ORDINANCE NO. 955

AN ORDINANCE OF THE CITY OF BROOKSVILLE, FLORIDA, ESTABLISHING FIRE AND RESCUE IMPACT FEES, PUBLIC BUILDINGS IMPACT FEES, PARKS AND RECREATION IMPACT FEES AND MULTIMODAL IMPACT FEES; ADOPTING AN IMPACT FEE STUDY DATED SEPTEMBER 23, 2022; CREATING CHAPTER 50, "IMPACT FEES," OF THE CODE OF ORDINANCES; PROVIDING REGULATIONS PERTAINING TO FIRE AND RESCUE IMPACT FEES, PUBLIC BUILDINGS IMPACT FEES, PARKS AND RECREATION IMPACT FEES AND ROADS AND MULTIMODAL IMPACT FEES; PROVIDING FOR CODIFICATION; PROVIDING FOR SEVERABILITY AND CONFLICTS, AND PROVIDING AN EFFECTIVE DATE.

WHEREAS, under its home rule powers and pursuant to §163.31801, Florida Statutes and judicially created law, the City of Brooksville may impose impact fees to ensure that new development pays for its proportional share of capital facilities required by such new development; and

WHEREAS, the City Council of the City of Brooksville has studied the necessity for and implications of the adoption of an ordinance creating impact fees and has retained a professional consulting firm to prepare a study relating to fire rescue, public buildings, parks and recreation, and multimodal impact fees (the "Study") to determine the proportionate demand that new development generates for additional fire rescue, public buildings, parks and recreation, and multimodal improvements and facilities; and

WHEREAS, the Study has been presented to, and reviewed by, the City Council of the City of Brooksville, and it has been determined (1) that fire rescue, public buildings, parks and recreation, and multimodal impact fees are necessary to offset the costs associated with meeting future demands for the City's fire rescue, public buildings, parks and recreation, and multimodal facilities pursuant to the projections set forth in the Study; (2) that the fire rescue, public buildings, parks and recreation, and multimodal impact fees bear a reasonable relationship to the burden imposed upon the City to provide fire rescue, public buildings, parks and recreation, and multimodal facilities to new City residents; (3) that fire rescue, public buildings, parks and recreation, and multimodal impact fee revenues will provide a direct benefit to such new City residents reasonably related to the fees assessed; (4) that an essential nexus exists between projected new development and the need for additional fire rescue, public buildings, parks and recreation, and multimodal facilities to be funded with fire rescue, public buildings, parks and recreation, and multimodal impact fees and the benefits that accrue to new development paying the fees; and (5) that the amount of the fire rescue, public buildings, parks and recreation, and multimodal impact fees are reasonably proportional to the pro rata share of the additional fire rescue, public buildings, parks and recreation, and multimodal facilities needed to serve new development; and

WHEREAS, the costs of real property for use for fire rescue, public buildings, parks and recreation, and multimodal facilities development and the costs of various facilities and equipment

10) 32 pc: David Hainley Beny Vose Beny Vose

have been used by the City's consultant in developing a development impact cost per building square feet and land use type as set forth in the Study; and

WHEREAS, the decisions of the City Council as set forth herein are reasonable and prudent steps pertaining to sound growth management which have been taken for the benefit of the citizens of the City, both present and future; and

WHEREAS, the City is projected to continue to grow in population and further economically develop in the future; and

WHEREAS, this Ordinance contains an administrative framework to ensure that the benefit of fire rescue, public buildings, parks and recreation, and multimodal facilities funded with fire rescue, public buildings, parks and recreation, and multimodal impact fees will accrue proportionately to new development paying the fees; and

WHEREAS, Section 163.3202(3), Florida Statutes, encourages the use of innovative land use regulations and impact fees by local governments to manage growth and to provide the necessary public facilities and for the imposition by local governments of impact fees on development to fund the capital cost of facilities necessitated by such development; and

WHEREAS, requiring future growth to contribute its fair share of the costs necessary to fund required capital improvements and additions is an integral and vital part of the regulatory plan of growth management in the City and is a practice consistent with sound and generally accepted growth management, fiscal and public administration practices and principles.

NOW, THEREFORE, BE IT ORDAINED by the City Council of the City of Brooksville, Florida, as follows:

SECTION 1. The above recitals, or "Whereas" clauses, are hereby adopted as the City Council's legislative findings and are incorporated herein by reference.

SECTION 2. Chapter 50 of the Brooksville Code of Ordinances, to be entitled "Impact Fees," is hereby created as follows:

CHAPTER 50 - IMPACT FEES

ARTICLE I. IN GENERAL

Sec. 50-1. Short title and authority.

- (a) This chapter shall be known and may be cited as "Brooksville Impact Fees."
- (b) The City Council has the authority to adopt this chapter pursuant to Article VII of the Constitution of the State of Florida, F.S. Ch. 166, and §163.31801, F.S.

Sec. 50-2. Intent and purpose.

- (a) The purpose of this chapter is to ensure that new development pays its proportionate share of the anticipated costs of public facilities necessary to provide fire rescue, public buildings, parks and recreation, and multimodal facilities for the new development.
- (b) The intent of the City Council is to ensure that its impact fee schedules reflect the most recent and localized data pertaining to growth patterns in the City and the cost of public facilities necessary to provide fire rescue, public buildings, parks and recreation, and multimodal facilities for new development.

Sec. 50-3. Administrative charges.

If established, administrative charges shall be collected from each applicant and shall be distributed as appropriate for impact fee administration, for financial administration, and for costs related to the establishment, amendment and annual review/update of the impact fee ordinance and methodology. Administrative charges, if adopted, shall be set by resolution and shall be based upon incurred and anticipated costs to create, administer, update and manage the impact fee system and shall not exceed actual costs of the City. Administrative charges, if collected, shall not be deposited in any impact fee capital fund accounts.

Sec. 50-4. Impact fee capital fund accounts and use of capital fund account monies.

- (a) There shall be established separate capital fund accounts for fire rescue, public buildings, parks and recreation, and multimodal impact fees, to be designated separately as the "fire rescue impact fee account", public buildings impact fee", "parks and recreation impact fee account", and the "multimodal impact fee account." The capital fund accounts for impact fees shall continue to be maintained separate and apart from each other and separate and apart from all other accounts of the City. The monies deposited into each of the impact fee capital fund accounts shall be used solely for the purposes as set forth in this chapter and shall be accounted for accordingly.
- (b) Funds on deposit in impact fee accounts established within this article shall not be used for any expenditure that would be classified as an operational expense, a maintenance expense, or a repair or replacement expense; provided, however, if there is an expansion component of capital facility capacities, then impact fees can be used to fund the share of improvements proportional to growth.
- (c) Any funds on deposit in the impact fee funds not immediately necessary for expenditure shall be invested in interest-bearing accounts. Applicants shall not receive a credit for or be entitled to interest from the investment of such funds, except as otherwise required in this chapter.

Sec. 50-5. Impact fees are transferable.

Impact fee credits are assignable and transferable at any time after establishment from one development or parcel to any other that is within the same impact fee zone or impact fee district or that is within an adjoining impact fee zone or impact fee district within the same local government jurisdiction, and which receives benefits from the improvement or contribution that generated the credits.

Sec. 50-6. Non-binding impact fee estimate.

An applicant may request an estimate of impact fees which may be imposed by filing a written request to the City. Any estimate which the City provides is non-binding and may be subject to change when the impact fees become due and payable pursuant to this chapter. Non-binding estimates are for the sole benefit of the prospective applicant and neither bind the City nor preclude it from making amendments or revisions to any provisions of this chapter. No vested rights, legal entitlements, or equitable estoppel accrue by reason of a non-binding estimate. A non-binding fee estimate does not constitute a final decision and may not be appealed pursuant to this chapter.

Sec. 50-7. Definitions.

The following words, terms and phrases, when used in this chapter, shall have the meaning ascribed to them in this section, except where the context clearly indicates a different meaning, or except as otherwise provided. For words, terms and phrases not listed in this section, definitions in the City of Brooksville City Code may apply.

Applicant means any person, developer, builder or entity which requires public_services as a result of development for the benefit of itself or a prospective future occupant.

Building is any structure, either temporary or permanent, designed or built for the support, enclosure shelter or protection of persons, chattels or property of any kind. This term shall include trailers, mobile homes or any other vehicles serving in any way the function of a building. This term shall not include temporary construction sheds or trailers erected to assist in construction and maintained during the time of a construction.

Owner means the most recent owner of a parcel of property appearing in the Official Records of Hernando County, Florida.

Sec. 50-8. Administrative rules and policies.

The City Manager or designee is hereby authorized to adopt administrative rules and policies to implement the provisions of this chapter as the City Manager deems necessary and appropriate.

Sec. 50-9. Alternative Fee: Calculation.

(A) If an applicant believes that the impact to the fire-rescue facilities, public buildings parks and recreation facilities, or multimodal transportation facilities caused by the applicant's proposed Development is less than the fees established by the City, the applicant may, at his or her own expense, prior to the issuance of a building permit for such Development, submit a calculation of an alternative impact fee to the City Manager pursuant to the provisions of this section. The City Manager shall make a determination within 10 business days after submittal, or as otherwise required by law, as to whether that calculation complies with the requirements of this section and if the City will accept the alternative calculations and the fees determined through such calculations.

- (B) For purposes of any alternative impact fee calculation, the Development shall be presumed to have the maximum impact on the Capital Improvement System for the land use category contemplated under the Impact Fee Rate.
- (C) If an applicant decides to perform an alternative Impact Fee Study, the methodology for such study shall be approved by the City Manager, based on the methodology adopted by the City Council in the Impact Fee Study that is attached to this ordinance, before the applicant begins the study. Through an alternative Impact Fee Study, an applicant may calculate the demand component for a proposed development that is different than that described in the Impact Fee Study. However, the cost and credit components for the alternative impact fee shall be those included in the Impact Fee Study.

Sec. 50-10. Appeals.

- (a) Any person who disagrees with a decision or interpretation of this chapter may appeal to the City Manager or designee by filing a written notice of appeal within ten (10) days after the date of the action or decision complained of. The written notice of appeal shall set forth concisely the action or decision appealed as well as the grounds upon which the appeal is based. The City Manager or designee shall consider all facts material to the appeal and render a written decision within thirty (30) days of receiving the appeal. Any person who disagrees with the decision of the City Manager or designee may appeal to the City Council by filing a written notice of appeal with the City Manager's office setting forth concisely the decision appealed within ten (10) days after the date of the City Manager's decision. The appeal shall be set for the next available City Council meeting for consideration. The City Council's written decision and shall constitute final administrative review.
- (b) Appeal fees commensurate with costs incurred by the City, as set by resolution, shall be paid by the applicant prior to a decision being rendered.

Sec. 50-11. Penalties and liens against property.

Violations of this Chapter shall be prosecuted as provided by City Code or by an injunction or other legal or equitable relief in the circuit court against any person violating this Chapter. Failure to pay an impact fee when determined by the city that an obligation is required to satisfy the impact of development may result in the amount due becoming a lien against the property. The City shall provide a written notice of the impact fee due by personal service, certified, return receipt requested United States mail or Federal Express or other equivalent overnight letter delivery company.

Sec. 50-12. Adoption of impact fee study.

(a) The City Council hereby adopts by reference the study entitled "City of Brooksville 2022 Municipal Impact Fee Study," dated September 23, 2022, as prepared by Benesch. The study sets forth the computation and allocation of the capital costs of the City of Brooksville to provide fire rescue, public buildings, parks and recreation, and multimodal facilities. A copy of such study is

attached hereto as Exhibit "A", but is not codified with this ordinance, and instead is available for review on the City's website, as well as in the Office of the City Clerk during normal work hours.

(b) The City Council finds there is a reasonable connection, or rational nexus, between the need for fire rescue, public buildings, parks and recreation, and multimodal facilities in the City and the growth in population anticipated within the city. In addition, the City Council finds there is a reasonable connection, or rational nexus, between the anticipated expenditures of the fire rescue, public buildings, parks and recreation, and multimodal impact fees collected and the benefits accruing to anticipated new development.

Sec. 50-13. Imposition of parks and recreation, and roads and mobility impact fees.

(a) Any applicant who seeks to develop land or make improvements to real property shall pay the following fire rescue, public buildings, parks and recreation, and multimodal impact fees in the manner and amount established as follows:

Land Use	Ünit	Fire Rescue	Public Buildings	Parks & Recreation	Multi- Modal	Total Calculated City Fees
Single family (2k sf)	du	\$245	\$467	\$676	\$1,014	\$2,402
Current		\$215	\$466	\$411	\$1,269	
Light Industrial	1000 sf	\$80	\$154	W	\$447	\$681
Office (50k sq ft)	1000 sf	\$164	\$314		\$998	\$1,476
Retail (125 sq ft)	1000 sf	\$433	\$826		\$1,351	\$2,610

Sec. 50-14. Time of payment of fire rescue, public buildings, parks and recreation, and multimodal impact fees.

The fire rescue, public buildings, parks and recreation, and multimodal impact fees shall be paid at the time of issuance of a building permit for a structure or structures, or such other time as may be specifically provided by a developer's agreement.

Sec. 50-15. Disposition of revenues imposed by fire rescue, public buildings, parks and recreation, and multimodal impact fees.

The funds collected by reason of establishment of the fire rescue, public buildings, parks and recreation, and multimodal impact fees in accordance with this Article shall be used solely for the purpose of acquisition and/or construction of land, facilities and equipment determined to be

needed to provide fire rescue, public buildings, parks and recreation, and multimodal transportation respectively for new development within the City. Said funds shall not be used to maintain or repair existing fire rescue, public buildings, parks and recreation, and multimodal facilities or equipment. The City shall spend funds on a first in, first out basis.

Sec. 50-16. Disposition of funds not expended.

- (a) If the City of Brooksville fire rescue, public buildings, parks and recreation, and multimodal impact fees, or any of them, have not been expended or encumbered by the end of the calendar quarter immediately following ten (10) years after the date the fees were paid, upon application of the fee payer of proof of payment, or proof of the date the development permit was approved by the City and that development was never begun, the fees shall be returned with interest at the rate determined by the City based upon the average interest earning rate incurred by the City in accordance with the following procedure:
- (1) The present owner must petition the City Council for the refund within one year following the end of the calendar quarter immediately following ten (10) years after the date on which the fee was received.
 - (2) The petition must be submitted to the City Clerk and must contain:
 - (i) A notarized sworn statement that the petitioner is the current owner of the property;
 - (ii) A copy of the dated receipt issued for payment of the fee or other document evidencing the date the development was approved by the City, which development was never begun;
 - (iii) A certified copy of the latest recorded deed; and
 - (iv) A copy of the most recent ad valorem tax bill.
- (3) If reimbursement is approved, the City shall remit to the petitioner within 60 days of approval.
- (b) In determining whether a petitioner is entitled to a refund, it shall be assumed that impact fees are expended or encumbered in the same order in which they were received (that is, "first in, first out").
- (c) No refund shall be made of any administrative fee authorized and collected pursuant to this chapter.

Sec. 50-17. Charge when use of property changed.

Any change in the use of property shall require payment of a fire rescue, public buildings, parks and recreation, and multimodal impact fee in an amount equal to the increased calculation, if any.

SECTION 3. Codification. It is the intent of the City Council of the City of Brooksville that the provisions of Section 2 of this Ordinance shall be codified except for Exhibit "A". The codifier is granted broad and liberal authority in renumbering and codifying the provisions of this Ordinance; article and section numbers assigned throughout are suggested by the City.

SECTION 4. Severability. If any section, sentence, phrase, word or portion of this Ordinance is determined to be invalid, unlawful or unconstitutional, said determination shall not be held to invalidate or impair the validity, force or effect of any other section, sentence, phrase, word or portion of this Ordinance not otherwise determined to be invalid, unlawful or unconstitutional.

SECTION 5. Conflicts. In any case where a provision of this Ordinance is found to be in conflict with a provision of any other ordinance of this City, the provision which establishes the higher standards for the promotion and protection of the health and safety of the people shall prevail.

SECTION 6. Effective Date. This Ordinance shall become effective ninety (90) days after the date of adoption of this Ordinance pursuant to §163.31801, Florida Statutes.

PASSED AND ADOPTED, by the City Council of the City of Brooksville, Florida, in egular session assembled, this Pday of ANUACU, 2023.

CITY OF BROOKSVILLE

Ordinanee No. 955

CITY OF BROOKSVILL

By:_

Blake Bell, Moor

Approved on First Reading:

Notice published:

Approved on Second and Final Reading:

December 19, 2022

December 30, 2022

January 9, 2023

APPROVED AS TO FORM AND CONTENT EOR THE RELIANCE OF THE CITY OF

BROOKSVILLE ONLY:

Vose Law Firm, City Attorney

VOTE OF CITY COUNCIL

Bell

Bailey

Bronson

Tanner

Thieryung.

-011 -1571 -1571



THE HERNANDO SUN; Published Weekly

Brooksville Hernando County FLORIDA

PUBLISHER'S AFFIDAVIT OF PUBLICATION STATE OF FLORIDA COUNTY OF HERNANDO:

Before the undersigned authority personally appeared Julie B. Maglio, who on oath says that she is Editor of the Hernando Sun, a weekly newspaper published at Brooksville in Hernando County, Florida; that the attached copy of the advertisement, being a

Notice of Public Hearing

in the matter of Ordinance No. 955

was published in said newspaper by print in the issue(s) of: December 30, 2022

and/or by publication on the newspaper's website, if authorized, on December 30, 2022

Affiant further says that the newspaper complies with all legal requirements for publication in chapter 50, Florida Statutes.

(Signature of Affiant)

Sworn to and subscribed before me this 2nd day of January, 2023.

(Signature of Notary Public

otary Public LISA M. MACNEIL

* Commission # HH 254975

Expires April 19, 2026

(Print, Type, or Stamp Commissioned Name of Notary Public)

Personally known_____ or

produced identification_____

Type of identification produced_____

The City Council of the City of Brocksville will hold a Public Hearing in the Joseph E. Johnston, Ili, City Hall Council Chambers, 201 Howell Avenue, Brooksville, Florida Second and Finai Reading of Ordinance No. 956 will be held at 7:00 p.m., January 9, 2023. The Ordinance may be obtained in the City Clark's office at City Hall, 201 Howell Avenue, Brooksville, Fl. 34801, or by calling the City Clark at 352-540-3816.

Ordinance No. 955:

AN ORDINANCE OF THE CITY OF BROOKSVILLE, FLORIDA. ESTABLISHING FIRE AND RESCUE IMPACT FEES, PUB-LIC BUILDINGS IMPACT FEES, PARKS AND RECREATION IM-PACT FEES AND MULTIMODAL IMPACT FEES; ADOPTING AN IMPACT FEE STUDY DATED SEPTEMBER 23, 2022; CRE-ATING CHAPTER 50, "IMPACT FEES," OF THE CODE OF ORDINANCES; PROVIDING REGULATIONS PERTAINING TO FIRE AND RESCUE IMPACT FEES, PUBLIC BUILDINGS IMPACT FEES, PARKS AND **RECREATION IMPACT FEES** AND ROADS AND MULTIMOD-AL IMPACT FEES; PROVIDING FOR CODIFICATION: PROVID-ING FOR SEVERABILITY AND CONFLICTS, AND PROVIDING AN EFFECTIVE DATE. in accordance with the Americans with Disabilities Act, persons with disabilities needing a special accommodation to perticloate in this proceeding should contact the ADA Coordinator no later than 48 hours in advance of the meeting at (352)540-3810. Meeting agendas and supporting documentation are available from the City Clerk's office and online at www.cityofbrooksville.

Interested parties may appear at the meeting and be heard with respect to the proposed ordinance. Any person desiring to appeal any decision with respect to any matter considered at this meeting may need a record of the proceedings including the teatmony and evidence upon which the appeal is to be based, and, therefore, must make arrangements for a court reporter to ensure that a verbatim record of the proceeding is made.

s/ Jennifer J. Battista, CMC

Published: December 30, 2022





City of Brooksville Impact Fee Study

Final Report September 23, 2022







Prepared for:

City of Brooksville 201 Howell Avenue Brooksville, FL 34601 ph (352) 540-3810

Prepared by:

1032001-00.20

Benesch

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City of Brooksville Impact Fee Study

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I. Introduction

The City of Brooksville collects Hernando County impact fees in the city, but does not have any city impact fees. At this time, the City is interested in implementing impact fees for the following service areas:

- Fire Rescue
- Public Buildings
- Parks & Recreation
- Multi-Modal Transportation

The City of Brooksville has retained Benesch (formerly Tindale Oliver) to prepare a technical study to develop impact fee calculations for these service areas. This report serves as the technical study to support the calculation of impact fees. Data and information included in this report are collected primarily in 2021.

Methodology

In developing the City's impact fee program, a consumption-based impact fee methodology is utilized, which is commonly used throughout Florida. A consumption-based impact fee charges new development based upon the burden placed on services from each land use (demand). The demand component is measured in terms of population per unit of development by land use in the case of all impact fee program areas in this study with the exception of transportation. In the case of multimodal transportation, person-miles of travel is used.

A consumption-based impact fee charges new growth the proportionate share of the cost of providing additional infrastructure available for use by new growth. Unlike a "needs-based" approach, the consumption-based approach ensures that the impact fee is set at a rate that does not generate sufficient revenues to correct existing deficiencies. As such, the City does not need to go through the process of estimating the portion of each capacity expansion project that may be related to existing deficiencies. In addition, per legal requirements, a credit is subtracted from the total cost to account for the value of future tax contributions of new development toward any capacity expansion projects. In other words, case law requires that the new development should not be charged twice for the same service.

Legal Overview

In Florida, legal requirements related to impact fees have primarily been established through case law since the 1980's. Impact fees must comply with the "dual rational nexus" test, which requires that they:

- Be supported by a study demonstrating that the fees are proportionate in amount to the need created by new development paying the fee; and
- Be spent in a manner that directs a proportionate benefit to new development, typically accomplished through establishment of benefit districts (if needed) and a list of capacityadding projects included in the City's Capital Improvement Plan, Capital Improvement Element, or another planning document/Master Plan.

