Surface Treatment (0.2 gal/sy,Prime Coat AE-P)	665	gal	\$	7.30	\$	5,000			
603	10' Concrete Sidewalk	11,078	sf	\$	10.95	\$	121,000			
703	Machine Laid Curb & Gutter	2,216	lf	\$	36.50	\$	81,000			
803	Turn Lanes and Median Openings	336	sy	\$	243.06	\$	82,000			

Paving Construction Cost Subtotal: \$ 819,000

4 lane divided arterial.

<b>"</b>									
Major Construction Component Allowances**:									
Notes	Allowance		Item Cost						
Construction Phase Traffic Control	5%	\$	41,000						
Includes Striping/Signs for Shared Paths	2%	\$	16,000						
Standard Internal System	30%	\$	246,000						
	10%	\$	82,000						
None Anticipated		\$	-						
Minor Adjustments	2%	\$	16,000						
Minor Adjustments	2%	\$	16,000						
	4%	\$	33,000						
	2%	\$	16,000						
	0%	\$	-						
ost Subtotal Allowa	nce Subtotal:	\$	466,000						
Paving and Allowa	nce Subtotal:	\$	1,285,000						
Construction Contingency:	15%	\$	193,000						
Mobilization	8%	\$	103,000						
Prep ROW	4%	\$	51,000						
Construction C	ost TOTAL:	\$	1,700,000						
	Notes  Construction Phase Traffic Control Includes Striping/Signs for Shared Paths Standard Internal System  None Anticipated Minor Adjustments Minor Adjustments  Paving and Allowa Construction Contingency: Mobilization Prep ROW	Notes  Construction Phase Traffic Control Includes Striping/Signs for Shared Paths Standard Internal System  None Anticipated Minor Adjustments Minor Adjustments  2% 4% 2% obst Subtotal  Paving and Allowance Subtotal:  Construction Contingency: Mobilization Prep ROW  Allowance 4%	Notes  Construction Phase Traffic Control Includes Striping/Signs for Shared Paths Standard Internal System  None Anticipated Minor Adjustments Minor Adjustments  Allowance Subtotal:  Paving and Allowance Subtotal:  Construction Contingency: Mobilization Prep ROW  Allowance  Allowance  S  S  Allowance Subtotal:  S  Allowance Subtotal: S  Allo						

Impact Fee Project Cost Summary									
Item Description	Notes:	Allowance		Item Cost					
Construction:		-	\$	1,700,000					
Engineering/Survey/Testing:		16%	\$	272,000					
Previous City contribution									
Other									
ROW/Easement Acquisition:	Existing Alignment	\$20/s.f.	\$	266,000					
	Impact Fee Project C	ost TOTAL:	\$	2,200,000					

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

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. C-14

Name: Red Bud Ln (4) This project consists of the

Limits: 130' S of Old Oaks Dr to 315' S of Country Dr reconstruction of existing

Impact Fee Class: 4 Lane - Enhanced
Ultimate Class: 4 Lane - Enhanced

Length (If): 561 Service Area(s): C reconstruction of existing pavement to a 4 lane divided arterial.

Roa	Roadway Construction Cost Projection						
No.	Item Description		Quantity	Unit	Uı	nit Price	Item Cost
103	Unclassified Street Excavation		4,078	су	\$	24.33	\$ 99,000
203	12" Asphalt (Type C)		2,221	ton	\$	139.92	\$ 311,000
303	303   16" Base			су	\$	66.92	\$ 100,000
403	403 10" Lime Stabilization (with Lime @ 45#/sy)			sy	\$	7.30	\$ 26,000
503	503 Surface Treatment (0.2 gal/sy,Prime Coat AE-P)			gal	\$	7.30	\$ 5,000
603	603 10' Concrete Sidewalk			sf If	\$	10.95	\$ 123,000
703	703 Machine Laid Curb & Gutter 2,24				\$	36.50	\$ 82,000
803	Turn Lanes and Median Openings		340	sy	\$	243.06	\$ 83,000
	\$ 829,000						
Majo							
	Item Description	Notes	Al	lowance	Item Cost		
	Traffic Control	Construction Phase Traffic Control				5%	\$ 41,000
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Shared Paths				2%	\$ 17,000
	Roadway Drainage	Standard Internal System				30%	\$ 249,000
	Illumination					10%	\$ 83,000
	Special Drainage Structures	None Anticipated					\$ -
	Water	Minor Adjustments				2%	\$ 17,000
	Sewer	Minor Adjustments				2%	\$ 17,000
	Turf and Erosion Control					4%	\$ 33,000
	Landscaping and Irrigation					2%	\$ 17,000
	Miscellaneous:					0%	\$ -
**Allo	wances based on % of Paving Construction Co	st Subtotal		Allowa	ınce	Subtotal:	\$ 474,000
			Paving an	d Allowa	ince	Subtotal:	\$ 1,303,000
		Constr	ruction Conti	ngency:		15%	\$ 195,000
			Mob	ilization		8%	\$ 104,000
				ep ROW		4%	\$ 52,000
			Constru	ction C	ost	TOTAL:	\$ 1,700,000

Impact Fee Project Cost Sum	mary							
Item Description	Notes:	Allowance		Item Cost				
Construction:		-	\$	1,700,000				
Engineering/Survey/Testing:		16%	\$	272,000				
Previous City contribution								
Other								
ROW/Easement Acquisition:	Existing Alignment	\$20/s.f.	\$	269,000				
	Impact Fee Project Cost TOTAL:							

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

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. C-15

Name: Red Bud Ln (5) This project consists of the

Limits: 315' S of Country Dr to Wildflower Trl reconstruction of existing pavement to a

Impact Fee Class: 4 Lane - Enhanced 4 lane divided arterial.

Ultimate Class: 4 Lane - Enhanced Length (If): 551

Length (If): 551 Service Area(s): C

Roadway Construction Cost Projection									
No.	Item Description	-	Quantity	Unit	Uı	nit Price		Item Cost	
103	Unclassified Street Excavation		4,003	су	\$	24.33	\$	97,000	
203	12" Asphalt (Type C)	2" Asphalt (Type C) 2,180 ton					\$	305,000	
303	03 16" Base 1,468					66.92	\$	98,000	
403	10" Lime Stabilization (with Lime @	3,548	sy	\$	7.30	\$	26,000		
503	503 Surface Treatment (0.2 gal/sy,Prime Coat AE-P)			gal	\$	7.30	\$	5,000	
603	10' Concrete Sidewalk		11,011	sf	\$	10.95	\$	121,000	
703	Machine Laid Curb & Gutter		2,202	lf	\$	36.50	\$	80,000	
803	Turn Lanes and Median Openings		334	sy	\$	243.06	\$	81,000	
	Paving Construction Cost Subtotal:								
Majo									
	Item Description	Notes	All	lowance		Item Cost			
	Traffic Control	Construction Phase Traffic Control				5%	\$	41,000	
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Shared Paths				2%		16,000	
$\sqrt{}$	Roadway Drainage	Standard Internal Sys	stem			30%		244,000	
	Illumination					10%	\$	81,000	
	Special Drainage Structures	None Anticipated					\$	-	
	Water	Minor Adjustments				2%	\$	16,000	
	Sewer	Minor Adjustments				2%	\$	16,000	
	Turf and Erosion Control					4%	\$	33,000	
	Landscaping and Irrigation					2%	\$	16,000	
	Miscellaneous:					0%	\$	-	
**Allo	wances based on % of Paving Construction Co	ost Subtotal		Allowa	ınce	Subtotal:	\$	463,000	
			Paving an		_		\$	1,276,000	
		Constr	uction Conti			15%	\$	191,000	
				ilization		8%	\$	102,000	
			Pro	ep ROW		4%	\$	51,000	
			Constru	ction C	ost	TOTAL:	\$	1,700,000	

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 1,700,000
Engineering/Survey/Testing:		16%	\$ 272,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	Existing Alignment	\$20/s.f.	\$ 264,000

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

## 2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. C-16

Name: Red Bud Ln (6) This project consists of the

Limits: Wildflower Trl to 295' S of Wildflower Trl reconstruction of existing pavement to a

Impact Fee Class: 4 Lane - Enhanced 4 lane divided arterial.

Ultimate Class: 4 Lane - Enhanced 4 Lane - Enhanced

Length (If): 293 Service Area(s): C

Roadway Construction Cost Projection										
No.	Item Description		Quantity	Unit	Ur	nit Price		Item Cost		
103	Unclassified Street Excavation		2,133	су	\$	24.33	\$	52,000		
203	12" Asphalt (Type C)		1,162	ton	\$	139.92	\$	163,000		
303	16" Base		782	су	\$	66.92	\$	52,000		
403	10" Lime Stabilization (with Lime @ 4	5#/sy)	1,891	sy	\$	7.30	\$	14,000		
503	Surface Treatment (0.2 gal/sy,Prime	352	gal	\$	7.30	\$	3,000			
603	10' Concrete Sidewalk	5,868	sf	\$	10.95	\$	64,000			
703	03 Machine Laid Curb & Gutter			lf	\$	36.50	\$	43,000		
803	Turn Lanes and Median Openings 178 sy						\$	43,000		
	Paving Construction Cost Subtotal:									
Majo	Major Construction Component Allowances**:									
	Item Description Notes					owance		Item Cost		
	Traffic Control	Construction Phase Traffic Control				5%	\$	22,000		
	Pavement Markings/Signs/Posts	Includes Striping/Sign	ns for Shared Pa	ths		2%	*	9,000		
	Roadway Drainage	Standard Internal Sys	stem			30%	\$	130,000		
	Illumination					10%	\$	43,000		
	Special Drainage Structures	None Anticipated					\$	-		
	Water	Minor Adjustments				2%	\$	9,000		
	Sewer	Minor Adjustments				2%	\$	9,000		
	Turf and Erosion Control					4%	\$	17,000		
	Landscaping and Irrigation					2%	\$	9,000		
	Miscellaneous:					0%	\$	-		
**Allo	wances based on % of Paving Construction Co	st Subtotal		Allowa	nce	Subtotal:	\$	248,000		
			Paving an				\$	682,000		
		Constr	ruction Conti	ngency:		15%	\$	102,000		
				ilization		8%	\$	55,000		
I			Pro	ep ROW		4%	\$	27,000		

		Allowance	Item Cost
Construction:		-	\$ 900,000
Engineering/Survey/Testing:		16%	\$ 144,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	Existing Alignment	\$20/s.f.	\$ 141,000

**Construction Cost TOTAL:** 

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

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

900,000

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

**Project Information:** Description: C-17 Project No. Name: Red Bud Ln (7) This project consists of the

295' S of Wildflower Trl to 840' N of Forest Creek Di reconstruction of existing pavement to a Limits:

Impact Fee Class: 4 Lane - Enhanced 4 lane divided arterial.

**Ultimate Class:** 4 Lane - Enhanced

Length (If): 2,907 Service Area(s): С

Roa	adway Construction Cost Pro	jection								
No.	Item Description		Quantity	Unit	Ur	nit Price		Item Cost		
103	Unclassified Street Excavation		21,139	су	\$	24.33	\$	514,000		
203	3   12" Asphalt (Type C)   11,512   ton				\$	139.92	\$	1,611,000		
303	16" Base		7,752	су	\$	66.92	\$	519,000		
403	10" Lime Stabilization (with Lime @	45#/sy)	18,735	sy	\$	7.30	\$	137,000		
503	503 Surface Treatment (0.2 gal/sy,Prime Coat AE-P)			gal	\$	7.30	\$	25,000		
603	03 10' Concrete Sidewalk 58,142 sf				\$	10.95	\$	637,000		
703	Machine Laid Curb & Gutter	11,628 If			\$	36.50	\$	424,000		
803	Turn Lanes and Median Openings 1,762 sy					243.06	\$	428,000		
	Paving Construction Cost Subtotal:									
Majo	Major Construction Component Allowances**:									
	Item Description	Notes				lowance		Item Cost		
	Traffic Control	Construction Phase Traffic Control				5%	\$	215,000		
	Pavement Markings/Signs/Posts	Includes Striping/Sig	ns for Shared Pa	ths		2%	\$	86,000		
	Roadway Drainage	Standard Internal Sys	stem			30%	\$	1,289,000		
	Illumination					10%	\$	430,000		
	Special Drainage Structures	Bridge Crossing					\$	1,200,000		
	Water	Minor Adjustments				2%	\$	86,000		
	Sewer	Minor Adjustments				2%	\$	86,000		
	Turf and Erosion Control					4%	\$	172,000		
	Landscaping and Irrigation					2%	\$	86,000		
	Miscellaneous:					0%	\$	-		
**Allo	wances based on % of Paving Construction Co	ost Subtotal		Allowa	nce	Subtotal:	\$	3,650,000		
			Paving an	d Allowa	nce	Subtotal:	\$	7,945,000		
		Consti	ruction Conti	ngency:		15%	\$	1,192,000		
			Mob	ilization		8%	\$	636,000		
			Pre	ep ROW		4%	\$	318,000		
			Constru	ction C	ost	TOTAL:	\$	10,100,000		

Construction:			
		-	\$ 10,100,000
Engineering/Survey/Testing:		16%	\$ 1,616,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	Existing Alignment	\$20/s.f.	\$ 1,395,000

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

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. C-18

Name: Red Bud Ln (8) This project consists of the

Limits: 840' N of Forest Creek Dr to 340' S of Forest Creek reconstruction of existing pavement to a

Impact Fee Class: 4 Lane - Enhanced 4 lane divided arterial.

Ultimate Class: 4 Lane - Enhanced

Length (If): 1,182 Service Area(s): C

Roa	adway Construction Cost Pro	jection					
No.	Item Description		Quantity	Unit	Un	it Price	Item Cost
103	Unclassified Street Excavation		8,594	су	\$	24.33	\$ 209,000
203	12" Asphalt (Type C)		4,680	ton	\$	139.92	\$ 655,000
303	16" Base		3,152	су	\$	66.92	\$ 211,000
403	10" Lime Stabilization (with Lime @	45#/sy)	7,617	sy	\$	7.30	\$ 56,000
503	, , , , , , , , , , , , , , , , , , , ,			\$	7.30	\$ 10,000	
603	10' Concrete Sidewalk		23,638	sf	\$	10.95	\$ 259,000
703	Machine Laid Curb & Gutter		4,728	lf	\$	36.50	\$ 173,000
803	Turn Lanes and Median Openings		716	sy	\$	243.06	\$ 174,000
		P	aving Const	ruction C	Cost S	Subtotal:	\$ 1,747,000
Majo	or Construction Component Allowa	nces**:					
	Item Description	Notes			Alle	owance	Item Cost
	Traffic Control	Construction Phase	Traffic Control			5%	\$ 87,000
	Pavement Markings/Signs/Posts	Includes Striping/Sig	ns for Shared Pa	ths		2%	\$ 35,000
	Roadway Drainage	Standard Internal Sys	stem			30%	\$ 524,000
	Illumination					10%	\$ 175,000
	Special Drainage Structures	None Anticipated					\$ -
	Water	Minor Adjustments				2%	\$ 35,000
	Sewer	Minor Adjustments				2%	\$ 35,000
	Turf and Erosion Control					4%	\$ 70,000
	Landscaping and Irrigation					2%	\$ 35,000
	Miscellaneous:					0%	\$ -
**Allo	wances based on % of Paving Construction Co	st Subtotal		Allowa	nce S	Subtotal:	\$ 996,000
		•	Paving an	d Allowa	nce S	Subtotal:	\$ 2,743,000
		Constr	uction Conti	ngency:		15%	\$ 411,000
			Mob	ilization		8%	\$ 219,000
			Pro	ep ROW		4%	\$ 110,000
			Constru	ction C	ost	TOTAL:	\$ 3,500,000

Impact Fee Project Cost Sun Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 3,500,000
Engineering/Survey/Testing:		16%	\$ 560,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	Existing Alignment	\$20/s.f.	\$ 567,000
	Impact Fee Project (	Cost TOTAL:	\$ 4,600,000

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

# 2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. C-19

Name: Red Bud Ln (9) This project consists of the reconstruction of Limits: 340' S of Forest Creek Dr to Gattis Sclexisting pavement to a 4 lane divided arterial.

Impact Fee Class: 4 Lane - Enhanced
Ultimate Class: 4 Lane - Enhanced

Length (If): 3,735 Service Area(s): C

# Roadway Construction Cost Projection Construction Cost TOTAL: \$ 15,998,701

Impact Fee Project Cost Sun	nmary			
Item Description	Notes:		Allowance	Item Cost
Construction:	From City estimate		-	\$ 15,998,701
Engineering/Survey/Testing:			-	\$ 2,399,805
ROW/Easement Acquisition:	<b>Existing Alignment</b>		-	\$ 315,304
		<b>Overall Project</b>	<b>Cost Total:</b>	\$ 18,713,810
			ontribution:	18,713,810
		Impact Fee Pr	oject Cost:	\$ 18,713,810

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

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information:

Name:
C-20

Name:
Gattis School Rd (1)
Limits:
S Mays St to Windy Park Dr

Description:
Project No.
C-20

This project consists of the reconstruction of existing pavement to a 4 lane divided arterial.

Impact Fee Class: 6 Lane - Enhanced Ultimate Class: 6 Lane - Enhanced

Length (If): 6,472 Service Area(s): C

	Idway Construction Cost Projection	Quantity	Unit	H	nit Price		Item Cost
	•	Quantity	Oilit	0.			item oost
105	Unclassified Street Excavation	63,763	су	\$	24.33	\$	1,552,000
205	12" Asphalt (Type C)	36,072	ton	\$	139.92	\$	5,047,000
305	16" Base	24,291	су	\$	66.92	\$	1,625,000
405	10" Lime Stabilization (with Lime @ 45#/sy)	57,530	sy	\$	7.30	\$	420,000
505	Surface Treatment (0.2 gal/sy,Prime Coat AE-P)	10,931	gal	\$	7.30	\$	80,000
605	10' Concrete Sidewalk	129,443	sf	\$	10.95	\$	1,417,000
705	Machine Laid Curb & Gutter	25,889	lf	\$	36.50	\$	945,000
805	Turn Lanes and Median Openings	3,923	sy	\$	243.06	\$	953,000
805	1 9	Paving Const		Ψ		<b>¢</b>	1

Paving Construction Cost Subtotal: \$ 12,039,000

		•		, ,
Мај	or Construction Component Allowa	ances**:		
	Item Description	Notes	Allowance	Item Cost
V	Traffic Control	Construction Phase Traffic Control	5%	\$ 602,000
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Shared Paths	2%	\$ 241,000
	Roadway Drainage	Standard Internal System	30%	\$ 3,612,000
	Illumination		10%	\$ 1,204,000
	Special Drainage Structures	None Anticipated		\$ -
	Water	Minor Adjustments	2%	\$ 241,000
	Sewer	Minor Adjustments	2%	\$ 241,000
	Turf and Erosion Control		4%	\$ 482,000
	Landscaping and Irrigation		2%	\$ 241,000
	Miscellaneous:		0%	\$ -
**Allo	wances based on % of Paving Construction C	ost Subtotal Allowa	nce Subtotal:	\$ 6,864,000
		Paving and Allowa		\$ 18,903,000
		Construction Contingency:	15%	\$ 2,835,000
		Mobilization	8%	\$ 1,512,000
		Prep ROW	4%	\$ 756,000
		Construction C	ost TOTAL:	\$ 24,100,000

<b>Impact Fee Project Cost Sum</b>	mary		
Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 24,100,000
Engineering/Survey/Testing:		16%	\$ 3,856,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	Existing Alignment	\$20/s.f.	\$ 3,883,000
	Impact Fee Project C	ost TOTAL:	\$ 31,800,000

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

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information:

Name:
C-21

Name:
Gattis School Rd (2)
Limits:

Description:
Project No.
C-21

This project consists of the reconstruction of existing pavement to a 6 lane divided arterial.

Impact Fee Class: 6 Lane - Enhanced Ultimate Class: 6 Lane - Enhanced

Length (If): 14,904 Service Area(s): C

Roa	dway Construction Cost Projection					
No.	Item Description	Quantity	Unit	Uı	nit Price	Item Cost
105	Unclassified Street Excavation	146,834	су	\$	24.33	\$ 3,573,000
205	12" Asphalt (Type C)	83,066	ton	\$	139.92	\$ 11,622,000
305	16" Base	55,937	су	\$	66.92	\$ 3,743,000
405	10" Lime Stabilization (with Lime @ 45#/sy)	132,482	sy	\$	7.30	\$ 967,000
505	Surface Treatment (0.2 gal/sy,Prime Coat AE-P)	25,172	gal	\$	7.30	\$ 184,000
605	10' Concrete Sidewalk	298,084	sf	\$	10.95	\$ 3,264,000
705	Machine Laid Curb & Gutter	59,617	lf	\$	36.50	\$ 2,176,000
805	Turn Lanes and Median Openings	9,033	sy	\$	243.06	\$ 2,196,000
		Paving Const	ruction (	Cost	Subtotal:	\$ 27,725,000

Taking Constitution Cost Custotian \$ 21,120,00

Maj	or Construction Component Allowa	ances**:		
	Item Description	Notes	Allowance	Item Cost
	Traffic Control	Construction Phase Traffic Control	5%	\$ 1,386,000
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Shared Paths	2%	\$ 555,000
	Roadway Drainage	Standard Internal System	30%	\$ 8,318,000
	Illumination		10%	\$ 2,773,000
	Special Drainage Structures	Bridge Crossing		\$ 5,900,000
	Water	Minor Adjustments	2%	\$ 555,000
	Sewer	Minor Adjustments	2%	\$ 555,000
	Turf and Erosion Control		4%	\$ 1,109,000
	Landscaping and Irrigation		2%	\$ 555,000
	Miscellaneous:		0%	\$ -
**Allo	wances based on % of Paving Construction Co	ost Subtotal Allowa	nce Subtotal:	\$ 21,706,000
		Paving and Allowa	nce Subtotal:	\$ 49,431,000
		Construction Contingency:	15%	\$ 7,415,000
		Mobilization	8%	\$ 3,954,000
		Prep ROW		1,977,000
		Construction C	ost TOTAL:	\$ 62,800,000

<b>Impact Fee Project Cost Sum</b>	mary		
Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 62,800,000
Engineering/Survey/Testing:		16%	\$ 10,048,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	Existing Alignment	\$20/s.f.	\$ 8,943,000
	Impact Fee Project C	ost TOTAL:	\$ 81,800,000

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

# City of Round Rock 2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. C-22

Name: S Mays St / Dell Way This project consists of the construction of a median

Limits: Gattis School Rd to Greenlawn Blvd in the existing center turn lane.

Impact Fee Class: 4 Lane - Enhanced (AM)
4 Lane - Enhanced (AM)
4 Lane - Enhanced (AM)

Length (If): 6,565 Service Area(s): C

No.	Item Description	Quantity	Unit	Ur	nit Price	Item Cost
104	Unclassified Street Excavation	12,320	су	\$	24.33	\$ 300,000
204	Asphalt (Type C)	0	ton	\$	139.92	\$ -
304	Base	0	су	\$	66.92	\$ -
404	Lime Stabilization (with Lime @ 45#/sy)	0	sy	\$	7.30	\$ -
504	Surface Treatment (0.2 gal/sy,Prime Coat AE-P)	0	gal	\$	7.30	\$ -
604	Concrete Sidewalk	0	sf	\$	10.95	\$ -
704	Machine Laid Curb & Gutter	13,131	lf	\$	36.50	\$ 479,000
804	Turn Lanes and Median Openings	3,979	sy	\$	243.06	\$ 967,000
		Paving Const	ruction (	Cost	Subtotal:	\$ 1,746,000

Majo	or Construction Component Allowa	ances**:		
	Item Description	Notes	Unit Price	Item Cost
	Traffic Control	Assume 6 months to Construct	\$2,500 / MO	\$ 15,000
	Pavement Markings/Signs/Posts	4 signs / 1000', 1/2 Length mrkgs (\$1.50/LF)	\$750	\$ 25,000
	Roadway Drainage	None Anticipated	0%	\$ -
	Street Lighting	1 Assem / 100', \$15/LF cond/cndr	\$2,800	\$ 282,000
	Special Drainage Structures	None Anticipated		\$ -
	Utilities	Minor Adjustments	\$1,000 / STA	\$ 13,000
	ADA Ramps & Requirements	4 ramps / 600'	\$2,200	\$ 96,000
	Landscaping and Irrigation	Grass, Trees, Restoration, E/S Controls	\$10 / SY	\$ 310,000
**Allo	wances based on % of Paving Construction Co	ost Subtotal Allowa	ance Subtotal:	\$ 741,000
		Paving and Allowa	ance Subtotal:	\$ 2,487,000
		Construction Contingency:	15%	\$ 373,000
		Mobilization	5%	\$ 124,000
		Prep ROW	\$3,000 / STA	\$ 20,000
ĺ		Construction C	ost TOTAL:	\$ 3,100,000

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 3,100,000
Engineering/Survey/Testing:		16%	\$ 496,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	No ROW Acquisition Costs included		\$

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

## 2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

**Project Information:** Description: C-23 Project No. Name: Kenney Fort Blvd (3) This project consists of the construction Limits: 830' S of Gattis School Rd to SH 45 of a new 6 lane divided arterial.

Impact Fee Class: 6 Lane - Proposed **Ultimate Class:** 6 Lane - Proposed

Length (If): 2,178 Service Area(s): С

Roa	dway Construction Cost Projection					
No.	Item Description	Quantity	Unit	Uı	nit Price	Item Cost
108	Unclassified Street Excavation	21,458	су	\$	24.33	\$ 522,000
208	5" Asphalt (Type C)	12,139	ton	\$	139.92	\$ 1,698,000
308	10" Base	8,175	су	\$	66.92	\$ 547,000
408	10" Lime Stabilization (with Lime @ 45#/sy)	19,361	sy	\$	7.30	\$ 141,000
508	Surface Treatment (0.2 gal/sy,Prime Coat AE-P)	3,679	gal	\$	7.30	\$ 27,000
608	10' Concrete Sidewalk	43,562	sf	\$	10.95	\$ 477,000
708	Machine Laid Curb & Gutter	8,712	lf	\$	36.50	\$ 318,000
808	Turn Lanes and Median Openings	1,320	sy	\$	243.06	\$ 321,000
		Paving Const	ruction (	Cost	Subtotal:	\$ 4,051,000

		•	.,,		
Maj	or Construction Component Allowa	ınces**:			
	Item Description	Notes	Allowance		Item Cost
	Traffic Control	None Anticipated	0%	\$	-
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Shared Paths	2%	\$	81,000
	Roadway Drainage	Standard Internal System	30%	\$	1,215,000
	Illumination		10%	\$	405,000
	Special Drainage Structures	None Anticipated		\$	-
	Water	Minor Adjustments	2%	\$	81,000
	Sewer	Minor Adjustments	2%	\$	81,000
	Turf and Erosion Control		4%	\$	162,000
	Landscaping and Irrigation		2%	\$	81,000
	Miscellaneous:		0%	\$	-
**Allo	wances based on % of Paving Construction Co	ost Subtotal Allowa	ınce Subtotal:	\$	2,106,000
		Paving and Allowa	ince Subtotal:	\$	6,157,000
		Construction Contingency:	15%	\$	924,000
		Mobilization	8%	\$	493,000
		Prep ROW	4%	\$	246,000
		Construction C	ost TOTAL:	\$	7,900,000

Impact Fee Project Cost Sum			
Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 7,900,000
Engineering/Survey/Testing:		16%	\$ 1,264,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	New Roadway Alignment	\$10/s.f.	\$ 3,267,000
	\$ 12,400,000		

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

# 2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information:

Name:

Greenlawn Blvd

Limits:

IH 35 NBFR to SH 45 EBFR

Impact Fee Class:

C-24

This project consists of the reconstruction of existing pavement with one third of a 6 lane divided arterial.

Ultimate Class: 6 Lane - Enhanced (1/3)

Length (If): 5,351 Service Area(s): C

Roadway Construction Cost Projection		
	Construction Cost TOTAL:	\$ 11,429,000

Impact Fee Project Cost Summary							
Item Description	Notes:		Allowance		Item Cost		
Construction:	From City estimate		-	\$	11,429,000		
Engineering/Survey/Testing:			16%	\$	1,828,640		
ROW/Easement Acquisition:	Existing Alignment		\$20/s.f.	\$	3,211,000		
		Overall Project	Cost Total:	\$	16,468,640		
		City Co	ontribution:	\$	16,468,640		
		Impact Fee Pr			16,468,640		

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

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. C-26

Name: Schultz (1) This project consists of the reconstruction of Limits: SH 45 EBFR to 290' S of SH 45 EBFR existing pavement to a 4 lane divided arterial.

Impact Fee Class: 4 Lane - Enhanced
Ultimate Class: 4 Lane - Enhanced

Length (If): 291 Service Area(s): C

Roa	adway Construction Cost Pro	jection						
No.	Item Description		Quantity	Unit	Uı	nit Price		Item Cost
103	Unclassified Street Excavation		2,113	су	\$	24.33	\$	51,000
203	12" Asphalt (Type C)		1,151	ton	\$	139.92	\$	161,000
303	16" Base		775	су	\$	66.92	\$	52,000
403	10" Lime Stabilization (with Lime @	45#/sy)	1,872	sy	\$	7.30	\$	14,000
503	Surface Treatment (0.2 gal/sy,Prime	Coat AE-P)	349	gal	\$	7.30	\$	3,000
603	03 10' Concrete Sidewalk			sf	\$	10.95	\$	64,000
703				lf	\$	36.50	\$	42,000
803	Turn Lanes and Median Openings 176 sy					243.06	\$	43,000
	Paving Construction Cost Subtotal:							
Major Construction Component Allowances**:								
	Item Description Notes Allowa					lowance		Item Cost
	Traffic Control	Construction Phase	Traffic Control			5%	\$	22,000
	Pavement Markings/Signs/Posts	Includes Striping/Sig	ns for Shared Pa	ths		2%	\$	9,000
	Roadway Drainage	Standard Internal Sys	stem			30%	\$	129,000
	Illumination					10%	\$	43,000
	Special Drainage Structures	None Anticipated					\$	-
	Water	Minor Adjustments				2%	\$	9,000
	Sewer	Minor Adjustments				2%	\$	9,000
	Turf and Erosion Control					4%	\$	17,000
	Landscaping and Irrigation					2%	\$	9,000
	Miscellaneous:					0%	\$	-
**Allo	wances based on % of Paving Construction Co	ost Subtotal		Allowa	nce	Subtotal:	\$	247,000
			Paving an			Subtotal:	\$	677,000
		Constr	ruction Conti	ngency:		15%	\$	102,000
			Mob	ilization		8%	\$	54,000
			Pre	ep ROW		4%	\$	27,000
			Constru	ction C	ost	TOTAL:	\$	900,000

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 900,000
Engineering/Survey/Testing:		16%	\$ 144,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	Existing Alignment	\$20/s.f.	\$ 139,000

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

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. C-27

Name: Schultz (2) This project consists of the

Limits: 290' S of SH 45 EBFR to 255' S of Autumn Sage Wireconstruction of existing pavement to a

Impact Fee Class: 4 Lane - Enhanced 4 lane divided arterial.

Ultimate Class: 4 Lane - Enhanced

Length (If): 2,637 Service Area(s): C

Roa	adway Construction Cost Pro	jection						
No.	Item Description		Quantity	Unit	Ur	nit Price		Item Cost
103	Unclassified Street Excavation		19,173	су	\$	24.33	\$	467,000
203	12" Asphalt (Type C)		10,441	ton	\$	139.92	\$	1,461,000
303	16" Base		7,031	су	\$	66.92	\$	470,000
403	10" Lime Stabilization (with Lime @	45#/sy)	16,992	sy	\$	7.30	\$	124,000
503	Surface Treatment (0.2 gal/sy,Prime	Coat AE-P)	3,164	gal	\$	7.30	\$	23,000
603	10' Concrete Sidewalk		52,734	sf	\$	10.95	\$	577,000
703	Machine Laid Curb & Gutter		10,547	lf	\$	36.50	\$	385,000
803	03 Turn Lanes and Median Openings 1,598 sy					243.06	\$	388,000
	Paving Construction Cost Subtotal:							3,895,000
Major Construction Component Allowances**:								
	Item Description Notes				All	owance		Item Cost
V	Traffic Control	Construction Phase Traffic Control				5%		195,000
	Pavement Markings/Signs/Posts	Includes Striping/Sig	ns for Shared Pa	ths		2%		78,000
	Roadway Drainage	Standard Internal Sys	stem			30%	*	1,169,000
	Illumination					10%	\$	390,000
	Special Drainage Structures	None Anticipated					\$	-
	Water	Minor Adjustments				2%	\$	78,000
	Sewer	Minor Adjustments				2%	\$	78,000
	Turf and Erosion Control					4%	\$	156,000
	Landscaping and Irrigation					2%	\$	78,000
	Miscellaneous:					0%	\$	-
**Allo	wances based on % of Paving Construction Co	st Subtotal		Allowa	nce	Subtotal:	\$	2,222,000
			Paving an			Subtotal:	\$	6,117,000
		Constr	ruction Conti	ngency:		15%	\$	918,000
			Mob	ilization		8%	\$	489,000
			Pro	ep ROW		4%	\$	245,000
			Constru	ction C	ost	TOTAL:	\$	7,800,000

	-	\$	= 000 000
		Ψ	7,800,000
	16%	\$	1,248,000
sting Alignment	\$20/s.f.	\$	1,266,000
	<u> </u>	sting Alignment \$20/s.f.	