In 2006, the Florida legislature passed the "Florida Impact Fee Act," which recognized impact fees as "an outgrowth of home rule power of a local government to provide certain services within its jurisdiction." § 163.31801(2), Fla. Stat. The statute — concerned with mostly procedural and methodological limitations — did not expressly allow or disallow any particular public facility type from being funded with impact fees. The Act did specify procedural and methodological prerequisites, such as the requirement of the fee being based on most recent and localized data, a 90-day requirement for fee changes, and other similar requirements, most of which were common to the practice already.

More recent legislation further affected the impact fee framework in Florida, including the following:

- HB 227 in 2009: The Florida legislation statutorily clarified that in any action challenging
 an impact fee, the government has the burden of proving by a preponderance of the
 evidence that the imposition or amount of the fee meets the requirements of state legal
 precedent or the impact Fee Act and that the court may not use a deferential standard.
- SB 360 in 2009: Allowed fees to be decreased without the 90-day notice period required to increase the fees and purported to change the standard of legal review associated with impact fees. SB 360 also required the Florida Department of Community Affairs (now the Department of Economic Opportunity) and Florida Department of Transportation (FDOT) to conduct studies on "mobility fees," which were completed in 2010.
- **HB 7207 in 2011:** Required a dollar-for-dollar credit, for purposes of concurrency compliance, for impact fees paid and other concurrency mitigation required.

- HB 319 in 2013: Applied mostly to concurrency management authorities, but also encouraged local governments to adopt alternative mobility systems using a series of tools identified in section 163.3180(5)(f), Florida Statutes, including:
 - Adoption of long-term strategies to facilitate development patterns that support
 multi-modal solutions, including urban design, and appropriate land use mixes,
 including intensity and density.
 - 2. Adoption of an area-wide level of service not dependent on any single road segment function.
 - 3. Exempting or discounting impacts of locally desired development, such as development in urban areas, redevelopment, job creation, and mixed use on the transportation system.
 - 4. Assigning secondary priority to vehicle mobility and primary priority to ensuring a safe, comfortable, and attractive pedestrian environment, with convenient interconnection to transit.
 - 5. Establishing multi-modal level of service standards that rely primarily on non-vehicular modes of transportation where existing or planned community design will provide adequate level of mobility.
 - Reducing impact fees or local access fees to promote development within urban areas, multi-modal transportation districts, and a balance of mixed-use development in certain areas or districts, or for affordable or workforce housing.

Also, under HB 319, a mobility fee funding system expressly must comply with the dual rational nexus test applicable to traditional impact fees. Furthermore, any mobility fee revenues collected must be used to implement the local government's plan, which served as the basis for the fee. Finally, under HB 319, an alternative mobility system, that is not mobility fee-based, must not impose upon new development any responsibility for funding an existing transportation deficiency.

- **HB 207** in **2019**: Included the following changes to the Impact Fee Act along with additional clarifying language:
 - 1. Impact fees cannot be collected prior to building permit issuance; and
 - Impact fee revenues cannot be used to pay debt service for previously approved projects unless the expenditure is reasonably connected to, or has a rational nexus with, the increased impact generated by the new residential and commercial construction.

- HB 7103 in 2019: Addressed multiple issues related to affordable housing/linkage fees, impact fees, and building services fees. In terms of Impact fees, the bill required that when local governments increase their impact fees, the outstanding impact fee credits for developer contributions should also be increased. This requirement was to operate prospectively; however, HB 337 that was signed in 2021 deleted this clause and making all outstanding credits eligible for this adjustment. This bill also allowed local governments to waive/reduce impact fees for affordable housing projects without having to offset the associated revenue loss.
- SB 1066 in 2020: Added language allowing impact fee credits to be assignable and
 transferable at any time after establishment from one development or parcel to another
 that is within the same impact fee zone or impact fee district or that is within an adjoining
 impact fee zone or district within the same local government jurisdiction. In addition,
 added language indicating any new/increased impact fee not being applicable to current
 or pending permit applications submitted prior to the effective date of an ordinance or
 resolution imposing new/increased fees.
- **HB 1339 In 2020:** Required reporting of various impact fee related data items within the annual financial audit report submitted to the Department of Financial Services.
- HB 337 in 2021: Placed limits on the amount and frequency of fee increases, but also included a clause to exceed these restrictions if the local governments can demonstrate extraordinary circumstances, hold two public workshops discussing these circumstances and the increases are approved by two-thirds of the governing body. This act is retroactive to January 1, 2021.

The following paragraphs provide further detail on the generally applicable legal standards applicable here.

Impact Fee Definition

- An impact fee is a one-time capital charge levied against new development.
- An impact fee is designed to cover the portion of the capital costs of infrastructure capacity consumed by new development.
- The principal purpose of an impact fee is to assist in funding the implementation of projects identified in the Capital improvements Element (CIE) and other capital improvement programs for the respective facility/service categories.

Impact Fee vs. Tax

- An impact fee is generally regarded as a regulatory function established based upon the specific benefit to the user related to a given infrastructure type and is not established for the primary purpose of generating revenue for the general benefit of the community, as are taxes.
- Impact fee expenditures must convey a proportional benefit to the fee payer. This is accomplished through the establishment of benefit districts as needed, where fees collected in a benefit district are spent in the same benefit district.
- An impact fee must be tied to a proportional need for new infrastructure capacity created by new development.

This technical report has been prepared to support legal compliance with existing case law and statutory requirements and documents the methodology used for impact fee calculations for each fee in the following sections, including an evaluation of the inventory, service area, level of service (LOS), cost, credit, and demand components. Information supporting this analysis was obtained from the City and other sources, as indicated.

II. Fire Rescue Facilities

This section provides the results of the fire rescue impact fee analysis. Several elements addressed in this section include:

- Facility Inventory
- Service Area and Population
- Level of Service
- Cost Component
- Credit Component
- Net Fire Rescue Impact Cost
- Calculated Impact Fee Schedule
- Impact Fee Schedule Comparison

Facility Inventory

Table II-1 presents the buildings and land inventory associated with the fire rescue services in the City of Brooksville, which includes approximately 12,000 square feet of building space and 0.63 acres of land.

Cost estimates for buildings are based on insurance values, cost estimates available from the City, and cost information obtained from Hernando County and other Florida jurisdictions. Land values are based on a review of the current value of land where the existing fire station is located as well as vacant land sales and values of similarly sized and located parcels based on information obtained from the Hernando County Property Appraiser database.

Based on this review and analysis, the building value is estimated at \$300 per square foot for the fire station, \$90 per square foot for the vehicle storage building and the land value is estimated at \$80,000 per acre. Using these cost estimates results in a total building and land value of approximately \$2.6 million for fire rescue services. A more detailed explanation of building and land value estimates is included in Appendix B.

Table II-1 Fire Rescue Buildings and Land Inventory

	The Nest	ac panantê	s and Land	HIVEHLOLY				
Description	Address	Number of Bays ⁽¹⁾	Year Built ⁽²⁾	Square Footage ⁽³⁾	Acres ⁽⁴⁾	Building Välue ⁽⁵⁾	Land Value ⁽⁸⁾	Building & Land Value ⁽⁷⁾
Fire Station 61	85 Veterans Ave, Brooksville, FL 34601	8	1981	7,158	0.63	\$2,147,400	ČEO 400	£2.647.000
Vehicle Storage Building	as veteralis Ave, Blooksville, FL 34601	3N/A	1998	5,000	0.05	\$450,000	\$50,400	\$2,647,800
Total				12,158	0.63	\$2,597,400	\$50,400	\$2,647,800
Weighted Average Buildi	value per Square Foot ⁽⁸⁾					\$214		
Land Value per Acre ^[9]							\$80,000	

- 1) Source: City of Brooksville
- 2) Source: City of Brooksville
- 3) Source: City of Brooksville
- 4) Source: Hernando County Property Appraiser
- 5) Square footage (item 3) multiplied by the estimated building value per square foot of \$300 for the fire station and \$90 for the vehicle storage building. Appendix B

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- 6) Acreage (Item 4) multiplied by the estimated land value per acre (Item 9). Appendix 8 provides further detail.
 7) Sum of building and land values (Items 5 and 6)
- 8) Total building value (Item 5) divided by total square footage (Item 3)
- 9) Source: Appendix B

In addition to land and buildings, the City of Brooksville fire rescue impact fee inventory includes the necessary vehicles and equipment required to perform its services. As presented in Table II-2, the total vehicle and equipment value is approximately \$1.7 million for fire rescue services.

Table II-2
Fire Rescue Vehicle and Equipment Inventory

Description	Value per Unit ⁽¹⁾	Unit Count ⁽¹⁾	Total Value ⁽¹⁾
Vehicles			A CASALIN
Fire Truck Freightliner American LaFrance E61 A	\$253,400	1	\$253,400
Fire Truck Ford Rescue Old Brush 61	\$70,100	1	\$70,100
Fire Truck Sutphen Fire Ladder Truck	\$695,000	1	\$695,000
Heavy Weight Ford Expedition 4x4	\$30,566	1	\$30,566
Medium Weight Ford F250 Response Vehicle DC60	\$49,725	1	\$49,725
Fire Truck Sutphen Pumper Truck E61	\$515,600	1	\$515,600
Non Emergency Chevrolet Traverse Chief 60	\$35,020	<u>1</u>	\$35,020
Subtotal - Equipment Value		7	\$1,649,411
Equipment			TALES.
Camera	\$13,948	1	\$13,948
Patches/Pumper Robot	<u>\$9,432</u>	1	\$9,432
Subtotal - Equipment Value		2	\$23,380
Total Vehicle & Equipment Value ⁽³⁾		_	\$1,672,791

¹⁾ Source: City of Brooksville Finance Department

Service Area and Demand Component

The City of Brooksville provides fire rescue services throughout the city. As such, the proper benefit district is the entire city. In this technical study, the 2021 weighted and functional population estimates are used to measure level of service and the demand component. Because simply using weighted (permanent, plus weighted seasonal) population estimates does not fully address daily workers and visitors who also benefit from fire rescue services, the "functional" weekly 24-hour population approach is used to establish a common unit of demand across different land uses. Functional population accounts for residents, visitors, and workers traveling in and out of the service area throughout the day and calculates the presence of population at the different land uses during the day, which represents the demand component of the impact fee equation. Appendix A provides further detail on the population analysis conducted.

Level of Service

The City of Brooksville is served by one fire rescue station. Based on associated service area population, the resulting current achieved level of service (LOS) is one station per 9,200 weighted seasonal residents for fire rescue services.

In terms of functional residents, the City's achieved LOS is approximately 13,600 functional residents per fire rescue station or 0.074 stations per 1,000 functional residents. The use of current LOS in the impact fee calculations implies that the City intends to continue to provide this level of infrastructure.

Table II-3
Current Level of Service (2021)

Variable	Year 2021			
Valiable	Weighted	Functional		
Population ⁽¹⁾	9,246	13,552		
Number of Stations ⁽²⁾	1	1		
Achieved LOS (Stations per 1,000 population) ⁽³⁾	0.108	0.074		

1) Source: Appendix A, Table A-1 and Table A-7

2) Source: Table II-1

3) Population (Item 1) divided by the number of stations (Item 2)

Table II-4 compares the level of service for other select Florida cities to the level of service of City of Brooksville. The LOS is displayed in terms of permanent population for 2020 for the service area of all entities.

Table II-4
Level of Service Comparison (2020)

Community	2020 Service Area Population ⁽¹⁾	Number of Stations ⁽²⁾	Residents per Station ⁽³⁾	LOS (Stations per 1,000 Residents) ⁽⁴⁾
Minneola	13,843	1	13,843	0.072
Plant City	39,764	3	13,255	0.075
Maitland	19,543	2	9,772	0.102
Tavares	19,003	2	9,502	0.105
Brooksville	8,890	1	8,890	0.112
New Port Richey	16,728	2	8,364	0.120
Mount Dora	16,341	2	8,171	0.122
Inverness	7,543	1	7,543	0.133
Leesburg	27,000	4	6,750	0.148
Lake Alfred	6,374	1	6,374	0.157
Groveland	18,505	3	6,168	0.162

- 1) Source: 2020 U.S. Census Bureau Population Estimates
- 2) Source: City websites and the US Fire Administration; National Fire Department Census
- 3) Service area population (Item 1) divided by the number of station (Item 2)
- 4) Number of stations (Item 2) divided by the service area population (Item 1) divided by 1,000

Cost Component

The cost component of the study evaluates the cost of all capital assets, including buildings, land, vehicles and equipment. Table II-5 provides a summary of all capital costs, amounting to approximately \$4.3 million for fire rescue services.

In addition, Table II-5 also provides the impact cost per functional resident, which is calculated by multiplying the net asset value per station by the current LOS (stations per 1,000 functional residents) and dividing by 1,000. As shown, this calculation results in \$320 per functional resident for fire rescue services.

Table II-5
Total Impact Cost per Functional Resident

Variable	Figure	Percent of Total ⁽⁹⁾	
Building Value ⁽¹⁾	\$2,597,400	60.1%	
Land Value ⁽²⁾	\$50,400	1.2%	
Vehicle and Equipment Value (3)	\$1,672,791	38.7%	
Total Asset Value ⁽⁴⁾	\$4,320,591	100.0%	
Number of Stations ⁽⁵⁾	1		
Cost per Station ⁽⁶⁾	\$4,320,591		
Achieved LOS (Stations per 1,000 population) ⁽⁷⁾	0.074		
Total Impact Cost per Functional Resident ⁽⁸⁾	\$319.72		

- Source: Table II-1
 Source: Table II-1
 Source: Table II-2
- 4) Sum of building value (Item 1), land value (Item 2), and vehicle/equipment value (Item 3)
- 5) Source: Table II-1
- 6) Net asset value (Item 4) divided by the number of stations (Item 5)
- 7) Source: Table II-3
- 8) Cost per station (Item 6) multiplied by the achieved LOS (Item 7) divided by 1,000
- 9) Distribution of total asset value

Credit Component

To avoid overcharging new development for the fire rescue impact fee, a review of the capital funding program for fire rescue services was completed. The purpose of this review was to determine any potential revenue credits generated by new development that are being used for expansion of capital facilities, land, vehicles, and equipment included in the inventory. It should be noted that the credit component does not include any capital renovation, maintenance, or operational expenses, as these types of expenditures cannot be funded with impact fee revenue.

Capital Expansion Credit

To calculate the capital expansion credit per functional resident, funding sources from 2020 to 2025 were reviewed. During this six-year period, an average annual non-impact fee funding of \$29,000 is allocated toward fire rescue services capital facilities utilizing revenues primarily from the fire assessment program and grants. The annual capital expansion expenditures were divided by the average annual functional residents for the same period to calculate the average annual capital expansion credit per functional resident. As presented in Table II-6, the result is approximately \$2.09 per functional resident.

Table II-6
Capital Expansion Credit

Description ⁽ⁱ⁾	Funding Source	2020	2021	2022	7011	2024	2025	Total 2020- 2025
Egulpment	Fire Assesment	\$38,800	\$58,000	50	\$0	\$13,000	50	\$109,800
Facility Upgrade	State Grant	\$63,150	\$0	\$0	50	50	50	\$63,150
Total Capital Expand	itures	\$101,950	\$58,000	50	\$0	\$13,000	\$0	\$172,950
Average Annual Cap	ital Expansion Expenditi	Ires ⁽²⁾						\$28,825
Average Annual Functional Population ⁽³⁾							13,800	
	edit per Functional Resi	dent ⁽⁴⁾						\$2.09

- 1) Source: City of Brooksville
- 2) Source: Average annual capital expansion expenditures over the 6-year period
- 3) Source: Appendix A, Table A-7
- 4) Average annual capital expansion expenditures (Item 2) divided by average annual functional population (Item 3)

Net Fire Rescue Impact Cost

Table II-7 summarizes the net impact cost per functional resident, which is the difference between the cost component and the credit component. The resulting net impact cost is \$280 per functional resident.

Table II-7
Net Impact Cost per Resident

ties miles and bet menant				
Variable	Impact Cost	Revenue Credits		
Impact Cost				
Total Impact Cost per Functional Resident ⁽¹⁾	\$319.72			
impact Credit				
Capital Expansion Credit per Functional Resident (2)	H. 1.3-1	\$2.09		
Capitalization Rate		2.15%		
Capitalization Period (in years)		25		
Present Value of Capital Expansion Credit per Functional Resident (3)		\$40.09		
Net Impact Cost				
Net Impact Cost per Functional Resident ⁽⁴⁾	\$279.63			

- 1) Source: Table II-5
- 2) Source: Table II-6
- 3) Present value of the capital expansion credit per functional resident over a 25-year period at a capitalization rate of 2.15% as provided by the City of Brooksville.
- 4) Total impact cost per functional resident (Item 1) less the present value of capital expansion credit per functional resident (Item 3)

Calculated Fire Rescue Impact Fee Schedule

Table II-8 presents the calculated fire rescue impact fee schedule for the City of Brooksville, based on the net impact cost per functional resident previously presented in Table II-7.

Table II-8
Calculated Fire Rescue Impact Fee Schedule

ITE LUC	Land Use	Impact Unit	Functional Resident Coefficient ⁽³⁾	Calculated Impact Fee ⁽⁹⁾
Residential:				
210	Single Family (detached)	du	1.46	\$408
220/221/222	Multi-Family (Apartment/Condominium/Townhouse)	du	1.18	\$330
240	Mobile Home	du	1.03	\$288
251	Senior Housing (Detached)	du	1.12	\$313
252	Senior Housing (Attached)	du	0.91	\$254
Translent, Ass	sted, Group:			
253/255	Congregate Care Facility/Continuing Care Retirement Center	du	1.06	\$296
254	Assisted Living	bed	0.97	\$271
310	Hotel	room	1.16	\$924
320	Motel	room	0.99	\$277
620	Nursing Home	bed	1.09	\$305
Recreational:				
416	RV Park	occupied site	0.47	\$131
420	Marina	boat berth	0.13	\$36
430	Golf Course	acre	0.10	\$28
444	Movie Theater	screen	5.19	\$1,451
492	Health/Fitness Club	1,000 sf	2.41	\$674
Institutional:		4-11-1		
520	Elementary School (Private)	student	0.10	528
522	Middle School (Private)	student	0.09	\$25
525	High School (Private)	student	0.08	\$22
540	University 7,500 or fewer students (Private)	student	0.10	\$28
550	University greater than 7,500 students (Private)	student	0.08	\$22
560	Public Assembly	1,000 sf	0.41	\$115
565	Day Care Center	1,000 sf	0.81	\$227
Medical:				
610	Hospital	1,000 sf	1.30	\$364
630	Clinic	1,000 sf	1.50	\$419
Office:				
710	Office	1,000 sf	0.98	\$274
720	Medical Office 10,000 sq ft or less	1,000 sf	1.20	\$336
720	Medical Office greater than 10,000 sq ft	1,000 sf	1.72	\$481
Retall:				
812	Building Materials/Lumber Store	1,000 sf	0.54	\$151

Table II-8 (Continued)
Calculated Fire Rescue Impact Fee Schedule

ITE L UC	Land Use	Impac t Unit	Functional Resident Coefficient ⁽¹⁾	Calculated Impact Fee ⁽²⁾
Retall:				
813	Discount Superstore, Free-Standing	1,000 sf	1.72	\$481
816	Hardware/Paint Store	1,000 sf	0.25	\$70
822	Retall/Shopping Center (less than 40,000 sfgla)	1,000 s/gla	2.08	\$582
821	Retall/Shopping Center (40,000 sfgla to 150,000 sfgla)	1,000 sfgla	2.58	\$721
820	Retail/Shopping Center (greater than 150,000 sfgla)	1,000 sfgla	1.41	\$394
840/841	New/Used Auto Sales	1,000 sf	1.57	\$439
850	Supermarket	1,000 sf	2.45	\$685
862	Home Improvement Superstore	1,000 sf	1.94	\$542
880/881	Pharmacy/Drug Store with & without Drive-Thru	1,000 sf	1.84	\$515
890	Furniture Store	1,000 sf	0.32	\$89
Services:				
912	Bank/Savings Drive-In	1,000 sf	1.48	\$414
931	Fine Dining/Quality Restaurant	1,000 sf	5.76	\$1,611
932	High Turnover (Sit-Down) Restaurant	1,000 sf	5.42	\$1,516
934	Fast Food Restaurant w/Drive-Thru	1,000 sf	9.77	\$2,732
942	Automobile Care Center	1,000 sf	1.67	\$467
944	Gas Station w/Convenience Store <2,000 sq ft	fuel pos.	1.46	\$408
945	Gas Station w/Convenience Store 2,000-5,499 sq ft	fuel pos.	2.30	\$643
945	Gas Station w/Convenience Store 5,500+ sq ft	fuel pos.	3.00	\$839
947	Self-Service Car Wash	service bay	0.96	\$268
n/a	Convenience/Gasoline/Fast Food Restaurant	1,000 sf	7.97	\$2,229
Industrial:	Survey Bridge - Company of the Compa			
110	General Light Industrial	1,000 sf	0.48	\$134
130	Industrial Park	1,000 sf	0.35	\$98
140	Manufacturing	1,000 sf	0.55	\$154
150	Warehouse	1,000 sf	0.11	\$31
151	Mini-Warehouse	1,000 sf	0.04	\$11

¹⁾ Source: Appendix A, Table A-8 for residential and transient, assisted, group land uses and Table A-9 for non-residential land uses

²⁾ Net impact cost per functional resident from Table II-7 multiplied by the functional resident coefficient (Item 1) for each land use

Fire Rescue Impact Fee Schedule Comparison

As part of the work effort in developing the City of Brooksville fire rescue impact fee schedule, the City's calculated impact fee schedule was compared to the adopted fee schedules of other select Florida cities. Tables II-9 and presents this comparison.

Table II-9
Fire Rescue Impact Fee Schedule Comparison

	_						o comp						
tond the	Una ⁽¹⁾	City of Britished to	Primarido Calculated III	Soliting II	Fruitiand Park (a)	Groveland (7)	Invertess (s)	Continued (1)	Mailland =	Minusota (21)	Manual Dam ****	Tavares(11)	Plant City (3)
Date of last Update		2021	2021	2013	2006	2017	N/A	2019	2016	N/A	N/A	2006	2006
Adoption percenta (1)		N/A	N/A	100%	1,00%	100%	ri/A	100%	100%	N/A	N/A	100%	100%
Hasklentlat:					75.71							1.0	33
Sogle Family (2,000 sf)	du	\$40	5316	\$235	\$609	5484	53114	5398	5390	\$379	5444		\$363
Multi-family (1.300 sf)	du	\$330	\$291	5177	\$368	5484	\$278	5281	5498	\$405	\$229	\$305	\$308
Mon-Residential:	, I												
Light Industrial	1,000 sf	\$134	\$98	\$86	\$267	\$270	\$84	\$87	\$0	\$179	\$81	\$151	\$139
Office (59,000 sf)	1,000 sf	\$27	\$174	\$171	5546	\$630	\$224	\$253	\$210	1301	\$350	\$#11	\$262
Retail [125,000 sf]	1,000 sf	\$721	\$296	\$334	\$905	\$630	\$475	\$430	\$670	\$741	\$377	\$464	\$343
Bank w/blue-Thru	1,000 sf	\$414	\$292	\$328	\$669	\$630	\$475	\$430	\$670	\$741	\$377	\$455	\$464
Fast Food w/Drive-Thru	1,000 sf	\$1,732	\$1,910	\$510	\$3,386	\$630	\$475	\$430	\$2,430	\$741	\$377	\$1,915	\$1,765

- 1) Represents the portion of the maximum calculated fee for each respective county that is actually charged. Fee may have been I owered/increased through annual indexing or policy discounts. Does not account for moratorium/suspensions.
- 2) du = dwelling unit
- 3) Source: Table II-8
- 4) Source: Tindale Oliver Hernando County Impact Fee Update Study 2021. Calculated fees represent results of the on-going study and are not yet adopted.
- 5) Source: Hernando County Planning & Development Department. Fee shown represents the sum of fire and EMS impact fees.
- 6) Source: City of Fruitland Park Community Development, Ordinance 2006-004
- 7) Source: City of Groveland Ordinance 2019-5
- 8) Source: City of Inverness Code of Ordinances, Florida, Chapter 11.5-Impact fees
- 9) Source: City of Lakeland Community and Economic Development
- 10) Source: City of Maitland Code of Ordinances, Chapter 6 Fire Protection, Article IV Fire Protection Facilities and Services Impact Fee
- 11) Source: City of Minneola Code of Ordinances, Florida, Subpart A-General Ordinances, Chapter 42 Impact Fees, Article IV-Fire Protection
- 12) Source: City of Mount Dora Fee Schedule for Building and Planning
- 13) Source: City of Tavares Document Center, Permitting & Impact Fees
- 14) Source: Plant City Code of Ordinances, Chapter 86-Impact Fees, Article II.-Fire Protection

III. Public Buildings

This section discusses the analysis used in developing the public buildings impact fee. Several elements addressed in this section include:

- Facility Inventory
- Service Area and Population
- Level of Service
- Cost Component
- Net Public Buildings Impact Cost
- Calculated Impact Fee Schedule
- Impact Fee Schedule Comparison

These elements are summarized throughout this section.

Facility Inventory

The City of Brooksville owns and operates approximately 51,000 square feet of public facilities on 6 acres throughout the city.

As shown in Table III-1, the total value of the public buildings is estimated at \$12 million, of which \$11.7 million is associated with buildings and the remaining \$327,000 with land. The building value is estimated at \$230 per square foot. These unit figures are based on insurance values of existing buildings, cost information received from Hernando County and other Florida jurisdictions and discussions with City representatives. Land values are based on a review of land value of existing buildings, vacant land sales and values of similar size properties in the city and is estimated at \$55,000 per acre. Appendix B provides additional information.

Table III-1 **Public Facilities Building and Land Inventory**

Address	building Type	Year Acquired/ Built ⁽¹⁾	Number of Acres ⁽²⁾	Square Feet ⁽³⁾	Building Value ^(a)	tand Value ^(s)	Total Building and Land Valual!!	
251 Howell Avenue	Primary	1975	2.74	26,650	\$6,129,500	\$150,700	\$6,280,200	
600 South Brooksville Ave	Primary	1950	3.21	17,141	\$3,942,430	\$176.550	\$4,118,980	
Police Station ⁽⁷⁾ 87 Veterans Avenue Primary 1990		1990	N/A	7,120	\$1,537,600	N/A	\$1.637.600	
Total 5.95 50,9							\$12,036,780	
Building Value per Square Foot ^(h) \$230								
						\$55,000		
	600 South Brooksville Ave 87 Veterans Avenue	201 Howell Avenue Primary 600 South Brooksville Ave Primary 87 Veterans Avenue Primary	Address building Type Acquired/ Built (1) 201 Howell Avenue Primary 1975 600 South Brooksville Ave Primary 1950 87 Veterans Avenue Primary 1990	Addition Addition Addition Number of Built Built Acres A	### Acquired Number of Square Number of Build Recested Feet Primary 1975 2.74 26,650 ### South Brooksville Ave Primary 1950 3.21 17,141 ### R7 Veterans Avenue Primary 1990 N/A 1.10 ### S.95 50,911	Addiest building typ Acquired/ Ruilt(1) Acres (3) Feet(1) Value(2) Feet(1) Value(3) Feet(1) Value(3) Feet(1) Value(3) Feet(1)	Acquired Acquired Acquired Acquired Acres Feet Acquired Acres Feet Acquired Acres Feet Acquired Acquired	

- 1) Source: City of Brooksville
- 2) Source: Hernando County Property Appraiser
- 3) Source: City of Brooksville
- 4) Estimated building value per square foot (\$230) multiplied by building square feet (Item 3)
 5) Number of acres (Item 2) multiplied by the estimated land value per acre (Item 9)

- 6) Sum of building and land value (Items 4 and 5)
 7) Acreage is excluded since the station is located on the same parcel as the golf course
- 8) Total building value (Item 4) divided by total square feet (Item 3)
- 9) Source: Appendix B

Service Area and Demand Component

The service area for public buildings is citywide, which also represents the appropriate benefit district. In this technical study, the current 2021 weighted and functional population estimates are used. Because simply using weighted (permanent, plus weighted seasonal) population estimates does not fully address daily workers and visitors who also benefit from general government services, the "functional" weekly 24-hour population approach is used to establish a common unit of demand across different land uses. Functional population accounts for residents, visitors, and workers traveling in and out of the service area throughout the day and calculates the presence of population at the different land uses during the day, which represents the demand component of the impact fee equation. Appendix A provides further detail on the population analysis conducted.

Level of Service

Table III-2 provides the current achieved LOS for public buildings in terms of square feet per resident. The LOS is provided both in terms of weighted seasonal population and functional population. Impact fee calculations assume that the City will continue to provide this level of service in the future.

Table III-2
Current Level of Service (2021)

	2021				
Variable	Weighted Population	Functional Population			
Population ⁽¹⁾	9,246	13,552			
Public Buildings Square Footage ⁽²⁾	50,911	50,911			
Current LOS (Square Feet per Resident) (3)	5.51	3.76			

- 1) Source: Appendix A, Tables A-1 and A-7
- 2) Source: Table III-1
- 3) Total square footage (Item 2) divided by population (Item 1)

Cost Component

The cost component of the study evaluates the cost of capital items, including buildings and land. Table III-3 provides a summary of all capital costs, which amounts to approximately \$12 million. Table III-3 also presents the cost per resident for the impact fee analysis. This cost is calculated by multiplying the total building and land value per square foot by the current LOS of 3.76 square

feet per resident. As shown, these calculations result in \$889 per resident for public buildings capital assets.

Table III-3
Total Impact Cost per Resident

Variable	Figure	Percent of Total ⁽⁸⁾
Total Building Value ⁽¹⁾	\$11,709,530	97%
Total Land Value ⁽²⁾	\$327,250	3%
Total Asset Value ⁽³⁾	\$12,036,780	100%
Total Building Square Footage ⁽⁴⁾	50,911	
Total Asset Value per Square Foot ⁽⁵⁾	\$236.43	
Current LOS (Total Square Feet per Functional Resident) (6)	3.76	
Total Impact Cost per Functional Resident ⁽⁷⁾	\$888.98	

- 1) Source: Table III-1
- 2) Source: Table III-1
- 3) Sum of building value (Item 1) and land value (Item 2)
- 4) Source: Table III-1
- 5) Total asset value (Item 3) divided by building square footage (Item 4)
- 6) Source: Table III-2
- 7) Total cost per square foot (Item 5) multiplied by the achieved LOS (Item 6)
- 8) Distribution of total asset value (Item 3)

Credit Component

To avoid overcharging new development, a review of the capital funding allocation for public buildings is completed. The purpose of this review is to determine any potential revenues generated by future development that is likely to be used for additional land and building expansion projects. Revenue credits are then applied against the total impact cost per functional resident so that new development is not charged twice for capital revenue contributions used to expand public buildings. This review indicated that the City does not have any funding identified for public buildings capacity projects and will rely primarily on impact fee revenues for these improvements. However, a 10-percent credit is included in the calculations to provide the City with the flexibility to use some level of alternative funding if needed. The resulting credit is \$89 per functional resident. If, in the future, the City starts allocating a larger amount of non-impact fee funding toward these facilities, the credit calculations should be revised.

Net Public Buildings Impact Cost

The net public buildings impact cost per resident is the difference between the cost component and the credit component. Table III-4 summarizes the calculation of the net public buildings impact cost per resident. As presented, the net impact cost per resident amounts to approximately \$800.

Table III-4
Net Impact Cost per Resident

Variable	Impact Cost	Revenue Credits
Impact Cost		
Total Impact Cost per Functional Resident(1)	\$888.98	
Revenue Credit		
Credit Percentage ⁽²⁾	-	10%
Credit Amount ⁽³⁾		\$88.90
Net Impact Cost		
Net Impact Cost per Functional Resident ⁽⁴⁾	\$800.08	_

- 1) Source: Table III-3
- An estimated 10% credit is provided to give the City the flexibility to use other revenue sources.
- 3) Revenue credit percentage (item 2) multiplied by total impact cost per functional resident (item 1)
- 4) Total impact cost per functional resident (Item 1) less total revenue credit per functional resident (Item 3)

Calculated Public Bulldings Impact Fee Schedule

Table III-5 presents the calculated public buildings impact fee schedule for the City of Brooksville based on the net impact cost per resident previously presented in Table III-4.

Table III-5
Calculated Public Buildings Impact Fee Schedule

TELUC	Land Use	Impact Vnit	Functional Resident Coefficient ^[1]	Total Impact Fee ⁽²⁾	
Residential:					
210	Single Family (detached)	du	1.46	\$1,168	
220/221/222	Multi-Family (Apartment/Condominium/Townhouse)	du	1.18	\$944	
240	Mobile Home	du	1,03	\$824	
251	Senior Housing (Detached)	du	1.12	\$896	
252	Senior Housing (Attached)	du	0.91	\$728	
Transient, Assi	sted, Group:		100		
253/255	Congregate Care Facility/Continuing Care Retirement Center	du	1.06	\$848	
254	Assisted Living	bed	0.97	\$776	
310	Hotel	room	1.16	\$928	
320	Motel	room	0.99	\$792	
620	Nursing Home	bed	1.09	\$872	
Recreational:				-V U	
416	RV Park	occupied site	0.47	\$376	
420	Marina	boat berth	0.13	\$104	
430	Golf Course	acre	0.10	\$80	
444	Movie Theater	screen	5.19	\$4,152	
492	Health/Fitness Club	1,000 sf	2.41	\$1,928	
Institutional:					
520	Elementary School (Private)	student	0,10	\$80	
522	Middle School (Private)	student	0.09	572	
530	High School (Private)	student	0.08	\$64	
540	University/Junior College (7,500 or fewer students) (Private)	student	0.10	\$80	
550	University/Junior College (more than 7,500 students) (Private)	student	0.08	\$64	
560	Public Assembly	1,000 sf	0.41	\$328	
565	Day Care Center	1,000 sf	0.81	\$648	
Medical:					
610	Hospital	1,000 sf	1.30	\$1,040	
630	Clinic	1,000 sf	1.50	\$1,200	
Office:	•	***			
710	General Office	1,000 sf	0.98	\$784	
720	Medical Office 10,000 sq ft or less	1,000 sf	1.20	\$960	
720	Medical Office greater than 10,000 sq ft	1,000 sf	1.72	\$1,376	
Retall:		1111			
812	Buildings Materials/Lumber Store	1,000 sf	0.54	\$432	

Table III-5 (Continued) Calculated Public Buildings Impact Fee Schedule

ITE LUC	Land Use	Impact Vnit	Functional Resident Coefficient ⁽¹⁾	Total Impact Fee ⁽²⁾
Retail:				
813	Discount Superstore, Free-Standing	1,000 sf	1.72	\$1,376
816	Hardware/Paint Store	1.000 sf	0.25	\$200
822	Retail/Shopping Center (less than 40,000 sfgla)	1,000 sfgla	2.08	\$1,664
821	Retall/Shopping Center (40,000 sfgla to 150,000 sfgla)	1,000 sfgla	2.58	\$2,064
820	Retail/Shopping Center (greater than 150,000 sfgla)	1,000 sfgla	1.41	\$1,128
840/841	New/Used Auto Sales	1,000 sf	1.57	\$1,256
850	Supermarket	1,000 sf	2.45	\$1,960
862	Home improvement Superstore	1,000 sf	1.94	\$1,552
880/881	Pharmacy/Drug Store with & without Drive-Thru	1,000 sf	1.84	\$1,472
890	Furniture Store	1,000 sf	0.32	\$256
Services:				
912	Bank/Savings Drive-In	1,000 sf	1.48	\$1,184
931	Fine Dining/Quality Restaurant	1,000 sf	5.76	\$4,608
932	High-Turn Over (Sit-Down) Restaurant	1,000 sf	5.42	\$4,336
934	Fast Food Restaurant w/Drive-Thru	1,000 sf	9.77	\$7,817
942	Automobile Care Center	1,000 sf	1.67	\$1,336
944	Gas Station w/Convenience Store <2,000 5q ft	fuel pos.	1.46	\$1,168
945	Gas Station w/Convenience Store 2,000-5,499 sq ft	fuel pos.	2.30	\$1,840
945	Gas Station w/Convenience Store 5,500+ sq ft	fuel pos.	3.00	\$2,400
947	Self-Service Car Wash	service bay	0.96	\$768
n/a	Convenience/Gasoline/Fast Food Restaurant	1,000 sf	7.97	\$6,377
Industrial				
110	General Light Industrial	1,000 sf	0.48	\$384
130	Industrial Park	1,000 sf	0.35	\$280
140	Manufacturing	1,000 sf	0.55	\$440
150	Warehousing	1,000 sf	0.11	\$88
151	Mini-Warehouse	1,000 sf	0.04	\$32

¹⁾ Source: Appendix A, Table A-8 for residential and transient, assisted, group land uses and Table A-9 for non-residential land uses

²⁾ Net impact cost per functional resident from Table III-4 multiplied by the functional resident coefficient (Item 1) for each land use

Public Buildings Impact Fee Schedule Comparison

As part of the work effort in developing the City of Brooksville's public buildings impact fee program, a comparison of the City's calculated public buildings impact fee schedule to fees adopted by other select Florida municipalities was completed. Table III-6 presents this comparison.

Table III-6
Public Buildings Impact Fee Comparison

				-					
Sent in	Renoktalile Calculated ^{III}	Him más Cill III mai	County taisting.	Cape Canavaral (**)	Designation of	Once Descript	Pank?	-Melbourne ^(io)	Fort St. tude ^[11]
	2021	2023	2017	NVA.	1990	2005	2009	III/A	2013
Date of Last Update Assessed Portion of Calculated ⁽¹⁾		N/A	100%	N/A	100%	100%	100%	N/A	100%
	1/4						- il		
du	\$1,168	\$1,200	\$466	5106	5846	5120	\$204	5250	5408
du	59-64	\$8.78	\$352	5106	5846	5308	\$76	\$223	5330
50					2.51		1		
1,000 sf	\$384	\$366	\$168	\$148	\$678	\$160	\$120	576	\$134
1,000 sf	\$784	\$651	\$335	5148	5678	5160	\$150	5187	5192
1,000 sfgta	32,064	\$1,105	\$651	\$148	\$678	\$160	\$150	\$668	\$1.16
1,000 sf	\$1,184	51,091	5651	\$148	\$678	\$160	\$150		\$116
1,000 sf	\$7,817	\$7,137	\$1,012	\$148	\$678	\$160	\$150		\$116
֡	du du 1,000 sf 1,000 sfgla 1,000 sfgla	2021 N/A du \$1,168 du \$944 1,000 sf \$384 1,000 sf \$784 1,000 sf \$1,184	2021 2021 AV/A N/A du \$1,168 \$1,200 du \$944 \$389 1,000 sf \$384 \$366 1,000 sf \$784 \$651 1,000 sf \$1,105 1,000 sf \$1,184 \$1,001	2021 2021 2011 100% N/A N/A 100% du \$1,168 \$1,200 \$466 du \$944 \$383 \$352 1,000 sf \$384 \$366 \$158 \$1,000 sf \$784 \$651 \$335 \$1,000 sf \$1,184 \$1,105 \$651 \$1,000 sf \$1,184 \$1,000 \$651 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1,000 \$1	2021 2021 2011 N/A 84/A N/A 100% N/A du \$1,168 \$1,200 \$466 \$106 du \$944 \$378 \$352 \$106 1,000 sf \$384 \$366 \$168 \$148 1,000 sf \$784 \$551 \$335 \$148 1,000 sf \$1,184 \$1,001 \$651 \$148	2021 2022 2031 N/A 15/0	2921 2022 2031 N/A 1550 2005	2021 2022 2011 N/A 1550 2005 2009 84/A N/A 1006 N/A 1006 100	2921 2022 2011 N/A 1550 2005 2009 N/A

- Represents that portion of the maximum calculated fee for each respective municipality that is actually charged. Fees may have been lowered through indexing or policy discounts. Does not account for moratoriums/suspension.
- 2) Du = dwelling unit
- 3) Source: Table III-5
- 4) Source: Tindale Oliver Hernando County Impact Fee Update Study 2021. Calculated fees represent results of the on-going study and are not yet adopted.
- 5) Source: Hernando County Planning & Development Department
- 6) Source: Cape Canaveral Code of Ordinances, Appendix 8-Schedule of Fees
- 7) Source: Cooper City Code of Ordinances, Chapter 22 Planning and Public Facilities, Article IV. Impact Fees, Sec. 22-65.
- 8) Source: City of Dania Beach Document Center. Fee shown is "administrative" impact fee.
- 9) Source: Town of Davie Planning and Zoning Department. Listed as "General Government" impact fee. Less than 10 units per parcel fee shown as a proxy for multi-family.
- 10) Source: City of Melbourne Code of Ordinances, Part III Land Development Regulations, Chapter 10-Impact Fees, Article III-Public Facilities
- 11) Source: City of Port St. Lucie Building Department. Fee for Residential has a Economic Development without pre-payment component (\$1,821) and a public building component. Only the Public Buildings Component is shown

IV. Parks & Recreation Facilities

This section addresses the analysis used in developing the parks and recreation impact fee. Several elements addressed in the section include:

- Land and Recreation Facilities Inventory
- Service Area and Population
- Level of Service
- Cost Component
- Net Parks and Recreation Facilities Impact Cost
- Calculated Impact Fee Schedule
- Impact Fee Schedule Comparison

These elements are summarized throughout this section.

Land and Recreation Facilities Inventory

According to information provided by the City of Brooksville, the City's land and recreation facilities inventory utilized for impact fee purposes includes 4 parks totaling nearly 174 acres. The inventory excludes park land that is not owned by the City and parks that are operated by another entity and generate revenue. Table IV-1 presents a summary of the inventory included in the parks and recreation facilities impact fee.

Table IV-1 Park Land and Recreation Facility inventory

- Indiana	Classification		Cancerson Stynd (19. (1.)	Basketball		Facquethall (Not Lighted)			Adult Softboll (Lighted)		Gyryasium (sq. 5t.)	.Pavillons	Playground (units)	Public Moeting Rooms	i Seatroois	Troji (Paver
Tant Vem Perk	Begruing	#1.0	553	1	1 1	3		1	3	3.0	6,600	2	1	-	1	1.50
Ressell Street Park	*segfiniment	12.5	1,500									1			1	0.50
Bud McRethan Park	traightaufund	4.5					3					1	1		I.	0.25
Marry Association Enrichment Centre Court	Regional	74.6												1,790	1	4.88
Neghtariand		17.00	0	0	0	0	3		0	0	0	2	1	0	2	0.75
Argunal		156.60	512	2	2	2	9	1	1	3	KAU)	1	1	2.590	2	3.65
Total		173:60	512	2	1	1	3.0	-4	1 7	3	6,660	4	2	2,390	4	4.80

Source: City of Brooksville

Service Area and Demand Component

The City-owned parks are utilized citywide, and therefore, the citywide service area and population are used in the calculation of parks and recreational facilities impact fee. Appendix A, Table A-1, provides the estimated population for 2021 and the projected population through 2045. Parks and recreation impact fees are charged only to residential land uses. As such, the weighted seasonal population per housing unit is used to measure demand from each residential land use, which is presented in Appendix A.

Level of Service

The current LOS for all City-owned and maintained parks is presented in Table IV-2. To determine the current LOS, the total acreage of each park type is divided by the service area population for 2021 and multiplied by 1,000. As shown, the total LOS of 174 acres per 1,000 weighted seasonal residents is utilized in the calculation of the parks and recreation facilities impact fee with the assumption that the City will continue to provide this level of service in the future.

Table IV-2
Current Level of Service (2020)

Park Classification/Variable	2021 Weighted Population ⁽¹⁾	Park Acreage ⁽²⁾	Achieved LOS ⁽³⁾
City of Brooksville	9,246		
Level of Service (Acres per 1,00	O Residents)		
Neighborhood		17.00	1.84
Regional	156.60	16.94	
Total Park Acreage/LOS - All Pa	arks	173.60	18.78

¹⁾ Source: Appendix A, Table A-1

Cost Component

The capital cost associated with parks and recreation facilities consists of two components: the cost of recreational facilities located at each park and the cost of purchasing and developing land for each park. The following paragraphs address recreation facility and park land value estimates.