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

## City of Round Rock - 2023 Roadway Impact Fee Study

Capital Improvement Plan for Roadway Impact Fees Summary of Conceptual Level Project Cost Projections

#### Roadway Improvements - Service Area D

<u>#</u>	<u>IF Class</u>	<u>Project</u>	<u>Type</u>			Percent in Service Area	Service Area Projet		tal Cost in rvice Area
				<u>From</u>	<u>To</u>				
D-1		CR 107	New	CR 107	University Blvd	50%	\$	3,940,000	\$ 1,970,000
D-2	4 Lane - Enhanced	University Blvd (6)	Widening	Kenney Fort Blvd	SH 130	100%	\$	8,500,000	\$ 8,500,000
D-3	4 Lane - Proposed	CR 118	Widening	University Blvd	Avery Nelson Pkwy	100%	\$	7,800,000	\$ 7,800,000
D-4	4 Lane - Enhanced	Avery Nelson Pkwy (3)	Widening	Kenney Fort Blvd	CR 110	100%	\$	10,200,000	\$ 10,200,000
D-5	4 Lane - Existing	Avery Nelson Pkwy (4)	Widening	CR 110	5015' E of CR 110	100%	\$	12,000,000	\$ 12,000,000
D-6	4 Lane - Proposed	CR 118	Widening	Carmel Creekside Dr	Ed Schmidt Blvd	100%	\$	1,960,000	\$ 1,960,000
B-27, D-7	6 Lane - Proposed	Kenney Fort Blvd (1)	New	CR 117	125' N of Haselwood Ln	100%	\$	15,018,951	\$ 15,018,951
D-8	4 Lane - Proposed	Kenney Fort Blvd (6)	Widening	125' N of Haselwood Ln	200' N of Bluffstone Dr	50%	\$	15,018,951	\$ 7,509,476
B-28, D-9	6 Lane - Proposed	Kenney Fort Blvd (7)	New	200' N of Bluffstone Dr	Old Settlers Blvd	100%	\$	9,173,038	\$ 9,173,038
B-39, D-10	6 Lane - Proposed	Kenney Fort Blvd (2)	New	Old Settlers Blvd	2540' S of Old Settler's Blvd	100%	\$	5,000,000	\$ 5,000,000
B-40, D-11	6 Lane - Proposed (1/2)	Kenney Fort Blvd (3)	Previously Constructed	2540' S of Old Settler's Blvd	4625' N of Chandler Creek Blvd	50%	\$	4,900,000	\$ 2,450,000
B-41, D-12	6 Lane - Proposed	Kenney Fort Blvd (4)	Previously Constructed	4625' N of Chandler Creek Blvd	3115' N of Chandler Creek Blvd	100%	\$	10,700,000	\$ 10,700,000
B-41, D-13	6 Lane - Proposed	Kenney Fort Blvd (8)	New	3115' N of Chandler Creek Blvd	Chandler Creek Blvd	100%	\$	3,700,000	\$ 3,700,000
B-42, D-14	6 Lane - Proposed	Kenney Fort Blvd (5)	New	Chandler Creek Blvd	Joe DiMaggio Blvd	100%	\$	9,600,000	\$ 9,600,000
D-15	4 Lane - Proposed	Red Bud Ln (1)	New	Guadalajara St	160' N of Margarita Loop	100%	\$	7,300,000	\$ 7,300,000
D-16	4 Lane - Enhanced (1/2)	Red Bud Ln (2)	(1/2) Widening	160' N of Margarita Loop	CR 117	50%	\$	5,600,000	\$ 2,800,000
D-17	4 Lane - Enhanced (1/2)	Red Bud Ln (3)	(1/2) Widening	CR 117	Old Settlers Blvd	100%	\$	4,700,000	\$ 4,700,000
D-18	4 Lane - Enhanced	Red Bud Ln (4)	Widening	Old Settlers Blvd	170' N of Joseph St	100%	\$	8,486,565	\$ 8,486,565
D-19	4 Lane - Enhanced	Red Bud Ln (5)	Widening	170' N of Joseph St	160' S of Covered Wagon Trl	50%	\$	3,446,574	\$ 1,723,287
D-20	4 Lane - Enhanced	Red Bud Ln (6)	Widening	160' S of Covered Wagon Trl	US 79	100%	\$	7,711,173	\$ 7,711,173
D-21	4 Lane - Enhanced	CR 122 (1)	Widening	Red Bud Ln	230' SW of Rosalina Loop	100%	\$	13,671,273	\$ 13,671,273
D-22	3 Lane - Proposed	CR 122 (2)	Widening	230' SW of Rosalina Loop	100' S of Emilia Ln	50%	\$	2,472,664	\$ 1,236,332
D-23	3 Lane - Proposed	CR 122 (3)	Widening	100' S of Emilia Ln	100' S of Rosalina Loop	100%	\$	1,106,506	\$ 1,106,506
D-24	3 Lane - Proposed	CR 122 (4)	Widening	100' S of Rosalina Loop	100' S of Penelope Ct	50%	\$	3,430,613	\$ 1,715,306
D-25	4 Lane - Proposed	Old Settlers Blvd	Widening	Red Bud Ln	CR 110	100%	\$	20,155,000	\$ 20,155,000

TOTAL \$ 195,591,307 \$ 176,186,906

### City of Round Rock - 2023 Roadway Impact Fee Study

Capital Improvement Plan for Roadway Impact Fees Summary of Conceptual Level Project Cost Projections

#### Intersection Improvements - Service Area D

#	Project	1 1	Project Cost	Total Cost in			
<u>#</u>	FIOJECT	Improvement 1	Improvement 2	Service Area	Project Cost	Service Area	
-	Update ITS and Traffic Managmenet Infrastructure			25%	\$ 20,900,000	\$ 5,225,000	
				TOTAL	£ 20,000,000	Ф F 22F 000	

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

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

**Project Information: D-1** Description: Project No.

Name: CR 107 This project consists of the construction of a new 4 Limits: CR 107 to University Blvd lane divided secondary arterial.

Impact Fee Class: 4 Lane - Proposed **Ultimate Class:** 4 Lane - Proposed

Length (If): 4,249 Service Area(s): D

Roa	Roadway Construction Cost Projection									
No.	Item Description	Quantity	Unit	Uı	nit Price		Item Cost			
102	Unclassified Street Excavation	30,895	су	\$	24.33	\$	752,000			
202	12" Asphalt (Type C)	16,825	ton	\$	139.92	\$	2,354,000			
302	16" Base	11,330	су	\$	66.92	\$	758,000			
402	10" Lime Stabilization (with Lime @ 45#/sy)	27,380	sy	\$	7.30	\$	200,000			
502	Surface Treatment (0.2 gal/sy,Prime Coat AE-P)	5,098	gal	\$	7.30	\$	37,000			
602	10' Concrete Sidewalk	105,600	sf	\$	10.95	\$	1,156,000			
702	Machine Laid Curb & Gutter	16,995	lf	\$	36.50	\$	620,000			
802	Turn Lanes and Median Openings	2,575	sy	\$	243.06	\$	626,000			
	Paving Construction Cost Subtotal: \$									

		_								
Major Construction Component Allowances**:										
	Item Description	Notes	Allowance		Item Cost					
	Traffic Control	None Anticipated	0%	\$	-					
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Shared Paths	2%	\$	130,000					
	Roadway Drainage	Standard Internal System	30%	\$	1,951,000					
	√ Illumination 10%				650,000					
	Special Drainage Structures	None Anticipated	None Anticipated							
	Water	Minor Adjustments	2%	\$	130,000					
	Sewer	Minor Adjustments	2%	\$	130,000					
	Turf and Erosion Control		4%	\$	260,000					
	Landscaping and Irrigation		2%	\$	130,000					
	Miscellaneous:		0%	\$	-					
**Allo	wances based on % of Paving Construction Co	ost Subtotal Allowa	ınce Subtotal:	\$	3,381,000					
		Paving and Allowa	nce Subtotal:	\$	9,884,000					
		Construction Contingency:	15%	\$	1,483,000					
		Mobilization		\$	791,000					
		Prep ROW	4%	\$	395,000					
		Construction C	ost TOTAL:	\$	12,600,000					

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 12,600,000
Engineering/Survey/Testing:		16%	\$ 2,016,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	TxDOT Roadway	\$10/s.f.	\$ 5,098,000
Impact Fo	\$ 3,940,000		

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

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information:

Name:
University Blvd (6)
Limits:
Kenney Fort Blvd to SH 130
Impact Fee Class:
Ultimate Class:

University Blvd (6)
This project consists of the reconstruction of the existing pavement to a 4 lane divided secondary arterial.

Ultimate Class:

University Blvd (6)

This project No.

Project No.

D-2

This project No.

A lane divided secondary arterial.

Length (If): 1,679
Service Area(s): D

Roa	Roadway Construction Cost Projection								
No.	Item Description		Quantity	Unit	Uı	nit Price		Item Cost	
103	Unclassified Street Excavation		12,212	су	\$	24.33	\$	297,000	
203	12" Asphalt (Type C)		6,650	ton	\$	139.92	\$	930,000	
303	16" Base		4,478	су	\$	66.92	\$	300,000	
403	10" Lime Stabilization (with Lime @	45#/sy)	10,823	sy	\$	7.30	\$	79,000	
503	Surface Treatment (0.2 gal/sy,Prime	2,015	gal	\$	7.30	\$	15,000		
603	03 10' Concrete Sidewalk			sf	\$	10.95	\$	1,156,000	
703	03 Machine Laid Curb & Gutter 6,718 If					36.50	\$	245,000	
803	Turn Lanes and Median Openings		1,018	sy	\$	243.06	\$	247,000	
	Paving Construction Cost Subtotal:								
Majo	Major Construction Component Allowances**:								
	Item Description	Notes Allowan						Item Cost	
	Traffic Control	Construction Phase Traffic Control				5%	\$	163,000	
	Pavement Markings/Signs/Posts	Includes Striping/Sign	ns for Shared Pa	ths		2%		65,000	
	Roadway Drainage	Standard Internal Sys	stem			30%	\$	981,000	
	Illumination					10%	\$	327,000	
	Special Drainage Structures	None Anticipated					\$	-	
	Water	Minor Adjustments				2%	\$	65,000	
	Sewer	Minor Adjustments				2%	\$	65,000	
	Turf and Erosion Control					4%	\$	131,000	
	Landscaping and Irrigation					2%	\$	65,000	
	Miscellaneous:					0%	\$	-	
**Allo	wances based on % of Paving Construction Co	st Subtotal		Allowa	ınce	Subtotal:	\$	1,862,000	
			Paving an	d Allowa	ınce	Subtotal:	\$	5,131,000	
		Constr	uction Conti	ngency:		15%	\$	770,000	
			Mob	ilization		8%	\$	410,000	
			Pre	ep ROW		4%	\$	205,000	
			Constru	ction C	ost	TOTAL:	\$	6,600,000	

Construction:			Item Cost
Constituction.		-	\$ 6,600,000
Engineering/Survey/Testing:		16%	\$ 1,056,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	Existing Alignment	\$20/s.f.	\$ 806,000

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

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information:

Name:

CR 118

University Blvd to Avery Nelson Pkwy
Impact Fee Class:
Ultimate Class:

Ultimate Class:

Description:

Project No.

D-3

This project consists of the reconstruction of the existing pavement to a 4 lane divided secondary arterial.

Length (If): 1,489
Service Area(s): D

Roadway Construction Cost Projection								
No.	Item Description	-	Quantity	Unit	Ur	nit Price		Item Cost
102	Unclassified Street Excavation		10,830	су	\$	24.33	\$	264,000
202	12" Asphalt (Type C)		5,898	ton	\$	139.92	\$	825,000
302	16" Base		3,972	су	\$	66.92	\$	266,000
402	10" Lime Stabilization (with Lime @	45#/sy)	9,598	sy	\$	7.30	\$	70,000
502	Surface Treatment (0.2 gal/sy,Prime	Coat AE-P)	1,787	gal	\$	7.30	\$	13,000
602	02 10' Concrete Sidewalk			sf	\$	10.95	\$	1,156,000
702	02 Machine Laid Curb & Gutter 5,958 If					36.50	\$	217,000
802	Turn Lanes and Median Openings		903	sy	\$	243.06	\$	219,000
	\$	3,030,000						
Majo	Major Construction Component Allowances**:							
	Item Description	Notes				owance		Item Cost
	Traffic Control	Construction Phase Traffic Control				5%	-	152,000
	Pavement Markings/Signs/Posts	Includes Striping/Sign	ns for Shared Pa	ths		2%	\$	61,000
$\sqrt{}$	Roadway Drainage	Standard Internal Sys	stem			30%		909,000
	Illumination					10%	\$	303,000
	Special Drainage Structures	None Anticipated					\$	-
	Water	Minor Adjustments				2%	\$	61,000
	Sewer	Minor Adjustments				2%	\$	61,000
	Turf and Erosion Control					4%	\$	121,000
	Landscaping and Irrigation					2%	\$	61,000
	Miscellaneous:					0%	\$	-
**Allo	wances based on % of Paving Construction Co	ost Subtotal		Allowa	nce	Subtotal:	\$	1,729,000
			Paving an		nce		\$	4,759,000
		Constr	uction Conti			15%	\$	714,000
				ilization		8%	\$	381,000
				ep ROW		4%	\$	190,000
			Constru	ction C	ost	TOTAL:	\$	6,100,000

Item Description	Notes:	Allowance		Item Cost			
Construction:		-	\$	6,100,000			
Engineering/Survey/Testing:		16%	\$	976,000			
Previous City contribution							
Other							
ROW/Easement Acquisition:	Existing Alignment	\$20/s.f.	\$	715,000			
	Impact Fee Project Cost TOTAL:						

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

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information:

Name:

Avery Nelson Pkwy (3)

Limits:

Impact Fee Class:

Ultimate Class:

Description:

Project No.

D-4

This project consists of the reconstruction of the existing pavement to a 4 lane divided secondary arterial.

Length (If): 2,255 Service Area(s): D

	Roadway Construction Cost Projection							
	Item Description		Quantity	Unit	Ut	nit Price		Item Cost
103	Unclassified Street Excavation		16,395	су	\$	24.33	\$	399,000
203	12" Asphalt (Type C)		8,929	ton	\$	139.92	\$	1,249,000
303	16" Base		6,013	су	\$	66.92	\$	402,000
403	10" Lime Stabilization (with Lime @ 4		14,530	sy	\$	7.30	\$	106,000
503	Surface Treatment (0.2 gal/sy,Prime	Coat AE-P)	2,706	gal	\$	7.30	\$	20,000
603				sf If	\$	10.95	\$	1,156,000
703	Machine Laid Curb & Gutter				\$	36.50	\$	329,000
803	Turn Lanes and Median Openings	1,366 sy				243.06	\$	332,000
	\$	3,993,000						
Majo	or Construction Component Allowa	nces**:						
	Item Description	Notes			All	owance		Item Cost
	Traffic Control	Construction Phase Traffic Control				5%	\$	200,000
	Pavement Markings/Signs/Posts	Includes Striping/Sig	ns for Shared Pa	ths		2%	\$	80,000
	Roadway Drainage	Standard Internal Sys	stem			30%	\$	1,198,000
	Illumination					10%	\$	399,000
	Special Drainage Structures	None Anticipated					\$	-
	Water	Minor Adjustments				2%	\$	80,000
	Sewer	Minor Adjustments				2%	\$	80,000
	Turf and Erosion Control					4%	\$	160,000
	Landscaping and Irrigation					2%	\$	80,000
	Miscellaneous:					0%	•	-
**Allo	wances based on % of Paving Construction Co	st Subtotal		Allowa	nce	Subtotal:	\$	2,277,000
			Paving an	d Allowa	nce	Subtotal:	\$	6,270,000
		Constr	ruction Conti	ngency:		15%	\$	941,000
Construction Contingency: 15% Mobilization 8%								

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 8,000,000
Engineering/Survey/Testing:			\$ 1,110,119
Previous City contribution			
Other			
ROW/Easement Acquisition:	Existing Alignment	\$20/s.f.	\$ 1,082,000

Prep ROW

**Construction Cost TOTAL:** 

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

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

251,000

8,000,000

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information:

Name:

Avery Nelson Pkwy (4)

Limits:

CR 110 to 5015' E of CR 110

A Lane - Existing

Description:

Project No.

This project consists of the reconstruction of the existing pavement to a 4 lane divided secondary arterial.

Ultimate Class: 4 Lane - Existing

Length (If): 2,728
Service Area(s): D

	dway Construction Cost Pro	jection							
	Item Description		Quantity	Unit		nit Price		Item Cost	
112	Unclassified Street Excavation		19,837	су	\$	24.33	\$	483,000	
212	12" Asphalt (Type C)		10,803	ton	\$	139.92	\$	1,512,000	
312	16" Base		7,275	су	\$	66.92	\$	487,000	
412	10" Lime Stabilization (with Lime @		17,581	sy	\$	7.30	\$	128,000	
512	12 Surface Treatment (0.2 gal/sy,Prime Coat AE-P)			gal	\$	7.30	\$	24,000	
612	12 10' Concrete Sidewalk			sf	\$	10.95	\$	1,156,000	
712	Machine Laid Curb & Gutter		10,912	lf	\$	36.50	\$	398,000	
812	Turn Lanes and Median Openings	1,653 sy			\$	243.06	\$	402,000	
	\$	4,590,000							
Major Construction Component Allowances**:									
	Item Description	Notes			All	owance		Item Cost	
V	Traffic Control	Construction Phase Traffic Control				5%	\$	230,000	
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Shared Paths				2%	\$	92,000	
	Roadway Drainage	Standard Internal Sy	stem			30%	\$	1,377,000	
	Illumination					10%	\$	459,000	
	Special Drainage Structures	None Anticipated					\$	-	
	Water	Minor Adjustments				2%	\$	92,000	
	Sewer	Minor Adjustments				2%	\$	92,000	
	Turf and Erosion Control					4%	\$	184,000	
	Landscaping and Irrigation					2%	\$	92,000	
	Miscellaneous:					0%	\$	-	
**Allo	wances based on % of Paving Construction Co	st Subtotal		Allowa	nce	Subtotal:	\$	2,618,000	
			Paving an	d Allowa	nce	Subtotal:	\$	7,208,000	
		Consti	ruction Conti	ngency:		15%	\$	1,081,000	
				ilization	_	8%	\$	577,000	
			_		-			•	

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 9,200,000
Engineering/Survey/Testing:		16%	\$ 1,472,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	Existing Alignment	\$20/s.f.	\$ 1,309,000

Prep ROW

**Construction Cost TOTAL:** 

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

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

\$

288,000

9,200,000

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information:

Description:

Project No.

D-6

Name:

CR 118

Carmel Creekside Dr to Ed Schmidt Blexisting pavement to a 4 lane divided secondary language arterial.

Ultimate Class: 4 Lane - Proposed

Length (If): 2,091 Service Area(s): D

Roa	adway Construction Cost Pro	iection				Roadway Construction Cost Projection									
	Item Description	•	Quantity	Unit	Ur	nit Price		Item Cost							
102	Unclassified Street Excavation		15,202	CV	\$	24.33	\$	370,000							
202	12" Asphalt (Type C)		8,279	ton	\$	139.92	\$	1,158,000							
302	16" Base		5,575	СУ	\$	66.92	\$	373,000							
402	10" Lime Stabilization (with Lime @	45#/sy)	13,473	sy	\$	7.30	\$	98,000							
502	Surface Treatment (0.2 gal/sy,Prime	Coat AE-P)	2,509	gal	\$	7.30	\$	18,000							
602	602 10' Concrete Sidewalk			sf	\$	10.95	\$	1,156,000							
702	Machine Laid Curb & Gutter	8,362 If				36.50	\$	305,000							
802	Turn Lanes and Median Openings		1,267	sy	\$	243.06	\$	308,000							
	Paving Construction Cost Subtotal:														
Major Construction Component Allowances**:															
	Item Description	Notes				lowance		Item Cost							
	Traffic Control	Construction Phase Traffic Control				5%	\$	189,000							
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Shared Paths				2%	\$	76,000							
	Roadway Drainage	Standard Internal Sys	stem			30%	\$	1,136,000							
	Illumination					10%	\$	379,000							
	Special Drainage Structures	None Anticipated					\$	-							
	Water	Minor Adjustments				2%	\$	76,000							
	Sewer	Minor Adjustments				2%	\$	76,000							
	Turf and Erosion Control					4%	\$	151,000							
	Landscaping and Irrigation					2%	\$	76,000							
	Miscellaneous:					0%	\$	-							
**Allo	wances based on % of Paving Construction Co	st Subtotal		Allowa	nce	Subtotal:	\$	2,159,000							
			Paving an	d Allowa	nce	Subtotal:		5,945,000							
		Consti	ruction Conti	ngency:		15%	\$	892,000							
			Mob	ilization		8%	\$	476,000							
			Pre	ep ROW		4%	\$	238,000							
			Constru	ction C	ost	TOTAL:	\$	7,600,000							

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 7,600,000
Engineering/Survey/Testing:		16%	\$ 1,216,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	TxDOT Roadway	\$20/s.f.	\$ 1,003,000
Impact F	ee Project Cost TOTAL (20% City	v Contribution)	\$ 1,960,000

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

# City of Round Rock Kimle

# 2018 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Kimley-Horn and Associates, Inc.

Project Information: Description: Project No. B-27, D-7

Name: Kenney Fort Blvd (1) This project consists of the construction of a new 6

Limits: CR 117 to 125' N of Haselwood Ln lane divided arterial.

Impact Fee Class: 6 Lane - Proposed
Ultimate Class: 6 Lane - Proposed

Length (If): 3,074
Service Area(s): B,D

Roadway Construction Cost Projection		
	Construction Cost TOTAL:	\$ 11,034,874

Impact Fee Project Cost Summary								
Item Description	Notes:	Allowance		Item Cost				
Construction:	From City estimate	-	\$	11,034,874				
Engineering/Survey/Testing:	From City estimate	-	\$	846,007				
ROW/Easement Acquisition:	New Roadway Alignment	-	\$	3,138,070				
	\$	15,018,951						
	City	<b>Contribution:</b>	\$	15,018,951				
		<b>Project Cost:</b>		15,018,951				

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

Kimley-Horn and Associates, Inc.

# 2018 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. B-28, D-9

Name: Kenney Fort Blvd (3) This project consists of the construction of a new 6

Limits: 200' N of Bluffstone Dr to Old Settlers lane divided arterial.

Impact Fee Class: 6 Lane - Proposed
Ultimate Class: 6 Lane - Proposed

Length (If): 1,878
Service Area(s): B,D

# Roadway Construction Cost Projection Construction Cost TOTAL: \$ 6,739,706

Impact Fee Project Cost Sun	nmary		
Item Description	Notes:	Allowance	Item Cost
Construction:	From City estimate	-	\$ 6,739,706
Engineering/Survey/Testing:	From City estimate	-	\$ 516,711
ROW/Easement Acquisition:	New Roadway Alignment	-	\$ 1,916,621
	\$ 9,173,038		
	\$ 9,173,038		
	Impact Fee Pi		9,173,038

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

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

\*Allowances based on % of Paving Construction Cost Subtotal

Project Information: Description: Project No. B-41, D-13

Name: Kenney Fort Blvd (8) This project consists of the construction of a new 6

Limits: 3115' N of Chandler Creek Blvd to Chalane divided arterial.

Impact Fee Class: 6 Lane - Proposed
Ultimate Class: 6 Lane - Proposed

Length (If): 201 Service Area(s): B,D

RO	adway Construction Cost Proj	ection						
No.	Item Description	Quantity	Unit	Ur	nit Price		Item Cost	
108	Unclassified Street Excavation		1,984	су	\$	24.33	\$	48,000
208	5" Asphalt (Type C)		1,122	ton	\$	139.92	\$	157,000
308			756	су	\$	66.92	\$	51,000
408	10" Lime Stabilization (with Lime @ 4	15#/sy)	1,790	sy	\$	7.30	\$	13,000
508	Surface Treatment (0.2 gal/sy,Prime	Coat AE-P)	340	gal	\$	7.30	\$	2,000
608	10' Concrete Sidewalk		105,600	sf	\$	10.95	\$	1,156,000
708	Machine Laid Curb & Gutter		806	lf	\$	36.50	\$	29,000
808	Turn Lanes and Median Openings		122	sy	\$	243.06	\$	30,000
		P	aving Consti	ruction (	Cost	Subtotal:	\$	1,486,000
Majo	or Construction Component Allowa							
	·							
	Item Description	Notes			All	owance		Item Cost
F	·		_		All	owance 0%	\$	Item Cost
<b>√</b>	Item Description Traffic Control Pavement Markings/Signs/Posts	Notes	ns for Shared Pa	ths	All		*	Item Cost - 30,000
	Item Description Traffic Control	Notes None Anticipated		ths	All	0%	\$	-
√,	Item Description Traffic Control Pavement Markings/Signs/Posts	Notes  None Anticipated Includes Striping/Sig		ths	All	0% 2%	\$ \$	30,000
√ √	Item Description Traffic Control Pavement Markings/Signs/Posts Roadway Drainage	Notes  None Anticipated Includes Striping/Sig		ths	All	0% 2% 30%	\$ \$	30,000 446,000
√ √	Item Description Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination	Notes  None Anticipated Includes Striping/Sig Standard Internal Sys		ths	All	0% 2% 30%	\$ \$ \$ \$	30,000 446,000
\ \ \ \	Item Description Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Special Drainage Structures	Notes  None Anticipated Includes Striping/Sig Standard Internal System None Anticipated		ths	All	0% 2% 30% 10%	99999	30,000 446,000 149,000
\ \ \ \	Item Description Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Special Drainage Structures Water	Notes  None Anticipated Includes Striping/Sig Standard Internal System None Anticipated Minor Adjustments		ths	All	0% 2% 30% 10%	\$ \$ \$ \$ \$ \$ \$ \$	30,000 446,000 149,000 - 30,000
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Item Description Traffic Control Pavement Markings/Signs/Posts Roadway Drainage Illumination Special Drainage Structures Water Sewer	Notes  None Anticipated Includes Striping/Sig Standard Internal System None Anticipated Minor Adjustments		ths	All	0% 2% 30% 10% 2% 2%	·	30,000 446,000 149,000 - 30,000 30,000

Paving and Allowa	\$ 2,260,000	
Construction Contingency:	15%	\$ 339,000
Mobilization	8%	\$ 181,000
Prep ROW	4%	\$ 90,000
Construction Const	\$ 2,900,000	

Allowance Subtotal:

Item Description	Notes:	Allowance	Item Cost
Construction:		-	\$ 2,900,000
Engineering/Survey/Testing:		16%	\$ 464,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	New Roadway Alignment	\$10/s.f.	\$ 302,000
	, ,	ject Cost TOTAL:	3,700,0

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

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

774,000

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Roadway Construction Cost Projection

4 Lane - Proposed

Project Information:

Name:

Red Bud Ln (1)

Cimits:

Guadalajara St to 160' N of Margarita Loop

Impact Fee Class:

Project No.

D-15

This project consists of widening
existing pavement with half of a 4 lane
divided arterial.

Length (If): 1,867 Service Area(s): D

**Ultimate Class:** 

No.	Item Description	Quantity	Unit	Ur	nit Price		Item Cost	
102	Unclassified Street Excavation		13,576	су	\$	24.33	\$	330,000
202	12" Asphalt (Type C)		7,393	ton	\$	139.92	\$	1,034,000
302	16" Base	4,979 cy				66.92	\$	333,000
402	10" Lime Stabilization (with Lime @	45#/sy)	12,032	sy	\$	7.30	\$	88,000
502	Surface Treatment (0.2 gal/sy,Prime	Coat AE-P)	2,240	gal	\$	7.30	\$	16,000
602	10' Concrete Sidewalk		37,340	sf	\$	10.95	\$	409,000
702	Machine Laid Curb & Gutter		7,468	lf	\$	36.50	\$	273,000
802	Turn Lanes and Median Openings		1,132	sy	\$	243.06	\$	275,000
		Р	aving Consti	ruction (	Cost	Subtotal:	\$	2,758,000
Majo	Major Construction Component Allowances**:							
	Item Description	Notes			All	owance		Item Cost
	Traffic Control	Construction Phase Traffic Control				E0/	Φ	400.000
. /		Construction i mase	Traffic Control			5%	\$	138,000
V	Pavement Markings/Signs/Posts	Includes Striping/Sign		ths		5% 2%		138,000 55,000
√ √			ns for Shared Pat	ths			\$	,
,	Pavement Markings/Signs/Posts	Includes Striping/Sign	ns for Shared Pat	ths		2%	\$	55,000
,	Pavement Markings/Signs/Posts Roadway Drainage	Includes Striping/Sign	ns for Shared Pat	ths		2% 30%	\$	55,000 827,000
,	Pavement Markings/Signs/Posts Roadway Drainage Illumination	Includes Striping/Sign Standard Internal Sys	ns for Shared Pat	ths		2% 30%	\$ \$ \$ \$	55,000 827,000
\[ \frac{1}{\sqrt{1}} \]	Pavement Markings/Signs/Posts Roadway Drainage Illumination Special Drainage Structures	Includes Striping/Sign Standard Internal Syst None Anticipated	ns for Shared Pat	ths		2% 30% 10%	\$ \$ \$ \$ \$	55,000 827,000 276,000
\[ \frac{1}{\sqrt{1}} \]	Pavement Markings/Signs/Posts Roadway Drainage Illumination Special Drainage Structures Water	Includes Striping/Sign Standard Internal Systems None Anticipated Minor Adjustments	ns for Shared Pat	ths		2% 30% 10% 2%	\$ \$ \$ \$ \$ \$ \$	55,000 827,000 276,000 - 55,000
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Pavement Markings/Signs/Posts Roadway Drainage Illumination Special Drainage Structures Water Sewer	Includes Striping/Sign Standard Internal Systems None Anticipated Minor Adjustments	ns for Shared Pat	ths		2% 30% 10% 2% 2%	\$ \$ \$ \$ \$ \$ \$ \$ \$	55,000 827,000 276,000 - 55,000 55,000
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Pavement Markings/Signs/Posts Roadway Drainage Illumination Special Drainage Structures Water Sewer Turf and Erosion Control	Includes Striping/Sign Standard Internal Systems None Anticipated Minor Adjustments	ns for Shared Pat	hs		2% 30% 10% 2% 2% 4%	8 8 8 8 8 8 8 8	55,000 827,000 276,000 - 55,000 55,000 110,000
	Pavement Markings/Signs/Posts Roadway Drainage Illumination Special Drainage Structures Water Sewer Turf and Erosion Control Landscaping and Irrigation	Includes Striping/Sign Standard Internal Systems None Anticipated Minor Adjustments Minor Adjustments	ns for Shared Pat		ınce	2% 30% 10% 2% 4% 2%	·	55,000 827,000 276,000 - 55,000 55,000 110,000
	Pavement Markings/Signs/Posts Roadway Drainage Illumination Special Drainage Structures Water Sewer Turf and Erosion Control Landscaping and Irrigation Miscellaneous:	Includes Striping/Sign Standard Internal Systems None Anticipated Minor Adjustments Minor Adjustments	ns for Shared Pat		ınce	2% 30% 10% 2% 2% 4% 2% 0%	·	55,000 827,000 276,000 - 55,000 55,000 110,000 55,000

	Notes:	Allowance	Item Cost
Construction:		-	\$ 5,500,000
Engineering/Survey/Testing:		16%	\$ 880,000
Previous City contribution			
Other			
ROW/Easement Acquisition:	Existing Alignment	\$20/s.f.	\$ 896,000

Construction Contingency:

Mobilization

Prep ROW

**Construction Cost TOTAL:** 

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

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

15% \$

8% \$

4%

\$

649,000

346,000

173,000

5,500,000

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information:

Name:

Red Bud Ln (2)

This project consists of widening existing pavement with half of a 4 lane divided arterial.

Impact Fee Class: 4 Lane - Enhanced (1/2)
Ultimate Class: 4 Lane - Enhanced (1/2)

Length (If): 1,845 Service Area(s): D

Roadway Construction Cost Projection								
No.	o. Item Description Quantity Unit Unit Price							Item Cost
101	Unclassified Street Excavation	6,708 cy \$ 24.33						163,000
201	12" Asphalt (Type C)		\$	139.92	\$	511,000		
301	1 16" Base 2,460 cy					66.92	\$	165,000
401	01 10" Lime Stabilization (with Lime @ 45#/sy)			sy	\$	7.30	\$	43,000
501	Surface Treatment (0.2 gal/sy,Prime	Coat AE-P)	1,107	gal	\$	7.30	\$	8,000
601	10' Concrete Sidewalk		36,901	sf	\$	10.95	\$	404,000
701	Machine Laid Curb & Gutter		3,690	lf	\$	36.50	\$	135,000
801	Turn Lanes and Median Openings		1,118	sy	\$	243.06	\$	272,000
		P	Paving Const	ruction (	Cost	Subtotal:	\$	1,701,000
Majo								
	Item Description Notes					owance		Item Cost
	Traffic Control	Construction Phase Traffic Control				5%	\$	85,000
	Pavement Markings/Signs/Posts	Includes Striping/Signs for Shared Paths				2%	\$	34,000
	Roadway Drainage	Standard Internal System				30%		510,000
	Illumination					10%	\$	170,000
	Special Drainage Structures	Bridge Crossing					\$	500,000
	Water	Minor Adjustments					\$	34,000
	Sewer	Minor Adjustments				2%	\$	34,000
	Turf and Erosion Control					4%	\$	68,000
	Landscaping and Irrigation					2%	\$	34,000
	Miscellaneous:					0%	\$	-
**Allo	wances based on % of Paving Construction Co	st Subtotal		Allowa	nce	Subtotal:	\$	1,469,000
			Paving an			Subtotal:	\$	3,170,000
I		Constr	ruction Conti	ngency:		15%	\$	476,000
			Mob	ilization		8%	\$	254,000
			Pre	ep ROW		4%	\$	127,000

Construction: - \$ Engineering/Survey/Testing: 16% \$ Previous City contribution	<b>4,100,000</b> 656,000	*
Previous City contribution	656.000	_
		\$
Other		
Other		
ROW/Easement Acquisition: Existing Alignment \$20/s.f. \$	886,000	\$

**Construction Cost TOTAL:** 

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

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

4,100,000

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information:

Name:

Red Bud Ln (3)

CR 117 to Old Settlers Blvd

Description:

Project No.