²⁾ Source: Table IV-1

³⁾ Park acreage (Item 2) divided by population (Item 1), multiplied by 1,000

Recreational Facility Value

To estimate current recreational facility value, multiple sources were reviewed to determine the unit cost of each recreational facility type, including insured values of the facilities, recent cost information obtained for similar facilities from other jurisdictions and input from the City of Brooksville representatives.

As shown in Table IV-3, the total recreational facility value for all parks is \$8.7 million, which equates to an average of \$939 per resident.

Table IV-3
Recreational Facility Cost Per Resident

Cost		
\$50,000		
173.60		
\$8,680,000		
18.78		
\$939.00		

- 1) Source: Appendix B
- 2) Source: Table IV-1
- 3) Recreational facility cost per acre (Item 1) multiplied by total acres (Item 2)
- 4) Source: Table IV-2.
- 5) Recreational facility value per acre (Item 1) multiplied by the achieved LOS (Item 4), divided by 1,000

Land Cost

The land value per acre for the City's park inventory is calculated based on the value of current park land, vacant land sales of similar size parcels over the past four years, value of similar size vacant parcels based on information obtained from the Hernando County Property Appraiser's database, and discussions with the City of Brooksville representatives. This analysis resulted in an estimated average land value of \$10,000 per acre and is presented in Table IV-4. Appendix B provides further detail regarding land value estimates.

The cost of land for parks and recreation facilities includes more than just the purchase cost of the land. Landscaping, site improvement, and irrigation are also considered. These costs can vary greatly, depending on the type of park. The estimated cost for landscaping, site preparation, and irrigation is estimated at \$5,000 per acre.

These land costs are converted to land value per resident using the LOS calculated previously and result in average land value of \$282 per resident.

Table IV-4
Land Cost per Resident

Variable	Cost
Land Purchase Cost per Acre ⁽¹⁾	\$10,000
Landscaping Site Prep., and Irrigation Cost per Acre (2)	\$5,000
Total Land Cost per Acre ⁽³⁾	\$15,000
Total Acres ⁽⁴⁾	173.60
Total Land Value ⁽⁵⁾	\$2,604,000
Achieved LOS (Acres per 1,000 Residents) (6)	18.78
Total Land Cost per Resident ⁽⁷⁾	\$281.70

- 1) Source: City of Brooksville
- 2) Based on estimates provided by other Florida jurisdictions
- 3) Sum of land purchase cost per acre and landscaping, site prep., and irrigation cost per acre (Items 1 and 2)
- 4) Source: Table IV-1
- 5) Total land cost per acre (Item 3) multiplied by total acres (Item 4)
- 6) Source: Table IV-2
- 7) Total land value per acre (Item 3) multiplied by the achieved LOS (Item 6), divided by 1,000

Total Impact Cost per Resident

Table IV-5 presents total parks and recreation facility value per resident. As presented, the total park land and recreation facilities value is estimated at \$1,221 per resident, of which \$282 is for land and \$939 is for recreational facilities.

Table IV-5
Total Impact Cost per Resident

TOTAL INCIDENT COST PER TRESIDENT								
Variable	Per Resident	% of Total ⁽⁴⁾						
Per Resident								
Total Land Cost ⁽¹⁾	\$281.70	23%						
Recreational Facility Cost ⁽²⁾	5939.00	<u>77%</u>						
Total Impact Cost ⁽³⁾	\$1,220.70	100%						

- 1) Source: Table IV-4
- 2) Source: Table IV-3
- 3) Sum of land cost and recreational facility cost per resident (Items 1 and 2)
- 4) Distribution of total impact cost

Credit Component

To avoid overcharging new development, a review of the capital funding allocation for park land and recreational facilities is completed. The purpose of this review is to determine any potential revenues generated by future development that is likely to be used for additional land and recreational facility expansion projects. Revenue credits are then applied against the total impact cost per resident so that new development is not charged twice for capital revenue contributions used to expand parks and recreational facilities. This review indicated that the City does not have any alternative funding sources identified for parks and recreational facility capacity projects and will rely primarily on impact fee revenues for these improvements. However, a 10-percent credit is included in the calculations to provide the City with the flexibility to use some level of alternative funding if needed. The resulting credit is \$122 per resident. If, in the future, the City starts allocating a larger amount of non-impact fee funding toward these facilities, the credit calculations should be revised.

Net Parks & Recreation Facilities Impact Cost

The net impact cost per resident is the difference between the cost and credit components. Table IV-6 summarizes the calculation of the net impact cost for the parks and recreational facilities impact fee. As presented, the net impact cost amounts to approximately \$1,099 per resident.

Table IV-6
Total Impact Cost per Resident

Variable	Impact Cost	Revenue Credits
Impact Cost		
Total Impact Cost per Resident ⁽¹⁾	\$1,220.70	_
Revenue Credit		
Credit Percentage ⁽²⁾	_	10%
Credit Amount ⁽³⁾	-	\$122.07
Net Impact Cost		
Net Impact Cost per Functional Resident (4)	\$1,098.63	

- 1) Source: Table IV-5
- An estimated 10% credit is provided to give the City the flexibility to use other revenue sources.
- 3) Revenue credit percentage (Item 2) multiplied by total impact cost per functional resident (Item 1)
- Total impact cost per functional resident (Item 1) less total revenue credit per functional resident (Item 3)

Calculated Parks & Recreation Facilities Impact Fee Schedule

Table IV-7 presents the calculated parks and recreation facilities impact fee schedule for the City of Brooksville for residential land uses, based on the net impact cost per resident previously presented in Table IV-6.

Table IV-7
Calculated Parks and Recreation Facilities Impact Fee Schedule

(TE LUC	Residential Land Use Impact Unit		Residents per Unit ⁽¹⁾	Calculated Impact Fee ⁽²⁾	
Residential:	الروان المراز المسترية الأمر				
210	Single Family (detached)	du	2.05	\$2,252	
220/221/222	Multi-Family	du	1.66	\$1,824	
240	Mobile Home	du	1.44	\$1,582	
251	Senior Housing (Detached)	du	1.57	\$1,725	
252	Senior Housing (Attached)	đu	1.27	\$1,395	

¹⁾ Source: Appendix A, Table A-2

²⁾ Residential per unit (Item 1) multiplied by the net impact cost per resident from Table IV-6

Parks & Recreation Facilities Impact Fee Schedule Comparison

As part of the work effort in updating the City of Brooksville's parks and recreation impact fee schedule, the City's calculated impact fee schedule was compared to the adopted fee schedules of select Florida municipalities. Table IV-8 presents this comparison

Table IV-8
Impact Fee Schedule Comparison

(Xemestee)	engo	finishedie Colomos	Hemande Calculated ²		Graveland ^(e)	Inverness ⁽²⁾	Lake Alfred ^(a)	Lokeland 19	(female)	Omnid:	Mascalle ⁽ⁱⁿ⁾	Misaecia ⁽¹³⁾	Mdunt Dem ^(is)	Plant City (12)	Tavares ⁽¹⁶⁾
trate of Last Vipilian		2021	3021	2012	2017	N/A	2018	2015	2004	2008	2017	N/A	H/A	2003	2006
Assessed Furtion of Calcul	ated ¹⁰	N/A	19/A	100%	1004	N/A	100%	100%	100%	65%	1004	H/A	H/A	100%	100%
Resistantial:															
Single Family (2,000:42)	da	\$2,254	5491	3/11	11,476	1380	51.510	51,332	5110	5-151	5571	5+10	52,815	3587	1440
Multi-Family (1,300 sf)	du	\$1,521	\$250	5311	\$1 76	\$270	31,510	52,481	\$110	51,151	\$571	307	\$1,412	\$582	\$330
Mobile Home (1,300 41)	du	\$1,562	\$375	\$411	11,476	\$260	\$1,330	\$1,173	\$310	\$2,111	\$573	\$410	\$2,815	\$465	\$222

- 1) Represents the portion of the maximum calculated fee for each respective municipality that is actually charged. Fee may have been lowered/increased through annual indexing or policy discounts. Does not account for moratorium/suspensions.
- 2) du = dwelling unit
- 3) Source: Table IV-7
- 4) Source: Tindale Oliver Hernando County Impact Fee Update Study 2021. Fees represent the results of the on-going study and are not yet adopted.
- 5) Source: Hernando County Planning & Development Department
- 6) Source: City of Groveland Ordinance 2019-50
- 7) Source: City of Inverness Code of Ordinances, Florida, Chapter 11.5-Impact fees
- 8) Source: City of Lake Alfred, Florida Notice of Increase of Police, Fire, Parks and Recreation, and Public Facilities
- 9) Source: City of Lakeland Community and Economic Development
- 10) Source: City of Leesburg Code of Ordinances, Part 2 Code of Ordinances, Chapter 7-Building and Building Regulations, Article XII. Municipal Services Impact Fees, Sec. 7-253.- Schedule of Impact Fees
- 11) Source: City of Maitland Code of Ordinances, Chapter 11-Parks, Recreation, and Boating, Article III-Parks and Recreation Impact Fee
- 12) Source: City of Mascotte Service Fees
- 13) Source: City of Minneola Code of Ordinances, Florida, Subpart A-General Ordinances, Chapter 42 Impact Fees, Article VI-Parks and Recreation Impact Fees
- 14) Source: City of Mount Dora Fee Schedule for Building and Planning
- 15) Source: Plant City Code of Ordinances, Chapter 86-Impact Fees, Article V.-Parks and Recreation
- 16) Source: City of Tavares Document Center, Permitting & Impact Fees

V. Multi-Modal Transportation

This section summarizes the analysis used to update the City of Brookville's multi-modal transportation impact fee schedule and includes the following subsections:

- Demand Component
- Cost Component
- Credit Component
- Calculated Multi-Modal Transportation Impact Fee
- Multi-Modal Transportation Impact Fee Comparison

The transportation impact fee calculations are based primarily on the Hernando County Road impact Fee Update Study prepared in 2020; however, the roadway-based fee was converted to a multi-modal fee to provide the City with the flexibility to use revenues on stand-alone sidewalks, bicycle lanes and transit amenities. The travel handled by the City's classified roadway network was calculated to determine the portion of the fees the City can retain. It is recommended that the City discusses the study results with the County to ensure that City/County combined fee does not exceed the maximum transportation impact fee and new growth is not overcharged.

As in the case of the other impact fee program areas, the methodology used for the multi-modal study follows a consumption-based approach in which new development is charged based upon the proportion of person-miles of travel (PMT) that each unit of new development is expected to consume of the transportation network.

Included in this section is the necessary support material used in the calculation of the multi-modal fee. The general equation used to compute the multi-modal fee for a given land use is:

[Demand x Cost] - Credit = Fee

The "demand" for travel placed on a transportation system is expressed in units of Person-Miles of Travel (PMT) (daily vehicle-trip generation rate x the trip length (in miles) x the percent new trips [of total trips] x person-trip factor) for each land use contained in the impact fee schedule. Trip generation represents the average daily rates to provide a stable measure of new development's impact. The number of trips tends to vary significantly throughout the day by time of day depending on activity levels; however, overall daily trips tend to be stable.

The "cost" of building new capacity typically is expressed in units of dollars per person-mile of transportation capacity and is based on recent transportation costs for city, county and state facilities.

The "credit" is an estimate of future non-impact fee revenues generated by new development that are allocated to provide transportation capacity expansion. The impact fee is considered to be an "up front" payment for a portion of the cost of a lane-mile of capacity that is directly related to the amount of capacity consumed by each unit of land use contained in the impact fee schedule, that is not paid for by future tax revenues generated by the new development activity over the next 25 years. These credits are required under the supporting case law for the calculation of impact fees where a new development activity must be reasonably assured that they are not paying, or being charged, twice for the same level of service.

The input variables used in the fee equation are as follows:

Demand Component

Travel Demand

Travel demand is the amount of a transportation system consumed by a unit of new land development activity. Demand is calculated using the following variables and is measured in terms of the vehicle-miles of new travel (VMT) a unit of development consumes on the existing transportation system.

- Number of daily trips generated (Trip Generation Rate = TGR)
- Average length of those trips (Trip Length = TL)
- Proportion of travel that is new travel, rather than travel that is already traveling on the road system and is captured by new development (Percent New Trips = PNT)
- Interstate/toll facility adjustment factor
- Vehicle-trip to person-trip factor

As part of this update, the trip characteristics variables were obtained primarily from two sources: (1) trip characteristics studies previously conducted throughout Florida (Florida Studies Database), and (2) the Institute of Transportation Engineers' (ITE) *Trip Generation Handbook* (11th edition). The Florida Studies Database (included in Appendix C) was used to determine trip length, percent new trips, and the trip generation rate for several land uses.

Interstate & Toll Facility Adjustment Factor

This variable is used to recognize that interstate highway and toll facility improvements are funded by the State (specifically, the Florida Department of Transportation) using earmarked State and Federal funds. Typically, transportation impact fees are not used to pay for these improvements and the portion of travel occurring on the interstate/toll facility system is usually excluded from the total travel for each use.

To calculate the interstate and toll (I/T) facility adjustment factor, the loaded highway network file was generated using the Tampa Bay Regional Planning Model (TBRPM v8.2a). A select zone analysis was run for all traffic analysis zones located within Hernando County in order to differentiate trips with an origin and/or destination within the county versus trips that simply passed through the county.

The analysis reviewed trips on all interstate and toll facilities within Hernando County, Including, Interstate 75 and the Suncoast Parkway. The limited access vehicle-miles of travel (Limited Access VMT) for county-generated trips with an origin and/or destination within county was calculated for the identified limited access facilities. Next, the total VMT was calculated for all county-generated trips with an origin and/or destination within Hernando County for all roads, including limited access facilities.

The I/T adjustment factor of 8.1 percent was determined by dividing the total limited access VMT by the total countywide VMT. Total county VMT reduced by this factor is representative of only the roadways that are eligible to be funded with roads impact fee revenues. Appendix C, Table C-1 provides further detail on this calculation.

Conversion of Vehicle-Trips to Person-Trips

In the case of the multi-modal fee, it is necessary to estimate travel in units of person-miles. Vehicle-trips were converted to person-trips by applying a vehicle-trip to person-trip conversion factor of 1.40. This value was derived from a review of the TBRPM v8.2. Given that a large portion of travel occurs via automobile, this approach is found to be reasonable.

City Portion Adjustment Factor

As previously mentioned, the impact fee calculations reflect the costs associated with all roads (city, county, state) within the city. Using the TPRPM model data, a city adjustment factor was developed to identify the percentage of travel that occurs on the city's classified roads. The city portion adjustment factor of 17 percent was determined by dividing the VMT on city roads by the total city VMT. This figure is applied to the calculated multi-modal transportation impact fee

to determine the city's portion of the total fee. Additional information is included in Appendix C, Table C-2.

Cost Component

County Roadway Cost

This section examines the right-of-way (ROW), construction, and other cost components associated with county roads with respect to roadway capacity expansion improvements in Hernando County. In addition to local data, bid data for recently completed/ongoing projects throughout Florida were used to supplement the cost data for county roadway improvements. The cost for each roadway capacity project was separated into four components: design, right-of-way (ROW), construction, and construction engineering/inspection (CEI).

Design and CEI

Design costs for county roads were estimated at **11 percent** of construction phase costs based on a review of recent roads/transportation impact fee studies throughout Florida. Additional detail is provided in Appendix D, Table D-2.

CEI costs for county roads were estimated at nine (9) percent of construction phase costs based on a review of recent roads/transportation impact fee studies throughout Florida. Additional detail is provided in Appendix D, Table D-8.

Right-of-Way

The ROW cost reflects the total cost of the acquisitions along a corridor that were necessary to have sufficient cross-section width to widen an existing road or, in the case of new construction, to build a new road. Due to limited recent local acquisition data, this factor was determined through a review of the ROW-to-construction cost ratios for county road unit costs in previously completed impact fee studies throughout Florida. For county roadways, the ROW factors ranged from 32 percent to 60 percent with an average of 42 percent. For purposes of this update study and based on discussions with County representatives, the ROW cost for county roads is estimated at 40 percent of the construction cost per lane mile. Additional detail is provided in Appendix D, Table D-3.

Construction

The construction cost for county roads was based on recently bid projects and future estimates in Hernando County and in other communities in Florida. A review of construction cost of improvements in Hernando County since 2013 identified two capacity expansion projects:

- Cortez Blvd Frontage Rd @ I-75
- Barclay Avenue from San Antonio Road to Powell Rd/Elgin Blvd

The Cortez Blvd improvement features a curb & gutter design with a construction cost of \$1.67 million per lane mile, which is reflective of lower costs associated with frontage roads. The Barclay Avenue project features an open drainage design with a construction cost estimate of \$2.73 million per lane mile.

Curb & Gutter Design

In addition to the Cortez Blvd project in Hernando County, recent improvements from other suburban/rural counties throughout Florida were reviewed to increase the sample size. This review included over 98 lane miles of lane addition and new road construction improvements with a weighted average cost of approximately \$2.80 million per lane mile. Additional data is provided in Appendix D, Table D-4.

Based on a review of these data sets and discussions with County representatives, construction cost is estimated at \$2.80 million per lane mile for curb & gutter county road improvements.

Open Drainage Design

Due to the small sample of open drainage capacity projects, the cost per lane mile for county roads with open drainage-design characteristics was calculated based on the relationship between curb & gutter and open drainage roadway costs from the FDOT District 7 Long Range Estimates (LRE). Based on these cost estimates, the costs for roadways with open drainage-design characteristics were estimated at approximately 76 percent of the costs for roadways with curb & gutter-design characteristics. Additional detail is provided in Appendix D, Tables D-1 and D-5.

To determine the weighted average cost for county roadways, the cost for curb & gutter and open drainage roadways were weighted based on the distribution of Hernando County roadways included in the Hernando-Citrus MPO's 2045 Long Range Transportation Plan's (LRTP) Cost Feasible Plan. As shown in Table V-1, the weighted average county roadway construction cost was calculated at approximately \$2.16 million per lane mile, with a total weighted average cost of \$3.46 million per lane mile for county roadways.

Table V-1
Estimated Total Cost per Lane Mile for County Roads

		Cost per Lane Mile	
Cost Phase	Curb & Gutter	Open Drainage ⁽⁵⁾	Weighted Average ⁽⁶⁾
Design ⁽¹⁾	\$308,000	\$234,000	\$238,000
Right-of-Way ⁽²⁾	\$1,120,000	\$851,000	\$864,000
Construction (3)	\$2,800,000	\$2,128,000	\$2,162,000
CEI ⁽⁴⁾	\$252,000	\$192,000	\$195.000
Total Cost	\$4,480,000	\$3,405,000	\$3,459,000
Lane Mile Distribution ⁽⁷⁾	5%	95%	100%

- 1) Design is estimated at 11% of construction costs
- 2) Right-of-Way is estimated at 40% of construction costs
- 3) Source: Appendix D, Table D-4
- 4) CEI is estimated at 9% of construction costs
- 5) Open drainage costs are estimated at 76% of the curb & gutter costs
- 6) Lane mile distribution (Item 7) multiplied by the design, right-of-way, construction, and CEI phase costs by jurisdiction to develop a weighted average cost per lane mile
- 7) Source: Appendix D, Table D-9; Items (c) and (d)

Note: All figures rounded to nearest \$000

State Roadway Cost

This section examines the right-of-way (ROW), construction, and other cost components associated with state roads and other roadways built by FDOT with respect to roadway capacity expansion improvements in Hernando County. In addition to local data, bid data for recently completed/ongoing roadway projects and recent roadway construction bid data throughout Florida were used to supplement the cost data for state roadway improvements. The cost for each roadway capacity project was separated into four components: design, right-of-way (ROW), construction, and construction engineering/inspection (CEI).

Design and CEI

Design costs for state roads were estimated at 11 percent of construction phase costs based on a review of recent roads/transportation impact fee studies throughout Florida. Additional detail is provided in Appendix D, Table D-2.

CEI costs for state roads were estimated at 11 percent of construction phase costs based on a review of recent roads/transportation impact fee studies throughout Florida. Additional detail is provided in Appendix D, Table D-8.

Right-of-Way

The ROW cost factor for state roads was estimated as a percentage of the construction cost per lane mile. Due to limited recent local acquisition data, this factor was determined through a review of the ROW-to-construction cost ratios for state road unit costs in previously completed impact fee studies throughout Florida. For state roadways, the ROW factors ranged from 32 percent to 60 percent with an average of 43 percent. For purposes of this update study, the ROW cost for state roads was estimated at 40 percent of the construction cost per lane mile. Additional detail is provided in Appendix D, Table D-3.

Construction

The construction cost for state roads (and other roadways built by FDOT) was based on recently bid projects in Hernando County and in other communities in Florida. A review of construction cost data for improvements in Hernando County since 2013 identified three capacity expansion projects:

- SR 50 from Windmere Road to E. of US 301 (curb & gutter/open drainage)
- CR 578 (County Line Road) from Suncoast Pkwy to US 41 @ Ayers Road (curb & gutter)
- CR 578 (County Line Road) from Springtime St to E. of Mariner Blvd (open drainage)

The SR 50 improvement includes a mlx of curb & gutter/open drainage design with a construction cost of \$4.71 million per lane mile, while the CR 578 project (Suncoast to Ayers) features a curb & gutter design with a construction cost of \$3.38 million per lane mile. Combined, the curb & gutter improvements result in a weighted average construction cost of \$4.25 million per lane mile. The CR 578 project (Springtime to Mariner) has an open drainage design on a very short roadway segment, resulting in a construction cost of \$6.28 million per lane mile.

Curb & Gutter Design

In addition to the local projects, recent improvements from other suburban/rural counties throughout Florida were reviewed to increase the sample size. This review included approximately 247 lane miles of lane addition and new road construction improvements with a weighted average cost of approximately \$3.97 million per lane mile. Additional data is provided in Appendix D, Table D-6.

Based on a review of these data sets and discussions with County representatives, a construction cost of \$4.20 million per lane mile was used in the impact fee calculation for curb & gutter state road improvements. This estimate reflects local costs in Hernando County along with inclusion of certain amenities, such as shared-use paths, etc.

Open Drainage Design

Due to the small sample of open drainage improvements, the cost per lane mile for state roads with rural-design characteristics (open drainage) was calculated based on the relationship between urban and rural roadway costs from the FDOT District 7 Long Range Estimates (LRE). Based on these cost estimates, the costs for roadways with rural-design characteristics were estimated at approximately 76 percent of the costs for roadways with urban-design characteristics. Additional detail is provided in Appendix D, Tables D-1 and D-7.

To determine the weighted average cost for state roadways, the cost for curb & gutter and open drainage roadways were weighted based on the distribution of Hernando County roadways included in the Hernando-Citrus MPO's 2045 LRTP's Cost Feasible Plan. As shown in Table V-2, the weighted average state roadway construction cost was calculated at approximately \$3.24 million per lane mile, with a total weighted average cost of \$5.25 million per lane mile for state roadways.

Table V-2
Estimated Total Cost per Lane Mile for State Roads

	Cost per Lane Mile							
Cost Phase	Curb & Gutter	Open Drainage ⁽⁵⁾	Weighted Average ⁽⁶⁾					
Design ⁽¹⁾	\$462,000	\$351,000	\$357,000					
Right-of-Way ⁽²⁾	\$1,680,000	\$1,277,000	\$1,297,000					
Construction ⁽³⁾	\$4,200,000	\$3,192,000	\$3,242,000					
CEI ⁽⁴⁾	\$462,000	\$351,000	<u>\$357,000</u>					
Total Cost	\$6,804,000	\$5,171,000	\$5,253,000					
Lane Mile Distribution ⁽⁷⁾	5%	95%	100%					

- 1) Design is estimated at 11% of construction costs
- 2) Right-of-Way is estimated at 40% of construction costs
- 3) Source: Appendix D, Table D-6
- 4) CEI is estimated at 11% of construction costs
- 5) Open drainage costs are estimated at 74% of the curb & gutter costs
- 6) Lane mile distribution (Item 7) multiplied by the design, right-of-way, construction, and CEI phase costs by jurisdiction to develop a weighted average cost per lane mile
- 7) Source: Appendix D, Table D-9; Items (c) and (d) Note: All figures rounded to nearest \$000.

Summary of Costs (Blended Cost Analysis)

The weighted average cost per lane mile for county and state roads is presented in Table 3. The resulting weighted average cost of approximately \$4.05 million per lane mile was utilized as the roadway cost input in the calculation of the roads impact fee rates. The weighted average cost

per lane-mile includes county and state roads and is based on the lane miles distribution of the LRTP's Cost Feasible Plan (Appendix D, Table D-9).

It should be noted that the cost estimates developed for this impact fee study reflect a large sample size from several communities over the past seven years. When compared to the smaller sample of improvements observed over the last two to three years, the data and estimates used in this study represent a conservative approach. Additionally, these estimates account for Hernando County's suburban/rural nature, which tends to moderate roadway costs compared to some of the larger, more urbanized counties that are experiencing higher construction and land acquisition costs.

Table V-3
Estimated Cost per Lane Mile for County and State Roadway Projects

Cost Phase	County Roads ⁽¹⁾	State Roads ⁽²⁾	County and State Roads ⁽³⁾
Design	\$238,000	\$357,000	\$277,000
Right-of-Way	\$864,000	\$1,297,000	\$1,007,000
Construction	\$2,162,000	\$3,242,000	\$2,518,000
CEI	\$195,000	<u>\$357,000</u>	<u>\$248,000</u>
Total Cost	\$3,459,000	\$5,253,000	\$4,050,000
Lane Mile Distribution (4)	67%	33%	100%

Source: Table V-1
 Source: Table V-2

Person-Miles of Capacity Added per Lane Mile

An additional component of the roads impact fee equation is the capacity added per lane-mile of roadway constructed. The VMC is an estimate of capacity added per lane mile, for county, developer, and state roadway improvements in the Hernando-Citrus MPO's 2045 LRTP (projects in Hernando only). As shown in Table V-4, the VMC was then converted to person-miles of capacity (PMC) using the person-trip factor (1.40 persons per vehicle) previously discussed. Additional detail is provided in Appendix D, Table D-9.

³⁾ Lane mile distribution (item 4) multiplied by the individual component costs for county and state roads and then added together to develop a weighted average cost per lane-mile

⁴⁾ Source: Appendix D, Table D-9

Table V-4
Weighted Average Person-Miles of Capacity per Lane Mile

Road Type	Lane Miles Added ⁽¹⁾	Vehicle-Miles of Capacity Added ⁽²⁾	VMC Added per Lane Mile ⁽³⁾	Vehicle-Trip to Person-Trip Factor ⁽⁴⁾	PMC Added per Lane Mile ⁽⁵⁾
County/Dev. Roads	64.80	729,444	11,257	1.40	15,760
State Roads	31.22	<u>346,721</u>	11,106	1.40	15,548
Total	96.02	1,076,165			
Weighted Average Vi	MC/PMC Added	11,200	1.40	15,680	

- 1) Source: Appendix D, Table D-9
- 2) Source: Appendix D, Table D-9
- 3) Vehicle-miles of capacity added (Item 2) divided by lane miles added (Item 1)
- 4) Source: Based on the Tampa Bay Regional Planning Model
- 5) VMC added per lane mile (Item 3) multiplied by the vehicle-trip to person-trip factor (Item 5)
- 6) Total VMC added (Item 2) divided by total lane miles added (Item 1)

Cost per Person-Mile of Capacity

The transportation cost per unit of development is assessed based on the cost per person-mile of capacity. As shown in Tables V-3 and V-4, the cost and capacity for roadways in Hernando County have been calculated based on recent local and statewide improvements.

The cost per PMC figure is used in the multi-modal impact fee calculation to determine the total cost per unit of development based on person-miles of travel consumed. As shown in Table V-5, for each person-mile of travel that is added to the transportation system, approximately \$258 of capacity is consumed.

Table V-5
Weighted Average Cost per Vehicle-Mile of Capacity Added

Road Type	Cost per Lane Mile ⁽¹⁾	Average PMC Added per Lane Mile ⁽²⁾	Cost per PMC ⁽³⁾
County Roads	\$3,459,000	15,760	\$219.48
State Roads	\$5,253,000	15,548	\$337.86
Total	\$4,050,000	15,680	
Weighted Average	\$258.29		

- Source: Table V-3
 Source: Table V-4
- 3) Average PMC added per lane mile (Item 2) divided by cost per lane mile (Item 1)
- 4) Total person-miles of capacity added for county and state roads (Item 2) divided by the total lanes miles added (Item 1)

Credit Component

Capital Improvement Credit

The credit component of the impact fee accounts for the existing County and State funding sources that are being expended on transportation capacity expansion (excluding impact fee funds). This section summarizes the calculations utilized to develop the credit component to account for non-impact fee revenue contributions. Additional details are provided in Appendix E.

The present value of the average annual non-impact fee funding generated by new development over a 25-year period that is expected to fund capacity expansion projects was credited against the cost of the system consumed by travel associated with new development. To provide a connection to the demand component, which is measured in terms of travel, the non-impact fee dollars were converted to a fuel tax equivalency.

County Credit

A review of the County's recent historical expenditures and the FY 2020-2024 Capital Improvement Plan indicates that the majority of capacity expansion improvements are being funded through local option fuel tax and roads impact fees. As shown in Table V-6, a total gas tax equivalent revenue credit of 0.2 pennies was calculated for the average annual non-impact fee funding of capacity expansion projects.

State Credit

As shown in Table V-6, State expenditures in Hernando County were reviewed and a credit for the capacity-expansion portion attributable to state projects was estimated (excluding expenditures on limited access facilities). This review, which included ten years of historical expenditures, as well as five years of planned expenditures, indicated that FDOT's roadway spending generates a credit of 28.1 pennies of equivalent gas tax revenue, annually. Additional detail is provided in Appendix E, Table E-3.

In summary, Hernando County contributes 0.2 pennies while the State spends an average of 28.1 pennies, annually, for roadway capacity projects in the County. A total credit of 28.3 pennies is expected to be generated by new development from all non-impact fee revenues. These credit figures reflect the most recent available data for roadway expenditures from County and State sources.

Table V-6
Equivalent Pennies of Gas Tax Revenue

Credit	Average Annual Expenditures	Value per Penny ⁽³⁾	Average Annual Equivalent Pennies per Gallon ⁽⁴⁾
County Revenue ⁽¹⁾	\$150,196	\$740,488	\$0.002
State Revenue ⁽²⁾	<u>\$20,810,666</u>	\$740,488	\$0.281
Total	\$20,960,862		\$0.283

- 1) Source: Appendix E, Table E-2
- 2) Source: Appendix E, Table E-3
- 3) Source: Appendix E, Table E-1
- 4) Avg annual expenditures divided by the value per penny (Item 3) divided by 100

Present Worth Variables

Facility Life

The facility life used in the impact fee analysis is 25 years, which represents the reasonable life of a roadway.

Interest Rate

This is the discount rate at which gasoline tax revenues might be bonded. It is used to compute the present value of the gasoline taxes generated by new development. The discount rate of 3.0 percent was used in the impact fee calculation based on estimates provided by Hernando County.

Fuel Efficiency

The fuel efficiency (i.e., the average miles traveled per gallon of fuel consumed) of the fleet of motor vehicles was estimated using the quantity of gasoline consumed annually (over 25 years) by travel associated with a particular land use.

Appendix E, Table E-7 documents the calculation of fuel efficiency value based on the following equation, where "VMT" is vehicle miles of travel and "MPG" is fuel efficiency in terms of miles per gallon.

$$Fuel\ Efficiency = \sum VMT_{Roadway\ Type} \div \sum \left(\frac{VMT_{Vehicle\ Type}}{MPG_{Vehicle\ Type}}\right)_{Roadway\ Type}$$

The methodology uses non-interstate VMT and average fuel efficiency data for passenger vehicles (i.e., passenger cars and other 2-axle, 4-tire vehicles, such as vans, pickups, and SUVs)

and large trucks (i.e., single-unit, 2-axle, 6-tire or more trucks and combination trucks) to calculate the total gallons of fuel used by each of these vehicle types.

The combined total VMT for the vehicle types is then divided by the combined total gallons of fuel consumed to calculate, in effect, a "weighted" fuel efficiency value that reflects the existing fleet mix of traffic on non-interstate roadways. The VMT and average fuel efficiency data were obtained from the most recent Federal Highway Administration's *Highway Statistics 2019*. Based on the calculation completed in Appendix E, Table E-7, the fuel efficiency rate to be used in the updated impact fee equation is 18.97 miles per gallon.

Effective Days per Year

An effective 365 days per year of operation was used for all land uses in the proposed fee. However, this will not be the case for all land uses since some uses operate only on weekdays (e.g., office buildings) and/or only seasonally (e.g., schools). The use of 365 days per year, therefore, provides a conservative estimate, ensuring that non-impact fee contributions are adequately credited against the fee.

Calculated Multi-Modal Transportation Impact Fee

Detailed impact fee calculations for each land use are included in Appendix F, which includes the major land use categories and the impact fees for the individual land uses contained in each of the major categories. For each land use, Appendix F illustrates the following:

- Demand component variables (trip rate, trip length, and percent new trips)
- Total multi-modal impact fee cost
- Annual capital improvement credit
- Present value of the capital improvements credit
- Net multi-modal transportation impact fee rates

For clarification purposes, it may be useful to walk through the calculation of an impact fee for one of the land use categories. In the following example, the net impact fee is calculated for the Single Family (detached) land use category using information from the impact fee schedules included in Appendix F. For each land use category, the following equations are utilized to calculate the net impact fee:

Net Impact Fee = Total Impact Cost - Capital Improvement Credit

Where:

Total Impact Cost = ([Trip Rate × Assessable Trip Length × % New Trips] /2) × (1 ~ Interstate/Toll Facility Adjustment Factor) × (Person-Trip Factor) × (Cost per Person-Mile of Capacity)

Capital Improvement Credit = Present Value (Annual Capital Improvement Credit), given 3.00% interest rate & a 25-year facility life

Annual Capital Improvement Credit = ([Trip Rate × Total Trip Length × % New Trips] / 2) × (Effective Days per Year × \$/Gallon to Capital) / Fuel Efficiency

Each of the inputs has been discussed previously in this document; however, for purposes of this example, brief definitions for each input are provided in the following paragraphs, along with the actual inputs used in the calculation of the fee for the single family (detached) land use category:

- Trip Rate = the average daily trip generation rate, in vehicle-trips/day (7.81)
- Assessable Trip Length = the average trip length on collector roads or above, for the category, in vehicle-miles (6.62)
- Total Trip Length = the assessable trip length plus an adjustment factor of half a mile, which is added to the trip length to account for the fact that gas taxes are collected for travel on all roads including local roads (6.62 + 0.50 = 7.12)
- % New Trips = adjustment factor to account for trips that are already on the roadway (100%)
- Divide by 2 = the total daily miles of travel generated by a particular category (i.e., rate*length*% new trips) is divided by two to prevent the double-counting of travel generated between two land use codes since every trip has an origin and a destination
- Interstate/Toll Facility Adjustment Factor = adjustment factor to account for travel demand occurring on interstate highways and/or toll facilities (8.1%)
- Person-Trip Factor = Converts vehicle-miles of travel to person-miles of travel (1.40)
- Cost per Lane Mile = unit cost to construct one lane mile of roadway, in \$/lane-mile (\$4,050,000)
- Average Capacity Added per Lane Mile = represents the average number of persons on one travel lane at capacity for one lane mile of roadway, in vehicles/lane-mile/day (15,680)
- Cost per Person-Mile of Capacity = unit of vehicle-miles of capacity consumed per unit of development. Cost per vehicle-mile divided by average capacity added per lane mile

- Present Value = calculation of the present value of a uniform series of cash flows, gas tax
 payments in this case, given an interest rate, "i," and a number of periods, "n;" for 3.00%
 interest and a 25-year facility life, the uniform series present worth factor is 17.4131
- Effective Days per Year = 365 days
- \$/Gallon to Capital = the amount of equivalent gas tax revenue per gallon of fuel that is used for capital improvements, in \$/gallon (\$0.283)
- Fuel Efficiency = average fuel efficiency of vehicles, in vehicle-miles/gallon (18.97)
- Percent Travel on City's Classified Roads = 17%

Multi-Modal Transportation Impact Fee Calculation

Using these inputs, a net impact fee can be calculated for the Single Family (detached) land use category as follows:

Single Family (detached) Multi-Modal Transportation Impact Fee Rate (Table F-1):

```
Total Impact Cost = ([7.81 * 6.62 * 1.0] /2) * (1 - 0.081) * (1.40) * ($4,050,000 /15,680) = $8,591

Annual Cap. Improv. Credit = ([7.81 * 7.12 * 1.0] /2) * 365 * ($0.283 /18.97) = $151

Capital Improvement Credit = $151 * 17.4131 = $2,629

Net Multi-Modal Transportation Impact Fee = $8,591 - $2,629 = $5,962

City of Brooksville Portion = $5,962 * 17% = $1,014
```

A summary of calculated impact fee rates for all land uses is presented in Appendix F, Table F-1.

Transportation Impact Fee Schedule Comparison

As part of the work effort in developing Brooksville's MMTIF, a comparison of calculated fees to roads/transportation impact fee schedules adopted in other jurisdictions was completed, as shown in Table V-7.

Note that differences in fee levels for a given land use can be caused by several factors, including the year of the technical study, adoption percentage, study methodology including variation in costs, credits, and travel demand, land use categories included in the fee schedule, etc.

Table V-7

				Tram.	sportation III	upact Fee	Comparison							
(Umillie)	6609	City of Brooksville .(Catculated) ⁽³⁾	City of Inversess ⁽²⁾	City	of Maldand ⁽⁵⁾ There 18.2	Dep3	City of Melbourno ⁽²⁾ -	Zone 1	Zone	Zone 3	Zone 4	Gine 1	City of Part St. Lucid ¹⁹	City of Labeland ¹⁹
Seed of cast reprints		2021	200.4	2000	2016	3016	W/N	201E	2010	2010	2010	7010	2017/79	30111
Asserted Partise of Celebrated		100%	50%	n/e	19/4	58	n/e	100	100%	100%	prime.	100%	100%	30-75%
(Frairymin)														
Single Ferrity Detached (T.SCE su ft)	dy	71,014	\$1,000	11,174	14.00	52,000	\$3,047	33,550	#1,186	52,464	11,472	140	\$5,300	9.1%
Man-Pytitlendal)														
(Jant Industrial	1,000 sf	5447	\$651	1702	1795	\$935	\$ 187	\$289	\$327	S3Ft	\$280	\$120	51,110	\$604
Office (WACOO as ft)	1.00 sf	\$200	52,010	11,798	\$2,000	51,395	54,313	31,331	31309	\$1,721	\$1,212	1052	11,770	
Retail 125 coll se ft	3,000 sf	31,393	\$1,400	50.091	11.759	54,775	\$3,689	\$1,313	111139	52.000	\$1,375	5673	57,815	W-096
Bank - Ive-in	1.00 sf	33,374	\$1,405	54.299	57.136	58,318	114.112	\$1.671	\$1875	52.296	\$1,575	5678	\$8,538	16,0%
Fast Food will rive-Thru	1,000 sf	\$12,751	\$1,405	\$11.86	\$16,849	514 412	\$25,034	33,403	11115	\$4,397	11,101	\$1.410		\$46,934

- fast food will five-Thru 1,000 of \$12,ms \$ 5.05 \$16,849 \$1.12 \$25,054 1.41 1.15 \$4,357 1.10 \$1.10 \$4.1

City of Brooksville Impact Fee Study

Table V-7 (continued)

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	0.7000	0.000			100		-33	EAST I			
du	53,010	\$1,790	54.220	\$4,815	55.885	54,170	\$5,00	32,300	32,666	\$1.000	\$1,70
		11.0001		111111111111111111111111111111111111111				200	1111		
1,600	5447	\$806	\$2,798	\$556	55	551	50	\$835	\$1,204	\$4.33	\$1,72
1,600 if	\$550	\$1,312	35,511	\$1,435	50	9.0	30	\$2,256	83,347	\$935	\$2,53
1:000:1	31,212	\$1,11.7	11,713	\$1,294	13.001	77,251	\$8,814	\$3,536	11.774	11,091	\$1.56
1.0001	\$1,176	54.257	513,476	51,204	\$11.730	\$14394	11534	55.544	55.805	17,589	53851
1,000	\$12,793	117,397	\$80,061	\$1,204	\$40,950	\$46,712	956,576	58,530	\$28,394	57,589	\$20,53
	du 1,400 sf 3,500 sf 1,000 sf 1,000 sf	du 51,030 d 1447 1,000 d 21,178	the state of the s	Company Comp	the transfer of the transfer o	Column C	Carrier Carr	Column C	Company Comp	Company Comp	

- | Past Food with = Thria | 1.000 of \$11.711 | \$12.997 | \$10.001 | \$40.980 | \$40.980 | \$46.712 | \$15.711 | \$15.994 | \$7,999 | \$20.937 |
 | Represent that portion of the maximum esticulated fee for each respective county that is actually charged. Fees they have been lowered through building or policy directors. Does not account for marchines shapened on the selection of the select
- read system.

 19 Source: Number County Impact Fee Divisions

 30 Source: Number County Impact Fee Divisions

 30 Source: Number County Impact Fee Divisions

 31 Source: Number County Impact Fee Divisions

 32 Source: Number County Impact Fee Divisions

 33 Source: Number County Impact Fee Divisions

 34 Source: Number County Impact Fee Divisions

 35 Source: Number County Impact Fee Divisions

 36 Source: Number County Impact Fee Stably, the "Convenience retail" safe is shearn for bank w/divive thru and fast food w/divive thru. CENTRAL rates also apply to the NORTH CENTRAL district, and SOUTH rates also apply to the NORTHEAST/VERINA district.

Appendix A Demand Component -- Population: Supplemental Information

Appendix A: Population

Except for the transportation impact fee, all impact fee programs included in this report require the use of population data in calculating current levels of service, performance standards, and demand and credit calculations. With this in mind, a consistent approach to developing population estimates and projections is an important component of the data compilation process. To accurately determine demand for services, not only the residents, or permanent population of the City, but also the seasonal residents and visitors were considered. Seasonal residents include visitors and part-time residents, which are defined as living in the City of Brooksville for less than six months each year. Therefore, for purposes of calculating future demand for capital facilities for each impact fee program area, the weighted seasonal population will be used in all population estimates and projections. References to population contained in this report pertain to the weighted seasonal population, unless otherwise noted.

Table A-1 presents the weighed seasonal population trends. The projections indicate that the current weighted seasonal population of the City is approximately 9,200 and is estimated to increase to 11,300 (increase of 2,100) by 2045.

Table A-1
Weighted Seasonal Population Trends and Projections

Year	City of
16.00	Brooksville ⁽¹⁾
2000	7,512
2001	7,523
2002	7,564
2003	7,631
2004	7,676
2005	7,733
2006	7,814
2007	7,837
2008	8,208
2009	8,221
2010	7,934
2011	7,926
2012	7,916
2013	7,856
2014	7,901
2015	7,997
2016	8,228
2017	8,299
2018	8,644
2019	8,902
2020	9,137
2021	9,246
2022	9,355
2023	9,466
2024	9,579
2025	9,694
2026	9,801
2027	9,912
2028	10,023
2029	10,136
2030	10,251
2031	10,336
2032	10,422
2033	10,509
2034	10,596
2035	10,687
2036	10,756
2037	10,825
2038	10,897
2039	10,968
2040	11,039
2041	11,100
2042	11,160
2043	11,222
2044	11,284
2045	11,346
	,_,_

Source: Appendix A, Table A-10

Apportionment of Demand by Residential Unit Type and Size

Table A-2 presents the population per housing unit (PPH) for the residential categories. This analysis includes all housing units, both occupied and vacant.