D-17

This project consists of the reconstruction of the existing pavement to a 4 lane divided arterial.

Impact Fee Class: 4 Lane - Enhanced (1/2)
Ultimate Class: 4 Lane - Enhanced (1/2)

Length (If): 1,788
Service Area(s): D

	adway Construction Cost Pro	o jooti o ii	Quantity	Unit	Uı	nit Price		Item Cost		
101	Unclassified Street Excavation		6,501	СУ	\$	24.33	\$	158,000		
201	12" Asphalt (Type C)		3,541 ton \$ 139.92							
301	16" Base		2,384	СУ	\$	66.92	\$	495,000 160,000		
401	10" Lime Stabilization (with Lime @	45#/sv)	5,762	sy	\$	7.30	\$	42,000		
501	, , ,				\$	7.30	\$	8,000		
601	10' Concrete Sidewalk	o oout rib i j	35.763	sf	\$	10.95	\$	392,000		
701	Machine Laid Curb & Gutter					36.50	\$	131,000		
801	Turn Lanes and Median Openings		1,084	sy	\$	243.06	\$	263,000		
001	Turri Eurico ana Median Openingo	-	Paving Const				_	1,649,000		
		•	aving conon			<b>Gubtotu</b>	•	1,010,000		
Major Construction Component Allowances**:										
Iviaj	Item Description	Notes			l All	lowance		Item Cost		
	Traffic Control		All	5%	\$					
\ /		Construction Phase Traffic Control						82,000		
√ 	Pavement Markings/Signs/Posts	Includes Striping/Signs for Shared Paths				2%	\$	33,000		
\ /	Roadway Drainage Illumination	Standard Internal Sy	/stem			30%		495,000		
V						10%	\$	165,000		
,	Special Drainage Structures	None Anticipated					<b>\$</b>	-		
<b>V</b>	Water	Minor Adjustments				2%	\$	33,000		
ν,	Sewer	Minor Adjustments				2%	\$	33,000		
ν,	Turf and Erosion Control					4%	\$	66,000		
V	Landscaping and Irrigation					2%	\$	33,000		
	Miscellaneous:					0%	\$	-		
**Allo	wances based on % of Paving Construction C	Cost Subtotal		Allowa	ınce	Subtotal:	\$	940,000		
			Paving an			Subtotal:	\$	2,589,000		
		Const	ruction Conti	ngency:		15%	\$	388,000		
			Mob	ilization		8%	\$	207,000		
			Pro	ep ROW		4%	\$	104,000		
I			Constru	ction C	ost	TOTAL:	\$	3,300,000		

O ( ( !		Allowance	i	Item Cost
Construction:		-	\$	3,300,000
Engineering/Survey/Testing:		16%	\$	528,000
Previous City contribution			l	
Other			l	
ROW/Easement Acquisition:	Existing Alignment	\$20/s.f.	\$	858,000

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

Kimley-Horn and Associates, Inc.

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. D-18

Name: Red Bud Ln (4) This project consists of the reconstruction of Limits: Old Settlers Blvd to 170' N of Joseph Sexisting pavement to a 4 lane divided arterial.

Impact Fee Class: 4 Lane - Enhanced
Ultimate Class: 4 Lane - Enhanced

Length (If): 2,356 Service Area(s): D

# Roadway Construction Cost Projection Construction Cost TOTAL: \$ 6,341,004

Impact Fee Project Cost Sun	nmary			
Item Description	Notes:		Allowance	Item Cost
Construction:	From City estimate		-	\$ 6,341,004
Engineering/Survey/Testing:			16%	\$ 1,014,561
ROW/Easement Acquisition:	Existing Alignment		\$20/s.f.	\$ 1,131,000
		<b>Overall Project</b>	Cost Total:	\$ 8,486,565
		City Co	ontribution:	\$ 8,486,565
		Impact Fee Pro	oject Cost :	\$ 8,486,565

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

Kimley-Horn and Associates, Inc.

# 2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. D-19

Name: Red Bud Ln (5) This project consists of the reconstruction of Limits: 170' N of Joseph St to 160' S of Cover existing pavement to a 4 lane divided arterial.

Impact Fee Class: 4 Lane - Enhanced
Ultimate Class: 4 Lane - Enhanced

Length (If): 957 Service Area(s): D

# Roadway Construction Cost Projection Construction Cost TOTAL: \$ 2,575,495

Impact Fee Project Cost Sum	nmary			
Item Description	Notes:		Allowance	Item Cost
Construction:	From City estimate		-	\$ 2,575,495
Engineering/Survey/Testing:			16%	\$ 412,079
ROW/Easement Acquisition:	<b>Existing Alignment</b>		\$20/s.f.	\$ 459,000
		<b>Overall Project</b>	Cost Total:	\$ 3,446,574
		City Co	ontribution:	\$ 3,446,574
		Impact Fee Pr	oject Cost:	\$ 3,446,574

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

Kimley-Horn and Associates, Inc.

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. D-20

Name: Red Bud Ln (6) This project consists of the reconstruction of Limits: This project consists of the reconstruction of 2 existing pavement to a 4 lane divided arterial.

Impact Fee Class: 4 Lane - Enhanced
Ultimate Class: 4 Lane - Enhanced

Length (If): 2,141
Service Area(s): D

# Roadway Construction Cost Projection Construction Cost TOTAL: \$ 5,761,356

Impact Fee Project Cost Sum	nmary			
Item Description	Notes:		Allowance	Item Cost
Construction:	From City estimate		-	\$ 5,761,356
Engineering/Survey/Testing:			16%	\$ 921,817
ROW/Easement Acquisition:	<b>Existing Alignment</b>		\$20/s.f.	\$ 1,028,000
		Overall Project	Cost Total:	\$ 7,711,173
		City Co	ontribution:	\$ 7,711,173
		Impact Fee Pr	oject Cost:	\$ 7,711,173

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

Kimley-Horn and Associates, Inc.

# 2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. D-21

Name: CR 122 (1) This project consists of the reconstruction of Limits: Red Bud Ln to 230' SW of Rosalina Lexisting pavement to a 3 lane divided arterial.

Impact Fee Class: 4 Lane - Enhanced
Ultimate Class: 4 Lane - Enhanced

Length (If): 2,583 Service Area(s): D

# Roadway Construction Cost Projection Construction Cost TOTAL: \$ 10,716,615

Impact Fee Project Cost Summary						
Item Description	Notes:		Allowance		Item Cost	
Construction:	From City estimate		-	\$	10,716,615	
Engineering/Survey/Testing:			16%	\$	1,714,658	
ROW/Easement Acquisition:	Existing Alignment		\$20/s.f.	\$	1,240,000	
		Overall Project Cost Total: City Contribution: Impact Fee Project Cost :		\$	13,671,273 13,671,273 13,671,273	

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

Kimley-Horn and Associates, Inc.

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. D-22

Name: CR 122 (2) This project consists of the reconstruction of Limits: 230' SW of Rosalina Loop to 100' S of existing pavement to a 3 lane divided arterial.

Impact Fee Class: 3 Lane - Proposed
Ultimate Class: 3 Lane - Proposed

Length (If): 478
Service Area(s): D

# Roadway Construction Cost Projection Construction Cost TOTAL: \$ 1,983,331

Impact Fee Project Cost Sum	nmary			
Item Description	Notes:		Allowance	Item Cost
Construction:	From City estimate		-	\$ 1,983,331
Engineering/Survey/Testing:			16%	\$ 317,333
ROW/Easement Acquisition:	<b>Existing Alignment</b>		\$20/s.f.	\$ 172,000
		Overall Project ( City Co	Cost Total: ntribution:	2,472,664 2,472,664
		Impact Fee Pro		2,472,664

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

Kimley-Horn and Associates, Inc.

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. D-23

Name: CR 122 (3) This project consists of the reconstruction of Limits: 100' S of Emilia Ln to 100' S of Rosalir existing pavement to a 3 lane divided arterial.

Impact Fee Class: 3 Lane - Proposed
Ultimate Class: 3 Lane - Proposed

Length (If): 214
Service Area(s): D

# Roadway Construction Cost Projection Construction Cost TOTAL: \$ 887,505

Impact Fee Project Cost Sum	nmary			
Item Description	Notes:		Allowance	Item Cost
Construction:			-	\$ 887,505
Engineering/Survey/Testing:			16%	\$ 142,001
ROW/Easement Acquisition:	<b>Existing Alignment</b>		\$20/s.f.	\$ 77,000
		Overall Project C		1,106,506
		City Cor	ntribution:	\$ 1,106,506
		Impact Fee Pro	ject Cost:	\$ 1,106,506

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

Kimley-Horn and Associates, Inc.

2023 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. D-24

Name: CR 122 (4) This project consists of the reconstruction of Limits: 100' S of Rosalina Loop to 100' S of Prexisting pavement to a 3 lane divided arterial.

Impact Fee Class: 3 Lane - Proposed
Ultimate Class: 3 Lane - Proposed

Length (If): 663 Service Area(s): D

# Roadway Construction Cost Projection Construction Cost TOTAL: \$ 2,751,390

Impact Fee Project Cost Sun	nmary			
Item Description	Notes:	Allowance		Item Cost
Construction:	From City estimate		\$	2,751,390
Engineering/Survey/Testing:		169	6 \$	440,222
ROW/Easement Acquisition:	<b>Existing Alignment</b>	\$20/s.	<mark>f.</mark> \$	239,000
		<b>Overall Project Cost Total</b>	: \$	3,430,613
		City Contribution	: \$	3,430,613
	Imp	oact Fee Project Cost (X%)		3,430,613

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

#### Kimley-Horn and Associates, Inc.

## **City of Round Rock**

## 2018 Roadway Impact Fee Study Conceptual Level Project Cost Projection

Project Information: Description: Project No. D-25

Name: Old Settlers Blvd This project consists of the construction of a new 4

Limits: Red Bud Ln to CR 110

Impact Fee Class: 4 Lane - Proposed
Ultimate Class: 4 Lane - Proposed

Length (If): 4,045 Service Area(s): D lane divided asphalt arterial.

# Roadway Construction Cost Projection Construction Cost TOTAL: \$ 11,431,000

Impact Fee Project Cost Sum	ımary		
Item Description	Notes:	Allowance	Item Cost
Construction:	From City estimate	-	\$ 11,431,000
Engineering/Survey/Testing:	From City estimate	-	\$ 3,870,000
ROW/Easement Acquisition:	New Roadway Alignment	\$10/s.f.	\$ 4,854,000
	Overall Projec	t Cost Total:	\$ 20,155,000
	City C	ontribution:	\$ 20,155,000
	Impact Fee F		20,155,000

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

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



Appendix B – Roadway Impact Fee CIP Service Units of Supply

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

#### Service Area A

Project ID #	ROADWAY	LIMITS	LENGTH (MI)	LANES	IMPACT FEE CLASSIFICATION	PEAK HOUR VOLUME	% IN SERVICE AREA	VEH-MI CAPACITY PK-HR PER LN	VEH-MI SUPPLY PK-HR TOTAL <sup>1</sup>	VEH-MI TOTAL DEMAND PK-HR <sup>2</sup>	EXCESS CAPACITY PK-HR VEH-MI <sup>3</sup>	TOTAL PROJECT COST	TAL PROJECT ST IN SERVICE AREA
A-1	New Hope Rd (1)	Sam Bass Rd to CR 175	1.10	4	4 Lane - Enhanced (1/2)	129	100%	810	3570	142	3,428	\$ 16,500,000	\$ 16,500,000
A-2	New Hope Rd (2)	240' W of Lagoona Dr to Flowstone Ln	0.55	4	4 Lane - Enhanced (1/2)	n/a	50%	810	891	0	891	\$ 8,200,000	\$ 4,100,000
A-3	New Hope Rd (3)	Flowstone Ln to 1000' E of Wyoming Springs Dr	0.46	4	4 Lane - Proposed	New	50%	810	751	0	751	\$ 11,100,000	\$ 5,550,000
A-4, B-1	Westinghouse Rd	IH 35 SBFR to IH 35 NBFR	0.19	6	6 Lane - Enhanced	n/a	50%	900	518	0	518	\$ 9,152,896	\$ 4,576,448
A-7	RM 1431 (1)	1100' W of Mayfield Ranch Blvd to 850' E of Stone Oak Dr	0.97	6	6 Lane - Enhanced	3177	50%	900	2627	1,546	1,081	\$ 5,180,000	\$ 2,590,000
A-8	RM 1431 (2)	850' E of Stone Oak Dr to 5195' E of Stone Oak St	0.82	6	6 Lane - Enhanced	3177	100%	900	4442	2,613	1,829	\$ 5,200,000	\$ 5,200,000
A-9	RM 1431 (3)	5195' E of Stone Oak St to IH 35 SBFR	1.34	6	6 Lane - Enhanced	3177	50%	900	3618	2,129	1,489	\$ 6,960,000	\$ 3,480,000
A-10	Wyoming Springs Dr (3)	390' N of Goldenoak Cir to Alondra Way	0.13	4	4 Lane - Enhanced (1/2)	487	100%	810	432	65	367	\$ 1,800,000	\$ 1,800,000
A-11	Eagles Nest Dr (1)	Wyoming Springs Dr to Chisholm Trl Rd (Future)	1.73	4	4 Lane - Proposed	New	100%	810	5609	0	5,609	\$ 41,600,000	\$ 41,600,000
A-12	Creek Bend Blvd (1)	RM 1431 to West End PI	0.79	4	4 Lane - Enhanced (1/2)	New	100%	810	2555	0	2,555	\$ 13,800,000	\$ 13,800,000
A-13	Creek Bend Blvd (2)	West End PI to Camino Del Verdes PI	0.14	4	4 Lane - Proposed	1809	100%	810	469	262	207	\$ 3,500,000	\$ 3,500,000
A-14	Chisholm Trl Rd (1)	RM 1431 to CR 173	0.76	4	4 Lane - Proposed	0	100%	810	2452	0	2,452	\$ 19,400,000	\$ 19,400,000
A-15, B-11	Eagles Nest Dr (2)	Chisholm Trl Rd (Future) to IH 35 NBFR	0.17	4	4 Lane - Proposed	New	100%	810	557	0	557	\$ 12,216,939	\$ 12,216,939
A-16	CR 173	IH 35 SBFR to 3250' N of Wolle Ln	0.10	5	5 Lane - Enhanced	242	100%	770	392	25	367	\$ 2,100,000	\$ 2,100,000
A-17	Chisholm Trl Rd (2)	3250' N of Wolle Ln to 1980' N of Wolle Ln	0.24	5	5 Lane - Enhanced	639	100%	770	927	154	773	\$ 5,000,000	\$ 5,000,000
A-21	Sam Bass Rd (3)	FM 3406 to Desert Willow Dr	0.35	3	3 Lane - Enhanced	664	50%	510	269	117	152	\$ 3,900,000	\$ 1,950,000
A-22	Sam Bass Rd (4)	Desert Willow Dr to Creek Bend Blvd	0.19	3	3 Lane - Enhanced	n/a	100%	510	287	0	287	\$ 2,100,000	\$ 2,100,000
A-23	Sam Bass Rd (5)	Creek Bend Blvd to Hairy Man Dr	0.21	3	3 Lane - Enhanced	664	100%	510	325	141	184	\$ 2,400,000	\$ 2,400,000
A-24	Sam Bass Rd (6)	Hairy Man Rd to Chisholm Trl Rd	1.33	3	3 Lane - Enhanced	n/a	50%	510	1015	0	1,015	\$ 14,800,000	\$ 7,400,000
A-26	Wyoming Springs Dr (4)	Sam Bass Rd to Creek Bend Blvd	0.88	4	4 Lane - Proposed	New	100%	810	2851	0	2,851	\$ 26,379,928	\$ 26,379,928
A-28	Creek Bend Blvd (3)	Brushy Creek to Wyoming Springs Dr	0.40	4	4 Lane - Enhanced	New	100%	810	1303	0	1,303	\$ 11,012,302	\$ 11,012,302
A-29	Deepwood Dr (1)	Sam Bass Rd to 345' N of RM 620	0.34	4	4 Lane - Proposed	New	100%	810	1086	0	1,086	\$ 18,900,346	\$ 18,900,346
A-30	Deepwood Dr (2)	345' N of RM 620 to RM 620	0.07	4	4 Lane - Enhanced	n/a	100%	810	212	0	212	\$ 1,400,000	\$ 1,400,000
A-31, C-1	RM 620	Deepwood Dr to IH 35 SBFR	0.93	6	6 Lane - Enhanced	2985	50%	900	2517	1,392	1,125	\$ 12,560,624	\$ 6,280,312
SUBTOTAL									39,675	8,586	31,089	\$ 255,163,035	\$ 219,236,275
Al-1	Sam Bass Rd and FM 3406	SIGNAL	-	-			100%					\$ 550,000	\$ 550,000
Al-2	Sam Bass Rd and Hairy Man Rd	INTERSECTION IMPROVEMENT	-	-	Intersection		75%					\$ 2,500,000	\$ 1,875,000
AI-3	Sam Bass Rd and Chisholm Trl Rd	TURN LANES	-	-	Improvements		100%					\$ 240,000	240,000
-	Update ITS and Traffic Managmenet Infrastructure		-	-	1		25%					\$ 20,900,000	\$ 5,225,000
SUBTOTAL		<u> </u>			·							\$ 24,190,000	\$ 7,890,000
									2023 Ro	adway Impad	ct Fee Study C	ost Per Service Area	\$ 23.750

2023 Roadway Impact Fee Study Cost Per Service Area \$

TOTAL COST IN SERVICE AREA A \$ 227,150,025

8/3/2023

Note: Mileage lengths are shown as rounded to the nearest 0.0.1. Actual calculations were performed using exact mileage length [Length (tt) / 5,280], "n/a" are roadways that were not analyzed. Most of these roadways were 2 Lane Collectors or bridges over I-35 included as intersection projects.

<sup>1.</sup> Veh-Mi Supply Pk-Hr Total = [Length (mi)] \* [Exist Lanes] \* [Veh-Mi Capacity Pk-Hr Per Ln] \* [% in Service Area]

<sup>2.</sup> Veh-Mi Demand Pk-Hr Total = [ Length (mi)] \* [PM Peak Hour Vol] \* [% In Service Area]

<sup>3.</sup> Excess Capacity Pk-Hr Veh-Mi = [Veh-Mi Supply Pk-Hr Total] - [Veh-Mi Demand Pk-Hr Total]

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

Service Area B

Project ID #	ROADWAY	LIMITS	LENGTH (MI)	LANES	IMPACT FEE CLASSIFICATION	PEAK HOUR VOLUME	% IN SERVICE AREA	VEH-MI CAPACITY PK-HR	VEH-MI SUPPLY PK-HR	VEH-MI TOTAL DEMAND	EXCESS CAPACITY PK-HR	TOTAL PROJECT COST	TOTAL PROJECT COST IN SERVICE AREA
A-4, B-1	Westinghouse Rd (1)	IH 35 SBFR to IH 35 NBFR	0.19	6	6 Lane - Enhanced	n/a	50%	PER LN 900	TOTAL <sup>1</sup> 518	PK-HR <sup>2</sup>	VEH-MI <sup>3</sup> 518	\$ 9,152,896	\$ 4,576,448
B-4	University Blvd (1)	University Oaks Blvd to 335' W of Sunrise Dr	0.19	6	6 Lane - Enhanced	1,719	100%	900	2660	847	1813	\$ 9,152,696	\$ 4,576,446
B-5	University Blvd (1)	335' W of Sunrise Dr to A.W. Grimes Blvd	2.03	6	6 Lane - Enhanced	1,751	50%	900	5472	1774	3698	\$ 53,300,000	\$ 26,650,000
B-6	University Blvd (3)	A.W. Grimes Blvd to 1830' E of A.W. Grimes Blvd	0.36	4	4 Lane - Enhanced	1,554	100%	810	1180	566	614	\$ 8,200,000	\$ 8,200,000
B-7	University Blvd (4)	1830' E of A.W. Grimes Blvd to Lunata Way	0.78	4	4 Lane - Enhanced	1,554	50%	810	1256	602	654	\$ 17,000,000	\$ 8,500,000
B-8	University Blvd (5)	Lunata Way to Kenney Fort Blvd (Future)	0.16	4	4 Lane - Enhanced	1,554	100%	810	515	247	268	\$ 4,300,000	
B-9	N Mays St (2)	350' S of University Blvd to 2000' S of University Blvd	0.31	4	4 Lane - Enhanced	n/a	100%	810	1015	0	1015	\$ 8,300,000	\$ 8,300,000
A-15. B-11	Eagles Nest (1)	Chisholm Trl Rd (Future) to IH 35 NBFR	0.08	4	4 Lane - Proposed	New	50%	810	123	0	123	\$ 12,216,939	
B-12	Eagles Nest (2)	IH 35 NBFR to Cypress Blvd	0.69	4	4 Lane - Proposed	New	100%	810	2236	0	2236	\$ 21,436,451	\$ 21,436,451
B-13	N Mays St (4)	Paloma Dr to 540' N of Steam Way	0.27	4	4 Lane - Enhanced	416	100%	810	861	110	751	\$ 5,500,000	\$ 5,500,000
B-15	Sunrise Rd (2)	Hidden Valley Dr to 325' S of Eagles Nest St	0.54	4	4 Lane - Enhanced (AM)	n/a	100%	810	1754	0	1754	\$ 1,600,000	\$ 1,600,000
B-16	Sunrise Rd (3)	325' S of Eagles Nest St to Applegate Cir	0.30	4	4 Lane - Enhanced (AM)	1,402	50%	810	484	209	275	\$ 900,000	\$ 450,000
B-17	Sunrise Rd (4)	Applegate Cir to Lake Dr	0.20	4	4 Lane - Enhanced (AM)	1,402	100%	810	659	285	374	\$ 700,000	\$ 700,000
B-18	Sunrise Rd (5)	Lake Dr to 545' S of Lake Dr	0.10	4	4 Lane - Enhanced (AM)	1,402	50%	810	167	72	95	\$ 300,000	\$ 150,000
B-19	Sunrise Rd (6)	545' S of Lake Dr to Old Settlers Blvd	0.40	4	4 Lane - Enhanced (AM)	1,402	100%	810	1287	557	730	\$ 1,200,000	\$ 1,200,000
B-21	Wallin Bradley (2)	College Park (Future) to A.W. Grimes Blvd	0.37	3	3 Lane - Proposed	0	100%	510	571	0	571	\$ 3,400,000	\$ 3,400,000
B-22	College Park (2)	Avery Nelson Rd to 1355' N of Old Settlers Blvd	0.91	4	4 Lane - Proposed	New	100%	810	2945	0	2945	\$ 21,700,000	\$ 21,700,000
B-23	Seton Pkwy	2400' N of Avery Nelson Blvd to Avery Nelson Blvd	0.45	3	3 Lane - Existing	0	100%	510	695	0	695	\$ 1,795,839	\$ 1,795,839
B-24	Medical Center Pkwy	College Park to Seton Pkwy	0.27	4	4 Lane - Proposed	New	100%	810	867	0	867	\$ 1,058,160	\$ 1,058,160
B-25	Avery Nelson Pkwy (1)	A.W. Grimes Blvd to 3580' E of A.W. Grimes Blvd	0.68	4	4 Lane - Enhanced	522	100%	810	2197	354	1843	\$ 14,000,000	\$ 14,000,000
B-26	Avery Nelson Pkwy (2)	3580' E of A.W. Grimes Blvd to Kenney Fort Blvd (Future)	0.57	4	4 Lane - Enhanced	n/a	50%	810	924	0	924	\$ 11,800,000	\$ 5,900,000
B-27, D-7	Kenney Fort Blvd (1)	CR 117 to 145' N of Haselwood Ln	0.58	6	6 Lane - Proposed	New	100%	900	3144	0	3144	\$ 15,018,951	\$ 15,018,951
B-28, D-9	Kenney Fort Blvd (3)	200' N of Bluffstone Dr to Old Settlers Blvd	0.36	6	6 Lane - Proposed	New	50%	900	960	0	960	\$ 9,173,038	\$ 9,173,038
B-31	Old Settlers Blvd (1)	N Mays St to Sunrise Rd	1.33	6	6 Lane - Enhanced (1/3)	n/a	100%	900	7204	0	7204	\$ 14,700,000	\$ 14,700,000
B-32	Old Settlers Blvd (2)	Sunrise Rd to Kenney Fort Blvd (Future)	2.26	6	6 Lane - Enhanced	n/a	100%	900	12218	0	12218	\$ 60,400,000	\$ 60,400,000
B-34	N Mays St	540' N of Steam Way to Northwest Dr	1.42	4	4 Lane - Enhanced (AM)	n/a	100%	810	4617	0	4617	\$ 3,900,000	
B-35	Sunrise Rd (7)	Old Settlers Blvd to Country Aire Dr	0.28	4	4 Lane - Enhanced (AM)	1,284	100%	810	911	361	550	\$ 800,000	\$ 800,000
B-36	FM 1460 (A.W. Grimes Blvd) (1)	Old Settlers Blvd to 375' S of Chandler Creek Blvd	0.35	6	6 Lane - Enhanced	1,888	50%	900	944	330	614	\$ 1,820,000	\$ 1,820,000
B-37	FM 1460 (A.W. Grimes Blvd) (2)	375' S of Chandler Creek Blvd to 1250' N of Tiger Trl	0.20	6	6 Lane - Enhanced	1,888	100%	900	1078	377	701	\$ 1,620,000	\$ 810,000
B-38	FM 1460 (A.W. Grimes Blvd) (3)	1250' N of Tiger Trl to US 79	1.25	6	6 Lane - Enhanced	2,168	100%	900	6749	2710	4039	\$ 6,960,000	\$ 6,960,000
B-39, D-10	Kenney Fort Blvd (4)	Old Settler's Blvd to 2540' S of Old Settler's Blvd	0.30	6	6 Lane - Proposed (1/2)	0	50%	900	801	0	801	\$ 5,000,000	\$ 5,000,000
B-40, D-11	Kenney Fort Blvd (5)	Old Settler's Blvd to 2540' S of Old Settler's Blvd	0.18	6	6 Lane - Proposed	0	100%	900	992	0	992	\$ 4,900,000	\$ 2,450,000
B-41, D-12	Kenney Fort Blvd (6)	2540' S of Old Settlers Blvd to Chandler Creek Blvd	0.36	6	6 Lane - Proposed	New	100%	900	1920	0	1920	\$ 10,700,000	\$ 10,700,000
B-42, D-14	Kenney Fort Blvd (7)	Chandler Creek Blvd to Joe DiMaggio Blvd	0.30	6	6 Lane - Enhanced	741	100%	900	1600	220	1380	\$ 9,600,000	\$ 9,600,000
B-46, C-6	US 79 (1)	IH 35 NBFR to AW Grimes	1.96	6	6 Lane - Enhanced	n/a	50%	900	5280	0	5280	\$ 16,379,383	\$ 8,189,692
B-47	US 79 (3)	200' E of Red Bud Ln to 1690' E of Red Bud Ln	0.28	6	6 Lane - Enhanced	2,936	100%	900	1521	827	694	\$ 1,600,000	\$ 800,000
B-48	Joe Dimaggio Blvd Extension	Kenney Fort Blvd to US 79	0.39	3	3 Lane - Proposed	New	100%	510	602	0	602	\$ 7,000,000	
B-49	Wallin Bradley (1)	College Park Dr to Wallin Bradley (Future)	0.84	3	3 Lane - Proposed	New	100%	510	1288	0	1288	\$ 9,800,000	\$ 9,800,000
B-50	Wallin Bradley (3)	A.W. Grimes Blvd to Kenney Fort Blvd (Future)	1.01	4	4 Lane - Proposed	New	50%	810	1630	0	1630	\$ 18,200,000 \$ 12,760,000	\$ 18,200,000
B-51, C-28 SUBTOTAL	US 79 (2)	AW Grimes to Red Bud Ln	2.63	6	6 Lane - Enhanced	n/a	50%	900	7109	0 <b>10.448</b>	7109 <b>78.506</b>	·-,,	\$ 6,380,000
BI-4, CI-8	A.W. Grimes Blvd and Palm Vallev Blvd	OTHER & TURN LANES	ı		Interception	1	50%		88,954	10,448	78,506	\$ 440,112,489 \$ 2,141,000	
DI-4, UI-0	Update ITS and Traffic Management Infrastructure	OTHER & TURN LAINES	-		Intersection Improvements		25%				-	\$ 2,141,000 \$ 20,900,000	, , , , , , , ,
SUBTOTAL	opuate 115 and Trainic Managmenet Infrastructure	•	-		improvements	l	20%	l				\$ 20,900,000	\$ 5,225,000 \$ <b>6,295,500</b>

<sup>2023</sup> Roadway Impact Fee Study Cost Per Service Area \$

TOTAL COST IN SERVICE AREA B \$ 360,767,130

Note: Mileage lengths are shown as rounded to the nearest 0.01. Actual calculations were performed using exact mileage length [Length (ft) / 5,280]. "n/a" are roadways that were not analyzed. Most of these roadways were 2 Lane Collectors or bridges over i-35 included as intersection projects.

<sup>1.</sup> Veh-Mi Supply Pk-Hr Total = [Length (mi)] \* [Exist Lanes] \* [Veh-Mi Capacity Pk-Hr Per Ln] \* [% in Service Area]

<sup>2.</sup> Veh-Mi Demand Pk-Hr Total = [ Length (mi)] \* [PM Peak Hour Vol] \* [% In Service Area]

<sup>3.</sup> Excess Capacity Pk-Hr Veh-Mi = [Veh-Mi Supply Pk-Hr Total] - [Veh-Mi Demand Pk-Hr Total]

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

#### Service Area C

SUBTOTAL

VEH-MI VEH-MI VEH-MI EXCESS PEAK % IN TOTAL PROJECT ENGT IMPACT FEE CAPACITY SUPPLY TOTAL CAPACITY TOTAL PROJECT Project ID # ROADWAY LIMITS ANE HOUR SERVICE COST IN CLASSIFICATION PK-HR (MI) PK-HR PK-HR DEMAND COST VOLUME AREA SERVICE AREA PER LN TOTAL PK-HR<sup>2</sup> VEH-MI<sup>3</sup> A-31, C-1 RM 620 50% Deepwood Dr to IH 35 SBFR 0.93 6 6 Lane - Enhanced New 900 2517 2,517 12,560,624 6,280,312 0 C-3 CR 172 (2) Hesters Crossing Rd to 445' N of Hesters Crossing Rd 0.08 4 4 Lane - Enhanced 1624 50% 810 137 68 69 1,800,000 900.000 C-4 Hesters Crossing Rd Dry Creek Dr to IH 35 SBFR 0.32 4 4 Lane - Enhanced (AM) 1577 100% 810 1038 505 533 900.000 900.000 C-5 Bratton Ln IH 35 SBFR to 1160' S of Michael Angelo Way 0.42 4 Lane - Enhanced 50% 810 680 49 631 4,350,000 4 233 8.700.000 \$ B-46, C-6 US 79 (1) IH 35 NBFR to 200' E of Red Bud Ln 1.96 6 6 Lane - Enhanced New 50% 900 5281 0 5281 16,379,383 8,189,692 C-7 McNeil Extension S Mays St to Georgetown St 0.52 3 3 Lane - Existing 589 100% 510 792 305 487 4,799,620 4.799.620 C-8 S Mays St Nash St to Gattis School Rd 0.69 4 4 Lane - Enhanced (AM) 1469 100% 810 2244 1017 1227 2.000.000 \$ 2.000.000 Kenney Fort Blvd (2) C-10 Forest Creek Dr to 830' S of Gattis School Rd 1.04 6 6 Lane - Proposed New 100% 900 5640 0 5640 40.800.000 \$ 40.800.000 Red Bud Ln (1) Forest Ridge Blvd to 265' S of Forest Ridge Blvd 0.05 C-11 4 4 Lane - Enhanced (AM) 1702 50% 810 81 43 38 200.000 100.000 C-12 Red Bud Ln (2) 265' S of Forest Ridge Blvd to 280' S of Woodlawn Ln 0.11 4 Lane - Enhanced 1702 100% 810 347 182 165 2,200,000 2,200,000 C-13 170 Red Bud Ln (3) 280' S of Woodlawn Ln to 130' S of Old Oaks Dr 0.10 4 4 Lane - Enhanced 1702 50% 810 89 81 2,200,000 1.100.000 C-14 Red Bud Ln (4) 130' S of Old Oaks Dr to 315' S of Country Dr 0.11 4 4 Lane - Enhanced 1702 100% 810 344 181 163 2.200.000 \$ 2.200.000 \$ C-15 Red Bud Ln (5) 315' S of Country Dr to Wildflower Trl 0.10 4 4 Lane - Enhanced 1702 50% 810 169 89 80 2,200,000 \$ 1,100,000 C-16 Red Bud Ln (6) 180 1,200,000 Wildflower Trl to 295' S of Wildflower Trl 0.06 1702 100% 810 95 85 1.200.000 4 4 Lane - Enhanced C-17 Red Bud Ln (7) 295' S of Wildflower Trl to 840' N of Forest Creek Dr 1702 892 469 13,100,000 0.55 4 4 Lane - Enhanced 50% 810 423 6.550.000 C-18 Red Bud Ln (8) 840' N of Forest Creek Dr to 340' S of Forest Creek Dr 0.22 4 4 Lane - Enhanced 1702 100% 810 725 381 344 4.600.000 4.600.000 C-19 Red Bud Ln (9) 340' S of Forest Creek Dr to Gattis School Rd 0.71 4 4 Lane - Enhanced 1360 50% 810 1146 481 665 18.713.810 \$ 9,356,905 C-20 Gattis School Rd (1) S Mays St to Windy Park Dr 1.23 6 6 Lane - Enhanced 1675 100% 900 6619 2053 4566 31,800,000 \$ 31,800,000 C-21 Gattis School Rd (2) Windy Park Dr to Red Bud Ln 2.82 2119 100% 900 15243 5981 9262 81.800.000 6 6 Lane - Enhanced 81.800.000 \$ C-22 S Mays St / Dell Way Gattis School Rd to Greenlawn Blvd 1.24 100% 810 4029 4 4 Lane - Enhanced (AM) 648 806 3223 3,600,000 3.600.000 C-23 830' S of Gattis School Rd to SH 45 0.41 100% 900 2228 2228 12.400.000 Kenney Fort Blvd (3) 6 6 Lane - Proposed 0 0 12,400,000 C-24 Greenlawn Blvd IH 35 NBFR to SH 45 EBFR 1.86 6 6 Lane - Enhanced (1/3) 1229 100% 900 10064 2290 7774 16,468,640 \$ 16,468,640 C-26 Schultz (1) SH 45 EBFR to 290' S of SH 45 EBFR 1.45 4 4 Lane - Enhanced 462 100% 810 4688 669 4019 1,200,000 \$ 1.200.000 C-27 Schultz (2) 290' S of SH 45 EBFR to 255' S of Autumn Sage Way 0.50 4 4 Lane - Enhanced 462 50% 810 809 115 694 10.300.000 \$ 5.150.000 B-51, C-28 US 79 (2) AW Grimes to Red Bud Ln 2.63 6 6 Lane - Enhanced New 50% 900 7110 0 7110 12.760.000 \$ 6,380,000 SUBTOTAL 73,499 15.868 57.631 \$ 304 882 077 \$ 255.425.168 CI-5 Mays St and Liberty Ave SIGNAL 100% 550,000 \$ 550,000 CI-7 Greenlawn Blvd and Louis Henna Blvd (SH 45 FR) OTHER 100% 848.000 \$ 848 000 Intersection OTHER & TURN LANES BI-4, CI-8 A.W. Grimes Blvd and Palm Valley Blvd 50% 2.141.000 1,070,500 Improvements CI-10 Red Bud Ln and Gattis School Rd TURN LANES 100% 1,773,000 1,773,000

2023 Roadway Impact Fee Study Cost Per Service Area \$

25%

TOTAL COST IN SERVICE AREA C \$ 264,915,418

20.900.000 \$

26.212.000 \$

5 225 000

9.466.500

23,750

8/3/2023

Update ITS and Traffic Managmenet Infrastructure

Note: Mileage lengths are shown as rounded to the nearest 0.01. Actual calculations were performed using exact mileage length [Length (tt) / 5,280], "n/a" are roadways that were not analyzed. Most of these roadways were 2 Lane Collectors or bridges over I-35 included as intersection projects.

<sup>1.</sup> Veh-Mi Supply Pk-Hr Total = [Length (mi)] \* [Exist Lanes] \* [Veh-Mi Capacity Pk-Hr Per Ln] \* [% in Service Area]

<sup>2.</sup> Veh-Mi Demand Pk-Hr Total = [ Length (mi)] \* [PM Peak Hour Vol] \* [% In Service Area]

 $<sup>3.\</sup> Excess\ Capacity\ Pk-Hr\ Veh-Mi=[Veh-Mi\ Supply\ Pk-Hr\ Total]-[Veh-Mi\ Demand\ Pk-Hr\ Total]$ 

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

Service Area D

Project ID#	ROADWAY	LIMITS	LENGTH (MI)	LANES	IMPACT FEE CLASSIFICATION	PEAK HOUR VOLUME	% IN SERVICE AREA	VEH-MI CAPACITY PK-HR PER LN	VEH-MI SUPPLY PK-HR TOTAL <sup>1</sup>	VEH-MI TOTAL DEMAND PK-HR <sup>2</sup>	EXCESS CAPACITY PK-HR VEH-MI <sup>3</sup>	TOTAL PROJECT COST	TAL PROJECT ST IN SERVICE AREA
D-1	CR 107	CR 107 to University Blvd	0.34	4	4 Lane - Proposed	New	50%	810	552	0	552	\$ 3,940,000	\$ 1,970,000
D-2	University Blvd (6)	Kenney Fort Blvd to SH 130	2.44	4	4 Lane - Enhanced	n/a	100%	810	7900	0	7900	\$ 8,500,000	\$ 8,500,000
D-3	CR 118	University Blvd to Avery Nelson Pkwy	1.14	4	4 Lane - Proposed	0	100%	810	3703	0	3703	\$ 7,800,000	7,800,000
D-4	Avery Nelson Pkwy (3)	Kenney Fort Blvd to CR 110	1.11	4	4 Lane - Enhanced	New	100%	810	3597	0	3597	\$ 10,200,000	\$ 10,200,000
D-5	Avery Nelson Pkwy (4)	CR 110 to 5015' E of CR 110	0.95	4	4 Lane - Existing	0	100%	810	3077	0	3077	\$ 12,000,000	\$ 12,000,000
D-6	CR 118	Carmel Creekside Dr to Ed Schmidt Blvd	1.08	4	4 Lane - Proposed	New	100%	810	3484	0	3484	\$ 1,960,000	\$ 1,960,000
B-27, D-7	Kenney Fort Blvd (1)	CR 117 to 125' N of Haselwood Ln	0.58	6	6 Lane - Proposed	New	100%	900	3144	0	3144	\$ 15,018,951	\$ 15,018,951
D-8	Kenney Fort Blvd (6)	125' N of Haselwood Ln to 200' N of Bluffstone Dr	0.12	4	4 Lane - Proposed	New	50%	810	198	0	198	\$ 15,018,951	\$ 7,509,476
B-28, D-9	Kenney Fort Blvd (7)	200' N of Bluffstone Dr to Old Settlers Blvd	0.36	6	6 Lane - Proposed	New	100%	900	1920	0	1920	\$ 9,173,038	\$ 9,173,038
B-39, D-10	Kenney Fort Blvd (2)	Old Settlers Blvd to 2540' S of Old Settler's Blvd	0.30	6	6 Lane - Proposed	0	100%	900	1601	0	1601	\$ 5,000,000	\$ 5,000,000
B-40, D-11	Kenney Fort Blvd (3)	2540' S of Old Settler's Blvd to 4625' N of Chandler Creek Blvd	0.18	6	6 Lane - Proposed (1/2)	0	50%	900	496	0	496	\$ 4,900,000	\$ 2,450,000
B-41, D-12	Kenney Fort Blvd (4)	325' N of Chandler Creek Blvd to 3115' N of Chandler Creek Blv	0.36	6	6 Lane - Proposed	0	100%	900	1920	0	1920	\$ 10,700,000	\$ 10,700,000
B-41, D-13	Kenney Fort Blvd (8)	3115' N of Chandler Creek Blvd to Chandler Creek Blvd	0.59	6	6 Lane - Proposed	New	100%	900	3204	0	3204	\$ 3,700,000	\$ 3,700,000
B-42, D-14	Kenney Fort Blvd (5)	Chandler Creek Blvd to Joe DiMaggio Blvd	0.30	6	6 Lane - Proposed	741	100%	900	1600	220	1380	\$ 9,600,000	\$ 9,600,000
D-15	Red Bud Ln (1)	Guadalajara St to 160' N of Margarita Loop	0.35	4	4 Lane - Proposed	1,215	100%	810	1146	430	716	\$ 7,300,000	\$ 7,300,000
D-16	Red Bud Ln (2)	160' N of Margarita Loop to CR 117	0.35	4	4 Lane - Enhanced (1/2)	1,215	50%	810	566	212	354	\$ 5,600,000	\$ 2,800,000
D-17	Red Bud Ln (3)	CR 117 to Old Settlers Blvd	0.34	4	4 Lane - Enhanced (1/2)	n/a	100%	810	1097	0	1097	\$ 4,700,000	\$ 4,700,000
D-18	Red Bud Ln (4)	Old Settlers Blvd to 170' N of Joseph St	0.45	4	4 Lane - Enhanced	1,525	100%	810	1446	681	765	\$ 8,486,565	\$ 8,486,565
D-19	Red Bud Ln (5)	170' N of Joseph St to 160' S of Covered Wagon Trl	0.18	4	4 Lane - Enhanced	1,525	50%	810	294	138	156	\$ 3,446,574	\$ 1,723,287
D-20	Red Bud Ln (6)	160' S of Covered Wagon Trl to US 79	0.41	4	4 Lane - Enhanced	1,525	100%	810	1314	618	696	\$ 7,711,173	\$ 7,711,173
D-21	CR 122 (1)	Red Bud Ln to 230' SW of Rosalina Loop	0.49	4	4 Lane - Enhanced	0	100%	810	1585	0	1585	\$ 13,671,273	\$ 13,671,273
D-22	CR 122 (2)	230' SW of Rosalina Loop to 100' S of Emilia Ln	0.09	3	3 Lane - Proposed	n/a	50%	510	69	0	69	\$ 2,472,664	\$ 1,236,332
D-23	CR 122 (3)	100' S of Emilia Ln to 100' S of Rosalina Loop	0.04	3	3 Lane - Proposed	n/a	100%	510	62	0	62	\$ 1,106,506	\$ 1,106,506
D-24	CR 122 (4)	100' S of Rosalina Loop to 100' S of Penelope Ct	0.13	3	3 Lane - Proposed	0	50%	510	96	0	96	\$ 3,430,613	\$ 1,715,306
D-25	Old Settlers Blvd	Red Bud Ln to CR 110	0.77	4	4 Lane - Proposed	New	100%	810	2482	0	2482	\$ 20,155,000	\$ 20,155,000
SUBTOTAL		_			•				46,553	2,299	44,254	195,591,307	76,186,906
-	Update ITS and Traffic Managmenet Infrastructure	-	-	-	Intersection		25%					\$ 20,900,000	\$ 5,225,000
SUBTOTAL	·	_			•			Ť				\$ 20,900,000	\$ 5,225,000

2023 Roadway Impact Fee Study Cost Per Service Area \$

23,750

TOTAL COST IN SERVICE AREA D \$ 181,435,656

Note: Mileage lengths are shown as rounded to the nearest 0.01. Actual calculations were performed using exact mileage length [Length (ft) / 5,280]. "n/a" are roadways that were not analyzed. Most of these roadways were 2 Lane Collectors or bridges over I-35 included as intersection projects.

<sup>1.</sup> Veh-Mi Supply Pk-Hr Total = [Length (mi)] \* [Exist Lanes] \* [Veh-Mi Capacity Pk-Hr Per Ln] \* [% in Service Area]

<sup>2.</sup> Veh-Mi Demand Pk-Hr Total = [ Length (mi)] \* [PM Peak Hour Vol] \* [% In Service Area]

<sup>3.</sup> Excess Capacity Pk-Hr Veh-Mi = [Veh-Mi Supply Pk-Hr Total] - [Veh-Mi Demand Pk-Hr Total]



## Appendix C – Existing Facilities Inventory

#### City of Round Rock - 2023 Roadway Impact Fee Study **Existing Roadway Facilities Inventory**

FUTURE

LANES

2U

4D

4D

4D

4D

2U

4D

4D

4D

4D

4D

5U

611

4D

4D

4D

6D

6D

6D

6D

6D

6D

6D

6U

6U

4D

6D

4D

4D

4D

4D

**PEAK** 

HOUR

VOL NR/FR SR/W

0

n/a

n/a

n/a

n/a

n/a

n/a

n/a

100%

100%

50%

100%

100%

100%

50%

100%

50%

770

770

410

770

810

410

410

510

810

770

770

410

770

810

410

410

510

810

182

17

113

429

116

77

272

58

119

12,618

182

113

429

116

77

272

115

119

12,834

182

17

6,061

6,687 6,952 3,084 2,977

0

0

13,639

182

678

911

536

0

261

334

27

261

554

554

842

263

n/a

73

717

244

n/a

Ω

319

n/a

0

1,556

1,556

1.556

0

1.293

1,293

1,787

n/a

0

0

0

n/a

n/a

n/a

n/a

n/a

n/a

n/a

CLASS

2 Lane - Existing

2 Lane - Existing

3 Lane - Enhanced

5 Lane - Enhanced

5 Lane - Enhanced

3 Lane - Enhanced

4 Lane - Enhanced

4 Lane - Enhanced

4 Lane - Enhanced

4 Lane - Enhanced

4 Lane - Enhanced

4 Lane - Enhanced

4 Lane - Existing

4 Lane - Existing

4 Lane - Existing

4 Lane - Existing

6 Lane - Enhanced

4 Lane - Existing

4 Lane - Existing

4 Lane - Proposed

6 Lane - Enhanced

6 Lane - Existing

6 Lane - Existing

6 Lane - Existing

6 Lane - Existing

6 Lane - Existing

4 Lane - Enhanced

6 Lane - Enhanced

4 Lane - Enhanced

3 Lane - Enhanced

3 Lane - Enhanced

4 Lane - Enhanced

4 Lane - Existing

LENGTH

(mi)

0.45

0.43

0.35

0.24

0.10

0.21

0.59

0.49

0.79

0.13

0.07

1.10

0.54

0.33

0.38

0.12

0.19

0.64

0.13

0.14

1.06

0.97

0.82

0.13

0.76

0.17

0.61

0.92

0.10

0.08

0.01

0.55

0.28

0.07

0.19

1.33

0.11

0.15

2

2

2

3

2

2

3

2

2

2

EXIST

NR/FR SR/WR

EXIST

LANES

2U

2U

2U

2U

2U

2U

2U

211

2U

2U

4D

4D

4D

5U

511

4D

4D

2U

5U

5U

5U

511

5U

6D

6D

6D

6U

6U

2U

5U

4D

2U

2U

3U

4D

4U

2U

LENGTH

2,364

2,282

1,853

1,272

538

1.121

3.112

2.608

4 164

703

346

5,817

2,877

1,719

1.998

609

1 014

3,372

688

764

5,606

5,137

4.343

661

4,013

910

3,198

4,882

541

416

28

2.903

1.470

379

991

7.007

597

776

83,080

Service Area A ROADWAY

Chisholm Trl Rd

Hairy Man Rd

am Bass Rd

Chisholm Trl Rd

Sam Bass Rd

am Bass Rd

Sam Bass Rd

eepwood Dr

ew Hope Dr

Sam Bass Rd

Westinghouse Rd

hisholm Trl Rd

Old Settlers Blvd

RM 1431

RM 1431

RM 1431

RM 620

FM 620

FM 620

FM 620

US 79

M 620

FM 1431

RM 1431

New Hope D

Sam Bass Rd

am Bass Rd

am Bass Rd

SUBTOTAL

Wyomina Sprinas Dr

/yoming Springs Di

Wyoming Springs Dr

reek Bend Blvd/Bright Wa

reek Rend Rlvd

Wyoming Springs Dr

Wyoming Springs Dr

reek Bend Blvd/Bright Wat Sam Bass Rd

creek Bend Blvd/Bright Wat FM 3406

R 173

FROM

Sam Bass Rd

FM 3406

IH 35 SBFR

West End PI

Creek Bend Blvd

Creek Bend Blvd

350' N of RM 620

300' S of Falcon Dr

Sam Bass Rd

Chisholm Tr

IH 35 SRER

Goldenoak Cir

Eagles Nest Dr

IH 35 SBFR

Deepwood Di

Chisholm Trl

IH 35 SBFR

IH 35 SBFR

Goldenoak Cir.

Hairy Man Rd

Cloud Peak Ln

Wonder Dr

Camino Del Verdes PI

195' E of Stone Oak St

850' E of Stone Oak Dr

445' S of Smyers Ln

Wyoming Springs Dr

Chisholm Trl Rd (Future)

240' W of Lagoona Dr

1470' W of IH 35 SBFR

75' E of Desert Willow Dr

3250' N of Wolle Ln

700' E of Hairy Man Rd

Deepwood Dr (Future)

390' N of Goldenoak Cir

то

75' E of Desert Willow Dr

eepwood Dr (Future)

amino Del Verdes Pl

240' W of Lagoona Dr

1470' W of IH 35 SBFR

5195' E of Stone Oak St

1980' N of Wolle Ln

3250' N of Wolle Ln

RM 620

Sam Bass Rd

Hairy Man Rd

Nonder Dr

Alondra Way

Hairy Man Ro

Sam Bass Rd

IH 35 SBFR

IH 35 NRFR

FM 3406

FM 3406

CR 173

IH 35 NBFR

IH 35 SBFR

Deepwood Dr

IH 35 NBFR

H 35 NBFR

Flowstone Lane

Creek Bend Blvd

hisholm Trl Rd

300' S of Falcon Dr

hisholm Trl

390' N of Goldenoak Cir

IH 35 SBFR

IH 35 SBFR

Chisholm Trl Rd

Wyoming Springs Dr

1100' W of Mayfield Ranch 850' E of Stone Oak Dr

RM 620

											8/3/202
M	% IN	VEI	H-MI	VEI	I-MI	VEI	H-MI	EXC	CESS	EXIS	TING
AK	SERVICE	CAP	ACITY	SUF	PLY	DEN	IAND	CAP	ACITY	DEFICI	ENCIES
UR	AREA	PK	-HR	PK	-HR	PK	-HR	PK	-HR	PK	-HR
DL		PER	R LN	TOT	ΓAL <sup>1</sup>	TOT	ΓAL <sup>2</sup>	VE	I-MI <sup>3</sup>	VEH	I-MI <sup>4</sup>
SB/WB		NB/EB	SB/WB	NB/EB	SB/WB	NB/EB	SB/WB	NB/EB	SB/WB	NB/EB	SB/WB
408	100%	410	410	184	184	240	183	-56	1	56	
0	50%	410	410	89	89	0	0	89	89		
403	50%	410	410	72	72	46	71	26	1		
305	100%	410	410	99	99	80	73	18	25		
215	100%	410	410	42	42	3	22	39	20		
403	100%	410	410	87	87	55	86	32	1		
554	100%	410	410	242	242	327	327	-85	-85	85	85
554	100%	410	410	203	203	274	274	-71	-71	71	71
967	100%	410	410	323	323	664	763	-341	-439	341	439
224	100%	410	410	55	55	35	30	20	25		
n/a	100%	410	410	27	27						
56	100%	410	410	452	452	80	62	371	390		
886	100%	810	810	883	883	347	483	536	400		
376	100%	810	810	528	528	233	122	294	405		
319	100%	810	810	613	613	92	121	521	492		
n/a	100%	770	770	178	178						
0	50%	770	770	148	222	0	0	148	222		
186	100%	810	810	1,035	1,035	204	119	831	916		
n/a	100%	810	810	211	211						
0	100%	410	410	59	59	0	0	59	59		
1,621	50%	680	680	722	722	826	861	-104	-139	104	139
1,621	50%	770	770	749	749	757	789	-8	-39	8	39
1,621	100%	770	770	1,267	1,267	1,280	1,333	-13	-67	13	67
0	50%	770	770	96	96	0	0	96	96		
1,692	50%	770	770	585	585	491	643	94	-58		58
1,692	50%	770	770	133	133	111	146	21	-13		13
1,476	50%	900	900	818	818	541	447	276	371		
n/a	50%	900	900	1,248	1,248						
0	50%	900	900	92	184	0	0	92	184		

Note: Mileage lengths are shown as rounded to the nearest 0.01. Actual calculations were performed using exact mileage length (Length (ft) / 5,280]. "n/a" are roadways that were not analyzed. Most of these roadways were 2 Lane Collectors or bridges over I-35 included as intersection projects.

<sup>1.</sup> Veh-Mi Supply Pk-Hr Total = [Length (mi)] \* [Exist Lanes] \* [Veh-Mi Capacity Pk-Hr Per Ln] \* [% in Service Area]

<sup>2.</sup> Veh-Mi Demand Pk-Hr Total = [ Length (mi)] \* [PM Peak Hour Vol] \* [% In Service Area]

<sup>3.</sup> Excess Capacity Pk-Hr Veh-Mi = [Veh-Mi Supply Pk-Hr Total] - [Veh-Mi Demand Pk-Hr Total]

<sup>4.</sup> Existing Deficiencies Pk-Hr Veh-Mi = [Veh-Mi Demand Pk-Hr Total] - [Veh-Mi Supply Pk-Hr Total]

#### City of Round Rock - 2023 Roadway Impact Fee Study Existing Roadway Facilities Inventory

Service Area B

ROADWAY	FROM	то	LENGTH (ft)	LENGTH (mi)		IIST NES	EXIST LANES	CLASS	FUTURE LANES	но	PM EAK DUR OL	% IN SERVICE AREA	CAP.	H-MI ACITY (-HR R LN	VEI SUF PK TO	PPLY -HR	DEN PK	H-MI MAND (-HR TAL <sup>2</sup>	CAP. PK	CESS ACITY -HR H-MI <sup>3</sup>		
					NB/EB	SB/WB					SB/WB		NB/EB		NB/EB	SB/WB		SB/WB				
Eagles Nest St	Sunrise Rd	Settlement Dr	3,109	0.59	2	2	2U	2 Lane - Existing	2U	n/a	n/a	100%	410	410	483	483						
Settlement Dr	Gulf Way	Old Settlers Blvd	4,819	0.91	2	2	2U	2 Lane - Existing	2U	n/a	n/a	100%	410	410	748	748						
Settlement Dr	Eagles Nest St	Gulf Way	1,438	0.27	2	2	2U	2 Lane - Existing	2U	0	0	100%	410	410	223	223	0	0	223	223		
Eagles Nest St	University Blvd	Settlement Dr	4,508	0.85	2	2	2U	2 Lane - Existing	2U	0	0	100%	410	410	700	700	0	0	700	700		<b></b>
Bowman Rd	IH 35 NBFR	Onion Creek Village Dr	582	0.11	1	1	2U	2 Lane - Existing	2U	0	0	100%	410	410	45	45	0	0	45	45		
Bowman Rd Bowman Rd	Onion Creek Village Dr	N Mays St Sunset Dr	390 6.159	0.07 1.17	1	1	2U 3U	2 Lane - Existing	2U 3U	n/a n/a	n/a n/a	100% 100%	410 510	410 510	30 595	30 595						
Avery Nelson	N Mays St Settlement Dr	740' E of Cisco Trl	3.411	0.65	2	2	2U	2 Lane - Existing 2 Lane - Existing	2U	n/a 0	n/a 0	100%	410	410	530	530	0	0	530	530		
Spur 379 (N Mays St)	Northwest Dr	US 79	651	0.65	2	2	4D	2 Lane - Existing	4D	475	698	100%	810	810	200	200	59	86	141	114		
Red Bud Ln	160' S of Covered Wagon	US 79	2,141	0.41	1	1	2U	4 Lane - Enhanced	4D	771	754	100%	410	410	166	166	313	306	-146	-139	146	139
Sunrise Rd	Bowman Rd	US 79	4.485	0.85	2	2	4U	4 Lane - Enhanced	4U	469	515	100%	680	680	1,155	1,155	398	437	757	718	1.10	100
Sunrise Rd	Old Settlers Blvd	Country Aire Dr	1,485	0.28	2	2	5U	4 Lane - Enhanced	4D	630	654	100%	770	770	433	433	177	184	256	249		
Sunrise Rd	545' S of Lake Dr	Old Settlers Blvd	2,098	0.40	2	2	5U	4 Lane - Enhanced	4D	678	724	100%	770	770	612	612	269	288	342	324		
Sunrise Rd	Hidden Valley Dr	Eagles Nest St	2,533	0.48	2	2	5U	4 Lane - Enhanced	4D	n/a	n/a	100%	770	770	739	739						·
N Mays St	Old Settlers Blvd	Bowman Rd	3,589	0.68	2	2	5U	4 Lane - Enhanced	4D	n/a	n/a	100%	770	770	1,047	1,047						
N Mays St	Paloma Dr	540' N of Steam Way	1,402	0.27	1	2	3U	4 Lane - Enhanced	4D	173	243	100%	510	510	135	271	46	65	90	206		
Red Bud Ln	CR 117	Old Settlers Blvd	1,788	0.34	1	1	2U	4 Lane - Enhanced	4D	679	536	100%	410	410	139	139	230	182	-91	-43	91	43
N Mays St	Bowman Rd	Northwest Dr	2,112	0.40	2	2	5U	4 Lane - Enhanced	4D	650	1,041	100%	770	770	616	616	260	416	356	200		
College Park	Satellite View	Avery Nelson Blvd	3,948	0.75	1	1	2U	4 Lane - Enhanced	4D	173	275	100%	410	410	307	307	129	206	177	101	05	45
Red Bud Ln N Mays St	Guadalajara St 350' S of University Blvd	160' N of Margarita Loop	1,867	0.35	1	1	2U	4 Lane - Enhanced	4D	679	536	100%	410	410	145	145	240	190	-95	-45	95	45
Teravista Pkwy	Oakmont Dr	2000' S of University Blvd Centerbrook Pl	1,655 1.062	0.31	2	2	3U 4D	4 Lane - Enhanced 4 Lane - Enhanced	4D 4D	n/a n/a	n/a n/a	100% 50%	510 810	510 810	160 163	160 163		<b> </b>	<b> </b>	<b> </b>		r
N Mays St	540' N of Steam Way	Old Settlers Blvd	1,062	0.20	2	2	5U	4 Lane - Enhanced 4 Lane - Enhanced	4D 4D	n/a n/a	n/a n/a	100%	770	770	532	532						
Eagles Nest	Cypress Blvd	Sunrise Rd	1,520	0.29	2	2	4D	4 Lane - Existing	4D	n/a	n/a	100%	810	810	466	466						
Joe Dimaggio Blvd	Kenney Fort Blyd	US 79	1,512	0.29	2	2	5U	4 Lane - Existing	5U	0	0	100%	770	770	441	441	0	0	441	441		
Old Settlers Blvd	Kenney Fort Blvd (Future)	Red Bud Ln	5,795	1.10	2	2	4D	4 Lane - Existing	4D	1,033	582	100%	810	810	1,778	1,778	1,134	639	644	1,139		
N Mays St	Teravista Pkwy	University Blvd	3,301	0.63	2	2	4D	4 Lane - Existing	4D	368	346	100%	810	810	1,013	1,013	230	216	783	797		
Bass Pro Dr	IH 35 NBFR	Oakmont Dr	1,800	0.34	2	2	4D	4 Lane - Existing	4D	448	399	100%	810	810	552	552	153	136	400	416		·
Teravista Pkwy	Centerbrook PI	350' S of Aosta Ln	1,461	0.28	2	2	4U	4 Lane - Existing	4U	630	489	50%	680	680	188	188	87	68	101	120		
Westinghouse Rd	IH 35 SBFR	IH 35 NBFR	1,014	0.19	2	3	5U	6 Lane - Enhanced	6U	0	0	50%	770	770	148	222	0	0	148	222		
College Park	University Blvd	Sattellite View	711	0.13	2	2	4D	4 Lane - Existing	4D	173	275	100%	810	810	218	218	23	37	195	181		<b></b>
Bowman Rd	Sunrise Rd	125' W of Buckeye Ln	2,749	0.52	2	2	4D	4 Lane - Existing	4D	520	388	100%	810	810	843	843	271	202	573	641		
Sunrise Rd	Country Aire Dr	Bowman Rd	1,661	0.31	2	2	4U	4 Lane - Existing	4U	592	674	100%	680	680	428	428	186 0	212	242	216		ı
N Mays St N Mays St	Aterial L (Future) 2000' S of University Blvd	Paloma Dr Aterial L (Future)	1,950 2,684	0.37 0.51	2	2	3U 4D	4 Lane - Existing 4 Lane - Existing	4D 4D	0 n/a	0 n/a	100% 100%	510 810	510 810	188 824	377 824	U	0	188	377		
US 79	1825' W of A.W. Grimes B	Joe DiMaggio Blvd	4,249	0.80	2	2	4D	6 Lane - Existing	4D 6D	n/a	n/a	50%	810	810	652	652						
FM 1460 (A.W. Grimes Blvd	175' S of Lantana Dr	US 79	3.965	0.75	2	2	5U	6 Lane - Enhanced	6D	1,102	1.066	100%	770	770	1.157	1.157	828	801	329	356		$\overline{}$
FM 1460 (A.W. Grimes Blvd	1250' N of Tiger Trl	Tiger Trl	1,252	0.24	2	2	5U	6 Lane - Enhanced	6D	n/a	n/a	100%	770	770	365	365	OLO	001	020	000		
US 79	N Mays St	Georgetown St	5,294	1.00	2	2	5U	6 Lane - Enhanced	6D	n/a	n/a	50%	770	770	772	772						
US 79	Georgetown St	Sunrise Rd	953	0.18	2	2	5U	6 Lane - Enhanced	6D	1,885	1,462	50%	770	770	139	139	170	132	-31	7	31	
FM 3406	Sunrise Rd	Settlement Dr	558	0.11	2	2	5U	6 Lane - Enhanced	6D	n/a	n/a	100%	770	770	163	163						
US 79	Sunrise Rd	1685' W of A.W. Grimes B	2,193	0.42	2	2	5U	6 Lane - Enhanced	6D	1,885	1,462	50%	770	770	320	320	391	304	-72	16	72	
University Blvd	Eagles Nest St	College Park Dr	2,846	0.54	2	2	5U	6 Lane - Enhanced	6D	964	787	50%	770	770	415	415	260	212	155	203		<b></b>
FM 3406	Settlement Dr	1020' W of A.W. Grimes B	4,376	0.83	2	2	5U	6 Lane - Enhanced	6D	1,285	956	100%	770	770	1,276	1,276	1,065	792	211	484		
FM 3406	1020' W of A.W. Grimes B	A.W. Grimes Blvd	1,020	0.19	2	2	5U	6 Lane - Enhanced	6D	1,285	956	100%	770	770	297	297	248	185	49	113		<b></b>
FM 1460 (A.W. Grimes Blvd FM 1460 (A.W. Grimes Blvd	A.W. Grimes Blvd Avery Nelson Pkwy	Chandler Creek Blvd	1,471	0.28	2	2	5U 4D	6 Lane - Enhanced	6D	849	1,039	100%	770	770	429	429	237	289	193	140		
University Blvd	College Park Dr	3030' S of Avery Nelson Pl A.W. Grimes Blvd	3,028 3,222	0.57 0.61	2	2	4D 5U	6 Lane - Enhanced 6 Lane - Enhanced	6D 6D	797 964	917 787	100% 50%	810 770	810 770	929 470	929 470	457 294	526 240	472 176	403 230		
FM 1460 (A.W. Grimes Blvd	University Blvd	Avery Nelson Pkwy	5,309	1.01	2	2	4D	6 Lane - Enhanced	6D	797	917	100%	810	810	1,629	1,629	801	922	828	707		
University Blvd	Sunrise Rd	Teravista Club Dr	3,784	0.72	2	2	5U	6 Lane - Enhanced	6D	902	817	50%	770	770	552	552	323	293	229	259		$\overline{}$
University Blvd	Teravista Club Dr	Eagles Nest St	514	0.10	2	2	5U	6 Lane - Enhanced	6D	902	817	50%	770	770	75	75	44	40	31	35		
Kenney Fort Blvd	Chandler Creek Blvd	Joe DiMaggio Blvd	1,565	0.30	1	1	2U	6 Lane - Enhanced	6D	390	351	100%	410	410	121	121	116	104	6	17		i
US 79	Joe DiMaggio Blvd	Red Bud Ln	7,831	1.48	2	2	4D	6 Lane - Enhanced	6D	1,717	1,219	50%	810	810	1,201	1,201	1,273	904	-72	297	72	
Old Settlers Blvd	IH 35 SBFR	IH 35 NBFR	661	0.13	2	2	5U	6 Lane - Enhanced	6D	0	0	50%	770	770	96	96	0	0	96	96		
Old Settlers Blvd	IH 35 NBFR	N Mays St	682	0.13	2	2	4D	6 Lane - Enhanced	6D	n/a	n/a	100%	810	810	209	209						
Old Settlers Blvd	N Mays St	Sunrise Rd	7,044	1.33	2	2	4D	6 Lane - Enhanced	6D	n/a	n/a	100%	810	810	2,161	2,161						
Avery Nelson Pkwy	3580' E of A.W. Grimes Bl	CR 117	3,011	0.57	1	1	2U	6 Lane - Enhanced	6D	n/a	n/a	50%	410	410	117	117			L	L		<b></b>
University Blvd	1830' E of A.W. Grimes Bl	Lunata Way	4,093	0.78	1	1	2U	6 Lane - Enhanced	6D	853	701	50%	410	410	159	159	331	272	-172	-113	172	113
Avery Nelson Pkwy	A.W. Grimes Blvd	3580' E of A.W. Grimes Bl	3,580	0.68	1	1	2U	6 Lane - Enhanced	6D	351	171	100%	410	410	278	278	238	116	40	162		<del></del>
US 79 US 79	IH 35 SBFR IH 35 NBFR	IH 35 NBFR	541 1,409	0.10 0.27	2	4 2	6D 6D	6 Lane - Existing	6D 6D	1.330	0 1.348	50% 100%	900 900	900	92 480	184 480	0 355	0 360	92 125	184 121		
US 79 University Blvd	Oakmont Dr	N Mays St 335' W of Sunrise Dr	1,409	0.27	2	2	5U	6 Lane - Existing	6D 6D	902	1,348 817	100%	770	770	480 482	480 482	282	256	200	121 226		
University Blvd	IH 35 NBFR	Oakmont Dr	949	0.31	2	2	5U	6 Lane - Existing	5U	902	817	100%	770	770	277	277	162	147	115	130		
Kenney Fort Blvd	Old Settler's Blvd	2540' S of Old Settler's Blv	1,566	0.18	0	0	3U	6 Lane - Proposed	6D	0	0	100%	510	510	0	0	0	0	0	0		
CR 111/Westinghouse Rd	3895' E of A.W. Grimes	6350' W of A.W. Grimes	2.456	0.30	1	1	2U	6 Lane - Froposed 6 Lane - Enhanced	6D	234	243	50%	410	410	95	95	54	57	41	39		
University Blvd	335' W of Sunrise Dr	Sunrise Dr	336	0.47	2	2	5U	6 Lane - Existing	6D	902	817	50%	770	770	49	49	29	26	20	23		
				0.00	-			- Lano Lability			· · · ·	0070			ž		ì					