Table A-2
Population per Housing Unit by Housing Type (2019)

Housing Type	Population ⁽¹⁾	Housing Units ⁽²⁾	Population / Housing Units ⁽³⁾
Single Family (detached)	3,683	1,795	2.05
Multi-Family	2,396	1,446	1.66
Mobile Home	1,952	<u>1,355</u>	1.44
Total/Weighted Average	8,031	4,596	1.75
Senior Housing (Detached) ⁽⁴⁾	2,816	1,795	1.57
Senior Housing (Attached) ⁽⁵⁾	1,832	1,446	1.27
Congregate Care Facility/Continuing Care Retirement Center (6)	4,648	3,241	1.43

- 1) Source: 2019 American Community Survey (ACS); 5-Yr. Estimates, Table B25033, adjusted for seasonal population
- 2) Source: 2019 American Community Survey (ACS); 5-Yr. Estimates, Table DP04
- 3) Population (Item 1) divided by housing units (Item 2)
- 4) Estimate for Senior Housing (Detached) is based on people per household figures for single family homes, adjusted for the residents over 55 years of age based on information obtained from the 2017 National Household Travel Survey, prepared by the US Department of Transportation.
- 5) Estimate for Senior Housing (Attached) is based on people per household figures for multi-family homes, adjusted for the residents over 55 years of age based on information obtained from the 2017 National Household Travel Survey, prepared by the US Department of Transportation.
- 6) Estimate for congregate care facility is based on people per household figures for single and multi-family homes, adjusted for the residents over 55 years of age based on information obtained from the 2017 National Household Travel Survey, prepared by the US Department of Transportation Note: Excludes boats, RVs, vans, etc.

Functional Population

Functional population, as used in the impact fee analysis, is a generally accepted methodology for several impact fee areas and is based on the assumption that demand for certain facilities is generally proportional to the presence of people at a land use, including residents, employees, and visitors. It is not enough to simply add resident population to the number of employees, since the service demand characteristics can vary considerably by type of industry.

Functional population is the equivalent number of people occupying space within a community on a 24-hour-day, 7-days-a-week basis. A person living and working in the community will have the functional population coefficient of 1.0. A person living in the community but working elsewhere may spend only 16 hours per day in the community on weekdays and 24 hours per day on weekends for a functional population coefficient of 0.76 (128-hour presence divided by 168 hours in one week). A person commuting into the city to work five days per week would have a functional population coefficient of 0.30 (50-hour presence divided by 168 hours in one week). Similarly, a person traveling into the community to shop at stores, perhaps averaging 8 hours per week, would have a functional population coefficient of 0.05.

Functional population thus tries to capture the presence of all people within the community, whether residents, workers, or visitors, to arrive at a total estimate of effective population needed to be served.

This form of adjusting population to help measure real facility needs replaces the population approach of merely weighting residents two-thirds and workers one-third (Nelson and Nicholas 1992)¹. By estimating the functional and weighted population per unit of land use across all major land uses in a community, an estimate of the demand for certain facilities and services in the present and future years can be calculated. The following paragraphs explain how functional population is calculated for residential and non-residential land uses.

Residential Functional Population

Developing the residential component of functional population is simpler than developing the non-residential component. It is generally estimated that people spend one-half to three-fourths of their time at home and the rest of each 24-hour day away from their place of residence. In developing the residential component of the City of Brooksville's functional population, an

¹ Arthur C. Nelson and James C. Nicholas, "Estimating Functional Population for Facility Planning," *Journal of Urban Planning and Development* 118(2): 45-58 (1992)

analysis of the City's population and employment characteristics was conducted. Tables A-3 and A-4 present this analysis for the City. Based on this analysis, the City of Brooksville's residents, on average, spend 17.1 hours each day at their place of residence. This corresponds to approximately 71 percent of each 24-hour day at their place of residence and the other 29 percent away from home.

Table A-3
Population & Employment Characteristics

Calculation Step	Figure
Total workers living in Brooksville ⁽¹⁾	2,525
Total Population (2016) ⁽²⁾	8,006
Total workers as a percent of population(3)	31.5%
School age population (5-17 years) (2016) ⁽⁴⁾	1,083
School age population as a percent of population ⁽⁵⁾	13.5%
Population net of workers and school age population (6)	4,398
Other population as a percent of total population (7)	55.0%

- 1) Source: Census Transportation Planning Package (CTPP), 2016
- 2) Source: 2016 American Community Survey (ACS); 5-Yr. Estimates, Table B01001
- 3) Total workers (Item 1) divided by population (Item 2)
- 4) Source: 2016 American Community Survey (ACS); 5-Yr. Estimates, Table B01001
- 5) Total school age population (Item 4) divided by 2016 population (Item 2)
- 6) Total population (Item 2) less total workers (Item 1) and school age population (Item 4)
- 7) Population net of workers and school age population (Item 6) divided by population (Item 2)

Table A-4
Residential Coefficient for 24-Hour Functional Population

Population Group	Hours at Residence ⁽¹⁾	Percent of Population ⁽²⁾	Effective Hours ⁽³⁾
Workers	13	31.5%	4.1
Students	15	13.5%	2.0
Other	20	55.0%	11.0
Total Hours at Residen	ce ⁽⁴⁾		17.1
Residential Functional	Population Coe	fficient ⁽⁵⁾	71.3%

- 1) Estimated
- 2) Source: Table A-3
- 3) Hours at residence (Item 1) multiplied by the percent of population (Item 2)
- 4) Sum of effective hours (Item 3)
- 5) Sum of effective hours (Item 4) divided by 24

The resulting percentage from Table A-4 is used in the calculation of the residential coefficient for the 24-hour functional population. These actual calculations are presented in Table A-5.

Non-Residential Functional Population

Given the varying characteristics of non-residential land uses, developing the estimates of functional residents for non-residential land uses is more complicated than developing estimated functional residents for residential land uses. Nelson and Nicholas originally introduced a method for estimating functional resident population, which is now widely used in the industry. This method uses trip generation data from the Institute of Transportation Engineers' (ITE) Trip Generation Manual and Benesch's Trip Characteristics Database, information of passengers per vehicle, workers per vehicle, length of time spent at the land use, and other variables.

Specific calculations include:

- Total one-way trips per employee (ITE trips multiplied by 50 percent to avoid double counting entering and exiting trips as two trips).
- Visitors per impact unit based on occupants per vehicle (trips multiplied by occupants per vehicle less employees).
- Worker hours per week per impact unit (such as nine worker-hours per day multiplied by five days in a work week).
- Visitor hours per week per impact unit (visitors multiplied by number of hours per day times relevant days in a week, such as five for offices and seven for retail shopping).
- Functional population coefficients per employee developed by estimating time spent by employees and visitors at each land use.

Table A-5 shows the functional population coefficients for residential and non-residential uses in the City of Brooksville, which are used to estimate the 2021 functional population in Tables A-6.

Table A-5 **General Functional Population Coefficients**

		441141	di i diler	onar r ope	100001	11/01/01/10/02				
Amprovement Category	annue:	harian	Topyger Tempoger ⁽⁾⁾	distriction from per for property	Document (D) Vinne Document (D) Vinne Supplement (D	O III	yeshins per Simpleyes	99 FOW	Statement With the	Remark of the second of the se
Hypitallon									7.00	8.7()
Latural Resources	N/K	9.00	3.10	1.55	1.0)	1.80	01/09	1.00	7.00	6.179
Carstriagen	110	9.00	3.10	159	1.34	138	1.09	1.00	5.00	8.27)
Manufacturing	340	9.00	2.51	1.26	1,23	1.98	0.08	1.00	1.00	6.271
Transportation Communication Utilities	110	5.80	3.10	130	1.11	1.38	10:09	1.00	5:00	6.771
Similarata Trada	130	9.00	3.0	2.53	1.37	1.98	0.15	1.99	5.00	6.272
Renall Trade	820	9.00			1.24	1.73	(3.12	1.50	7.00	1.14
Finance, Insulance, Real Estate	710	9,00	8.30		1.24	1.73	10 R2	1.00	5:00	0.293
Serviceni ^{III}	N/A	9.00	20.3	10.15	1.24	1.73	4.96	1.00	6.00	0.610
Covernment (CE)	730	9.00	7.0	3.73	1.24	1.73	1.00	1.00	7.00	0.451

In Trips per employee represents all trips pinhoed by the number of employees and is based on Trip Generation 11th Edition (institute of Transportation Engineers 2021) as follows:
ITE Code 210 at 3.10 weekday trips per employee, Valume 2 - Industrial Land Uses, page 39

ITE Code 140 at 2.51 weekshy trips per employee, Volume 2 - Industrial Land Lives, page 76

ITE Code 250 at 5 05 weekday trips per employee, Volume 2 - industrial Land Uses, page 204 ITE Code 750 at 3.53 weekday trips per employee, Volume 2 Office Land Uses, page 715

ITE Code 730 at 7.45 weekslay trips per employee, Volume 2 Office Land Lines, page 789

ITE Code 630 [page 195] based on blanded everage of trips by rotall center size calculated below.

Trips per retail employee from the following table:

		Sig Pt poor	Trips per		Weighted
Setall Scale	Trip Rate	Employee (13)	Employee	Abore	This .
than 40k sq. ft.	\$4.45	802	44	50.094	22.00
****** (40k to 150k sq. ft.)	67.52	975	65	35.0%	23.50
Carriel Egreater then 150k sq. ft	37.01	963	36	15.096	9.40
Sum of Weighted Trips/11/ sq.ft.					30.50

(3) Yrip per amployee (learn 2) multiplied by 0.5.

Journey-to-Work Disapents per Trip than 2001 Nationalde Household Travel Survey (FHWA 2001) as follows: 1.32 occupants per Construction, Meeuflacturing, TCU, and Wholesale trip

1.24 occupants per Betail Trade, Fiffs, and Services trip li Daily Occupants per Trip from 2001 Nationalda Household Travel Survey (FHWA 2001) as follows:

1.38 occupants per Construction, Manufacturing, TCU, and Wholesale trip

1.73 occupants per Retail Trade, PRE, and Services trip

in (Dally occupants per trip (hern 3) multiplied by one-sey trips per employes (item 1)). (Journey-to-Work occupants per trip (hern 4) multiplied by one-say trips per employes (item 3)!

(7) Typical number of days per week that indicated industries provide services and relevant government services are available.

(a) Table A-7 for residential and the equation below to determine the Functional Population Coefficient per Employee for all land-use categories except residential includes the following:

(Covil Ser. Week & Consisting Hours to Place) + (Visitors our Environce x Visitor Hours per Trin x Davil nor Week)

(24 issure per Day x 7 Days par Wood)

"Trips per amployee for the services category is the average trips per employee for the following cervice related land use categories: fine dising, high-tuneover restaurant, supermarket, hatel, motel, motel, elementary

Littinii, relidifie advadi, high school, hospital, meskeal office, and church. Source for the stipp per employee figure from ITE, 11th ed., when available, 10) includes Federal Chritian Generament, Federal Military Government, and State and Local Government catagories.

11 - Source Sees - restall - martine from the Earth Information Administration from Table 5-1 of the Commercial Energy Bu - 50 - 2003

Table A-6
City of Brooksville Functional Population (2021)

Population Category	City of Brooksville Baseline Data ⁽¹⁾	Functional Resident Coefficient ⁽²⁾	Functional Population ⁽³⁾
2021 Weighted Population	9,246	0.713	6,592
Employment Category	4		
Natural Resources	242	0.379	92
Construction	822	0.271	223
Manufacturing	407	0.270	110
Transportation, Communication, and Utilities	748	0.271	203
Wholesale Trade	100	0.272	27
Retail Trade	1,599	1.148	1,836
Finance, Insurance, and Real Estate	837	0.292	244
Services	5,634	0.499	2,811
Government Services	3,135	0.451	<u>1,414</u>
Total Employment by Category Population (4)			6,960
2021 Total Functional Population (5)			13,552

- 1) Source: Table A-1 for population and 2021 Woods & Poole for employment data
- 2) Source: Table A-5
- 3) Functional population is calculated by multiplying the baseline data (Item 1) multiplied by the functional resident coefficient (Item 2)
- 4) The total employment population by category is the sum of the employment figures from the nine employment categories (e.g., natural resources, construction, etc.)
- 5) The total functional population is the sum of the residential functional population and the employment functional population

Table A-7
Functional Population (2000 - 2045)

Year	City of
515/00	Brooksvilla ^[1]
2000	11,021
2001	11,032
2002	11:087
2003	11,187
2004	11,254
2005	11,333
2006	11,446
2007	11,480
2008	12,020
2009	12,044
2010	11,622
2011	11,610
2012	11,598
2013	11,505
2014	11,574
2015	11,713
2016	12,053
2017	12,161
2018	12,672
2019	13,052
2020	13,391
2021	13,552
2022	13,715
2023	13,880
2024	14,047
2025	14,216
2026	14,372
2027	14,690
2028	14,852
2029	15,015
2030	15,135
2031	15,256
2032	15,378
2033	15,501
2035	15,641
2036	15,735
2037	15,829
2038	15,940
2039	16,052
2040	16,148
2041	16,245
2042	16,326
2043	16,424
2044	16,523
2045	16,606
1	.1

Source: Table A-6 for 2021. Other years are based on growth rates of the weighted seasonal population; Table A-1

Functional Residents by Specific Land Use Category

When a wide range of land uses impact services, an estimate of that impact is needed for each land use. This section presents functional population coefficient estimates by residential and non-residential land uses.

Residential and Transient Land Uses

As mentioned previously, different functional population coefficients need to be developed for each impact fee service area to be analyzed. For residential and transient land uses, these coefficients are displayed in Table A-8. Besides the residential land uses, Table A-8 includes transient land uses, such as hotels, motels, congregate care facilities (CCF), and nursing homes. Secondary sources, such as Florida's Adventure Coast, Brooksville-Weeki Wachee and the Florida Department of Elderly Affairs, are used to determine the occupancy rate for hotels, motels, CCF, and nursing homes.

Non-Residential Land Uses

A similar approach is used to estimate functional residents for non-residential land uses. Table A-9 presents basic assumptions and calculations, such as trips per unit, trips per employee, employees per impact unit, one-way trips per impact unit, worker hours, occupants per vehicle trip, visitors (patrons, etc.) per impact unit, visitor hours per trip, and days per week for non-residential land uses. The final column shows the estimated functional resident coefficients by land use. These coefficients by land use create the demand component for the select impact fee programs and will be used in the calculation of the impact fee per unit for each land use category in the select impact fee schedules.

Table A-8 Functional Residents for Residential and Transient Land Uses

Net Company Company	Impact Unit	ns wc ^h	Problems/ Violety Per Ontille	Company (Rate ⁽²⁾)	Adjusted Residents For Univ ^{es}	Visitor ficura at Place ^[8]			Days For Week ⁽⁸⁾	Functional Residents Per Valt ⁽⁹⁾
Ausikfire tilali:										
Single Family (detached)	ďu	210	2.05				- 5	} .		LG
Malli Family (Acartment, Concominium flownhouse)	du	220/221/222	1.66							1.1
Mobile Home	du	240	1.44							1.0
Servior Housing (Detachne)	du	251	1.57							1.1
Senior Housing (Attached)	du	252	1.27							0.9
Transient, Assisted, Group:										
Congregate Care Facility/Continuing Care Retirement Center	du	253/255	1.43	1916	1.27	16	0.56	9	7	1.0
Atusted Lung	bed	254	1,00	89%	0.83	20	0.61	9	7	0.9
Hotel	room	310	3.00	63%	1.89	12	0.56	9	7	1.1
Motel	room	330	3,00	63%	1,01	12	0.13	9	7	0.9
Mai use Nome	hed	620	3,00					9	7	1.0

(1) Land use code from the Institute of Transportation Engineers (ITE) Trip Generation Handbook, 11th Edition

(2) Estimates for the residential land uses and congregate care facility/continuing care refirement center from Table A-2; estimates for the hotel/motel land use is based on data obtained from Florida's Adventure Coast, Grookoville-N'eeli Waches; and the estimate used for assisted living facility/nursing home is based on 1 person per leed.

[3] Source for horial/motel occupancy: Florida's Adventure Coast, Brockeville-Weeki Weches. Source for assisted living facility/nursing home occupancy rate is the Florida Department of Elder Affairs, Hernando County Profile.

(4) Residents per unit times company rate (item 3)

(9) For recidential this is Pendents Fer Unit times 0.713. For Translent, Assisted, and Group it is:

MAddusted Residents nor Unit X Hours at Place X Care our Week! + (Workers Per Link X Work Hours Per Day & Gave our Week!)

\$54 Hours per Bits X 7 Days per West;

Table A-9
Functional Resident Coefficients for Non-Residential Land Uses

uner	n carrier	(Heppiticality)	Tri-re- triotil	There's Are trapping and	Tombour Committee	One-Way	West of the last o	Orangement And their	Visitor	Fee Topic	Orya Pre West Hill	Paremental Baselette per Unit
330	PECHATRONAL											
410:	Ply Raph	Distigued lake	1.62	m/s	120	0.01		1.87	031	1.50	7	5.47
4200	Startes	State Septi-	Zži	20.52	#17	133	- 1	1.87	2.54	1.00	- 1	0.13
438	Golf Course	acre	136	80.54	6.38	142	- 1	1.81	1.52	0.25	7	0.10
444	Movie Theater	screen	114.83	33.13	2.16	57.42	9	1.87	105.22	1.00	7	5.19
492	Healt Manners Club	1,000 sf	34.50	27.25	1.27	17.25		1.87	30.99	1.50	- 1	2.41
	Withingol								- 22			
520	Elementary School (***********************************	student	2.27	22.50	0.10	1.14	9	1.11	1.17	2.00	1	0.10
522	Middle School (Press)	student	2.10	23.41	0.09	1.05	9	1.11	1.08	2.00	- 1	0.09
525	Hi School Priva	student	1.94	21.95	0.09	0.97		1.11	0.99	2.00	- 1	0.08
540	University 7 500 or fewer students te	student	2.00	1L.75	0.17	1.00		1.11	0.94	2.00	- 3	0.10
550	University greater than 7 that students Private	student	1.50	11.75	0.13	0.75	5	1.31	0.70	2.00	- 3	
560	Public Assessment	1,000 of	7.60	20,64	0.37	3.80	- 5	1.79	6.43	1.00	- 1	0.41
565	Day Cere Center	1,000 at	49.63	21.38	2.32	24.82	- 1	1.79	42.11	0.15		0.81
	MEMORIA											
610	House	1,000 sf	10.77	3.77	2.86	5.39	- 6	1.54	5.44	1.00	- 1	1.30
630	Clinic	1,000 sf	37.39	13.90	2.69	18.70	-	1.54	26.11		- 1	1.50
	orna											
710	Office	tabilit at	10.84	3.33	3.26	5.42		1.27	3.62	1.00	- 4	0.98
77.0	Medical Office 10,000 in ft or less	1,000 sl	23.83	8.71	2.74	11.92			15.62		S	
720	Medical Office than 10,000 of t	1,000 af	34.21	8.71	3.93				22.42		- 9	1.72
	HETAM!											
812	Suildi - Material - Store	kinnel	17.08	25.77	0.66	8.53		1.72	14.01	0.50	7	0.54
813	Discount Superstant Free-Standing	1,000.4	50.58	21.90	2.31	25.29	- 5	1.72	41.19		7	
816	Hardware / Paint Store	1,000	8.07	27.69	0.29	4.04	5	1.72	6.56		7	
822	Retail U.o. Center to than 1000 ston	1.000 (1/2)	54,45	17.42	3.13		9	1.72	43.71	0.50	,	
821	Retail/Shoraine Center III.DW sfall to 110,000 sfall	LOOR style	67.52	17.42	3.88	33,76		1.72	54.19		7	
820	Retain Forming Center in eater than 150,000 states	1,000 sfgra	37.01	17.42	2.12			1.72	29.72	0.50	7	
840/841	New I sed Auto Sales	1,000 sF	24.58	11.84	2.08	12.29		1.72	19.06	1.00	7	
850	Supermarket	1,000 sf	94.48	43.86	2.15	47.24		1.72	79.10		7	
862	Home Improvement Land store	1,000 sf	30.74	:n/a	2.50	15.37	9	1.72	23.94		7	
880/881	Pharmacy Come Store with & without Drive-Thru	Little	103.86	69.17	1.50	51,93	9	1.72	87.82		7	
860	Furniture Store	1 000 H	6,30	10.93	0.58	3.15			4.84		7	
	SERVICE								-			-
912	Bon Avies Orive-In	1,000	103.73	82.73	3.17	51.87		1.72	86.05	0.15	6	1,48
931	Fine District Sentaurant	13004	86.03	17.90	4.81		- 5	2.32	95.00		7	5.76
932	Hi Turnover i it-Down Restaurant	1,000 sf	103,46	21.26	4,87		- 5		115.14		7	5.42
934	Fast Food Restaurant William Thru	1,000 of	481.99	44.52	10.63				548.29		7	9.77
942	Automobile Care Center	1,000 sf	28.19	14,30	1.97			1.72	22.28	1.00	7	
944	Gas Station w. opvenience Store <2,000 - ft	fuglines.	172.01	275,78	0.62			1.72	147.32		2	1.46

Benesch September 2022 City of Brooksville Impact Fee Study

Table A-9 (Continued)

Functional Resident Coefficients for Non-Residential Land Uses

ot us	politype	INDUSTRIES.	HEREN)	Harte managed			Marker .	Objectivity Her Stu ¹⁰	went d ^{is. 1}	100ac (1900) 1840 (1900)	States West	Hondon Hermanyan Historia
	Markett				-						150	
945	Air Station of Commission State Loop 1,491 in R	fuel eur.	264,38	241.21	1.20	132.19		1.72	226.27	0.70		1.86
945	Was Stotlon ad Competerning Stone 5,500% and ft	fuel min	345.75	243.21	1.43	172.00		1.72	295.92	11.39	- 1	100
947	Buill Burnick Car Wash	prylochia:	0.94	5/8	0.54	21.97		1.72	37.29	0.50	7	0.96
n/a	Zanverence/Gannière/Yest Food Restaurest	13=17	904.50	n/a	2.55	300 M	9	1.72	844.26	0.20	- 1	197
	WOLISTMAL.			100		1						
110	Seneral versindustrial	1,000 st	4.87	3, 10	1.57	2.44	9	1.44	1.99	1.00	- 3	0.46
130	Industrial Park	1.000 sF	3.37	2.91	1.16	1.69	9	1.46	1.31	1.00		0.35
140	Manufatturing	1,000 af	4.75	2,51	1.89	2.36		1.46	1.58	3.86		0.59
150	**rehouse	1.000 st	1.71	5.05	0.34	0.85	,	1.46	0.92	0.75		0.11
151	Mary Warehouse	1,000 sf	1.46	61.90	0.02	0.73		1.46	1.05	0.75	7	0.04

- Sources:

 (1) Land was and trip generation rates come, tent with those included in the Transportation largest Fee calculation.