		545' S of Lake Dr	543	0.10	2	2	5U	4 Lane - Enhanced	4D	678	724	50%	770	770	79	79	35	37	44	42		ļ
FM 1460 (A.W. Grimes Blvd	Chandler Creek Blvd	375' S of Chandler Creek B	375	0.07	2	2	5U	6 Lane - Enhanced	6D	1,050	995	100%	770	770	109	109	75	71	35	39		
FM 1460 (A.W. Grimes Blvd	375' S of Chandler Creek E	1250' N of Tiger Trl	1,055	0.20	2	2	5U	6 Lane - Enhanced	6D	849	1,039	50%	770	770	154	154	85	104	69	50		
FM 1460 (A.W. Grimes Blvd	Tiger Trl	175' S of Lantana Dr	1,382	0.26	2	2	5U	6 Lane - Enhanced	6D	1,102	1,066	100%	770	770	403	403	288	279	115	124		
FM 1460 (A.W. Grimes Blvd	440' N of Old Settlers Blvd	Old Settlers Blvd	437	0.08	2	2	4D	6 Lane - Enhanced	6D	797	917	100%	810	810	134	134	66	76	68	58		
FM 1460 (A.W. Grimes Blvd	3030' S of Avery Nelson Pl	440' N of Old Settlers Blvd	2,374	0.45	2	2	4D	6 Lane - Enhanced	6D	797	917	100%	810	810	728	728	358	412	370	316		
Red Bud Ln	160' N of Margarita Loop	CR 117	1,845	0.35	1	1	2U	4 Lane - Enhanced	4D	679	536	50%	410	410	72	72	119	94	-47	-22	47	22
Red Bud Ln	Old Settlers Blvd	170' N of Joseph St	2,356	0.45	1	1	3U	4 Lane - Enhanced	4D	771	754	100%	510	510	228	228	344	337	-116	-109	116	109
Red Bud Ln	170' N of Joseph St	160' S of Covered Wagon	957	0.18	1	1	2U	4 Lane - Enhanced	4D	771	754	50%	410	410	37	37	70	68	-33	-31	33	31
US 79	200' E of Red Bud Ln	1690' E of Red Bud Ln	1,487	0.28	2	2	4D	6 Lane - Enhanced	6D	1,717	1,219	50%	810	810	228	228	242	172	-14	56	14	
US 79	Red Bud Ln	200' E of Red Bud Ln	201	0.04	2	2	4D	6 Lane - Enhanced	6D	1,717	1,219	100%	810	810	62	62	65	46	-4	15	4	
Chandler Creek Blvd	165' W of Renaissance Trl	Kenney Fort Blvd	1,776	0.34	1	1	3U	2 Lane - Existing	3U	222	236	100%	510	510	172	172	75	79	97	92		
University Blvd	A.W. Grimes Blvd	1830' E of A.W. Grimes Bl	1,922	0.36	1	1	2U	6 Lane - Enhanced	6D	853	701	100%	410	410	149	149	311	255	-161	-106	161	106
University Blvd	Lunata Way	Kenney Fort Blvd (Future)	839	0.16	1	1	2U	6 Lane - Enhanced	6D	853	701	100%	410	410	65	65	135	111	-70	-46	70	46
Kenney Fort Blvd	Joe DiMaggio Blvd	US 79	1,046	0.20	3	3	6D	6 Lane - Existing	6D	315	298	100%	900	900	535	535	62	59	473	476		
US 79	1685' W of A.W. Grimes B	A.W. Grimes Blvd	1,685	0.32	2	2	4D	6 Lane - Enhanced	6D	1,885	1,462	50%	810	810	259	259	301	233	-42	25	42	
CR 114/Chandler Rd	IH 35 NBFR	University Oaks Blvd	578	0.11	2	2	5U	6 Lane - Existing	5U	1,163	1,051	100%	770	770	169	169	127	115	41	54		
Kenney Fort Blvd	Old Settler's Blvd	2540' S of Old Settler's Blv	970	0.18	0	0	3U	6 Lane - Proposed	6D	0	0	50%	510	510	0	0	0	0	0	0		
US 79	A.W. Grimes Blvd	1825' W of A.W. Grimes B	1,824	0.35	2	2	4D	6 Lane - Enhanced	6D	1,801	1,341	50%	810	810	280	280	311	232	-31	48	31	
Seton Pkwy	2400' N of Avery Nelson Bl	Avery Nelson Blvd	2,397	0.45	0	0	3U	3 Lane - Existing	3U	0	0	100%	510	510	0	0	0	0	0	0		
Medical Center Pkwy	Seton Pkwy	A.W. Grimes Blvd	951	0.18	0	0	4D	4 Lane - Existing	4D	0	0	100%	810	810	0	0	0	0	0	0		
Wallin Bradley	College Park	AW Grimes Blvd	1,971	0.37	2	2	4D	4 Lane - Proposed	4D	0	0	100%	810	810	605	605	0	0	605	605		
SUBTOTAL			196,570	37.23											37,554	38,044	15,514	13,924	11,814	13,894	1,197	654
	•	•	•				•	•			•	•	•	•	75,	598	29,	438	25.	708	1,8	851

1. Veh-Mi Supply Pk-Hr Total = [Length (mi)] \* [Exist Lanes] \* [Veh-Mi Capacity Pk-Hr Per Ln] \* [% in Service Area]
2. Veh-Mi Demand Pk-Hr Total = [ Length (mi)] \* [PM Peak Hour Vol] \* [% in Service Area]
3. Excess Capacity Pk-Hr Veh-Mi = [Veh-Mi Supply Pk-Hr Total] - [Veh-Mi Supply Pk-Hr Total] - [Veh-Mi Supply Pk-Hr Total]
4. Existing Deficiencies Pk-Hr Veh-Mi = [Veh-Mi Demand Pk-Hr Total]
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#### City of Round Rock - 2023 Roadway Impact Fee Study Existing Roadway Facilities Inventory

Service Area C

Service Area C																						8/3/2023
DO ADWAY	FDOM		. ENGTH	. ENGTH		KIST	EVIOT	01.400			PM EAK	% IN		H-MI ACITY		H-MI PPLY		H-MI IAND		CESS ACITY		TING ENCIES
ROADWAY	FROM	то	LENGTH (ft)	LENGTH (mi)		NES	EXIST LANES	CLASS	FUTURE LANES		EAK DUR	SERVICE AREA		-HR		-HR		HR		ACTIY -HR	DEFICI	
			(11)	(1111)		1120	LANES		LANLS		OL.	ANLA		R LN		TAL <sup>1</sup>		TAL <sup>2</sup>		H-MI <sup>3</sup>	VEH	
					NB/EB	SB/WB				NB/EB	SB/WB		NB/EB	SB/WB	NB/EB	SB/WB	NB/EB	SB/WB		SB/WB	NB/EB	SB/WB
Georgetown St	575' S of US 79	Main St	2,315	0.44	1	1	3U	2 Lane - Existing	3U	604	322	100%	510	510	224	224	265	141	-41	82	41	
Brown St W Bagdad Ave	Round Rock Ave Brown St	McNeil Dr Mays St	1,558 698	0.30	1	1	2U 2U	2 Lane - Existing	2U 2U	0	0	100%	410 410	410 410	121 54	121 54	0	0	121 54	121 54		
W Baguau Ave McNeil Rd	W Bagdad Ave	E Bagdad Ave	95	0.13	1	1	2U	2 Lane - Existing	2U	0	0	100%	410	410	7	7	0	0	7	7		
High Country Blvd	Roundabout Ln	SH 45 WBFR	4,038	0.76	1	1	3U	2 Lane - Existing	3U	838	238	100%	510	510	390	390	641	182	-251	208	251	
McNeil Rd	E Bagdad Ave	Blair St	360	0.07	1	1	2U	2 Lane - Existing	2U	0	0	100%	410	410	28	28	0	0	28	28		
Georgetown St	Main St	McNeil Extension (Future)	442	0.08	1	1	2U	2 Lane - Existing	2U	604	322	100%	410	410	34	34	51	27	-16	7	16	
CR 168/Gattis School Rd	Short Trl	S Mays St	354	0.07	0	1	2U-Half	2 Lane - Existing	2U-Half	0	0	100%	410	410	0	27	0	0	0	27		
Main St	Mays St	Georgetown St	2,443	0.46	1	1	2U	2 Lane - Existing	2U	539	294	100%	410	410	190	190	249	136	-60	54	60	
Main St Deepwood Dr	Brown St 175' N of Dragon Dr	Mays St McNeil Dr	935 5,179	0.18	1	1	2U 2U	2 Lane - Existing 2 Lane - Existing	2U 2U	334	0 293	100%	410 410	410 410	73 402	73 402	0 328	0 287	73 75	73 115		
McNeil Extension	S Mays St	Georgetown St	2,732	0.52	1	1	3U	2 Lane - Existing	3U	374	215	100%	510	510	264	264	193	111	70	153		
S Mays St	Nash St	Gattis School Rd	3,657	0.69	2	2	5U	4 Lane - Enhanced	4D	752	717	100%	770	770	1,066	1,066	521	497	546	570		
Dell Way	S Mays St	Greenlawn Blvd	3,958	0.75	2	2	5U	4 Lane - Enhanced	4D	397	251	100%	770	770	1,154	1,154	298	188	857	966		
Bratton Ln	IH 35 SBFR	1160' S of Michael Angelo	2,215	0.42	1	1	2U	4 Lane - Enhanced	4D	103	130	50%	410	410	86	86	22	27	64	59		
Hesters Crossing Rd	Dry Creek Dr	IH 35 SBFR	1,692	0.32	2	2	5U	4 Lane - Enhanced	4D	866	711	100%	770	770	493	493	277	228	216	266		
S Mays St Red Bud Ln	Gattis School Rd 340' S of Forest Creek Dr	Hesters Crossing Rd Gattis School Rd	1,403 3,735	0.27 0.71	2	2	5U 2U	4 Lane - Enhanced 4 Lane - Enhanced	4D 4D	1,536 703	1,049 657	100% 50%	770 410	770 410	409 145	409 145	408 249	279 232	-104	130 -87	104	87
Red Bud Ln	295' S of Wildflower Trl	840' N of Forest Creek Dr	2.907	0.71	1	1	2U	4 Lane - Enhanced 4 Lane - Enhanced	4D 4D	832	870	50%	410	410	113	113	249	232	-104	-87	116	127
Schultz	SH 45 EBFR	290' S of SH 45 EBFR	291	0.06	1	1	2U	4 Lane - Enhanced	4D	276	186	100%	410	410	23	23	15	10	7	12		
Georgetown St	US 79	575' S of US 79	574	0.11	2	2	4U	4 Lane - Existing	4U	604	322	100%	680	680	148	148	66	35	82	113		
N Mays St	US 79	Main St	3,662	0.69	2	2	5U	4 Lane - Existing	5U	698	527	100%	770	770	1,068	1,068	484	365	584	703		
Double Creek Dr	Gattis School Rd	SH 45 WBFR	3,226	0.61	2	2	4D	4 Lane - Existing	4D	260	264	100%	810	810	990	990	159	161	831	828		
Doublecreek Blvd	Forest Creek Dr Doublecreek Dr	Gattis School Rd	3,478 2,870	0.66 0.54	2	2	4D 4D	4 Lane - Existing	4D 4D	536 256	282 384	100%	810 810	810 810	1,067 881	1,067 881	353 139	186 209	714 741	881 672		
Forest Creek Forest Creek	Kenney Fort Blvd	Kenny Fort Blvd Red Bud Ln	7,323	1.39	2	2	4D	4 Lane - Existing 4 Lane - Existing	4D 4D	473	328	100%	810	810	2,247	2,247	656	455	1,591	1,792		
Red Bud Ln	CR 123	270' N of Forest Ridge Blv	848	0.16	2	2	4D	4 Lane - Existing	4D	740	738	100%	810	810	260	260	119	119	141	142		
Greenlawn Blvd	Dell Way	SH 45 WBFR	1,020	0.19	2	2	4D	4 Lane - Existing	4D	823	225	100%	810	810	313	313	159	43	154	269		
Greenlawn Blvd	Gattis School Rd	Dell Way	3,977	0.75	2	2	4D	4 Lane - Existing	4D	823	225	100%	810	810	1,220	1,220	620	169	600	1,051		
McNeil Rd	IH 35 NBFR	Blair St	1,782	0.34	2	2	4U	4 Lane - Existing	4U	175	340	100%	680	680	459	459	59	115	400	344		
McNeil Rd Deepwood Dr	IH 35 NBFR RM 620	IH 35 SBFR 960' N of Dragon Dr	355 2.415	0.07	2	2	5U 4D	4 Lane - Existing 4 Lane - Existing	5U 4D	0 334	0 293	100% 50%	770 810	770 810	104 370	104 370	0 76	0 67	104 294	104 303		
Hesters Crossing Rd	La Frontera Blvd	Dry Creek Dr	2,415	0.46	2	2	4D 4D	4 Lane - Existing 4 Lane - Existing	4D 4D	934	293 815	100%	810	810	755	755	435	380	320	375		
FM 1325	SH 45 EBFR	810' S of SH 45 EBFR	811	0.15	2	2	4D	4 Lane - Existing	4D	1,086	761	100%	810	810	249	249	167	117	82	132		
Hesters Crossing	IH 35 NBFR	IH 35 SBFR	577	0.11	3	3	7U	4 Lane - Existing	7U	0	0	100%	860	860	282	282	0	0	282	282		
Hesters Crossing	IH 35 NBFR	S Mays St	484	0.09	2	2	4D	4 Lane - Existing	4D	1,324	1,255	100%	810	810	148	148	121	115	27	33		
FM 1325	SH 45 WBFR	SH 45 EBFR	328	0.06	2	2	6U	4 Lane - Existing	6U	0	0	100%	770	770	96	96	0	0	96	96		
La Frontera	Hesters Crossing Rd	SH 45 WBFR	1,845	0.35	2	2	4D	4 Lane - Existing	4D 4U	703	436	100%	810	810	566	566	246	152	320	414		
Round Rock Ave Red Bud Ln	IH 35 NBFR US 70	N Brown St CR 123	1,326 863	0.25 0.16	2	2	4U 4D	4 Lane - Existing 4 Lane - Existing	40 4D	393 740	404 738	100% 50%	680 810	680 810	342 132	342 132	99 60	101 60	243 72	240 72		
Hesters Crossing Rd	CR 172	La Frontera Blvd	1.605	0.30	2	2	4D	4 Lane - Existing	4D	0	0	100%	810	810	492	492	0	0	492	492		
CR 168/Gattis School Rd	Greenlawn Dr	Windy Park Dr	1,489	0.28	2	2	4U	6 Lane - Enhanced	6D	894	781	100%	680	680	384	384	252	220	131	163		
CR 168/Gattis School Rd	South Crossing Dr	Doublecreek Dr	2,091	0.40	2	2	4U	6 Lane - Enhanced	6D	1,248	871	100%	680	680	538	538	494	345	44	194		
CR 168/Gattis School Rd	Doublecreek Dr	Kenney Fort Blvd	4,140	0.78	2	2	4U	6 Lane - Enhanced	6D	983	763	100%	680	680	1,066	1,066	771	598	296	468		
CR 168/Gattis School Rd CR 168/Gattis School Rd	Kenney Fort Blvd S Mays St	Via Sonoma Trl Greenlawn Blvd	2,747 2,255	0.52 0.43	2	2	5U 4H	6 Lane - Enhanced 6 Lane - Enhanced	6D 6D	983 894	763 781	100% 100%	770 680	770 680	801 581	801 581	512 382	397 334	290 199	404 247		
Greenlawn Blvd	IH 35 NBFR	Pflugerville Pkwy	3.092	0.43	2	2	4D	6 Lane - Enhanced	6D	876	353	100%	810	810	949	949	513	207	436	742		
McNeil Rd	CR 172	Deepwood Dr	1,102	0.21	2	2	4U	6 Lane - Enhanced	6D	860	591	100%	680	680	284	284	179	123	104	160		
McNeil Rd	1275' S of W Messick Loo	CR 172	3,778	0.72	2	2	4U	6 Lane - Enhanced	6D	894	660	50%	680	680	487	487	320	236	167	250		
McNeil Rd	Deepwood Dr	IH 35 SBFR	5,194	0.98	2	2	4U	6 Lane - Enhanced	6D	825	521	100%	680	680	1,338	1,338	811	512	526	825		
CR 168/Gattis School Rd	High Country Rd	Red Bud Ln	1,148	0.22	0	0	5U	6 Lane - Enhanced	6D	983	763	100%	770	770	0	0	214	166	-214	-166	214	166
Greenlawn Blvd A. W. Grimes	Pflugerville Pkwy US 79	SH 45 EBFR Gattis School Rd	2,260 8,205	0.43 1.55	2	3	4D 6D	6 Lane - Enhanced 6 Lane - Existing	6D 6D	876 1,636	353 1,158	100%	810 900	810 900	693 4,196	693 4,196	375 2,542	151 1,799	318 1,653	542 2,396		
A. W. Grimes	Gattis School Rd	SH 45 WBFR	4,834	0.92	3	3	6D	6 Lane - Existing	6D	1,794	862	100%	900	900	2,472	2,472	1,642	789	829	1,683		
Kenney Fort Blvd	US 79	Forest Creek Blvd	5,040	0.95	3	3	6D	6 Lane - Existing	6D	315	298	100%	900	900	2,577	2,577	301	284	2,277	2,293		
Greenlawn Blvd	SH 45 WBFR	SH 45 EBFR	329	0.06	4	3	7U	6 Lane - Existing	8U	0	0	100%	860	860	214	161	0	0	214	161		
A. W. Grimes	SH 45 EBFR	SH 45 WBFR	321	0.06	3	4	7U	6 Lane - Existing	8U	0	0	100%	860	860	157	209	0	0	157	209		
Kenney Fort Blvd	830' S of Gattis School Rd	SH 45	2,178	0.41	1	1	3U	6 Lane - Proposed	6D	0	0	50%	510	510	105	105	0	0	105	105		
Red Bud Ln	270' N of Forest Ridge Blv	Forest Ridge Blvd	272	0.05	2	2	4D	4 Lane - Existing	4D 4D	740 832	738 870	50%	810 410	810 410	42	42 10	19 21	19	23 -11	23	14	40
Red Bud Ln Red Bud Ln	Forest Ridge Blvd 265' S of Forest Ridge Blv	265' S of Forest Ridge Blvd 280' S of Woodlawn Ln	265 565	0.05	1	1	2U 2U	4 Lane - Enhanced 4 Lane - Enhanced	4D 4D	832 832	870 870	50% 100%	410 410	410 410	10 44	10 44	21 89	22 93	-11 -45	-12 -49	11 45	12 49
Red Bud Ln	280' S of Woodlawn Ln	130' S of Old Oaks Dr	554	0.10	1	1	2U	4 Lane - Enhanced	4D	832	870	50%	410	410	22	22	44	46	-22	-24	22	24
Red Bud Ln	130' S of Old Oaks Dr	315' S of Country Dr	561	0.11	1	1	2U	4 Lane - Enhanced	4D	832	870	100%	410	410	44	44	88	92	-45	-49	45	49
Red Bud Ln	315' S of Country Dr	Wildflower Trl	551	0.10	1	1	2U	4 Lane - Enhanced	4D	832	870	50%	410	410	21	21	43	45	-22	-24	22	24
Red Bud Ln	Wildflower Trl	295' S of Wildflower Trl	293	0.06	1	1	2U	4 Lane - Enhanced	4D	832	870	100%	410	410	23	23	46	48	-23	-26	23	26
Red Bud Ln	840' N of Forest Creek Dr	Forest Creek Dr	840	0.16	1	1	2U	4 Lane - Enhanced	4D	832	870	100%	410	410	65	65	132	138	-67	-73	67	73
Red Bud Ln	Forest Creek Dr	340' S of Forest Creek Dr	342	0.06	1	1	2U	4 Lane - Enhanced	4D	703	657	100%	410	410	27	27	45	43	-19	-16	19	16

															82.1	136	35.	145	46.	991	1.7	709
SUBTOTAL			162,499	30.78											41,055	41,081	20,728	14,417	20,327	26,664	1,056	653
S Mays St	Hesters Crossing Rd	Dell Way	4,229	0.80	2	2	5U	4 Lane - Enhanced	4D	835	418	100%	770	770	1,233	1,233	669	335	565	899		
S Mays St	McNeil Rd	Nash St	2,076	0.39	2	2	4U	4 Lane - Enhanced	4U	752	717	100%	680	680	535	535	296	282	239	253		
CR 168/Gattis School Rd	960' N of Dragon Dr	175' N of Dragon Dr	2,728	0.52	2	2	4D	6 Lane - Enhanced	4D	334	293	100%	810	810	837	837	173	151	664	686		
N Mays St	McNeil Dr	Lynda Sue St	491	0.09	2	2	4U	4 Lane - Existing	4D	1,056	568	50%	680	680	63	63	49	26	14	37		
FM 1325	Greenlawn Blvd	1050' E of Greenlawn Blvd	488	0.09	2	2	4D	4 Lane - Enhanced	4D	0	0	100%	810	810	150	150	0	0	150	150		
S Mays St	Hesters Crossing Rd	Dell Way	1,205	0.23	2	2	5U	4 Lane - Enhanced	4D	835	418	100%	770	770	351	351	191	95	161	256		
S Mays St	McNeil Rd	Nash St	1,450	0.27	2	2	4U	4 Lane - Enhanced	4U	752	717	100%	680	680	374	374	207	197	167	177		
Deepwood Dr	960' N of Dragon Dr	175' N of Dragon Dr	783	0.15	2	2	4D	4 Lane - Existing	4D	334	293	100%	810	810	240	240	50	43	191	197		
CR 172	Hesters Crossing Rd	445' N of Hesters Crossing	445	0.08	2	2	4U	4 Lane - Enhanced	4D	1,056	568	50%	680	680	57	57	45	24	13	33		
W Pflugerville PKWY	Greenlawn Blvd	1050' E of Greenlawn Blvd	1,047	0.20	2	2	4D	4 Lane - Existing	4D	0	0	100%	810	810	321	321	0	0	321	321		
Schultz	290' S of SH 45 EBFR	255' S of Autumn Sage Wa	2,637	0.50	1	1	2U	4 Lane - Enhanced	4D	276	186	50%	410	410	102	102	69	46	33	56		
CR 168/Gattis School Rd	IH 35 NBFR	Short Trl	240	0.05	1	1	2U	2 Lane - Existing	2U	0	0	100%	410	410	19	19	0	0	19	19		
CR 168/Gattis School Rd	Windy Park Dr	A.W. Grimes Blvd	1,256	0.24	2	2	4D	6 Lane - Enhanced	6D	894	781	100%	810	810	385	385	213	186	173	200		
CR 168/Gattis School Rd	A.W. Grimes Blvd	South Crossing Dr	1,414	0.27	2	2	4D	6 Lane - Enhanced	6D	1,248	871	100%	810	810	434	434	334	233	100	201		
CR 168/Gattis School Rd	Via Sonoma Trl	High Country Rd	2,108	0.40	2	2	4U	6 Lane - Enhanced	6D	983	763	100%	680	680	543	543	392	305	151	238		
CR 170	SH 45 EBFR	430' S of Glenn Dr	1,848	0.35	2	2	4D	4 Lane - Existing	4D	913	894	100%	810	810	567	567	320	313	247	254		
High Country Blvd	Gattis School Rd	Roundabout Ln	779	0.15	2	2	4D	2 Lane - Existing	4D	838	238	100%	810	810	239	239	124	35	115	204		

1. Veh-Mi Supply Pk-Hr Total = [Length (mi)] \* [Exist Lanes] \* [Veh-Mi Capacity Pk-Hr Per Ln] \* [% in Service Area]
2. Veh-Mi Demand Pk-Hr Total = [ Length (mi)] \* [PM Peak Hour Vol] \* [% in Service Area]
3. Excess Capacity Pk-Hr Veh-Mi = [Veh-Mi Supply Pk-Hr Total] - [Veh-Mi Demand Pk-Hr Total] - [Veh-Mi

#### City of Round Rock - 2023 Roadway Impact Fee Study **Existing Roadway Facilities Inventory**

Service Area D 8/3/2023

ROADWAY	FROM	то	LENGTH	LENGTH	EX	IST	EXIST	CLASS	FUTURE		M AK	% IN SERVICE	VEI CAP	H-MI ACITY		H-MI PPLY		H-MI IAND		CESS ACITY		STING IENCIES
			(ft)	(mi)	LA	NES	LANES		LANES	HC	UR	AREA	PK-	-HR	PK	-HR	PK	-HR	PK	-HR	PK	(-HR
			` ,	` '						V	OL		PER	RLN	TOT	ΓAL <sup>1</sup>	TO	ΓAL <sup>2</sup>	VEH	H-MI <sup>3</sup>	VEI	H-MI <sup>4</sup>
					NB/EB	SB/WB				NB/EB	SB/WB		NB/EB	SB/WB	NB/EB	SB/WB	NB/EB	SB/WB	NB/EB	SB/WB	NB/EB	SB/WB
Avery Nelson Pkwy	Kenney Fort Blvd	Ed Schmidt Blvd	5,015	0.95	2	2	4D	4 Lane - Existing	4D	0	0	100%	810	810	1,539	1,539	0	0	1,539	1,539		
CR 118	University Blvd	Avery Nelson Pkwy	6,035	1.14	1	1	2U	4 Lane - Existing	2U	0	0	100%	410	410	469	469	0	0	469	469		
CR 122	Red Bud Ln	CR 110	2,583	0.49	1	1	2U	3 Lane - Proposed	2U	0	0	100%	410	410	201	201	0	0	201	201		
Red Bud Ln	160' S of Covered Wagon	US 79	2,141	0.41	1	1	3U	4 Lane - Enhanced	4D	771	754	100%	510	510	207	207	313	306	-106	-99	106	99
Red Bud Ln	CR 117	Old Settlers Blvd	1,788	0.34	1	1	2U	4 Lane - Enhanced	4D	n/a	n/a	100%	410	410	139	139						
CR 110/Southwestern Blvd	CR 107	CR 112	4,730	0.90	1	1	3U	4 Lane - Enhanced	4D	0	0	100%	510	510	457	457	0	0	457	457		
CR 110/Southwestern Blvd	CR 164	US 79	3,017	0.57	1	1	3U	4 Lane - Enhanced	4D	0	0	50%	510	510	146	146	0	0	146	146		
Red Bud Ln	Guadalajara St	160' N of Margarita Loop	1,867	0.35	1	1	2U	4 Lane - Enhanced	4D	679	536	100%	410	410	145	145	240	190	-95	-45	95	45
Kenney Fort Blvd	Chandler Creek Blvd	Joe DiMaggio Blvd	1,565	0.30	1	1	2U	6 Lane - Enhanced	6D	390	351	100%	410	410	121	121	116	104	6	17		
University Blvd	Kenney Fort Blvd (Future)	CR 118	7,803	1.48	1	1	2U	4 Lane - Enhanced	6D	n/a	n/a	100%	410	410	606	606						
Kenney Fort Blvd	Old Settler's Blvd	2540' S of Old Settler's Blv	1,566	0.30	0	0	3U	6 Lane - Proposed	6D	0	0	100%	510	510	0	0	0	0	0	0		
Red Bud Ln	160' N of Margarita Loop	CR 117	1,845	0.35	1	1	2U	4 Lane - Enhanced	4D	679	536	50%	410	410	72	72	119	94	-47	-22	47	22
Red Bud Ln	Old Settlers Blvd	170' N of Joseph St	2,356	0.45	1	1	3U	4 Lane - Enhanced	4D	771	754	100%	510	510	228	228	344	337	-116	-109	116	109
Red Bud Ln	170' N of Joseph St	160' S of Covered Wagon	957	0.18	1	1	2U	4 Lane - Enhanced	4D	771	754	50%	410	410	37	37	70	68	-33	-31	33	31
	2540' S of Old Settlers Blv	4415' S of Old Settlers Blv	1,877	0.36	1	1	3U	6 Lane - Proposed	6D	0	0	100%	510	510	181	181	0	0	181	181		
	Old Settler's Blvd	2540' S of Old Settler's Blv	970	0.18	1	1	3U	6 Lane - Proposed	6D	0	0	50%	510	510	47	47	0	0	47	47		
	Red Bud Ln	CR 110	663	0.13	1	1	2U	3 Lane - Proposed	2U	0	0	50%	410	410	26	26	0	0	26	26		
CR 122	Red Bud Ln	CR 110	214	0.04	1	1	2U	3 Lane - Proposed	2U	n/a	n/a	100%	410	410	17	17				1		
CR 122	Red Bud Ln	CR 110	478	0.09	1	1	2U	3 Lane - Proposed	2U	n/a	n/a	50%	410	410	19	19						
	Kenney Fort Blvd (Future)	CR 118	4,678	0.89	1	1	2U	4 Lane - Enhanced	6D	731	619	100%	410	410	363	363	648	548	-284	-185	284	185
		CR 118	394	0.07	1	1	2U	4 Lane - Enhanced	6D	731	619	50%	410	410	15	15	27	23	-12	-8	12	8
CR 107	CR 110	350' North of University Blv	7,723	1.46	1	1	2U	2 Lane - Enhanced	2U	0	0	100%	410	410	600	600	0	0	600	600		
SUBTOTAL			60,265	11.41											5,632	5,632	1,876	1,669	2,976	3,183	693	499
•	·							•					-		11.	264	3.	545	6.	160	1.1	.192

Veh-Mi Supply Pk-Hr Total = [Length (mi)] \* [Exist Lanes] \* [Veh-Mi Capacity Pk-Hr Per Ln] \* [% in Service Area]
 Veh-Mi Demand Pk-Hr Total = [ Length (mi)] \* [PM Peak Hour Vol] \* [% In Service Area]

Note: Mileage lengths are shown as rounded to the nearest 0.01. Actual calculations were performed using exact mileage length [Length (ft) / 5,280]. "n/a" are roadways that were not analyzed. Most of these roadways were 2 Lane Collectors or bridges over I-35 included as intersection projects.

Excess Capacity Pk-Hr Veh-Mi = [Veh-Mi Supply Pk-Hr Total] - [Veh-Mi Demand Pk-Hr Total]
 Existing Deficiencies Pk-Hr Veh-Mi = [Veh-Mi Demand Pk-Hr Total] - [Veh-Mi Supply Pk-Hr Total]



## Appendix D – Plan for Awarding the Roadway Impact Fee Credit Summary (as prepared by NewGen Strategies.)

Service Area A

Recoverable Impact Fee CIP Costs	\$ 98,527,707	Line 16, Maximum Fee Calculation Table
Principal Paid on Existing Debt Funded Project Costs	(1,403,982)	Page 4 of Appendix E - Service Area A
Financing Costs	25,351,267	See Detail Below
Existing Fund Balance	-	Page 1 of Appendix E - Service Area A
Interest Earnings	(19,167,248)	Page 5 of Appendix E - Service Area A
Pre Credit Recoverable Cost for Impact Fee	\$ 103,307,744	Sum of Above
Credit for Ad Valorem Revenues	(3,196,329)	Page 8 of Appendix E - Service Area A
Maximum Recoverable Cost for Impact Fee	\$ 100,111,415	

#### Recoverable Impact Fee CIP Costs:

Represents the portion of capital improvement costs that are eligible for funding through impact fees. Reference is Service Area A column, line 16 on the Max Fee Calculation Table.

#### Principal Paid on Existing Debt Funded Project Costs:

Not Applicable to Service Area A

#### **Financing Costs:**

Represents the interest costs associated with debt financing the new impact fee project costs. It is assumed one-half of the new impact fee project costs will be funded through new debt issues (Page 7 of Appendix E - Service Area A). Interest costs are derived from forecasted debt issues.

New Annual Debt Service	\$ 70,502,014 (Page 3 of Appendix E - Service Area A)
Existing Annual Debt Service	5,085,250 (Page 3 of Appendix E - Service Area A)
Principal Component	(50,235,997) (Page 4 of Appendix E - Service Area A)
Financing Costs	\$ 25,351,267

#### **Interest Earnings:**

Represents the interest earned on cash flows. Assumes a 3.40% annual interest rate based on the 12-month average rate for TexPool. The Impact Fee Statute states that interest earnings are funds of the impact fee account and are held to the same restrictions as impact fee revenues. Therefore in order to recognize that interest earnings are used to fund capital improvements, interest earnings are credited against the recoverable costs. Reference is the sum of Accumulated Interest on page 5 of Appendix E - Service Area A.

#### Pre Credit Recoverable Cost for Impact Fee

Represents Recoverable Impact Fee CIP Costs plus Financing Costs less Interest Earnings.

#### Credit for Ad Valorem Revenues:

In 2001, the Impact Fee Statute was amended to include a credit for ad valorem and utility revenues generated by new service units during the ten-year timeframe that are used to fund impact fee eligible projects for which the new service units were charged an impact fee. The intent of this amendment is to avoid double-charging the new service units for impact fee capital improvements. The credit recognizes ad valorem revenues used to fund the debt service of debt financed impact fee eligible projects and assumes that all non-debt funded impact fee eligible project costs will be funded solely through impact fee revenues or non-ad valorem revenue sources. Reference is page 8 of Appendix E - Service Area A.

#### Maximum Recoverable Cost for Impact Fee:

Service Area B

Recoverable Impact Fee CIP Costs	\$ 71,208,321	Line 16, Maximum Fee Calculation Table
Principal Paid on Existing Debt Funded Project Costs	(238,268)	Page 4 of Appendix E - Service Area B
Financing Costs	17,880,121	See Detail Below
Existing Fund Balance		Page 1 of Appendix E - Service Area B
Interest Earnings	(14,107,526)	Page 5 of Appendix E - Service Area B
Pre Credit Recoverable Cost for Impact Fee	\$ 74,742,647	Sum of Above
Credit for Ad Valorem Revenues	(1,925,151)	Page 8 of Appendix E - Service Area E
Maximum Recoverable Cost for Impact Fee	\$ 72,817,496	

#### Recoverable Impact Fee CIP Costs:

Represents the portion of capital improvement costs that are eligible for funding through impact fees. Reference is Service Area B column, line 16 on the Max Fee Calculation Table.

#### Principal Paid on Existing Debt Funded Project Costs:

Not Applicable to Service Area B

#### **Financing Costs:**

Represents the interest costs associated with debt financing the new impact fee project costs. It is assumed one-half of the new impact fee project costs will be funded through new debt issues (Page 7 of Appendix E - Service Area B). Interest costs are derived from forecasted debt issues.

New Annual Debt Service	\$ 53,013,631 (Page 3 of Appendix E - Service Area B)
Existing Annual Debt Service	348,370 (Page 3 of Appendix E - Service Area B)
Principal Component	(35,481,881) (Page 4 of Appendix E - Service Area B)
Financing Costs	\$ 17,880,121

#### **Interest Earnings:**

Represents the interest earned on cash flows. Assumes a 3.40% annual interest rate based on the 12-month average rate for TexPool. The Impact Fee Statute states that interest earnings are funds of the impact fee account and are held to the same restrictions as impact fee revenues. Therefore in order to recognize that interest earnings are used to fund capital improvements, interest earnings are credited against the recoverable costs. Reference is the sum of Accumulated Interest on page 5 of Appendix E - Service Area B.

#### Pre Credit Recoverable Cost for Impact Fee

Represents Recoverable Impact Fee CIP Costs plus Financing Costs less Interest Earnings.

#### Credit for Ad Valorem Revenues:

In 2001, the Impact Fee Statute was amended to include a credit for ad valorem and utility revenues generated by new service units during the ten-year timeframe that are used to fund impact fee eligible projects for which the new service units were charged an impact fee. The intent of this amendment is to avoid double-charging the new service units for impact fee capital improvements. The credit recognizes ad valorem revenues used to fund the debt service of debt financed impact fee eligible projects and assumes that all non-debt funded impact fee eligible project costs will be funded solely through impact fee revenues or non-ad valorem revenue sources. Reference is page 8 of Appendix E - Service Area B.

#### Maximum Recoverable Cost for Impact Fee:

Service Area C

Recoverable Impact Fee CIP Costs	\$ 119,393,812	Line 16, Maximum Fee Calculation Table
Principal Paid on Existing Debt Funded Project Costs	-	Page 4 of Appendix E - Service Area C
Financing Costs	23,280,687	See Detail Below
Existing Fund Balance	-	Page 1 of Appendix E - Service Area C
Interest Earnings	(22,623,260)	Page 5 of Appendix E - Service Area C
Pre Credit Recoverable Cost for Impact Fee	\$ 120,051,240	Sum of Above
Credit for Ad Valorem Revenues	(5,273,827)	Page 8 of Appendix E - Service Area C
Maximum Recoverable Cost for Impact Fee	\$ 114,777,413	

#### Recoverable Impact Fee CIP Costs:

Represents the portion of capital improvement costs that are eligible for funding through impact fees. Reference is Service Area C column, line 16 on the Max Fee Calculation Table.

#### Principal Paid on Existing Debt Funded Project Costs:

Not Applicable to Service Area C

#### **Financing Costs:**

Represents the interest costs associated with debt financing the new impact fee project costs. It is assumed one-half of the new impact fee project costs will be funded through new debt issues (Page 7 of Appendix E - Service Area C). Interest costs are derived from forecasted debt issues.

New Annual Debt Service	\$ 77,351,625 (Page 3 of Appendix E - Service Area C)
Existing Annual Debt Service	9,070,691 (Page 3 of Appendix E - Service Area C)
Principal Component	(63,141,628) (Page 4 of Appendix E - Service Area C)
Financing Costs	\$ 23,280,687

#### **Interest Earnings:**

Represents the interest earned on cash flows. Assumes a 3.40% annual interest rate based on the 12-month average rate for TexPool. The Impact Fee Statute states that interest earnings are funds of the impact fee account and are held to the same restrictions as impact fee revenues. Therefore in order to recognize that interest earnings are used to fund capital improvements, interest earnings are credited against the recoverable costs. Reference is the sum of Accumulated Interest on page 5 of Appendix E - Service Area C.

#### Pre Credit Recoverable Cost for Impact Fee

Represents Recoverable Impact Fee CIP Costs plus Financing Costs less Interest Earnings.

#### Credit for Ad Valorem Revenues:

In 2001, the Impact Fee Statute was amended to include a credit for ad valorem and utility revenues generated by new service units during the ten-year timeframe that are used to fund impact fee eligible projects for which the new service units were charged an impact fee. The intent of this amendment is to avoid double-charging the new service units for impact fee capital improvements. The credit recognizes ad valorem revenues used to fund the debt service of debt financed impact fee eligible projects and assumes that all non-debt funded impact fee eligible project costs will be funded solely through impact fee revenues or non-ad valorem revenue sources. Reference is page 8 of Appendix E - Service Area C.

#### Maximum Recoverable Cost for Impact Fee:

Service Area D

Recoverable Impact Fee CIP Costs	\$ 28,918,566	Line 16, Maximum Fee Calculation Table
Principal Paid on Existing Debt Funded Project Costs	(31,026)	Page 4 of Appendix E - Service Area D
Financing Costs	7,264,890	See Detail Below
Existing Fund Balance		Page 1 of Appendix E - Service Area D
Interest Earnings	(5,785,589)	Page 5 of Appendix E - Service Area D
Pre Credit Recoverable Cost for Impact Fee	\$ 30,366,842	Sum of Above
Credit for Ad Valorem Revenues	(399,023)	Page 8 of Appendix E - Service Area C
Maximum Recoverable Cost for Impact Fee	\$ 29,967,819	

#### Recoverable Impact Fee CIP Costs:

Represents the portion of capital improvement costs that are eligible for funding through impact fees. Reference is Service Area D column, line 16 on the Max Fee Calculation Table.

#### Principal Paid on Existing Debt Funded Project Costs:

Not Applicable to Service Area D

#### **Financing Costs:**

Represents the interest costs associated with debt financing the new impact fee project costs. It is assumed one-half of the new impact fee project costs will be funded through new debt issues (Page 7 of Appendix E - Service Area D). Interest costs are derived from forecasted debt issues.

New Annual Debt Service	\$ 21,678,575 (Page 3 of Appendix E - Service Area D)
Existing Annual Debt Service	39,961 (Page 3 of Appendix E - Service Area D)
Principal Component	 (14,453,645) (Page 4 of Appendix E - Service Area D)
Financing Costs	\$ 7,264,890

#### **Interest Earnings:**

Represents the interest earned on cash flows. Assumes a 3.40% annual interest rate based on the 12-month average rate for TexPool. The Impact Fee Statute states that interest earnings are funds of the impact fee account and are held to the same restrictions as impact fee revenues. Therefore in order to recognize that interest earnings are used to fund capital improvements, interest earnings are credited against the recoverable costs. Reference is the sum of Accumulated Interest on page 5 of Appendix E - Service Area D.

#### Pre Credit Recoverable Cost for Impact Fee

Represents Recoverable Impact Fee CIP Costs plus Financing Costs less Interest Earnings.

#### Credit for Ad Valorem Revenues:

In 2001, the Impact Fee Statute was amended to include a credit for ad valorem and utility revenues generated by new service units during the ten-year timeframe that are used to fund impact fee eligible projects for which the new service units were charged an impact fee. The intent of this amendment is to avoid double-charging the new service units for impact fee capital improvements. The credit recognizes ad valorem revenues used to fund the debt service of debt financed impact fee eligible projects and assumes that all non-debt funded impact fee eligible project costs will be funded solely through impact fee revenues or non-ad valorem revenue sources. Reference is page 8 of Appendix E - Service Area D.

#### Maximum Recoverable Cost for Impact Fee:



# Appendix E – Plan for Awarding the Roadway Impact Fee Credit Supporting Exhibits (as prepared by NewGen Strategies.)

E

Capital Improvement Plan for Impact Fees Appendix E - Impact Fee Calculation Assumptions Service Area D

#### I. General Assumptions

Annual Interest Rate on Deposits <sup>(1)</sup>	3.40%
Annual Service Unit Growth <sup>(2)</sup>	721
Existing Fund Balance <sup>(3)</sup>	-

Portion of Projects Funded by Existing Debt<sup>(4)</sup> \$ 74,526

Non-debt Funded New Project Cost<sup>(5)</sup> 14,433,895

New Project Cost Funded Through New Debt<sup>(6)</sup> 14,410,145

Total Recoverable Project Cost<sup>(7)</sup> \$ 28,918,566

#### II. New Debt Issues Assumptions

<u>Year</u>	Principal <sup>(8)</sup>	Interest <sup>(9)</sup>	<u>Term</u>
1	\$ 1,441,015	4.25%	20
2	1,441,015	4.25%	20
3	1,441,015	4.25%	20
4	1,441,015	4.25%	20
5	1,441,015	4.25%	20
6	1,441,015	4.25%	20
7	1,441,015	4.25%	20
8	1,441,015	4.25%	20
9	1,441,015	4.25%	20
10	1,441,015	4.25%	20
Total	\$ 14,410,145		

#### III. Capital Expenditure Assumptions

<u>Year</u>	Annual Capital <u>Expenditures<sup>(10)</sup></u>
1	\$ 2,163,303
2	2,884,404
3	2,884,404
4	2,884,404
5	2,884,404
6	2,884,404
7	2,884,404
8	2,884,404
9	2,884,404
10	3,605,505
Total	\$ 28,844,040

- (1) TexPool 12-Month Average Rate as of June 28, 2023
- (2) Derived from the 10-year Growth Projections Report, Table 7
- (3) Existing fund balances are already encumbered
- (4) Provided by City Staff
- (5) Assumes 50% of new project costs funded through sources other than debt
- (6) Assumes 50% of new project costs funded through new debt issues
- (7) Line 16 of the Max Fee Table Report
- (8) Assumes new debt issued in equal annual amounts
- (9) Estimated interest cost provided by City Staff
- (10) Assumes new debt proceeds expended over a 2-year timeframe with Year 10 bond proceeds spent in one year; Non-debt funded capital expenditures made in equal annual amounts

Capital Improvement Plan for Impact Fees Appendix E - Impact Fee Calculation Assumptions Service Area D

#### I. New Debt Service Detail

Year	Series	ali	Series <u>2</u>	Series <u>3</u>	eries <u>4</u>	Series <u>5</u>		Series <u>6</u>	Series	\$ Series <u>8</u>	Series <u>9</u>	Series 10	ı	Total Annual New Debt <u>Service</u>
1	\$ 108,39	93 \$	-	\$ -	\$ - \$		- \$	-	\$ -	\$ -	\$ -	\$ -	\$	108,393
2	108,39	93	108,393	-	-		-	-	-	-	-	-		216,786
3	108,39	93	108,393	108,393	-		-	-	-	-	-	-		325,179
4	108,39	93	108,393	108,393	108,393		-	-	-	-	-	-		433,571
5	108,39	93	108,393	108,393	108,393	108	393	-	-	-	-	-		541,964
6	108,39	93	108,393	108,393	108,393	108	393	108,393	-	-	-	-		650,357
7	108,39	93	108,393	108,393	108,393	108	393	108,393	108,393	-	-	-		758,750
8	108,39	93	108,393	108,393	108,393	108	393	108,393	108,393	108,393	-	-		867,143
9	108,39	93	108,393	108,393	108,393	108	393	108,393	108,393	108,393	108,393	-		975,536
10	108,39	93	108,393	108,393	108,393	108	393	108,393	108,393	108,393	108,393	108,393		1,083,929
11	108,39	93	108,393	108,393	108,393	108	393	108,393	108,393	108,393	108,393	108,393		1,083,929
12	108,39	93	108,393	108,393	108,393	108	393	108,393	108,393	108,393	108,393	108,393		1,083,929
13	108,39	93	108,393	108,393	108,393	108	393	108,393	108,393	108,393	108,393	108,393		1,083,929
14	108,39	93	108,393	108,393	108,393	108	393	108,393	108,393	108,393	108,393	108,393		1,083,929
15	108,39	93	108,393	108,393	108,393	108	393	108,393	108,393	108,393	108,393	108,393		1,083,929
16	108,39	93	108,393	108,393	108,393	108	393	108,393	108,393	108,393	108,393	108,393		1,083,929
17	108,39	93	108,393	108,393	108,393	108	393	108,393	108,393	108,393	108,393	108,393		1,083,929
18	108,39	93	108,393	108,393	108,393	108	393	108,393	108,393	108,393	108,393	108,393		1,083,929
19	108,39	93	108,393	108,393	108,393	108	393	108,393	108,393	108,393	108,393	108,393		1,083,929
20	108,39	93	108,393	108,393	108,393	108	393	108,393	108,393	108,393	108,393	108,393		1,083,929
21	-		108,393	108,393	108,393	108	393	108,393	108,393	108,393	108,393	108,393		975,536
22	-		-	108,393	108,393	108	393	108,393	108,393	108,393	108,393	108,393		867,143
23	-		-	-	108,393	108	393	108,393	108,393	108,393	108,393	108,393		758,750
24	-		-	-	-	108	393	108,393	108,393	108,393	108,393	108,393		650,357
25	-		-	-	-		-	108,393	108,393	108,393	108,393	108,393		541,964
26	-		-	-	-		-	-	108,393	108,393	108,393	108,393		433,571
27	-		-	-	-		-	-	-	108,393	108,393	108,393		325,179
28	-		-	-	-		-	-	-	-	108,393	108,393		216,786
29	-		-	-	-		-	-	-	-	-	108,393		108,393
	\$ 2,167,85	57 \$	2,167,857	\$ 2,167,857	\$ 2,167,857 \$	2,167	857 \$	2,167,857	\$ 2,167,857	\$ 2,167,857	\$ 2,167,857	\$ 2,167,857	\$	21,678,575

Capital Improvement Plan for Impact Fees Appendix E - Impact Fee Calculation Assumptions Service Area D

#### II. Summary of Annual Expenses

Year		New Annual Debt <u>Service<sup>(1)</sup></u>	<u>E</u> :	Annual Capital xpenditures <sup>(2)</sup>		Annual Bond <u>Proceeds<sup>(2)</sup></u>		Existing Annual Debt Service <sup>(3)</sup>		Annual Credit <sup>(4)</sup>	Total <u>Expense</u>
1	\$	108,393	\$	2,163,303	\$	(1,441,015)	\$	8,897	\$	(1,196) \$	838,383
2	Ψ	216,786	Ψ	2,884,404	Ψ	(1,441,015)	Ψ	8,684	Ψ	(4,551)	1,664,308
3		325,179		2,884,404		(1,441,015)		5,843		(9,923)	1,764,488
4		433,571		2,884,404		(1,441,015)		5,624		(17,380)	1,865,205
5		541,964		2,884,404		(1,441,015)		4,980		(26,790)	1,963,545
6		650,357		2,884,404		(1,441,015)		829		(37,903)	2,056,673
7		758,750		2,884,404		(1,441,015)		803		(51,084)	2,151,859
8		867,143		2,884,404		(1,441,015)		777		(66,076)	2,245,234
9		975,536		2,884,404		(1,441,015)		749		(82,828)	2,336,846
10		1,083,929		3,605,505		(1,441,015)		726		(101,292)	3,147,852
11		1,083,929		· -		-		704		-	1,084,633
12		1,083,929		-		-		683		-	1,084,612
13		1,083,929		-		-		661		-	1,084,590
14		1,083,929		-		-		-		-	1,083,929
15		1,083,929		-		-		-		-	1,083,929
16		1,083,929		-		-		-		-	1,083,929
17		1,083,929		-		-		-		-	1,083,929
18		1,083,929		-		-		-		-	1,083,929
19		1,083,929		-		-		-		-	1,083,929
20		1,083,929		-		-		-		-	1,083,929
21		975,536		-		-		-		-	975,536
22		867,143		-		-		-		-	867,143
23		758,750		-		-		-		-	758,750
24		650,357		-		-		-		-	650,357
25		541,964		-		-		-		-	541,964
26		433,571		-		-		-		-	433,571
27		325,179		-		-		-		-	325,179
28		216,786		-		-		-		-	216,786
29		108,393		-		<u>-</u>		<u>-</u>		-	108,393
	\$	21,678,575	\$	28,844,040	\$	(14,410,145)	\$	39,961	\$	(399,023) \$	35,753,408

Capital Improvement Plan for Impact Fees Appendix E - Impact Fee Calculation Assumptions Service Area D

#### III. Summary of Principal Paid to Date for Existing Debt<sup>(3)</sup>

	G	O 2002	GO 2004	<u>TOTAL</u>
2004		16		16
2005		45	233	278
2006		199	1,391	1,589
2007		259	-	259
2008		101	2,215	2,316
2009		107	1,257	1,365
2010		110	1,299	1,409
2011		163	1,366	1,529
2012		172	1,416	1,588
2013		182	1,490	1,673
2014		192	1,565	1,757
2015		202	1,624	1,826
2016		214	1,690	1,904
2017		225	1,757	1,982
2018		238	1,840	2,078
2019		250	1,940	2,190
2020		265	2,032	2,296
2021		279	2,140	2,419
2022		295	2,257	2,551
	\$	3,514	\$ 27,511	\$ 31,026

#### IV. Summary of Debt Financing

14,410,145
43,500
31,026
74,526

- (1) Appendix E Service Area D, Page 2
- (2) Appendix E Service Area D, Page 1
- (3) Existing debt funded project costs from details provided by staff.
- (4) Appendix E Service Area D, Page 8
- (5) Appendix E Service Area D, Page 1

Capital Improvement Plan for Impact Fees
Appendix E - Impact Fee Calculation Assumptions
Service Area D

<u>Year</u>	Impact <u>Fee</u>	Service <u>Units</u>	ı	Impact Fee <u>Revenue</u>		Annual Expenses		Sub-Total	Accumulated <u>Interest</u>		stimated Fund <u>Balance</u>
Initial											\$ -
1	\$ 4,156	721	\$ 2	,996,782	\$	838,383	\$	2,158,399		36,671	2,195,070
2	4,156	721	2	,996,782		1,664,308		1,332,474		97,227	3,624,772
3	4,156	721	2	,996,782		1,764,488		1,232,294	•	144,106	5,001,172
4	4,156	721	2	,996,782		1,865,205		1,131,577	•	189,165	6,321,914
5	4,156	721	2	,996,782		1,963,545		1,033,237	2	232,373	7,587,525
6	4,156	721	2	,996,782		2,056,673		940,109	2	273,797	8,801,430
7	4,156	721	2	,996,782		2,151,859		844,923	(	313,428	9,959,781
8	4,156	721	2	,996,782		2,245,234		751,548	(	351,202	11,062,531
9	4,156	721	2	,996,782		2,336,846		659,936	(	387,117	12,109,584
10	4,156	721	2	,996,782		3,147,852		(151,071)	4	408,917	12,367,430
11	-	-		-		1,084,633		(1,084,633)	4	401,817	11,684,615
12	-	-		-		1,084,612		(1,084,612)	3	378,616	10,978,619
13	-	-		-		1,084,590		(1,084,590)	3	354,626	10,248,655
14	-	-		-		1,083,929		(1,083,929)	3	329,833	9,494,560
15	-	-		-		1,083,929		(1,083,929)	(	304,209	8,714,840
16	-	-		-		1,083,929		(1,083,929)	2	277,714	7,908,626
17	-	-		-		1,083,929		(1,083,929)	2	250,319	7,075,016
18	-	-		-		1,083,929		(1,083,929)	2	221,993	6,213,081
19	-	-		-		1,083,929		(1,083,929)	•	192,705	5,321,857
20	-	-		-		1,083,929		(1,083,929)	•	162,421	4,400,349
21	-	-		-		975,536		(975,536)		132,949	3,557,762
22	-	-		-		867,143		(867,143)	•	106,160	2,796,779
23	-	-		-		758,750		(758,750)		82,143	2,120,173
24	-	-		-		650,357		(650,357)		60,994	1,530,809
25	-	-		-		541,964		(541,964)		42,809	1,031,654
26	-	-		-		433,571		(433,571)		27,689	625,771
27	-	-		-		325,179		(325,179)		15,739	316,332
28	-	-		-		216,786		(216,786)	7,066		106,612
29	-	-		-	108,393		(108,393)				-
			29	,967,819		35,753,408			5,7	785,589	

Capital Improvement Plan for Impact Fees Appendix E - Impact Fee Calculation Assumptions Service Area D

		Future Value	Escalation				
	Number of	Interest	Recovery				
	Years to	Rate	Fee	Annual Ser	vice Units	Annual	Expense
<u>Year</u>	End of Period	<u>Factor</u>	<u>Factor</u>	<u>Actual</u>	<b>Escalated</b>	<u>Actual</u>	<b>Escalated</b>
1	29	2.5921	1.0000	721	,	\$ 838,383	\$ 2,173,196
2	28	2.5069	1.0000	721	1,807	1,664,308	4,172,325
3	27	2.4246	1.0000	721	1,748	1,764,488	4,278,101
4	26	2.3449	1.0000	721	1,691	1,865,205	4,373,677
5	25	2.2678	1.0000	721	1,635	1,963,545	4,452,960
6	24	2.1933	1.0000	721	1,581	2,056,673	4,510,878
7	23	2.1212	1.0000	721	1,529	2,151,859	4,564,546
8	22	2.0515	1.0000	721	1,479	2,245,234	4,606,098
9	21	1.9841	1.0000	721	1,431	2,336,846	4,636,492
10	20	1.9189	1.0000	721	1,384	3,147,852	6,040,344
11	19	1.8558	1.0000	-	-	1,084,633	2,012,881
12	18	1.7948	1.0000	-	-	1,084,612	1,946,692
13	17	1.7358	1.0000	-	-	1,084,590	1,882,679
14	16	1.6788	1.0000	-	-	1,083,929	1,819,699
15	15	1.6236	1.0000	-	-	1,083,929	1,759,897
16	14	1.5703	1.0000	-	-	1,083,929	1,702,061
17	13	1.5187	1.0000	-	-	1,083,929	1,646,126
18	12	1.4688	1.0000	-	-	1,083,929	1,592,029
19	11	1.4205	1.0000	-	-	1,083,929	1,539,710
20	10	1.3738	1.0000	-	-	1,083,929	1,489,110
21	9	1.3287	1.0000	-	-	975,536	1,296,155
22	8	1.2850	1.0000	-	-	867,143	1,114,275
23	7	1.2428	1.0000	-	-	758,750	942,949
24	6	1.2019	1.0000	-	-	650,357	781,681
25	5	1.1624	1.0000	-	-	541,964	629,993
26	4	1.1242	1.0000	-	-	433,571	487,432
27	3	1.0873	1.0000	-	-	325,179	353,560
28	2	1.0515	1.0000	-	-	216,786	227,960
29	1	1.0170	1.0000	-	<u>-</u>	108,393	110,234
					16,154	35,753,408	67,143,741

Total Escalated Expense for Entire Period Less Future Value of Initial Fund Balance Net Escalated Expense for Entire Period Total Escalated Service Units Impact Fee for Service Area D

\$ 67,143,741
 -
\$ 67,143,741
16,154
\$ 4,156

Capital Improvement Plan for Impact Fees

Appendix E - Impact Fee Calculation Assumptions

Service Area D

	Impact Fee		Total	Percent in		Cost in		Impact Fee		Debt I	une	ied <sup>(3)</sup>	Non-Debt			Impact Fee
Impact Fee Project Name <sup>(1)</sup>	Project No.(1)	Pro	oject Cost (1)	Service Area (1)	Se	ervice Area <sup>(1)</sup>	Re	ecoverable Cost <sup>(2)</sup>		Existing	1	Proposed	1	unded <sup>(3)</sup>	Re	ecoverable Cost
00.407	D.4	•	2.040.000	500/	•	4.070.000	•	242.770	•		•	450,000	•	450,000	•	242.770
CR 107	D-1 D-2	\$	3,940,000	50%	\$	1,970,000	\$	313,776	\$	-	\$	156,888	\$	156,888	\$	313,776
University Blvd (6)			8,500,000	100%		8,500,000		1,353,858		-		676,929		676,929		1,353,858
CR 118	D-3		7,800,000	100%		7,800,000		1,242,364		-		621,182		621,182		1,242,364
Avery Nelson Pkwy (3)	D-4		10,200,000	100%		10,200,000		1,624,629		-		812,315		812,315		1,624,629
Avery Nelson Pkwy (4)	D-5		12,000,000	100%		12,000,000		1,911,329		-		955,664		955,664		1,911,329
Avery Nelson Pkwy (5)	D-6		1,960,000	100%		1,960,000		312,184		-		156,092		156,092		312,184
Kenney Fort Blvd (1)	B-27, D-7		15,018,951	100%		15,018,951		2,392,179		-		1,196,090		1,196,090		2,392,179
Kenney Fort Blvd (6)	D-8		15,018,951	50%		7,509,476		1,196,090		-		598,045		598,045		1,196,090
Kenney Fort Blvd (7)	B-28, D-9		9,173,038	100%		9,173,038		1,461,058		-		730,529		730,529		1,461,058
Kenney Fort Blvd (2)	B-39, D-10		5,000,000	100%		5,000,000		796,387		11,848		392,269		392,269		796,387
Kenney Fort Blvd (3)	B-40, D-11		4,900,000	50%		2,450,000		390,230		5,806		192,212		192,212		390,230
Kenney Fort Blvd (4)	B-41, D-12		10,700,000	100%		10,700,000		1,704,268		25,355		839,456		839,456		1,704,268
Kenney Fort Blvd (8)	B-41, D-13		3,700,000	100%		3,700,000		589,326		8,768		290,279		290,279		589,326
Kenney Fort Blvd (5)	B-42, D-14		9,600,000	100%		9,600,000		1,529,063		22,749		753,157		753,157		1,529,063
Red Bud Ln (1)	D-15		7,300,000	100%		7,300,000		1,162,725		-		581,362		581,362		1,162,725
Red Bud Ln (2)	D-16		5,600,000	50%		2,800,000		445,977		-		222,988		222,988		445,977
Red Bud Ln (3)	D-17		4,700,000	100%		4,700,000		748,604		-		374,302		374,302		748,604
Red Bud Ln (4)	D-18		8,486,565	100%		8,486,565		1,351,718		-		675,859		675,859		1,351,718
Red Bud Ln (5)	D-19		3,446,574	50%		1,723,287		274,481		-		137,240		137,240		274,481
Red Bud Ln (6)	D-20		7,711,173	100%		7,711,173		1,228,216		-		614,108		614,108		1,228,216
CR 122 (1)	D-21		13,671,273	100%		13,671,273		2,177,525		-		1,088,762		1,088,762		2,177,525
CR 122 (2)	D-22		2,472,664	50%		1,236,332		196,920		-		98,460		98,460		196,920
CR 122 (3)	D-23		1,106,506	100%		1,106,506		176,241		-		88,121		88,121		176,241
CR 122 (4)	D-24		3,430,613	50%		1,715,306		273,210		-		136,605		136,605		273,210
Old Settlers Blvd	D-25		20,155,000	100%		20,155,000		3,210,236		-		1,605,118		1,605,118		3,210,236
Update ITS and Traffic Managmenet Infrastructure	-		20,900,000	25%		5,225,000		832,224		-		416,112		416,112		832,224
Transportation Impact Fee Project			23,750	100%		23,750		23,750		-				23,750		23,750
Total		\$	216,515,057		\$	181,435,656	\$	28,918,566	\$	74,526	\$	14,410,145	\$	14,433,895	\$	28,918,566

(1) 2023 Transportation Impact Fee Study, Appendix A

<sup>(2)</sup> Line 16 of the Max Fee Table Report

<sup>(3)</sup> Based on Contributions by Project and Planned Future Debt Financing

Capital Improvement Plan for Impact Fees Appendix E - Impact Fee Calculation Assumptions Service Area D

2023 Vehicle Miles (All Service Areas) 69,995

Ten Year Growth in Vehicle Miles (Service Area D) (1)

7,210

Annual Growth in Vehicle Miles

10 years 721

	1	2	3	4	5		6	7		8	9	10		Total
Total Debt Service Eligible for Impact Fees	\$ 117,290	\$ 225,470	\$ 331,021	\$ 439,195 \$	546,945	\$	651,187	759,553	3 \$	867,920	\$ 976,285	\$ 1,084,6	654	\$ 5,999,521
2023 Vehicle Miles plus Service Area D Growth	70,716	71,437	72,158	72,879	73,600	1	74,321	75,042	2	75,763	76,484	77,2	205	
Total Debt Service Eligible for Impact Fees per Vehicle Mile	\$ 1.66	\$ 3.16	\$ 4.59	\$ 6.03 \$	7.43	\$	8.76	10.12	2 \$	11.46	\$ 12.76	\$ 14	.05	
Annual Growth in Service Area D Vehicle Miles (Cumulative)	721	1,442	2,163	2,884	3,605	i	4,326	5,047	,	5,768	6,489	7,2	210	
Annual Ad Valorem Revenue Generated by Vehicle Miles for Debt Service Eligible for Impact Fees	\$ 1,196	\$ 4,551	\$ 9,923	\$ 17,380 \$	26,790	\$	37,903	51,084	<b>!</b> \$	66,076	\$ 82,828	\$ 101,2	292	\$ 399,023

Credit Amount \$ 399,023

<sup>(1)</sup> Line 8 of the Max Fee Table Report

Capital Improvement Plan for Impact Fees Appendix E - Impact Fee Calculation Assumptions Service Area A

#### I. General Assumptions

Annual Interest Rate on Deposits<sup>(1)</sup>

Annual Service Unit Growth<sup>(2)</sup>

Existing Fund Balance<sup>(3)</sup>

3.40%

1,744

Portion of Projects Funded by Existing Debt<sup>(4)</sup>

Non-debt Funded New Project Cost<sup>(5)</sup>

New Project Cost Funded Through New Debt<sup>(6)</sup>

Total Recoverable Project Cost<sup>(7)</sup>

\$

46,887,728 46,863,978 \$ 98,527,707

4.776.001

#### II. New Debt Issues Assumptions

<u>Year</u>	Principal <sup>(8)</sup>	Interest <sup>(9)</sup>	<u>Term</u>		
1	\$ 4,686,398	4.25%	20		
2	4,686,398	4.25%	20		
3	4,686,398	4.25%	20		
4	4,686,398	4.25%	20		
5	4,686,398	4.25%	20		
6	4,686,398	4.25%	20		
7	4,686,398	4.25%	20		
8	4,686,398	4.25%	20		
9	4,686,398	4.25%	20		
10	4,686,398	4.25%	20		
Total	\$ 46,863,978				

#### III. Capital Expenditure Assumptions

<u>Year</u>	Annual Capital Expenditures <sup>(10)</sup>
1	\$ 7,031,378
2	9,375,171
3	9,375,171
4	9,375,171
5	9,375,171
6	9,375,171
7	9,375,171
8	9,375,171
9	9,375,171
10	11,718,963
Total	\$ 93,751,706

- (1) TexPool 12-Month Average Rate as of June 28, 2023
- (2) Derived from the 10-year Growth Projections Report, Table 7
- (3) Existing fund balances are already encumbered
- (4) Provided by City Staff
- (5) Assumes 50% of new project costs funded through sources other than debt
- (6) Assumes 50% of new project costs funded through new debt issues
- (7) Line 16 of the Max Fee Table Report
- (8) Assumes new debt issued in equal annual amounts
- (9) Estimated interest cost provided by City Staff
- (10) Assumes new debt proceeds expended over a 2-year timeframe with Year 10 bond proceeds spent in one year; Non-debt funded capital expenditures made in equal annual amounts

Capital Improvement Plan for Impact Fees Appendix E - Impact Fee Calculation Assumptions Service Area A