 (3) Trips pur employee from TE. Trip denies and hencibook, 13th biblion included in the Transportation largest Fee calculation.

 (3) Trips pur employee from TE. Trip denies and Hencibook, 13th biblion, when a velable

 (4) Trips pur included divided by trips per purson (susually employee). When trips pur parson are not evaleble, the employees per unit its estimated.

 (5) Trips pur unit (item 2) sudisplied by 150 percent

 (6), (9), (10) is invaled.

 (7) Notion of Pursonal Transportation Survey.

 (8), (6), (10) is invaled.

 (1) Notion of Pursonal Transportation Survey.

 (8), (6), (10) is Invaled. X (10 pt.) (

Table A-10
Weighted Seasonal Population Projections

Year	Permanent Population ⁽¹⁾	Seasonal Population ⁽³⁾	Total Weight Season Population
2000	7,264	248	7,512
2001	7,275	248	7,523
2002	7,314	250	7,564
2003	7,379	252	7,631
2004	7,422	254	7,676
2005	7,478	255	7,733
2006	7,556	258	7,814
2007	7,578	259	7,837
2008	7,937	271	8,208
2009	7,949	272	8,221
2010	7,719	215	7,934
2011	7,711	215	7,926
2012	7,702	214	7,916
2013	7,643	213	7,856
2014	7,687	214	7,901
2015	7,780	217	7,997
2016	8,006	222	8,228
2017	8,074	225	8,299
2018	8,410	234	8,644
2019	8,661	241	8,902
2020	8,890	247	9137
2021	8,995	251	9,246
2022	9,102	253	9,355
2023	9,210	256	9,466
2024	9,320	259	9,579
2025	9,431	263	9,694
2026	9,536	265	9,801
2027	9,643	269	9,912
2028	9.751	272	10,023
2029	9,861	275	10,136
2030	9,973	278	10,251
2031	10,056	280	10,336
2032	10,140	282	10,422
2033	10,224	285	10,509
2034	10,309	287	10,596
2035	10,197	290	10,687
2036	10,464	292	10,756
2037	10,532	293	10,825
2038	10,601	296	10,823
2039	10,670	298	10,968
2040	10,740	299	11,039
2041	10,799	301	11,100
2042	10,858	302	11,160
2043	10,918	304	11,222
2044	10,978	306	11,222
2045	11,038	308	11,346

- 1) Source: 2000 through 2019 is the U.S. Census and the Bureau of Economic and Business Research (BEBR). 2020 is the 2020 U.S. Census Bureau estimate.
- 2) Source: Seasonal population is estimated by multiplying permanent population (item 1) by the ratio of seasonal to permanent population from the 2000 U.S. Census for years 2001-2009 and the 2010 U.S. Census for years 2011-2045. The figures are weighed by 0.42 to account for seasonal residents only residing in the City for a portion of the year (assume 5 months; 5 months divided by 12 months = 0.42).
- 3) Sum of permanent population (Item 1) and seasonal population (Item 2)

Appendix B Cost Component -- Building and Land Values Supplemental Information

Appendix B: Building and Land Values

This Appendix provides a summary of building and land value estimates for fire rescue/EMS, public buildings, and parks and recreation impact fees. Information related to cost estimates for transportation is included in Appendix D.

Building Values

To estimate building and recreational facility value, the following information was reviewed:

- Recent construction by the City of Brooksville, as applicable;
- Cost estimates for future facilities;
- Insurance values of existing facilities;
- Data from other jurisdictions; and
- Discussions with the representatives from the City.

The following paragraphs provide a summary for each service area.

Fire Rescue Facilities

Fire rescue facilities include the fire station and support buildings, such as the vehicle storage building. Each type of building has varying costs depending on the design and amenities. As part of the cost estimates the following was considered:

- The City has not built any new fire stations or other related buildings over the past five years. There are plans to expand the administrative facilities of the current fire station at an estimated cost of \$280 per square foot.
- The insured value of the Fire Station 1 is \$233 per square foot while the vehicle storage building is insured for \$71 per square foot. Insurance values are considered to be conservative estimates since insurance companies do not need to insure certain parts of the building, such as the foundation, etc.
- Station cost data from other jurisdictions ranged from \$250 per square foot to \$465 per square foot.

Based on this information and discussions with the City representatives, an average value of \$300 per square foot is used for stations and \$90 per square foot for the vehicle storage building.

Public Buildings

For public buildings cost estimates, the following analysis was completed:

- Within the past five years, the City of Brooksville did not build any new government buildings and there are no plans to build a new facility over the next five years.
- The insurance values of primary buildings averaged \$187 per square foot and support facilities \$68 per square foot. As mentioned previously, insurance values are considered to be a conservative estimate since insurance companies do not need to insure certain parts of the building, such as the foundation, etc.
- Benesch supplemented the local data with cost estimates utilized in recently completed public buildings impact fee studies. This analysis reviewed data from studies conducted between 2015 and 2020, which ranged from \$155 per square foot to \$300 per square foot for building cost only.

Given this information, building cost is estimated at \$230 per square foot for primary buildings and \$80 per square foot for support buildings.

Parks and Recreational Facilities

Similar to other facilities, recreational facility values are based on the following:

- · Construction cost of recently built facilities;
- Insurance values of existing facilities;
- Facility values obtained from other jurisdictions; and
- Discussions with the City representatives.

This analysis resulted in an estimate of \$50,000 per acre for recreational facilities.

Land Values

For each impact fee program area, land values were determined based on the following analysis, as data available:

- Recent land purchases or appraisals/estimates for future purchases for the related infrastructure (if any);
- Land value of current inventory as reported by the Hernando County Property Appraiser
 (HCPA);
- Value of vacant land by size and by land use;
- Vacant land sales between 2017 and 2020 by size and by land use; and
- Discussions with the City representatives.

Fire Rescue

The following was considered in estimating the land value for fire rescue buildings:

- The City did not purchase any land recently and there are no upcoming purchases at this time.
- The value of parcel where Fire Station 1 located is estimated at \$144,000 per acre by HCPA.
- Vacant land sales of similarly sized parcels (1 acre to 5 acres) between 2017 and 2020 averaged \$80,000 per acre with a median value of \$98,000 per acre for all vacant land use types. These prices were higher for commercial properties, with an average of \$93,000 per acre and a median value of \$119,000 per acre.
- Similarly, the value of vacant land reported by the Property Appraiser averaged \$57,000 per acre with a median value of \$57,000 per acre as well for all vacant properties. For commercial properties, the average value is estimated at \$97,000 per acre with a median value of \$105,000 per acre.

Given this information, an average land value of \$80,000 per acre is determined to be a reasonable estimate for fire rescue impact fee calculation purposes.

Public Buildings

The land value estimate for public buildings is based on the following:

- There were no recent purchases or estimates for upcoming purchases.
- The value of parcels where current public buildings are located averages \$81,000 per acre, with a range of \$24,000 per acre to \$144,000 per acre.
- Vacant land sales of similarly sized parcels countywide between 2017 and 2020 averaged \$80,000 per acre with a median value of \$98,000 per acre for all vacant land use types.
- Similarly, the value of vacant land reported by the Property Appraiser averaged \$57,000 per acre with a median value of \$57,000 per acre for all vacant properties.

Given this information and based on discussions with representatives from the City, an average land value of \$55,000 per acre is determined to be a reasonable, if not conservative, estimate for general government buildings impact fee calculation purposes.

Parks and Recreational Facilities

The park land value estimate is based on the following:

There were no recent land purchases and there are no estimates for upcoming purchases.

- The value of parcels where current parks are located averaged \$14,000 per acre with a median value of \$35,000 per acre. Land value of Quarry is \$3,200 per acre. When the value of larger parks (Tom Varn and Quarry) are excluded, the average land value of remaining two parks is \$43,000 per acre with a median value of \$44,000 per acre.
- Vacant land sales from 2017 to 2020 for parcels between 1 acre and 80 acres averaged \$77,000 per acre with a median value of \$20,000 per acre for all vacant land use types. In the case of residential properties, the average value was \$57,000 per acre for the same size parcels with a median value of \$11,000 per acre.
- Similarly, the value of vacant land reported by the Property Appraiser for parcels with 1 acre to 80 acres of land averaged \$48,000 per acre with a median value of \$29,000 per acre. When only residential parcels are considered, the average value was \$23,000 per acre and the median value was \$20,000 per acre.

Given this information, an average land value of \$10,000 per acre is determined to be a reasonable estimate for park land in Brooksville for impact fee calculation purposes. This estimates reflects the dominance of parks with larger acreage, which are valued lower than others.

Appendix C Multi-Modal Transportation Impact Fee: Demand Component

Appendix C: MMTIF - Demand Component

This appendix presents the detailed calculations for the demand component of the multi-modal transportation impact fee update.

Interstate & Toll Facility Adjustment Factor

Table C-1 presents the interstate and toll facility adjustment factor used in the calculation of the impact fee. This variable is based on data from the Tampa Bay Regional Planning Model v8.2, specifically the 2040 projected vehicle-miles of travel of all county-generated trips on all incounty roadways. It should be noted that the adjustment factor excludes all external-to-external trips, which represent traffic that goes through Hernando County, but does not necessarily stop in the county. This traffic is excluded from the analysis since it does not come from development within the county. The I/T adjustment factor is used to reduce the VMT that the impact fee charges for each land use.

Table C-1
Interstate/Toll Facility Adjustment Factor

Roadway	VMT (2040)	% VMT
Interstate/Toll Facilities	393,377	8.1%
Other Roads	4,447,122	91.9%
Total (Ali Roads)	4,840,499	100.0%

Source: TBRPM v8.2, 2040

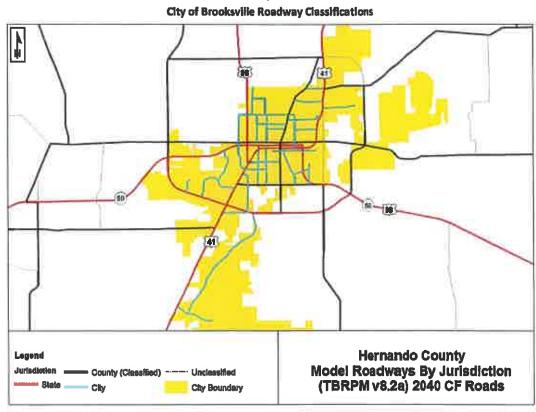
City Portion Adjustment Factor

Using the TPRPM model data, a city adjustment factor was developed to identify the percentage of travel that occurs on the city's classified roads. Map C-1 illustrates the roadways considered for this review. While not all of the "City" roads are currently classified, it is recommended that the City of Brooksville update their Comprehensive Plan to reflect these new classifications. The city portion adjustment factor of 17 percent was determined by dividing the VMT on city roads by the total city VMT, as shown in Table C-2.

Table C-2
City Portion Adjustment Factor

Jurisdiction	VMT (2040)	% VMT
State	285,139	65.0%
County	78,894	18.0%
Local (Classified)	74,344	17.0%
Total (All Roads)	438,377	100.0%

Source: TBRPM v8.2, 2040. Interstate/Toll Facilities are excluded



Map C-1

Florida Studies Trip Characteristics Database

The Florida Studies Trip Characteristics Database includes approximately 345 studies on 40 different residential and non-residential land uses collected over the last 30 years. Data from these studies include trip generation, trip length, and percent new trips for each land use. This information has been used in the development of impact/multi-modal/mobility fees and the creation of land use plan category trip characteristics for communities throughout Florida and the U.S.

Benesch estimates trip generation rates for all land uses in an impact fee schedule using data from studies in the Florida Studies Database and the Institute of Transportation Engineers' (ITE) *Trip Generation* reference report (11th edition). In instances, when both ITE *Trip Generation* reference report and Florida Studies trip generation rate (TGR) data are available for a particular land use, the data is typically blended together to increase the sample size and provide a more valid estimate of the average number of trips generated per unit of development. If no Florida Studies data is available, only TGR data from the ITE reference report is used in the fee calculation.

The trip generation rate for each respective land use is calculated using machine counts that record daily traffic into and out of the site studied. The traffic count hoses are set at entrances to residential subdivisions for the residential land uses and at all access points for non-residential land uses.

The trip length information is obtained through origin-destination surveys that ask respondents where they came from prior to arriving at the site and where they intended to go after leaving the site. The results of these surveys were used to estimate average trip length by land use.

The percent new trip variable is based on assigning each trip collected through the origin-destination survey process a trip type (primary, secondary, diverted, and captured). The percent new trip variable is then calculated as 1 minus the percentage of trips that are captured. Tindale Oliver (now Benesch) has published an article entitled, *Measuring Travel Characteristics for Transportation Impact Fees*, ITE Journal, April 1991 on the data collecting methodology for trip characteristics studies.

Table C-3

Land Use 151: Mini-Warehouse

All all	maj page 1	SHAW.	SHAIR Investor	A SHIP LOOK	Try Gentlem	HENN W	ing times	remain feet	West	iii
Drange Ca. N.	96.6	2006	0		1.71			-	-	Drings County
Diargo Co. H	84.7	2006			23					Orange Causty
Orden Co. Pl.	93.6	2006			1.5					Drangt Courty
Strange Co. FL.	307.9	. 2007			1.45					Chrysge Chiefle
litungo Ca. FL	77.0	2006			214			-	-	Tindala Gliver
Hilliam Ca. FL	16.1	3633	-		1.15		-	-		Trinials Draw
Total Sta	545.0				Are	tops Till Langth	4/4			
111	500.0	1	5		Weighted Am	mage frig tampfo	40			
Blanded setal	1,425.0				We	ighted Percent He				

Waighted Average Trip Generation Rate:
ITT Average Trip Generation Rate:
Would of It Hardin and ItT Average Trip Generation State:

1.47 1.45 1.48

Table C-4

Land Use 210: Single Family - Detached

Mester	mer/mem	-200°	Natal II	-ellipseign	STOK See No.	Territori	DOMESTIC:	TOTAL CONSTRUCT	190	Sant
Sermoni Cr. FL	76	Acits:	70	.70	10.1	-	1.00	-	40.00	Bernante County
Seriousia Co. Ft.	-75	5e-41	34	- 10	9.75		4.40		32.99	Burawita County
Someta Ca. Pt.	135	Am-02	79	73	8.65		5.66		45.00	Sanatana County
Sewent Co.P.	163	heds:	- 41	4.5	K.58		7.30		45.43	Sarziota County
Servicto Co. Fr	193	56.57	123	125	6.65		4.60		31.51	Service County
Sanacotal Cir. PL	- 97	Am-93	33	34	17,20		100		. \$15.60	Sarazota Churry
Savarra Co. FS	0.00	ne ti	1.86	1/46	6.61		2.40		33/52	Serasota County
Senten Co. fo	3.63	hedt :	267	207	7.76	-	9.00		44.98	Security County
Hemando Cn. FL.	76	Blag 96	249	318	10.00	Se Gr.	4.65		43.55	Tittdale Oliver
Hernands Co. Ft.	125	tilay 96	25	205	8.27	So Sa	6.05		49 27	Tindale Ofer
Herrando Ca. FL	232	May 16	182	192	1.21	Soda	5.00		36.49	Tinitals Officer
Hermandia Co. PL	MI	34ry %	114	314	131	Skitz	1.28		39.24	Minutals Oliver
Chatune Ca. Pt.	135	Oct-57	290	-	5.30	56-5e	7.00		41.57	Tindale Oliver
Clustotte L= FL	342	Oct-97	245		5.20	Seld	4.10		31.11	Tiedal-
Charlotte Em. Fil	100	Cent	140		3.00	94.52	10.90		35.00	Tiedale Oliver
Disfutta Ca. Fl.	218	Octo	136		7,60	Geda:	430		91.24	Tringale Offices
Chambra Cx. FL	257	Oct-97	225		1.84	94.54	7.40		36.74	Testale (See:
Chumun # (in Pl.	348	Outt:	161		7.00	20-5	6.80		4639	Tindale Oliver
EXHIUTE CH. FL.	346	Qd-97	152		6.80	Se-Se	5.10		27.62	Tindale Officer
Charinta Ca. Fl.	386	04-97	518		8.46	No he	5.00		42.00	Testale Ulice
Character Co. PL	445	0x31	105		1.20	To the	4.91		19.54	Tindale Oliver
Character Co. FL	3,365	Oct-97	348		6.10	Da tu	8.00	1	45.00	Tindale Gilvar
Little Co. FL	99	D20-93	91		11.00	Bartin	11.40		1-19-92	Total de Chare
Coller Cu. Pt.	400	Drs 99	309		7.80	Ba tis	6.40		61.5	Sinduly Other
Like Cit. FL	41		ini		6.70	fa-kp	111.20		B34	Tindate them
Interior FL	10	April April 2	112		10.00	7a-6#	7.00		76.00	Tindale Oliver
	126			-	8.50	74-60	8,35	-	79.55	Tradate Oliver
Lake Ca. Fi		Alr El	217		1.80		8.12		15.11	Tringing Grown
Perro Ca. FL	55	April 1	158	- :		Sala	4.8		67.64	Tiedate Other
Pitto Ex PL	60	April 1	1956		773	le te				
Front Ca. Ft	70	444	188		7.80	to-lat	Lat		47.03	Tiedale -
Perro Ex. fri	74	Apr 60	188		9.15	Be for	5.85		67.07	Traditi Chiert
Pepe Ca. PL	188	46.0	779		7.46	\$1 to	191			Tindale (See
Miden fit ft	.00	April 1	167		1.02	7140	5.10	-	47.07	8 Avsoriates
bliden Ca. Fi	105	Apr GZ	145	-	7.0	7/58	7.72		\$1.26	New York Assetting
Medan Ce EL	324	AM SIL	100		E.O4	24.94	TJI		1100	Markey Hart & Principles
Motion 54, F)	191	April II	171		7.87	Yarta	7.00		55.00	1 Associated
Madori \$4,73	193	Aprill	209		3.94	7n 4#	4.92		19.66	Secretary Administra
Citrus Ele PL	111	OHGE	271		8.66	7a 4#	2,00		96.68	Trinkally Officer
Divisi Co. Fs.	311	00:00	245	-	8.71	Teda	4.82		27.52	Tradals -
Divin Di. H.	104	Oct-03	116		8.00	Tele	133		15.76	. Neight Ships
Clean Lin FL	264	D=01	145	-	7.20	Ti-tar	931	-	65.91	Tindule (11)
Directoris.	174	Ort 03	248		12.35	Ti-19	5.48	-	왕일	Tindsle Oliver
tobs Ca. PL	42	Doc-06	122		11.84		3.54		13.03	Trese Oter
Labo CK, PL	53	Dec 48	346	- 4	18.22		2.96		UEN	Steam Dhee
Links Cir., FL	29	Oni-06	144		LLAA		10.79	-	136.14	Tiedale Oliver
Late CX, PL	90	DroG6	194		9.12		378	-	A4.73	Number Disert
Life Cx, FL	239	No.48	385		7.58	1	8.43		95.69	Findale Oliver
Hereaugh Co. FL	331	April C	516		8.00	25/10	9.10		85.95	Dentaly Diver
Hernando 🗱 📆	95	Aprill	234	- 4	0.00	Zeliji	.536		10.11	. finish there
Hertando ČE, R.	10	April 03	230		7,13	7a fu	5.86		41.78	Tradale Oliver
Hemania Ca. H.	50	Aprilli	193	1	4.10	Turbo	4.31		51-61	Tirutale Other
Colher Ex. PL	74	2544-01E	Mid		22.63	7+9	3.05		- 9101	Wednie Co.
Coffeet Co. Fr	17	Marine	512		3.79	Tire files	11.89	-	99.13	Tiedale Oliver
Caffeet Co. Pt.	925	May-05	1.347	-	2.97	Vivian	4.55		19.45	Redding Driver
Coffee C+ Ft.	42	Merida	334	-	2.35	74.60	10,98		307.8e	Tedale Cover
Tratal fixe		95	13,130		Av	eringer Tolay beingen	6.88			
1000 000						enge Trip target		11		

Table C-5

LUC 215: Single Family Attached Housing

1100	State / Limits	1777	perbuses	# Trip Length Interviews	Trip Gen Sate	Time Period	Trip Length	Pertant New Trips	VMT	The state of the s
remando (= F)	31	Page 24	31	- 11	8.11	fa-to	8.88		90.49	Tricklets Ottom
Hernando Da PL	128	May-Mil.	198	316	4.41	di-ta	5.18		81.53	Trickly Otem:
Pasco Ca.FL	229	April 10	188	296.	4.77	34.50	11.85	-	\$2.67	Tintal Oles
Fisco Cic.Fi.	248	April 2	353	3/3	1.21	30.60	3.53		14.97	Finish Otion
10007300	616	- 4	780		and the same	nage Tree consists	\$765 P			
478	2,640	22			Weighted Am	rage Trip Langet:	201			
80-mark to 649	3,276						Win	ighted Average Trip Gar	neration Rate:	4.97
								ITE Average Trip Ge	neradon Rate:	7.20
						Clare	d of FL Studies	ind ITE Average Trip Ge	eerstice Rate:	6.77