#### I. New Debt Service Detail

Year	ent o	Series <u>1</u>	Series <u>2</u>	Series <u>3</u>	Series <u>4</u>	Series <u>5</u>	Series <u>6</u>	Series <u>7</u>	Series	Series <u>9</u>	Series 10	Total Annual New Debt <u>Service</u>
1	\$	352,510 \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	352,510
2		352,510	352,510	-	-	-	-	-	-	-	-	705,020
3		352,510	352,510	352,510	-	-	-	-	-	-	-	1,057,530
4		352,510	352,510	352,510	352,510	-	-	-	-	-	-	1,410,040
5		352,510	352,510	352,510	352,510	352,510	-	-	-	-	-	1,762,550
6		352,510	352,510	352,510	352,510	352,510	352,510	-	-	-	-	2,115,060
7		352,510	352,510	352,510	352,510	352,510	352,510	352,510	-	-	-	2,467,570
8		352,510	352,510	352,510	352,510	352,510	352,510	352,510	352,510	-	-	2,820,081
9		352,510	352,510	352,510	352,510	352,510	352,510	352,510	352,510	352,510	-	3,172,591
10		352,510	352,510	352,510	352,510	352,510	352,510	352,510	352,510	352,510	352,510	3,525,101
11		352,510	352,510	352,510	352,510	352,510	352,510	352,510	352,510	352,510	352,510	3,525,101
12		352,510	352,510	352,510	352,510	352,510	352,510	352,510	352,510	352,510	352,510	3,525,101
13		352,510	352,510	352,510	352,510	352,510	352,510	352,510	352,510	352,510	352,510	3,525,101
14		352,510	352,510	352,510	352,510	352,510	352,510	352,510	352,510	352,510	352,510	3,525,101
15		352,510	352,510	352,510	352,510	352,510	352,510	352,510	352,510	352,510	352,510	3,525,101
16		352,510	352,510	352,510	352,510	352,510	352,510	352,510	352,510	352,510	352,510	3,525,101
17		352,510	352,510	352,510	352,510	352,510	352,510	352,510	352,510	352,510	352,510	3,525,101
18		352,510	352,510	352,510	352,510	352,510	352,510	352,510	352,510	352,510	352,510	3,525,101
19		352,510	352,510	352,510	352,510	352,510	352,510	352,510	352,510	352,510	352,510	3,525,101
20		352,510	352,510	352,510	352,510	352,510	352,510	352,510	352,510	352,510	352,510	3,525,101
21		-	352,510	352,510	352,510	352,510	352,510	352,510	352,510	352,510	352,510	3,172,591
22		-	-	352,510	352,510	352,510	352,510	352,510	352,510	352,510	352,510	2,820,081
23		-	-	-	352,510	352,510	352,510	352,510	352,510	352,510	352,510	2,467,570
24		-	-	-	-	352,510	352,510	352,510	352,510	352,510	352,510	2,115,060
25		-	-	-	-	-	352,510	352,510	352,510	352,510	352,510	1,762,550
26		-	-	-	-	-	-	352,510	352,510	352,510	352,510	1,410,040
27		-	-	-	-	-	-	-	352,510	352,510	352,510	1,057,530
28		-	-	-	-	-	-	-	-	352,510	352,510	705,020
29		-	-	-	-	-	-	-	-	-	352,510	352,510
	\$	7,050,201 \$	7,050,201 \$	7,050,201 \$	7,050,201 \$	7,050,201 \$	7,050,201 \$	7,050,201 \$	7,050,201 \$	7,050,201 \$	7,050,201 \$	70,502,014

Capital Improvement Plan for Impact Fees Appendix E - Impact Fee Calculation Assumptions Service Area A

#### II. Summary of Annual Expenses

Year		New Annual Debt Service <sup>(1)</sup>	<u>Ex</u>	Annual Capital penditures <sup>(2)</sup>	j	Annual Bond Proceeds <sup>(2)</sup>	Existing Annual Debt <u>Service<sup>(3)</sup></u>			Annual Credit <sup>(4)</sup>	Total <u>Expense</u>
1	\$	352,510	\$	7,031,378	\$	(4,686,398)	\$	331,407	\$	(16,626) \$	3,012,271
2	•	705,020	•	9,375,171	•	(4,686,398)	•	335,520	·	(49,391)	5,679,922
3		1,057,530		9,375,171		(4,686,398)		320,872		(95,868)	5,971,307
4		1,410,040		9,375,171		(4,686,398)		322,787		(157,050)	6,264,550
5		1,762,550		9,375,171		(4,686,398)		325,738		(231,340)	6,545,721
6		2,115,060		9,375,171		(4,686,398)		299,050		(313,966)	6,788,917
7		2,467,570		9,375,171		(4,686,398)		300,670		(411,114)	7,045,899
8		2,820,081		9,375,171		(4,686,398)		303,538		(519,148)	7,293,243
9		3,172,591		9,375,171		(4,686,398)		305,596		(637,101)	7,529,858
10		3,525,101		11,718,963		(4,686,398)		308,811		(764,725)	10,101,752
11		3,525,101		-		-		265,412		-	3,790,513
12		3,525,101		-		-		268,971		-	3,794,072
13		3,525,101		-		-		272,088		-	3,797,189
14		3,525,101		-		-		275,733		-	3,800,833
15		3,525,101		-		-		279,249		-	3,804,350
16		3,525,101		-		-		283,281		-	3,808,382
17		3,525,101		-		-		286,529		-	3,811,629
18		3,525,101		-		-		-		-	3,525,101
19		3,525,101		-		-		-		-	3,525,101
20		3,525,101		-		-		-		-	3,525,101
21		3,172,591		-		-		-		-	3,172,591
22		2,820,081		-		-		-		-	2,820,081
23		2,467,570		-		-		-		-	2,467,570
24		2,115,060		-		-		-		-	2,115,060
25		1,762,550		-		-		-		-	1,762,550
26		1,410,040		-		-		-		-	1,410,040
27		1,057,530		-		-		-		-	1,057,530
28		705,020		-		-		-		-	705,020
29		352,510				-	_			-	352,510
	\$	70,502,014	\$	93,751,706	\$	(46,863,978)	\$	5,085,250	\$	(3,196,329) \$	119,278,663

Capital Improvement Plan for Impact Fees Appendix E - Impact Fee Calculation Assumptions Service Area A

#### III. Summary of Principal Paid to Date for Existing Debt (3)

	<u>G</u>	O 2002	GC	2004	GO 2007	CO 2014	<u>TOTAL</u>
2004		1,203					1,203
2005		3,281		1,475			4,755
2006		14,489		8,795			23,284
2007		18,863		-			18,863
2008		7,381		14,009			21,390
2009		7,819		7,953	15,839		31,610
2010		8,037		8,216	16,515		32,768
2011		11,919		8,637	17,288		37,844
2012		12,575		8,953	18,157		39,686
2013		13,286		9,427	18,930		41,643
2014		13,997		9,901	19,896		43,794
2015		14,762		10,270	20,765		45,797
2016		15,583		10,691	21,731	22,566	70,570
2017		16,403		11,113	22,793	100,578	150,886
2018		17,332		11,639	23,759	102,512	155,242
2019		18,262		12,271	24,918	105,091	160,542
2020		19,300		12,851	26,077	108,959	167,187
2021		20,339		13,535	27,236	113,473	174,583
2022		21,487		14,273	28,588	117,986	182,333
	\$	256,319	\$	174,009	\$ 302,490	\$ 671,164 \$	1,403,982

#### IV. Summary of Debt Financing

Principal Component	\$ 50.235.997
New Project Costs Debt Principal (5)	46,863,978
Outstanding Debt Principal	3,372,019
-Less Principal PTD	1,403,982
Existing Debt Funded Project Costs (5)	4,776,001

<sup>(1)</sup> Appendix E - Service Area A, Page 2

<sup>(2)</sup> Appendix E - Service Area A, Page 1

<sup>(3)</sup> Existing debt funded project costs from details provided by staff.

<sup>(4)</sup> Appendix E - Service Area A, Page 8

<sup>(5)</sup> Appendix E - Service Area A, Page 1

Capital Improvement Plan for Impact Fees Appendix E - Impact Fee Calculation Assumptions Service Area A

<u>Year</u>	Impact <u>Fee</u>	Service <u>Units</u>	Impact Fee <u>Revenue</u>	Annual Expenses	Sub-Total	Accumulated Interest	Estimated Fund <u>Balance</u>
Initial							\$ -
1	\$ 5,740	1,744	\$ 10,011,142	\$ 3,012,271	\$ 6,998,871	118,911	7,117,782
2	5,740	1,744	10,011,142	5,679,922	4,331,220	315,450	11,764,451
3	5,740	1,744	10,011,142	5,971,307	4,039,834	468,393	16,272,678
4	5,740	1,744	10,011,142	6,264,550	3,746,591	616,600	20,635,870
5	5,740	1,744	10,011,142	6,545,721	3,465,421	760,084	24,861,375
6	5,740	1,744	10,011,142	6,788,917	3,222,224	899,535	28,983,134
7	5,740	1,744	10,011,142	7,045,899	2,965,242	1,035,226	32,983,603
8	5,740	1,744	10,011,142	7,293,243	2,717,898	1,166,960	36,868,461
9	5,740	1,744	10,011,142	7,529,858	2,481,283	1,294,947	40,644,692
10	5,740	1,744	10,011,142	10,101,752	(90,611)	1,379,567	41,933,648
11	-	-	-	3,790,513	(3,790,513)	1,360,505	39,503,640
12	-	-	-	3,794,072	(3,794,072)	1,277,872	36,987,441
13	_	-	-	3,797,189	(3,797,189)	1,192,319	34,382,571
14	-	-	-	3,800,833	(3,800,833)	1,103,744	31,685,481
15	-	-	-	3,804,350	(3,804,350)	1,012,037	28,893,169
16	-	-	-	3,808,382	(3,808,382)	917,085	26,001,872
17	-	-	-	3,811,629	(3,811,629)	818,784	23,009,027
18	-	-	-	3,525,101	(3,525,101)	721,955	20,205,881
19	-	-	-	3,525,101	(3,525,101)	626,704	17,307,485
20	-	-	-	3,525,101	(3,525,101)	528,217	14,310,601
21	-	-	-	3,172,591	(3,172,591)	432,372	11,570,383
22	-	-	-	2,820,081	(2,820,081)	345,248	9,095,550
23	-	-	-	2,467,570	(2,467,570)	267,143	6,895,123
24	-	-	-	2,115,060	(2,115,060)	198,361	4,978,424
25	-	-	-	1,762,550	(1,762,550)	139,221	3,355,095
26	-	-	-	1,410,040	(1,410,040)	90,050	2,035,104
27	-	-	-	1,057,530	(1,057,530)	51,185	1,028,759
28	-	-	-	705,020	(705,020)	22,979	346,718
29	-	-		352,510	(352,510)	5,792	-
			100,111,415	119,278,663		19,167,248	

Capital Improvement Plan for Impact Fees Appendix E - Impact Fee Calculation Assumptions Service Area A

	Number of Years to	Future Value Interest Rate	Escalation Recovery Fee	Annual Ser	vice Units	Annual	Expense		
Year	End of Period	Factor	Factor		ctual Escalated		Escalated		
<u>rear</u>	Ella di Perida	<u>ractor</u>	<u>ractor</u>	Actual	ESCAIALEU	<u>Actual</u>	ESCAIALEU		
1	29	2.5921	1.0000	1,744	4,521	\$ 3,012,271	\$ 7,808,193		
2	28	2.5069	1.0000	1,744	4,372	5,679,922	14,239,238		
3	27	2.4246	1.0000	1,744	4,228	5,971,307	14,477,771		
4	26	2.3449	1.0000	1,744	4,090	6,264,550	14,689,603		
5	25	2.2678	1.0000	1,744	3,955	6,545,721	14,844,497		
6	24	2.1933	1.0000	1,744	3,825	6,788,917	14,890,057		
7	23	2.1212	1.0000	1,744	3,699	7,045,899	14,945,834		
8	22	2.0515	1.0000	1,744	3,578	7,293,243	14,962,091		
9	21	1.9841	1.0000	1,744	3,460	7,529,858	14,939,850		
10	20	1.9189	1.0000	1,744	3,347	10,101,752	19,384,028		
11	19	1.8558	1.0000	-	-	3,790,513	7,034,498		
12	18	1.7948	1.0000	-	-	3,794,072	6,809,709		
13	17	1.7358	1.0000	-	-	3,797,189	6,591,330		
14	16	1.6788	1.0000	-	-	3,800,833	6,380,836		
15	15	1.6236	1.0000	-	-	3,804,350	6,176,850		
16	14	1.5703	1.0000	-	-	3,808,382	5,980,190		
17	13	1.5187	1.0000	-	-	3,811,629	5,788,593		
18	12	1.4688	1.0000	-	-	3,525,101	5,177,519		
19	11	1.4205	1.0000	-	-	3,525,101	5,007,369		
20	10	1.3738	1.0000	-	-	3,525,101	4,842,810		
21	9	1.3287	1.0000	-	-	3,172,591	4,215,294		
22	8	1.2850	1.0000	-	-	2,820,081	3,623,791		
23	7	1.2428	1.0000	-	-	2,467,570	3,066,614		
24	6	1.2019	1.0000	-	-	2,115,060	2,542,144		
25	5	1.1624	1.0000	-	-	1,762,550	2,048,834		
26	4	1.1242	1.0000	-	-	1,410,040	1,585,202		
27	3	1.0873	1.0000	-	-	1,057,530	1,149,830		
28	2	1.0515	1.0000	-	-	705,020	741,362		
29	1	1.0170	1.0000	<u> </u>	<u> </u>	352,510	358,499		
					39,075	119,278,663	224,302,437		

Total Escalated Expense for Entire Period Less Future Value of Initial Fund Balance Net Escalated Expense for Entire Period Total Escalated Service Units Impact Fee for Service Area A

\$ 224,302,437
-
\$ 224,302,437
39,075
\$ 5.740

Capital Improvement Plan for Impact Fees
Appendix E - Impact Fee Calculation Assumptions
Service Area A

	Impact Fee	Total	Percent in	Cost in	Impact Fee	Debt F	unded <sup>(3)</sup>	Non-Debt	Impact Fee
Impact Fee Project Name <sup>(1)</sup>	Project No.(1)	Project Cost (1)	Service Area (1)	Service Area <sup>(1)</sup>	Recoverable Cost <sup>(2)</sup>	Existing	Proposed	Funded <sup>(3)</sup>	Recoverable Cost
New Hope Rd (1)	A-1	\$ 16,500,000	100%	\$ 16,500,000	\$ 7,155,999	\$ -	\$ 3,577,999	\$ 3,577,999	\$ 7,155,999
New Hope Rd (2)	A-2	8,200,000	50%	4,100,000	1,778,157	-	889,079	889,079	1,778,157
New Hope Rd (3)	A-3	11,100,000	50%	5,550,000	2,407,018	-	1,203,509	1,203,509	2,407,018
Westinghouse Rd	A-4, B-1	9,152,896	50%	4,576,448	1,984,791	-	992,396	992,396	1,984,791
RM 1431 (1)	A-7	5,180,000	50%	2,590,000	1,123,275	-	561,637	561,637	1,123,275
RM 1431 (2)	A-8	5,200,000	100%	5,200,000	2,255,224	-	1,127,612	1,127,612	2,255,224
RM 1431 (3)	A-9	6,960,000	50%	3,480,000	1,509,265	-	754,633	754,633	1,509,265
Wyoming Springs Dr (3)	A-10	1,800,000	100%	1,800,000	780,654	-	390,327	390,327	780,654
Eagles Nest Dr (1)	A-11	41,600,000	100%	41,600,000	18,041,790	-	9,020,895	9,020,895	18,041,790
Creek Bend Blvd (1)	A-12	13,800,000	100%	13,800,000	5,985,017	-	2,992,508	2,992,508	5,985,017
Creek Bend Blvd (2)	A-13	3,500,000	100%	3,500,000	1,517,939	-	758,970	758,970	1,517,939
Chisholm Trl Rd (1)	A-14	19,400,000	100%	19,400,000	8,413,719	-	4,206,860	4,206,860	8,413,719
Eagles Nest Dr (2)	A-15, B-11	12,216,939	100%	12,216,939	5,298,448	-	2,649,224	2,649,224	5,298,448
CR 173	A-16	2,100,000	100%	2,100,000	910,763	-	455,382	455,382	910,763
Chisholm Trl Rd (2)	A-17	5,000,000	100%	5,000,000	2,168,484	-	1,084,242	1,084,242	2,168,484
Sam Bass Rd (3)	A-21	3,900,000	50%	1,950,000	845,709	-	422,854	422,854	845,709
Sam Bass Rd (4)	A-22	2,100,000	100%	2,100,000	910,763	-	455,382	455,382	910,763
Sam Bass Rd (5)	A-23	2,400,000	100%	2,400,000	1,040,873	-	520,436	520,436	1,040,873
Sam Bass Rd (6)	A-24	14,800,000	50%	7,400,000	3,209,357	-	1,604,678	1,604,678	3,209,357
Wyoming Springs Dr (4)	A-26	26,379,928	100%	26,379,928	11,440,892	-	5,720,446	5,720,446	11,440,892
Creek Bend Blvd (3)	A-28	11,012,302	100%	11,012,302	4,776,001	4,776,001	-	-	4,776,001
Deepwood Dr (1)	A-29	18,900,346	100%	18,900,346	8,197,021	-	4,098,511	4,098,511	8,197,021
Deepwood Dr (2)	A-30	1,400,000	100%	1,400,000	607,176	-	303,588	303,588	607,176
RM 620	A-31, C-1	12,560,624	50%	6,280,312	2,723,752	-	1,361,876	1,361,876	2,723,752
Sam Bass Rd and FM 3406	Al-1	550,000	100%	550,000	238,533	-	119,267	119,267	238,533
Sam Bass Rd and Hairy Man Rd	Al-2	2,500,000	75%	1,875,000	813,182	-	406,591	406,591	813,182
Sam Bass Rd and Chisholm Trl Rd	AI-3	240,000	100%	240,000	104,087	-	52,044	52,044	104,087
Update ITS and Traffic Managmenet Infrastructure	-	20,900,000	25%	5,225,000	2,266,066	-	1,133,033	1,133,033	2,266,066
Roadway Impact Fee Project		23,750	100%	23,750	23,750	-	-	23,750	23,750
Total		\$ 279,376,785	-	\$ 227,150,025	\$ 98,527,707	\$ 4,776,001	\$ 46,863,978	\$ 46,887,728	\$ 98,527,707

<sup>(1) 2023</sup> Transportation Impact Fee Study, Appendix A

<sup>(2)</sup> Line 16 of the Max Fee Table Report

<sup>(3)</sup> Based on Contributions by Project and Planned Future Debt Financing

Capital Improvement Plan for Impact Fees Appendix E - Impact Fee Calculation Assumptions Service Area A

2023 Vehicle Miles (All Service Areas) 69,995

Ten Year Growth in Vehicle Miles (Service Area A) (1) 17,440

Annual Growth in Vehicle Miles 1,744

	1		2	3		4		5		6	7		8		9		10	Total
Total Debt Service Eligible for Impact Fees	\$ 683,917	\$ 1	,040,540	\$ 1,378,	402	\$ 1,732,82	7 \$	2,088,288	\$ 2,	,414,110	\$ 2,768,24	1 \$	3,123,619	\$ 3	3,478,187	\$ 3,	833,911	\$ 22,542,042
2023 Vehicle Miles plus Service Area A Growth	71,739		73,483	75,	227	76,97	2	78,716		80,460	82,20	4	83,948		85,692		87,436	į
Total Debt Service Eligible for Impact Fees per Vehicle Mile	\$ 9.53	\$	14.16	\$ 18	3.32	\$ 22.5	1 \$	26.53	\$	30.00	\$ 33.6	8 \$	37.21	\$	40.59	\$	43.85	
Annual Growth in Service Area A Vehicle Miles (Cumulative)	1,744		3,488	5,	232	6,97	6	8,720		10,464	12,20	8	13,952		15,696		17,440	
Annual Ad Valorem Revenue Generated by Vehicle Miles for Debt Service Eligible for Impact Fees	\$ 16,626	\$	49,391	\$ 95,	868	\$ 157,05	0 \$	231,340	\$	313,966	\$ 411,11	4 \$	519,148	\$	637,101	\$	764,725	\$ 3,196,329

Credit Amount \$ 3,196,329

<sup>(1)</sup> Line 8 of the Max Fee Table Report

Capital Improvement Plan for Impact Fees Appendix E - Impact Fee Calculation Assumptions Service Area B

#### I. General Assumptions

Annual Interest Rate on Deposits <sup>(1)</sup>	3.40%
Annual Service Unit Growth <sup>(2)</sup>	1,528
Existing Fund Balance <sup>(3)</sup>	-

Portion of Projects Funded by Existing Debt<sup>(4)</sup>
Non-debt Funded New Project Cost<sup>(5)</sup>
New Project Cost Funded Through New Debt<sup>(6)</sup>
Total Recoverable Project Cost<sup>(7)</sup>

\$ 481,019
35,488,172
35,239,130

71,208,321

#### II. New Debt Issues Assumptions

<u>Year</u>	Principal <sup>(8)</sup>	Interest <sup>(9)</sup>	<u>Term</u>
1	\$ 3,523,913	4.25%	20
2	3,523,913	4.25%	20
3	3,523,913	4.25%	20
4	3,523,913	4.25%	20
5	3,523,913	4.25%	20
6	3,523,913	4.25%	20
7	3,523,913	4.25%	20
8	3,523,913	4.25%	20
9	3,523,913	4.25%	20
10	3,523,913	4.25%	20
Total	\$ 35,239,130		

#### III. Capital Expenditure Assumptions

<u>Year</u>	Annual Capital <u>Expenditures<sup>(10)</sup></u>
1	\$ 5,304,548
2	7,072,730
3	7,072,730
4	7,072,730
5	7,072,730
6	7,072,730
7	7,072,730
8	7,072,730
9	7,072,730
10	8,840,913
Total	\$ 70,727,302

- (1) TexPool 12-Month Average Rate as of June 28, 2023
- (2) Derived from the 10-year Growth Projections Report, Table 7
- (3) Existing fund balances are already encumbered
- (4) Provided by City Staff
- (5) Assumes 50% of new project costs funded through sources other than debt
- (6) Assumes 50% of new project costs funded through new debt issues
- (7) Line 16 of the Max Fee Table Report
- (8) Assumes new debt issued in equal annual amounts
- (9) Estimated interest cost provided by City Staff
- (10) Assumes new debt proceeds expended over a 2-year timeframe with Year 10 bond proceeds spent in one year; Non-debt funded capital expenditures made in equal annual amounts

Capital Improvement Plan for Impact Fees Appendix E - Impact Fee Calculation Assumptions Service Area B

#### I. New Debt Service Detail

<u>Year</u>	Series <u>1</u>	Series <u>2</u>	Series	Series	Series <u>5</u>	Series	Series <u>7</u>	Series <u>8</u>	Series <u>9</u>	Series 10	Annual New Debt <u>Service</u>
1	\$ 265,068	\$ - \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	265,068
2	265,068	265,068	-	-	-	-	-	-	-	-	530,136
3	265,068	265,068	265,068	-	-	-	-	-	-	-	795,204
4	265,068	265,068	265,068	265,068	-	-	-	-	-	-	1,060,273
5	265,068	265,068	265,068	265,068	265,068	-	-	-	-	-	1,325,341
6	265,068	265,068	265,068	265,068	265,068	265,068	-	-	-	-	1,590,409
7	265,068	265,068	265,068	265,068	265,068	265,068	265,068	-	-	-	1,855,477
8	265,068	265,068	265,068	265,068	265,068	265,068	265,068	265,068	-	-	2,120,545
9	265,068	265,068	265,068	265,068	265,068	265,068	265,068	265,068	265,068	-	2,385,613
10	265,068	265,068	265,068	265,068	265,068	265,068	265,068	265,068	265,068	265,068	2,650,682
11	265,068	265,068	265,068	265,068	265,068	265,068	265,068	265,068	265,068	265,068	2,650,682
12	265,068	265,068	265,068	265,068	265,068	265,068	265,068	265,068	265,068	265,068	2,650,682
13	265,068	265,068	265,068	265,068	265,068	265,068	265,068	265,068	265,068	265,068	2,650,682
14	265,068	265,068	265,068	265,068	265,068	265,068	265,068	265,068	265,068	265,068	2,650,682
15	265,068	265,068	265,068	265,068	265,068	265,068	265,068	265,068	265,068	265,068	2,650,682
16	265,068	265,068	265,068	265,068	265,068	265,068	265,068	265,068	265,068	265,068	2,650,682
17	265,068	265,068	265,068	265,068	265,068	265,068	265,068	265,068	265,068	265,068	2,650,682
18	265,068	265,068	265,068	265,068	265,068	265,068	265,068	265,068	265,068	265,068	2,650,682
19	265,068	265,068	265,068	265,068	265,068	265,068	265,068	265,068	265,068	265,068	2,650,682
20	265,068	265,068	265,068	265,068	265,068	265,068	265,068	265,068	265,068	265,068	2,650,682
21	-	265,068	265,068	265,068	265,068	265,068	265,068	265,068	265,068	265,068	2,385,613
22	-	-	265,068	265,068	265,068	265,068	265,068	265,068	265,068	265,068	2,120,545
23	-	-	-	265,068	265,068	265,068	265,068	265,068	265,068	265,068	1,855,477
24	-	-	-	-	265,068	265,068	265,068	265,068	265,068	265,068	1,590,409
25	-	-	-	-	-	265,068	265,068	265,068	265,068	265,068	1,325,341
26	-	-	-	-	-	-	265,068	265,068	265,068	265,068	1,060,273
27	-	-	-	-	-	-	-	265,068	265,068	265,068	795,204
28	-	-	-	-	-	-	-	-	265,068	265,068	530,136
29		-	-	-	-	-	-	-	-	265,068	265,068
	\$ 5,301,363	\$ 5,301,363 \$	5,301,363 \$	5,301,363 \$	5,301,363 \$	5,301,363 \$	5,301,363 \$	5,301,363 \$	5,301,363 \$	5,301,363 \$	53,013,631

Total

Capital Improvement Plan for Impact Fees Appendix E - Impact Fee Calculation Assumptions Service Area B

#### II. Summary of Annual Expenses

Year		New Annual Debt <u>Service<sup>(1)</sup></u>	ļ	Annual Capital Expenditures <sup>(2)</sup>		Annual Bond <u>Proceeds<sup>(2)</sup></u>		Existing Annual Debt Service <sup>(3)</sup>		Annual Credit <sup>(4)</sup>	Total <u>Expense</u>
1	\$	265,068	\$	5,304,548	\$	(3,523,913)	\$	35,500	\$	(6,422) \$	2,074,781
2	•	530,136	•	7,072,730	·	(3,523,913)	•	35,762	•	(23,677)	4,091,038
3		795,204		7,072,730		(3,523,913)		28,690		(50,649)	4,322,064
4		1,060,273		7,072,730		(3,523,913)		28,818		(87,476)	4,550,431
5		1,325,341		7,072,730		(3,523,913)		28,977		(133,297)	4,769,838
6		1,590,409		7,072,730		(3,523,913)		14,948		(185,946)	4,968,228
7		1,855,477		7,072,730		(3,523,913)		15,045		(247,983)	5,171,357
8		2,120,545		7,072,730		(3,523,913)		15,214		(317,581)	5,366,996
9		2,385,613		7,072,730		(3,523,913)		15,335		(394,311)	5,555,454
10		2,650,682		8,840,913		(3,523,913)		15,524		(477,809)	7,505,397
11		2,650,682		-		-		15,743		-	2,666,425
12		2,650,682		-		-		15,955		-	2,666,636
13		2,650,682		-		-		16,139		-	2,666,821
14		2,650,682		-		-		16,356		-	2,667,037
15		2,650,682		-		-		16,564		-	2,667,246
16		2,650,682		-		-		16,803		-	2,667,485
17		2,650,682		-		-		16,996		-	2,667,678
18		2,650,682		-		-		-		-	2,650,682
19		2,650,682		-		-		-		-	2,650,682
20		2,650,682		-		-		-		-	2,650,682
21		2,385,613		-		-		-		-	2,385,613
22		2,120,545		-		-		-		-	2,120,545
23		1,855,477		-		-		-		-	1,855,477
24		1,590,409		-		-		-		-	1,590,409
25		1,325,341		-		-		-		-	1,325,341
26		1,060,273		-		-		-		-	1,060,273
27		795,204		-		-		-		-	795,204
28		530,136		-		-		-		-	530,136
29		265,068		-		-		-		<u> </u>	265,068
	\$	53,013,631	\$	70,727,302	\$	(35,239,130)	\$	348,370	\$	(1,925,151) \$	86,925,022

Capital Improvement Plan for Impact Fees Appendix E - Impact Fee Calculation Assumptions Service Area B

### III. Summary of Principal Paid to Date for Existing Debt<sup>(3)</sup>

	9	O 2002	GO 2004	<u>c</u>	O 2014	TOTAL
2004		577				577
2005		1,575	639			2,214
2006		6,954	3,813			10,767
2007		9,054	-			9,054
2008		3,543	6,073			9,616
2009		3,753	3,448			7,200
2010		3,858	3,562			7,419
2011		5,721	3,744			9,465
2012		6,036	3,881			9,917
2013		6,377	4,087			10,464
2014		6,718	4,292			11,010
2015		7,085	4,452			11,537
2016		7,479	4,635		1,339	13,452
2017		7,873	4,817		5,966	18,656
2018		8,319	5,046		6,081	19,445
2019		8,765	5,320		6,234	20,318
2020		9,263	5,571		6,463	21,297
2021		9,762	5,868		6,731	22,360
2022		10,313	6,187		6,999	23,499
	\$	123,023	\$ 75,434	\$	39,811	\$ 238,268

#### IV. Summary of Debt Financing

Existing Debt Funded Project Costs (5)	481,019
-Less Principal PTD	238,268
Outstanding Debt Principal	242,750
New Project Costs Debt Principal (5)	35,239,130
Principal Component	\$ 35,481,881

<sup>(1)</sup> Appendix E - Service Area B, Page 2

<sup>(2)</sup> Appendix E - Service Area B, Page 1

<sup>(3)</sup> Existing debt funded project costs from details provided by staff.

<sup>(4)</sup> Appendix E - Service Area B, Page 8

<sup>(5)</sup> Appendix E - Service Area B, Page 1

Capital Improvement Plan for Impact Fees Appendix E - Impact Fee Calculation Assumptions Service Area B

<u>Year</u>	Impact <u>Fee</u>	Service <u>Units</u>	Impact Fee <u>Revenue</u>		Annual Expenses		<u>Sub-Total</u>		Accumulated <u>Interest</u>		stimated Fund Balance
Initial											\$ _
1	\$ 4,765	1,528	\$ 7	,281,750	\$	2,074,781	\$	5,206,969		88,466	5,295,435
2	4,765	1,528	7	,281,750		4,091,038		3,190,712		234,149	8,720,296
3	4,765	1,528	7	,281,750		4,322,064		2,959,686		346,601	12,026,583
4	4,765	1,528	7	,281,750		4,550,431		2,731,318		455,068	15,212,970
5	4,765	1,528	7	,281,750		4,769,838		2,511,911		559,614	18,284,495
6	4,765	1,528	7	,281,750		4,968,228		2,313,521		660,614	21,258,630
7	4,765	1,528	7	,281,750		5,171,357		2,110,393		758,224	24,127,247
8	4,765	1,528	7	,281,750		5,366,996		1,914,754		852,376	26,894,376
9	4,765	1,528	7	,281,750		5,555,454		1,726,295		943,201	29,563,872
10	4,765	1,528	7	,281,750		7,505,397		(223,647)	1,	,000,781	30,341,006
11	-	-		-		2,666,425		(2,666,425)		985,685	28,660,266
12	-	-		-		2,666,636		(2,666,636)		928,570	26,922,199
13	-	-		-		2,666,821		(2,666,821)		869,507	25,124,885
14	-	-		-		2,667,037		(2,667,037)		808,431	23,266,279
15	-	-		-		2,667,246		(2,667,246)		745,272	21,344,305
16	-	-		-		2,667,485		(2,667,485)		679,959	19,356,779
17	-	-		-		2,667,678		(2,667,678)		612,420	17,301,521
18	-	-		-		2,650,682		(2,650,682)		542,871	15,193,710
19	-	-		-		2,650,682		(2,650,682)		471,247	13,014,276
20	-	-		-		2,650,682		(2,650,682)		397,190	10,760,784
21	-	-		-		2,385,613		(2,385,613)		325,120	8,700,290
22	-	-		-		2,120,545		(2,120,545)		259,608	6,839,353
23	-	-		-		1,855,477		(1,855,477)		200,877	5,184,753
24	-	-		-		1,590,409		(1,590,409)		149,157	3,743,500
25	-	-		-		1,325,341		(1,325,341)		104,687	2,522,846
26	-	-		-		1,060,273		(1,060,273)		67,712	1,530,286
27	-	-		-		795,204		(795,204)		38,489	773,570
28	-	-		-		530,136		(530,136)		17,279	260,713
29	-	-	_			265,068		(265,068)		4,356	-
			72	,817,496		86,925,022	•		14,	107,526	

Capital Improvement Plan for Impact Fees
Appendix E - Impact Fee Calculation Assumptions
Service Area B

	Number of Years to	Future Value Interest Rate	Escalation Recovery Fee	Annual Ser	vice Units	Annual	Expense
Year	End of Period	Factor	Factor	Actual	Escalated	Actual	Escalated
<u> 1041</u>	<u> </u>	<u> </u>	<u>- 40101</u>	7 totaar	<u> Loouiutou</u>	<del>- totaar</del>	<u> </u>
1	29	2.5921	1.0000	1,528	3,961	\$ 2,074,781	\$ 5,378,098
2	28	2.5069	1.0000	1,528	3,831	4,091,038	10,255,997
3	27	2.4246	1.0000	1,528	3,705	4,322,064	10,479,087
4	26	2.3449	1.0000	1,528	3,584	4,550,431	10,670,204
5	25	2.2678	1.0000	1,528	3,466	4,769,838	10,817,120
6	24	2.1933	1.0000	1,528	3,352	4,968,228	10,896,761
7	23	2.1212	1.0000	1,528	3,242	5,171,357	10,969,535
8	22	2.0515	1.0000	1,528	3,135	5,366,996	11,010,394
9	21	1.9841	1.0000	1,528	3,032	5,555,454	11,022,473
10	20	1.9189	1.0000	1,528	2,933	7,505,397	14,401,939
11	19	1.8558	1.0000	-	-	2,666,425	4,948,397
12	18	1.7948	1.0000	-	-	2,666,636	4,786,155
13	17	1.7358	1.0000	-	-	2,666,821	4,629,187
14	16	1.6788	1.0000	-	-	2,667,037	4,477,420
15	15	1.6236	1.0000	-	-	2,667,246	4,330,616
16	14	1.5703	1.0000	-	-	2,667,485	4,188,673
17	13	1.5187	1.0000	-	-	2,667,678	4,051,312
18	12	1.4688	1.0000	-	-	2,650,682	3,893,209
19	11	1.4205	1.0000	-	-	2,650,682	3,765,266
20	10	1.3738	1.0000	-	-	2,650,682	3,641,527
21	9	1.3287	1.0000	-	-	2,385,613	3,169,669
22	8	1.2850	1.0000	-	-	2,120,545	2,724,891
23	7	1.2428	1.0000	-	-	1,855,477	2,305,925
24	6	1.2019	1.0000	-	-	1,590,409	1,911,552
25	5	1.1624	1.0000	-	-	1,325,341	1,540,610
26	4	1.1242	1.0000	-	-	1,060,273	1,191,985
27	3	1.0873	1.0000	-	-	795,204	864,609
28	2	1.0515	1.0000	-	-	530,136	557,463
29	1	1.0170	1.0000	<u> </u>	-	265,068	269,572
					34,241	86,925,022	163,149,644

Total Escalated Expense for Entire Period Less Future Value of Initial Fund Balance Net Escalated Expense for Entire Period Total Escalated Service Units Impact Fee for Service Area B \$ 163,149,644 -\$ 163,149,644 34,241 \$ 4,765

Capital Improvement Plan for Impact Fees
Appendix E - Impact Fee Calculation Assumptions
Service Area B

Impact Fee		Total	Percent in	Cost in	Impact Fee	Debt F	unded <sup>(3)</sup>	Non-Debt	Impact Fee
Impact Fee Project Name <sup>(1)</sup>	Project No. (1)	Project Cost (1)	Service Area (1)	Service Area <sup>(1)</sup>	Recoverable Cost <sup>(2)</sup>	Existing	Proposed	Funded <sup>(3)</sup>	Recoverable Cost
Westinghouse Rd (1)	A-4, B-1	\$ 9,152,896	50%	\$ 4,576,448	\$ 974,365	\$ -	\$ 487,182	\$ 487,182	\$ 974,365
University Blvd (1)	B-4	17,220,832	100%	17,220,832	3,666,463	_	1,833,231	1,833,231	3,666,463
University Blvd (2)	B-5	53,300,000	50%	26,650,000	5,674,013	_	2,837,007	2,837,007	5,674,013
University Blvd (3)	B-6	8,200,000	100%	8,200,000	1,745,850	-	872,925	872,925	1,745,850
University Blvd (4)	B-7	17,000,000	50%	8,500,000	1,809,723	-	904,861	904,861	1,809,723
University Blvd (5)	B-8	4,300,000	100%	4,300,000	915,507	-	457,753	457,753	915,507
N Mays St (2)	B-9	8,300,000	100%	8,300,000	1,767,141	-	883,571	883,571	1,767,141
Eagles Nest (1)	A-15, B-11	12,216,939	50%	6,108,470	1,300,545	-	650,273	650,273	1,300,545
Eagles Nest (2)	B-12	21,436,451	100%	21,436,451	4,564,004	-	2,282,002	2,282,002	4,564,004
N Mays St (4)	B-13	5,500,000	100%	5,500,000	1,170,997	-	585,499	585,499	1,170,997
Sunrise Rd (2)	B-15	1,600,000	100%	1,600,000	340,654	-	170,327	170,327	340,654
Sunrise Rd (3)	B-16	900,000	50%	450,000	95,809	-	47,904	47,904	95,809
Sunrise Rd (4)	B-17	700,000	100%	700,000	149,036	-	74,518	74,518	149,036
Sunrise Rd (5)	B-18	300,000	50%	150,000	31,936	-	15,968	15,968	31,936
Sunrise Rd (6)	B-19	1,200,000	100%	1,200,000	255,490	-	127,745	127,745	255,490
Wallin Bradley (2)	B-21	6,600,000	100%	6,600,000	1,405,197	-	702,598	702,598	1,405,197
College Park (2)	B-22	21,700,000	100%	21,700,000	4,620,116	-	2,310,058	2,310,058	4,620,116
Seton Pkwy	B-23	1,795,839	100%	1,795,839	382,350	382,350	-	-	382,350
Medical Center Pkwy	B-24	1,058,160	100%	1,058,160	225,291	-	-	225,291	225,291
Avery Nelson Pkwy (1)	B-25	14,000,000	100%	14,000,000	2,980,720	-	1,490,360	1,490,360	2,980,720
Avery Nelson Pkwy (2)	B-26	11,800,000	50%	5,900,000	1,256,161	-	628,080	628,080	1,256,161
Kenney Fort Blvd (1)	B-27, D-7	15,018,951	100%	15,018,951	3,197,663	-	1,598,832	1,598,832	3,197,663
Kenney Fort Blvd (3)	B-28, D-9	9,173,038	100%	9,173,038	1,953,018	-	976,509	976,509	1,953,018
Old Settlers Blvd (1)	B-31	14,700,000	100%	14,700,000	3,129,756	-	1,564,878	1,564,878	3,129,756
Old Settlers Blvd (2)	B-32	31,100,000	100%	31,100,000	6,621,456	-	3,310,728	3,310,728	6,621,456
N Mays St	B-34	3,900,000	100%	3,900,000	830,343	-	415,172	415,172	830,343
Sunrise Rd (7)	B-35	800,000	100%	800,000	170,327	-	85,163	85,163	170,327
FM 1460 (A.W. Grimes Blvd) (1)	B-36	1,820,000	100%	1,820,000	387,494	-	193,747	193,747	387,494
FM 1460 (A.W. Grimes Blvd) (2)	B-37	1,620,000	50%	810,000	172,456	-	86,228	86,228	172,456
FM 1460 (A.W. Grimes Blvd) (3)	B-38	6,960,000	100%	6,960,000	1,481,844	-	740,922	740,922	1,481,844
Kenney Fort Blvd (4)	B-39, D-10	5,000,000	100%	5,000,000	1,064,543	17,778	523,382	523,382	1,064,543
Kenney Fort Blvd (5)	B-40, D-11	4,900,000	50%	2,450,000	521,626	8,711	256,457	256,457	521,626
Kenney Fort Blvd (6)	B-41, D-12	10,700,000	100%	10,700,000	2,278,122	38,045	1,120,038	1,120,038	2,278,122
Kenney Fort Blvd (7)	B-42, D-14	9,600,000	100%	9,600,000	2,043,922	34,134	1,004,894	1,004,894	2,043,922
US 79 (1)	B-46, C-6	16,379,383	50%	8,189,692	1,743,655	-	871,828	871,828	1,743,655
US 79 (3)	B-47	1,600,000	50%	800,000	170,327	-	85,163	85,163	170,327
Joe Dimaggio Blvd Extension	B-48	7,000,000	100%	7,000,000	1,490,360	-	745,180	745,180	1,490,360
Wallin Bradley (1)	B-49	9,500,000	100%	9,500,000	2,022,631	-	1,011,316	1,011,316	2,022,631
Wallin Bradley (3)	B-50	18,200,000	100%	18,200,000	3,874,936	-	1,937,468	1,937,468	3,874,936
US 79 (2)	B-51, C-28	12,760,000	50%	6,380,000	1,358,357	-	679,178	679,178	1,358,357
A.W. Grimes Blvd and Palm Valley Blvd	BI-4, CI-8	2,141,000	50%	1,070,500	227,919	-	113,959	113,959	227,919
Update ITS and Traffic Managmenet Infrastructure	-	20,900,000	25%	5,225,000	1,112,447	-	556,224	556,224	1,112,447
Transportation Impact Fee Project		23,750	100%	23,750	23,750	- 404.040	e 25 220 420	23,750	23,750
Total		\$ 422,077,239		\$ 334,367,130	\$ 71,208,321	\$ 481,019	ъ 35,∠39,130	\$ 35,488,172	\$ 71,208,321

(1) 2023 Transportation Impact Fee Study, Appendix A

(2) Line 16 of the Max Fee Table Report

(3) Based on Contributions by Project and Planned Future Debt Financing

Capital Improvement Plan for Impact Fees Appendix E - Impact Fee Calculation Assumptions Service Area B

2023 Vehicle Miles (All Service Areas) 69,995

Ten Year Growth in Vehicle Miles (Service Area B) (1) 15,2

15,283

Annual Growth in Vehicle Miles

10 years

	1		2		3	4	4 5		6		7 8		8	9		10		To	otal
Total Debt Service Eligible for Impact Fees	\$ 300,568	\$	565,898	\$	823,895	\$ 1,089,090	\$	1,354,318	\$ 1	1,605,357	\$ 1,870,522	\$ 2	2,135,760	\$ 2	,400,948	\$ 2,	,666,205	\$ 14,8	12,562
2023 Vehicle Miles plus Service Area B Growth	71,524		73,052		74,580	76,108		77,637		79,165	80,693		82,222		83,750		85,278		
Total Debt Service Eligible for Impact Fees per Vehicle Mile	\$ 4.20	\$	7.75	\$	11.05	\$ 14.31	\$	17.44	\$	20.28	\$ 23.18	\$	25.98	\$	28.67	\$	31.26		
Annual Growth in Service Area B Vehicle Miles (Cumulative)	1,528		3,057		4,585	6,113		7,641		9,170	10,698		12,226		13,754		15,283		
Annual Ad Valorem Revenue Generated by Vehicle Miles for Debt Service Eligible for Impact Fees	\$ 6,422	\$	23,677	\$	50,649	\$ 87,476	\$	133,297	\$	185,946	\$ 247,983	\$	317,581	\$	394,311	\$	477,809	\$ 1,9	25,151

Credit Amount \$ 1,925,151

<sup>(1)</sup> Line 8 of the Max Fee Table Report

Capital Improvement Plan for Impact Fees Appendix E - Impact Fee Calculation Assumptions Service Area C

#### I. General Assumptions

Annual Interest Rate on Deposits<sup>(1)</sup>

Annual Service Unit Growth<sup>(2)</sup>

Existing Fund Balance<sup>(3)</sup>

3.40%
3,006

Portion of Projects Funded by Existing Debt<sup>(4)</sup>
Non-debt Funded New Project Cost<sup>(5)</sup>
New Project Cost Funded Through New Debt<sup>(6)</sup>

\$ 119,393,812

11.724.588

56,252,184

51,417,040

Total Recoverable Project Cost (7)

#### II. New Debt Issues Assumptions

<u>Year</u>	Principal <sup>(8)</sup>	Interest <sup>(9)</sup>	<u>Term</u>
1	\$ 5,141,704	4.25%	20
2	5,141,704	4.25%	20
3	5,141,704	4.25%	20
4	5,141,704	4.25%	20
5	5,141,704	4.25%	20
6	5,141,704	4.25%	20
7	5,141,704	4.25%	20
8	5,141,704	4.25%	20
9	5,141,704	4.25%	20
10	5,141,704	4.25%	20

Total \$ 51,417,040

#### III. Capital Expenditure Assumptions

<u>Year</u>	Annual Capital <u>Expenditures<sup>(10)</sup></u>
1	\$ 8,075,192
2	10,766,922
3	10,766,922
4	10,766,922
5	10,766,922
6	10,766,922
7	10,766,922
8	10,766,922
9	10,766,922
10	13,458,653
Total	\$ 107,669,224

- (1) TexPool 12-Month Average Rate as of June 28, 2023
- (2) Derived from the 10-year Growth Projections Report, Table 7
- (3) Existing fund balances are already encumbered
- (4) Provided by City Staff
- (5) Assumes 50% of new project costs funded through sources other than debt
- (6) Assumes 50% of new project costs funded through new debt issues
- (7) Line 16 of the Max Fee Table Report
- (8) Assumes new debt issued in equal annual amounts
- (9) Estimated interest cost provided by City Staff
- (10) Assumes new debt proceeds expended over a 2-year timeframe with Year 10 bond proceeds spent in one year; Non-debt funded capital expenditures made in equal annual amounts

Capital Improvement Plan for Impact Fees Appendix E - Impact Fee Calculation Assumptions Service Area C

#### I. New Debt Service Detail

Year	Series 1	Series <u>2</u>	Series <u>3</u>	Series <u>4</u>	Series <u>5</u>	Series <u>6</u>	Series <u>7</u>	Series <u>8</u>	Series <u>9</u>	Series <u>10</u>	Total Annual New Debt <u>Service</u>
1	\$ 386,758	3 \$ -	\$ -	\$ - \$	-	\$ -	\$ -	\$ -	\$ - \$	_	\$ 386,758
2	386,758	386,758	-	-	-	-	-	-	-	-	773,516
3	386,758	386,758	386,758	-	-	-	-	-	-	-	1,160,274
4	386,758	386,758	386,758	386,758	-	-	-	-	-	-	1,547,032
5	386,758	386,758	386,758	386,758	386,758	-	-	-	-	-	1,933,791
6	386,758	386,758	386,758	386,758	386,758	386,758	-	-	-	-	2,320,549
7	386,758	386,758	386,758	386,758	386,758	386,758	386,758	-	-	-	2,707,307
8	386,758	386,758	386,758	386,758	386,758	386,758	386,758	386,758	-	-	3,094,065
9	386,758	386,758	386,758	386,758	386,758	386,758	386,758	386,758	386,758	-	3,480,823
10	386,758	386,758	386,758	386,758	386,758	386,758	386,758	386,758	386,758	386,758	3,867,581
11	386,758	386,758	386,758	386,758	386,758	386,758	386,758	386,758	386,758	386,758	3,867,581
12	386,758	386,758	386,758	386,758	386,758	386,758	386,758	386,758	386,758	386,758	3,867,581
13	386,758	386,758	386,758	386,758	386,758	386,758	386,758	386,758	386,758	386,758	3,867,581
14	386,758	386,758	386,758	386,758	386,758	386,758	386,758	386,758	386,758	386,758	3,867,581
15	386,758	386,758	386,758	386,758	386,758	386,758	386,758	386,758	386,758	386,758	3,867,581
16	386,758	386,758	386,758	386,758	386,758	386,758	386,758	386,758	386,758	386,758	3,867,581
17	386,758	386,758	386,758	386,758	386,758	386,758	386,758	386,758	386,758	386,758	3,867,581
18	386,758	386,758	386,758	386,758	386,758	386,758	386,758	386,758	386,758	386,758	3,867,581
19	386,758	386,758	386,758	386,758	386,758	386,758	386,758	386,758	386,758	386,758	3,867,581
20	386,758	386,758	386,758	386,758	386,758	386,758	386,758	386,758	386,758	386,758	3,867,581
21	-	386,758	386,758	386,758	386,758	386,758	386,758	386,758	386,758	386,758	3,480,823
22	-	-	386,758	386,758	386,758	386,758	386,758	386,758	386,758	386,758	3,094,065
23	-	-	-	386,758	386,758	386,758	386,758	386,758	386,758	386,758	2,707,307
24	-	-	-	-	386,758	386,758	386,758	386,758	386,758	386,758	2,320,549
25	-	-	-	-	-	386,758	386,758	386,758	386,758	386,758	1,933,791
26	-	-	-	-	-	-	386,758	386,758	386,758	386,758	1,547,032
27	-	-	-	-	-	-	-	386,758	386,758	386,758	1,160,274
28	-	-	-	-	-	-	-	-	386,758	386,758	773,516
29	-	-	-	-	-	-	-	-	-	386,758	386,758
	\$ 7,735,162	2 \$ 7,735,162	\$ 7,735,162	\$ 7,735,162	\$ 7,735,162	\$ 7,735,162	\$ 7,735,162	\$ 7,735,162	\$ 7,735,162 \$	7,735,162	\$ 77,351,625

Capital Improvement Plan for Impact Fees Appendix E - Impact Fee Calculation Assumptions Service Area C

#### II. Summary of Annual Expenses

Year		New Annual Debt <u>Service<sup>(1)</sup></u>	ļ	Annual Capital Expenditures <sup>(2)</sup>		Annual Bond <u>Proceeds<sup>(2)</sup></u>		Existing Annual Debt Service <sup>(3)</sup>		Annual Credit <sup>(4)</sup>		Total <u>Expense</u>
1	\$	386,758	\$	8,075,192	\$	(5,141,704)	\$	_	\$	(15,927)	\$	3,304,319
2	•	773,516	·	10,766,922	·	(5,141,704)	·	-	•	(61,188)	•	6,337,546
3		1,160,274		10,766,922		(5,141,704)		-		(132,435)		6,653,057
4		1,547,032		10,766,922		(5,141,704)		-		(226,811)		6,945,440
5		1,933,791		10,766,922		(5,141,704)		-		(341,862)		7,217,147
6		2,320,549		10,766,922		(5,141,704)		-		(475,471)		7,470,296
7		2,707,307		10,766,922		(5,141,704)		-		(625,798)		7,706,727
8		3,094,065		10,766,922		(5,141,704)		-		(791,241)		7,928,043
9		3,480,823		10,766,922		(5,141,704)		797,326		(1,192,675)		8,710,693
10		3,867,581		13,458,653		(5,141,704)		826,740		(1,410,418)		11,600,852
11		3,867,581		-		-		827,320		-		4,694,901
12		3,867,581		-		-		827,626		-		4,695,207
13		3,867,581		-		-		827,658		-		4,695,239
14		3,867,581		-		-		827,417		-		4,694,998
15		3,867,581		-		-		826,903		-		4,694,484
16		3,867,581		-		-		828,286		-		4,695,867
17		3,867,581		-		-		827,178		-		4,694,760
18		3,867,581		-		-		827,969		-		4,695,550
19		3,867,581		-		-		826,269		-		4,693,850
20		3,867,581		-		-		-		-		3,867,581
21		3,480,823		-		-		-		-		3,480,823
22		3,094,065		-		-		-		-		3,094,065
23		2,707,307		-		-		-		-		2,707,307
24		2,320,549		-		-		-		-		2,320,549
25		1,933,791		-		-		-		-		1,933,791
26		1,547,032		-		-		-		-		1,547,032
27		1,160,274		-		-		-		-		1,160,274
28		773,516		-		-		-		-		773,516
29		386,758		-		-		-		-		386,758
	\$	77,351,625	\$	107,669,224	\$	(51,417,040)	\$	9,070,691	\$	(5,273,827)	\$	137,400,673

Capital Improvement Plan for Impact Fees Appendix E - Impact Fee Calculation Assumptions Service Area C

#### III. Summary of Debt Financing

Existing Debt Funded Project Costs (5)	11,724,588
-Less Principal PTD	-
Outstanding Debt Principal	11,724,588
New Project Costs Debt Principal (5)	51,417,040
Principal Component	\$ 63,141,628

- (1) Appendix E Service Area C, Page 2
- (2) Appendix E Service Area C, Page 1
- (3) Existing debt funded project costs from details provided by staff.
- (4) Appendix E Service Area C, Page 8
- (5) Appendix E Service Area C, Page 1

Capital Improvement Plan for Impact Fees Appendix E - Impact Fee Calculation Assumptions Service Area C

<u>Year</u>	Impact <u>Fee</u>	Service <u>Units</u>	Impact Fee <u>Revenue</u>	Annual Expenses	Sub-Total	Accumulated Interest	Estimated Fund <u>Balance</u>
Initial							\$ -
1	\$ 3,818	3,006	\$ 11,477,741	\$ 3,304,319	\$ 8,173,422	138,866	8,312,289
2	3,818	3,006	11,477,741	6,337,546	5,140,195	369,783	13,822,267
3	3,818	3,006	11,477,741	6,653,057	4,824,684	551,652	19,198,603
4	3,818	3,006	11,477,741	6,945,440	4,532,302	729,372	24,460,277
5	3,818	3,006	11,477,741	7,217,147	4,260,595	903,548	29,624,419
6	3,818	3,006	11,477,741	7,470,296	4,007,445	1,074,724	34,706,589
7	3,818	3,006	11,477,741	7,706,727	3,771,014	1,243,399	39,721,002
8	3,818	3,006	11,477,741	7,928,043	3,549,698	1,410,029	44,680,729
9	3,818	3,006	11,477,741	8,710,693	2,767,049	1,565,263	49,013,041
10	3,818	3,006	11,477,741	11,600,852	(123,110)	1,663,372	50,553,303
11	-	-	-	4,694,901	(4,694,901)	1,638,035	47,496,437
12	-	-	-	4,695,207	(4,695,207)	1,534,157	44,335,387
13	-	-	-	4,695,239	(4,695,239)	1,426,744	41,066,892
14	-	-	-	4,694,998	(4,694,998)	1,315,685	37,687,579
15	-	-	-	4,694,484	(4,694,484)	1,200,865	34,193,959
16	-	-	-	4,695,867	(4,695,867)	1,082,128	30,580,220
17	-	-	-	4,694,760	(4,694,760)	959,352	26,844,813
18	-	-	-	4,695,550	(4,695,550)	832,409	22,981,672
19	-	-	-	4,693,850	(4,693,850)	701,169	18,988,991
20	-	-	-	3,867,581	(3,867,581)	579,536	15,700,945
21	-	-	-	3,480,823	(3,480,823)	474,379	12,694,501
22	-	-	-	3,094,065	(3,094,065)	378,791	9,979,227
23	-	-	-	2,707,307	(2,707,307)	293,097	7,565,017
24	-	-	-	2,320,549	(2,320,549)	217,633	5,462,102
25	-	-	-	1,933,791	(1,933,791)	152,747	3,681,058
26	-	-	-	1,547,032	(1,547,032)	98,798	2,232,824
27	-	-	-	1,160,274	(1,160,274)	56,158	1,128,708
28	-	-	-	773,516	(773,516)	25,211	380,403
29	-	-		386,758	(386,758)	6,355	-
			114,777,413	137,400,673		22,623,260	

Capital Improvement Plan for Impact Fees Appendix E - Impact Fee Calculation Assumptions Service Area C

Year         Number of Years to Years to End of Period         Future Value Escalation Interest Rate Fee Factor         Rate Fee Factor           1         29         2.5921         1.0000           2         28         2.5069         1.0000           3         27         2.4246         1.0000           4         26         2.3449         1.0000           5         25         2.2678         1.0000           6         24         2.1933         1.0000           7         23         2.1212         1.0000           8         22         2.0515         1.0000           9         21         1.9841         1.0000           10         20         1.9189         1.0000           11         19         1.8558         1.0000           12         18         1.7948         1.0000           13         17         1.7358         1.0000           14         16         1.6788         1.0000           15         15         1.6236         1.0000           16         14         1.5703         1.0000           17         13         1.5187         1.0000							
			•				_
				Annual Serv			Expense
<u>Year</u>	End of Period	<u>Factor</u>	<u>Factor</u>	<u>Actual</u>	<u>Escalated</u>	<u>Actual</u>	<u>Escalated</u>
1	29	2.5921	1.0000	3,006	7,793	\$ 3,304,319	\$ 8,565,220
2	28	2.5069	1.0000	3,006	7,537	6,337,546	15,887,866
3	27	2.4246	1.0000	3,006	7,289	6,653,057	16,130,712
4	26	2.3449	1.0000	3,006	7,049	6,945,440	16,286,205
5	25	2.2678	1.0000	3,006	6,818	7,217,147	16,367,168
6	24	2.1933	1.0000	3,006	6,594	7,470,296	16,384,519
7	23	2.1212	1.0000	3,006	6,377	7,706,727	16,347,590
8	22	2.0515	1.0000	3,006	6,167	7,928,043	16,264,382
9	21	1.9841	1.0000	3,006	5,965	8,710,693	17,282,722
10	20	1.9189	1.0000	3,006	5,769	11,600,852	22,260,616
11	19	1.8558	1.0000	-	-	4,694,901	8,712,877
12	18	1.7948	1.0000	-	-	4,695,207	8,427,093
13		1.7358	1.0000	-	-	4,695,239	8,150,207
14		1.6788	1.0000	-	-	4,694,998	7,881,960
15	15	1.6236	1.0000	-	-	4,694,484	7,622,097
16		1.5703		-	-	4,695,867	7,373,782
		1.5187	1.0000	-	-	4,694,760	7,129,773
18	12	1.4688	1.0000	-	-	4,695,550	6,896,626
19	11	1.4205	1.0000	-	-	4,693,850	6,667,565
20	10	1.3738	1.0000	-	-	3,867,581	5,313,313
21	9	1.3287	1.0000	-	-	3,480,823	4,624,830
22	8	1.2850	1.0000	-	-	3,094,065	3,975,860
23	7	1.2428	1.0000	-	-	2,707,307	3,364,550
24	6	1.2019	1.0000	-	-	2,320,549	2,789,126
25	5	1.1624	1.0000	-	-	1,933,791	2,247,888
26	4	1.1242	1.0000	-	-	1,547,032	1,739,212
27	3	1.0873	1.0000	-	-	1,160,274	1,261,542
28	2	1.0515	1.0000	-	-	773,516	813,389
29	1	1.0170	1.0000	- <u> </u>	-	386,758	393,329
					67,356	137,400,673	257,162,018

Total Escalated Expense for Entire Period Less Future Value of Initial Fund Balance Net Escalated Expense for Entire Period Total Escalated Service Units Impact Fee for Service Area C

\$ 257,162,018
-
\$ 257,162,018
67,356
\$ 3.818

Capital Improvement Plan for Impact Fees Appendix E - Impact Fee Calculation Assumptions Service Area C

Impact Fee Project Name <sup>(1)</sup>	Impact Fee	Pre	Total	Percent in	So	Cost in	Impact Fee Recoverable Cost <sup>(</sup>			Non-Debt Funded <sup>(3)</sup>		oact Fee erable Cost	
impact rec rroject name	i roject ive.		Jicot Gost	OCIVICE AICU	<u> </u>	I VICE Parcu	Recoverable Cost	_	LXISTING	Hoposcu	<u>r unucu</u>	RCCOV	crubic Gost
RM 620	A-31, C-1	\$	12,560,624	50%	\$	6,280,312	\$ 2,727,18	88	\$ -	\$ -	\$ 2,727,188	\$	2,727,188
CR 172 (2)	C-3		1,800,000	50%		900,000	390,82	20	-	195,410	195,410		390,820
Hesters Crossing Rd	C-4		900,000	100%		900,000	390,82	20	-	195,410	195,410		390,820
Bratton Ln	C-5		8,700,000	50%		4,350,000	1,888,96	61	-	944,481	944,481		1,888,961
US 79 (1)	B-46, C-6		16,379,383	50%		8,189,692	3,556,32	25	-	1,778,162	1,778,162		3,556,325
McNeil Extension	C-7		4,799,620	100%		4,799,620	2,084,20	06	-	-	2,084,206		2,084,206
S Mays St	C-8		2,000,000	100%		2,000,000	868,48	88	-	434,244	434,244		868,488
Kenney Fort Blvd (2)	C-10		40,800,000	100%		40,800,000	17,717,15	56	-	8,858,578	8,858,578		17,717,156
Red Bud Ln (1)	C-11		200,000	50%		100,000	43,42	24	-	21,712	21,712		43,424
Red Bud Ln (2)	C-12		2,200,000	100%		2,200,000	955,33	37	-	477,668	477,668		955,337
Red Bud Ln (3)	C-13		2,200,000	50%		1,100,000	477,66	68	-	238,834	238,834		477,668
Red Bud Ln (4)	C-14		2,200,000	100%		2,200,000	955,33	37	-	477,668	477,668		955,337
Red Bud Ln (5)	C-15		2,200,000	50%		1,100,000	477,66	68	-	238,834	238,834		477,668
Red Bud Ln (6)	C-16		1,200,000	100%		1,200,000	521,09	93	-	260,546	260,546		521,093
Red Bud Ln (7)	C-17		13,100,000	50%		6,550,000	2,844,29	98	-	1,422,149	1,422,149		2,844,298
Red Bud Ln (8)	C-18		4,600,000	100%		4,600,000	1,997,52	22	-	998,761	998,761		1,997,522
Red Bud Ln (9)	C-19		18,713,810	50%		9,356,905	4,063,18	80	-	2,031,590	2,031,590		4,063,180
Gattis School Rd (1)	C-20		31,800,000	100%		31,800,000	13,808,96	60	-	6,904,480	6,904,480		13,808,960
Gattis School Rd (2)	C-21		81,800,000	100%		81,800,000	35,521,16	60	11,724,588	11,898,286	11,898,286		35,521,160
S Mays St / Dell Way	C-22		3,600,000	100%		3,600,000	1,563,27	78	-	781,639	781,639		1,563,278
Kenney Fort Blvd (3)	C-23		12,400,000	100%		12,400,000	5,384,62	26	-	2,692,313	2,692,313		5,384,626
Greenlawn Blvd	C-24		16,468,640	100%		16,468,640	7,151,40	80	-	3,575,704	3,575,704		7,151,408
Schultz (1)	C-26		1,200,000	100%		1,200,000	521,09	93	-	260,546	260,546		521,093
Schultz (2)	C-27		10,300,000	50%		5,150,000	2,236,35	57	-	1,118,178	1,118,178		2,236,357
US 79 (2)	B-51, C-28		12,760,000	50%		6,380,000	2,770,47	77	-	1,385,238	1,385,238		2,770,477
Mays St and Liberty Ave	CI-5		550,000	100%		550,000	238,83	34	-	119,417	119,417		238,834
Greenlawn Blvd and Louis Henna Blvd (SH 45 FR)	CI-7		848,000	100%		848,000	368,23	39	-	184,119	184,119		368,239
A.W. Grimes Blvd and Palm Valley Blvd	BI-4, CI-8		2,141,000	50%		1,070,500	464,85	58	-	232,429	232,429		464,858
Red Bud Ln and Gattis School Rd	CI-10		1,773,000	100%		1,773,000	769,9	15	-	384,957	384,957		769,915
E McNeil Rd and Oakridge Dr	CI-11		10,000,000	100%		10,000,000	4,342,44	40	-	2,171,220	2,171,220		4,342,440
Update ITS and Traffic Managmenet Infrastructure	-		20,900,000	25%		5,225,000	2,268,92	25	-	1,134,462	1,134,462		2,268,925
Transportation Impact Fee Project			23,750	100%		23,750	23,7	50	-	-	23,750		23,750
Total		\$	341,117,827		\$	274,915,418	\$ 119,393,81	12	\$11,724,588	\$ 51,417,040	\$ 56,252,184	\$	119,393,812

#### (1) 2023 Transportation Impact Fee Study, Appendix A

(2) Line 16 of the Max Fee Table Report

(3) Based on Contributions by Project and Planned Future Debt Financing

Capital Improvement Plan for Impact Fees Appendix E - Impact Fee Calculation Assumptions Service Area C

2023 Vehicle Miles (All Service Areas) 69,995

Ten Year Growth in Vehicle Miles (Service Area C)  $\,^{(1)}$  30,063  $\,$  10 years

Annual Growth in Vehicle Miles 3,006

	 1	2		3	4		5	6	6	7	8		9	10	Total
Total Debt Service Eligible for Impact Fees	\$ 386,758	\$ 773,516	\$ 1,	160,274	\$ 1,547,03	2 \$	1,933,791	\$ 2,32	20,549	\$ 2,707,307	\$ 3,094,065	\$ \$ 4	4,278,149	\$ 4,694,321	\$ 22,895,763
2023 Vehicle Miles plus Service Area C Growth	73,002	76,008		79,014	82,02	1	85,027	8	88,033	91,039	94,046		97,052	100,058	
Total Debt Service Eligible for Impact Fees per Vehicle Mile	\$ 5.30	\$ 10.18	\$	14.68	\$ 18.8	6 \$	22.74	\$	26.36	\$ 29.74	\$ 32.90	\$	44.08	\$ 46.92	
Annual Growth in Service Area C Vehicle Miles (Cumulative)	3,006	6,013		9,019	12,02	5	15,031	1	18,038	21,044	24,050	)	27,056	30,063	
Annual Ad Valorem Revenue Generated by Vehicle Miles for Debt Service Eligible for Impact Fees	\$ 15,927	\$ 61,188	\$	132,435	\$ 226,8	1 \$	341,862	\$ 47	75,471	\$ 625,798	\$ 791,241	\$	1,192,675	\$ 1,410,418	\$ 5,273,827

Credit Amount \$ 5,273,827

<sup>(1)</sup> Line 8 of the Max Fee Table Report