Table C-6

LUC 220/221/222; Multi-Family/Apartment

	Hey hom	1100	natural.	# Trip Length Interviews	(Martinian)	Distance	Highway	-	WIT	(Searce)
Serroma En. AL	711	June 15	41	102	5.7Y		1.30		80.06	Serestice County
Seresota Em FL	243	Le-qui	36	36	5.84		- 2			Soraputa Courte
Marion Ca. Pl.	214	Asu ITE	179	1.75	6.84		4.61		31.53	Kimie Horn & Associates
Marion II. Fl.	240	141-02	174	174	6.96		3.43		23.97	Kimie Horn & Associates
Marion Ca FL	288	Air-02	175	175	5.66		5.55		31.41	10mle Horn & Associates
Marion C+ FL	480	Air-02	175	175	5.73		6.83		39.42	XI Horn & Associates
Marion Cx. RL	SGD	Apr Q2	170	170	5.46		5,94		32.43	Kimie Horn & Associates
take C= FL	250	Dec-05	135	135	6.71		5.33		35.76	Tindale Officer
Take C= FL	157	Dac-Q6	265	263	13.97		2.62	-	.16.63	Tindale Oliver
tale Ca SL	169	Dec-06	112		8.09		6.00		48.54	Tindale Officer
Leba Ca. FL	226	Dec-06	201		8.74		2.17	4	14.69	This is Officer
Retends to to	313	AHr-07	454		4.05		5.95		24.34	Tindale (1) = r
Hernando 👀 FL	176	Apr-07	332		5.38		5.24	-	3619	1 indale Oliver
Total Size	Total Size 3,467 19 2,648					cago Tris Lecution	6.83			
					Weight all Red	Days Tyle Letseth:	0.71			

Table C-7

Land Use 240: Mobile Home Park

Name of the last	1808/00/25	1000	1,77		THE REAL PROPERTY.	Time former	Thomas	Annual Contract	08/11/1	Name of the last o
Angelog Co. PL	67	4/10	22	- 22	2.40	82314	1.13		\$3.37	Tartale Oliver
Merion CA FL	82	Jul-16	34	- 14	33.85	20=	1.11		46.38	Titotaly Chee
Marion Ca. FL	137	Jul-91	22	22	3.10	Tite:	4.88		15.13	Rindals Client
Sarasota Eu FL	996	Jun-93	181	181	4.19		4.40		18.44	Spranger Canaday
Samsota Co FL	235	Jun-93	100	160	3.51		5.10		17,90	tarauna Caranty
Marion Ch FL	188	Adr-02	147		3.51	24hr.	5.48		19.23	Santa Here & Assertion
Marion & FL	227	Agr-2T	173		2.76	34hr.	4,30		24.29	Battley-time & Associates
Marton C FL	297	Aprill	175		4.78	24hr.	4.76		22.75	- Alaske, there B. Avancint ex
Hernando Co. R.	1 892	May 94	425	425	4.13	9a-6a	4.13		17.06	Sindale Officer
Total Sizu	4,121		9 1,303		Aug. T. Aug.	rage from Assignity	4.94			100110
	•				Weighted for	tions from consolin	6.00	7		

Table C-8

Weighted Average Trip Generation Rate:

Land Use 251: Senior Adult Housing - Detached

					Anturying C	Stateralews			
8.54	-	2.44	Sam-4am	3.50	24	26	N/278-H/30/98	67	Lakeland, FL
10.33		3.49	24hr,	2.96	-	175	A r-02	778	Marlon Co. Ft.
17.17		5.90	24hr.	2.91		209	A-r-02	677	Marion Co. R.
25.80		6.00	24hr.	3.65		171	April 1	1,054	Marion Co. RL
13,55		3.14	libr.	2.43		198	A) (1-02	3.000	M==n Ca.ft.
24,146		3.81	24hr.	2.50		244	April III	30425	Marion Co. Pt.
		4.85	ogn Strip Length:	- Anne		945		9,477	Total Size
		1.47	nes free langth:	ted ****			35	9,590	TE.
veration Rote:	ghted Average Trip Ger	We						19,167	Elanded tatal
wrahon Sate:	FTE Average Trip Cor								
eretion Aste:	nd ITE Average Trip Gos	of FL Studies a	Blood						
	10.33 17.37 25.80 1111 Mration Rate:	- 10.33 - 17.17 - 23.80 - 1111 - 1118 - 118 -	5.49 - 10.33 5.50 - 7.17 6.00 - 21.80 1.11 - 11.14 Wilghted Average Trip Generation Rate: ITE Average Trip Generation Rate:	99m-4.nm 2.44 - 8.54 24hr, 3.49 - 10.33 24hr, 5.59 - 17.17 24hr, 6.00 - 22.50 1 hr, 1 - 11 24hr, 1 - 11 24hr, 1 - 11 Weighted Average Trip Generation Rate:	3.50 Sent-dem 2.44 - 8.54 2.96 24hr, 3.49 - 10.33 2.81 24hr, 5.50 - 17.37 3.65 24hr, 6.00 - 23.80 1.65 24hr, 6.00 - 23.80 1.65 24hr, 6.00 - 11.80 1.67 1.67 1.67 1.67 1.68 1.68 1.68 1.68 1.68 1.68 1.68 1.68	24 3.50 Sent for 2.44 - 8.54 2.96 24hr, 3.49 - 10.33 2.91 24hr, 5.90 - 17.17 8.65 24hr, 6.00 - 21.90 1.4 hr, 2.50 24hr, 4.1 Weighted worspall is beingth 1.41 Weighted worspall is beingth 1.41 Weighted worspall is beingth 1.41 Weighted worspall in the control of the contro	26 24 3.50 Sem 4.0 2.44 - 8.54 1.7 2.56 24hr. 3.49 - 10.33 209 2.81 24hr. 5.50 - 17.17 1.7 3.65 24hr. 6.00 - 21.50 1.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	26 26 3.50 9em-4om 2.44 - 8.54 A-r02 17 2.86 24hr. 3.49 - 10.33 A-r02 209 2.81 24hr. 5.80 - 17.17 A-r02 196 4 hr. 6.00 - 21.80 A-r04 197 2.50 24hr. 6.00 - 21.80 A-r05 198 4 hr. 4 1 2.50 24hr. 4 8 945 15 Weighted Average Trip Generation Rate: ITE Average Trip Generation Rate:	67

Table C-9

Land Use 252: Senior Adult Housing - Attached

ilocation	Sire / Units		MITTER OF	Manufella.	Trip Gen Halla	Time Period	Tija Longth	Coronal New Trips	(EMME)	18/00
Sun Cit- Center PL	315	Oct-91	726	726	2.46	24hr.				Tindale Oliver
Total Site	208				Are	nya Iyo Langilic	rigit			
ITE	412		1		We ted Ave	rajot Trio Ldrumb	n/a			
Blended total	640						W	ighted Average Trip i	Seneration Rate:	2.46
								ME Average Trip (3.24
						Blen	d of FL Studies :	ed ITE Average Trip i	Severation Rate:	2.99

4.17

Table C-10

Land Usa 253: Congregate Care Facility

		144	futerileurs	Filip temph Interviews	meserter	See Security	Trip Leagth	Patient New Trips	sw!	199
Finality Park, PL		Aug-89	23	19	5.56	9am-5pm	120	79'0	E.70	Tindare Oliver
Pales Harbor, Ft.	200	Oct 49)	10	42		- Sam-Spm	1,40	69.0	- [Tindale Clive
Total Size	272	1	83		Zee	agu Trip Langths	2.00 .1			
ITE	720	4			Walshield Aven	tere Trie Lengths.	8.00			
Blended total	992				Web	physid Percent No				
	792						Table 1	righted Average Trip 0		3.50
								115 Average Trop G	eceration Rate:	2.21
						Sten	d of PL Studies	and ITE Average Trip G	essention itates	2.99

Table C-11

Land Use 310: Hotel

###	(2.600 (H) (1941)	HE I	Hamana A	Philipsonial military	DERNINE.	10=11=1) (frie (Heisen)	(foodbestie)	YMT	
Facilities Clarks	3,74	A44.99	134	106	17.85	3-(1a/1-7g	132	78.0	60.21	Trebits One
Frentas Co. Fs	144	0.685	Tu-	14	7.60	. At the	£20	470	21.1	Tradale Girlar
Drings Co. PL	123	1997		110	6.32			14.00	4	- Charge Caserry
Dranger Circ.Tis	179	1997			5.27					Dange County
Carry Co.PL	146	1997			7.61					Change County
Jarge Co.PL	252	1997			5.57					Orange Eastern
Dranger Co. Ft.	1772	1097			6.36					Chinder Country
Drawer Co. PL	170	1997		a a	6.00					- Organi Cooms
Horas Ca.FL	1/1	mm			6.00					Crimpy Courts
During Cla. PL	200	1997			4.53					Stronge Country
Distance Co.PL	612	1919			1.73					fittings Courts
Drawger Ed. Ft.	150	3416			9.3.2					Entige County
Overge Co. FL	108	1998			7.34					Orange County
Dorge Co. R.	- 10	7118:			7.32					Onlinge County
Drange Co. Fi.	176	1900			5.57			-		Crarge Counts
Dirgs Cz.R.	70	1999			1.83					Orange Course
Orașe Co.PL	100	3300			4.61					Charge Greate
Dongs Co.PL	123	2299			170					Charge County
Dronge Co. PL	213	2100			210	44				Orange County
Drawger Co. Fig.	144.	3000		4	7.32					Drouge County
Drage Cx.RL	105	2001		- 4	3.25					Orange Course
Diago Ca.FL	201	2019			1.61					Charge County
Dringer Ca. FL	1,384	2005			3.39					Change Cavette
Disage Co. PL	210	2006			436					Orange Course
Dramat Co. FL	1,499	2006			4.50					Drings County
broken Cir. PL	146				4.74					Change County
Drahad Cir. Hi	148				7.41					Omean County
Crivran Co. PL	160				6.19					Grynan County
Grange Cir. PL	130				4,29					Change Carries
Dringe Cir. Ft	000				3,40					Orange County
Ordena Co. Fo.	146				144					Armer County
Grange Co. Pt.	100				7.37					Drange County
Oringe Ca. PL	190				4.71					Starge County
Orange Circ. FS	1,501	2012	1		330					Tindate Officer
Divinge Cir. FL	174	2011			7.83					Terdale Officer
Days Ca./L	234	2014			4.05					Fedute Skine
Total 5	lber 10,184	3	i 164		- Au	neur Trisi Langti-	+31			11 Constitution in
	ITE 1,035	_	,		Wickelsted dur	Harry Trip Languis	6.28			

Whyshold Amerge Trip Generation Rate: 5:
ITE Amerge Trip Generation Rates 7-3
Would of Pt Studies and ITE Amerge Trip Generation Rates 8-1

Table C-12

Land Use 320: Motel

HEREEN.	DESCRIPTION OF	199	2 T-18 4 2	THE STREET	The Gold From	7-7-	Pigame	10.1901	W	
Pleates Co. Ft.	48	Da-95	45	24		100-2p	2.80	63,0		Tindate Officer
 Pindles Co. R.	54	Oct-29	32	23		12p-7p	9.80	6.99		Tisdate Olimer
 Foreskus Co, FL	120	Oct-89	26	22	,	2p-7p	5.20	84.5		Tindate Ofees
Total Sico	223		104		Aug	diga Trip Leetgile:	3.98			
ITE	694				Walghted Ave.	PR Trip Lamble	434			
					Mod	skitud Barrant Bla	us Telm Ascensuse:	76.6		

Table C-13

Land Use 445: Movie Theater

THE	(CERTAINING	00.00			THEO PROPERTY.	Time Fasiod	House	Promote Call	N=	Name:
Provides Co. PL	8	Drn 95	124	134	113.50	Jene	2.70	17.2	10.37	Tredition (Print)
Profito Sit Ft.	12:	50.45	122	114	43.00	Jp for	1.90	10.0	128.69	Tindale Communication
Total Sta	Q 20		2 273	1	Ave	man Trip length:	3.36			
EÝ	1 5		1		Minighand Aven	riser fråg tongfå	1.31			
Shinded sets	1 26				Wei	ghted Percent Ne	w Trop Assistage:	N7.N		

Wroghted Averupe Irlip Generation Ruse 27 29
Till Angreps Irlip Generation Ruses 229 3
Mond of Pl. Mouthes and Till Averupe Irlip Generation Ruses 214.E

Table C-14

Land Use 492: Health/Fitness Club

Total	n'yo		33		- Ave	The League	m Trip Average:	94.0		
T-a PL		Mar-86	33	31	12		7.90	94.D	-	Althornor & American
Location	Size (1,000 sf)	1989	Total a	A Trip Length Interviews	Trip Gen Rate	11me Pedad	Trip Lingth	Persot New Trips	VMT	Service .

Table C-15

Land Use 565: Day Care Center

lesition	Sist (1,000 sf)	Date	Details	H Trip tenglia loterviews	Trip Gen Rate	Time Period	Trip tength	Percent New Trips	VMT	Saller .
Frontier Ca. Fr	14	Aug #F	94	66	施界	Ta 6a	150	70.0	49.30	Tuttals Olive:
Freetax Ca, Ft.	10.0	549-99	179	134	66.99	Turke	2.10	75.0	\$25.51	Trutide Other
Tames, FL		Mar-86	211	25			2.60	0.08		Kimley Term & Facility also
Year Was	15.6		301		: Air	righ Title Langitic	1.30			
100	135.0	27			Weighted Ave	ruge Title tangetic	1.61			
Western Cone	130.6				Wel	ghted Percent Re	ny Trip Average	73.2		
							w	eighted Average Trip G	recration Rate:	46.99
								ITE Average Trip G	crecation flate:	47.52
						m1	of all the department of	and ITE Average Trip Go	nametica distan	48.63

Table C-16

Land Use 620: Nursing Home

Herein	SOF THEFT	#~	Total III	A Sep Lington	Try Can Sub	THE PERSON NAMED IN	Treatment	Former Street Trees	year .	Marie
Lorenteed, PL	120	Mur-90	74	85	2.86	1la-a	2.30	B9.0	6.50	Tindale they
Total Size	120	- 1	74		Are	rege Trip Langille	A.24			
ITE	480	1	1		Weighted Are	nur Iriy tangti	3.19	1		
Elende <i>i</i> s totali	600				Wel	ghted Percent No	or Tirip Average	; B9.0		
							ų.	elginted Average Trip Gr	oceration flate:	2.86
								ITE Average Trip Go	eneration Nate:	3.06
						2Seq	d of FL Stadies	and ITE Average Trip Go	noralijon Raty:	3.02

Table C-17

Land Use 630: Clinic

11112	30(b)=00	1000	Town Law	111111	(B) - 1.	12 - (100)	119(4=40)	F=0-394	XXIII	1000
Larges FL	261.9	Aug 81:	614	572	37.65	74-43	5.10	218	125.89	Totals Over
St. Petersburg Pt.		Oct-89	280	252		92-5	4.10	90.0		Heide Dive
Total Site	103.9	2	894		An An	rouge Trip Langers	4.66			11122711
FTE	180.0	9			Wirkshied An	mager Trip Assemble:	1,10	1		
	283.9			-1:	We	ighted Percent No	ne Trip Average	93.0		
							W	alghted Average Trip G	eneration Rate:	37.03
							•	ITS Average Trip 6	everation Rates	37.60
						et	d of the design.	and ITE Average Trip &		17.89

Table C-18

Land Use 710: General Office Building

(tocation		Date	- walk	# Trip tength	Trip Gen Rate	Time Period	. Trip tength	design of the last	MI	Heat
Sarasota Co, FL	14.3	Jun-93	14	14	46.85		65/30		520.61	Saresota Caruma
Gwinnett C+ GA	98.0	Dec-92			4.30		.146			Street Leading
Committe Exc. GA	1400	0ex 95			3.60		1.00			Short Smarts
Pines & Co. FL	187.0	Oct-89	431	361	18,49	24.56	6.83	9(1)	104.81	Youlute City of
St. Petersb PL	262.8	Se -85	291	274		71.54	3.40	84.0		Tindale Deer
Total Size	742.1	5	736		Ave	rough field bringth	6.86			
CLE.	9,617.0	59			Weighted Ave	rage Trip Garagety	5-14	1		
					10.1-1	alexand Branco Ma	- The boston	40.0		

Table C-19

Site	Size (1.000 sf)	Tues.,	lan 11	Wedn,	Jan 12	ማስሆሉ Jan 23		TOTAL		WHILE		AVEILAGE (- 1,000		00 s/1
Pilis	ami (righest)	184	DUT	IN.	100	404	OUT.	104	GVI:	199	CUT		OUT	TOTAL
Site: 2	2,100	35	35	22	22	13	13	70	34	23.11	23.33	11.11	11.13	22.22
Site 2	3.000	40	40	52	52	53	53	145	145	48.33	48.33	16.11	16.11	32.22
Site 3	2.000	28	28	19	21	24	26	71	75	23.67	25.00	11.84	12.50	24.34
Site 4	1.000	30	30	52	52	57	57	139	139	46.33	46.33	46.33	46.33	92.66
Site 5	3.024	31	32	43	43	24	24	98	99	32.67	33.00	10.80	10.91	21.71
Site 6	1.860	22	24	19	17	11	11	52	52	17,33	17.33	9.32	9.32	18.64
Average												17.59	17.71	35.30
Average (c	excluding Site 41											11.84	11.99	23.83

Table C-20

Land Use 720: Medical-Dental Office Building

ALIENTA III	1000(0)0000	1000	Interpretation of the last of	The second	Marinellini.	T-AND	Name of Street	Printed to Con-	1000	IMM
Summaria (FE)		Mar 95	11.	34	1		6.0m	79.0		Surday Marti B Assessed
Pales Harbor, FL	14.6	Do 45	104	76	31.86	Se Sa	6.30	73.9	156.27	Traplate Short
St. Fremetters, FG		Nov-89	34	16	17.10	To be	1.20	102		Timbale Chief
himmedo Co.P.	364		390	349	24,52	to be	6.47	19.5	16.0	Timilgle Short
Hartwill Co. FL	29.9	5149-04	202	194	45.70	10 Ac	5,58	911	113.67	Timigle Of our
Chambridge CA. Fa.	11.0	Oct-97		131	49.50	84-52	4.60	92.1	210.61	fiedaly (\$600)
Charlotte Fa FL	20.0	00.87		150	\$1.00	tale.	3.50	31.6	91.04	Tindale Chine
Countaille-Co. FL	30.4	Opt-877		133	39.00	To Let	3.00	E1.5	100.88	Fedate Store
CAMPA CO. PL	38.5	Oct-05		1.68	32.26	5.40	6.80	97.)	213.03	Tindale (Fire
Citrus Co. FL	30.0	Nov-03		\$40	4/Cle	8 830 g	8.20	344	411.61	Stedate Stice
Cimas Cir. Fl.	5.3	Day 60		20	23.36	8.54	5.25	61.7	kH-78	Panelsie Olivez
Charge Ca, Fl.	101.6	2007			3670			- 0		Though County
Drage De B	23.5	2010			16.58					findage dili-de
Total Si	ze 248.6	13	763		Ave	rage Take Length	5-87			
	TE 270.0	16			Worldfire B. Ann	rings little Lampble	5.00			

Weighted Parasit Rew Trip Average: 88.9 Average Trip Generation Rate: ITE Average Trip Generation Rate: Bland of P. Studies and ITE Average Trip Generation Rates

Table C-21

Land Use 812: Building Materials and Lumber Store

mental and	-u-mm	8 100	2044	110000	-	Time Forled	Tilp length	Permit New Telps	VStT	\$1000
Farms, FL	86.9	int St	-40			Fa-433s	0.484	73.0		The dark Silver
Tanna.PL	29.3	Ave BE	45	-		7x-4100	6.00			Tindala C+++
familia PL	3	No. 21	- 46	-		Fa-435e	1.87	75.7		Tindale Oliver
Total Size	185 4	3	170		Acc	rigo Tith Langtin	A.43			
erg	224.0	13			Weighted Ass	rrige Trip Largett	6.37			

Table C-22

Land Use 813: Free-Standing Discount Superstore

(E)	Size (1,000 si)	Cata	STREET, STREET		Mary filtropial	Shedt H.	Malara	CHINATE THE	1997	Ser.
Comunition No.	103.6	Novett.		256	55.05	de to	5.91	94.0	2965	Training (Book)
Total Size		1 72				rage Tris Length.	5.91			
Standad tratel		-			We	ghted Percent Ne	eu Trip Ausraja	91.8 Average Trip St	meratha Anter	55.01
								ITS Average Trip Ge		90.52

Table C-23

Land Use 820/821/822: Shopping Center/Plaza Tam FL
Tam FL
Tam FL Mar-86 Mar-86 Ivar-86 Ki n û Associate: Kimle Hors & Associate: Ki a Associate: 64.0 St. Petersburg F 76.0 132.3 10a-10a-9a-5 400 160 276 485 75.0 76.0 80.0 PROPERTY PL 80.5 696.0 425.0 134.0 151.0 1.40 3.20 Seminole FL

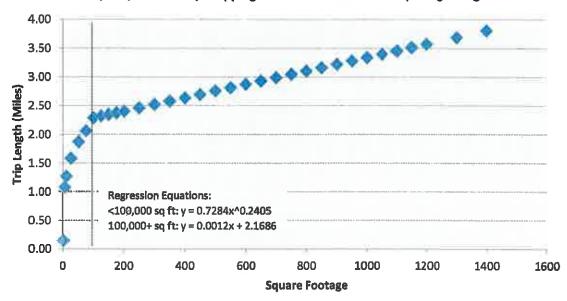
Ilaborou Co FL

Collier C FL

Collier FL 674 Tindale Climer
Tindale Climer
Tindale Climer
Tindale Climer
Kin En negrin be.

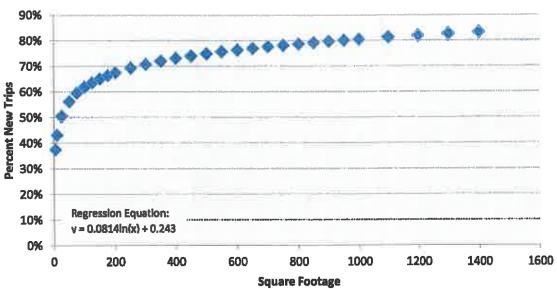
Street Seprets
Street 94.1 74 + 61.6 109.0 99.1 70.0 Gwinnatt Co GA 101.64 1.10 110.0 146.1 157.3 Service Emply Seresota 🚃 Jun-93 Jun-93 M - 96 Oct-97 Oct-97 79.79 66.79 77.60 73.50 107.8 88.0 191.9 51.3 67.8 72.3 197.45 75.56 87.57 80.68 248.37 173.37 54.5 57.1 50.9 51.8 71.2 59.0 Tindale Other Tindale Other Tindale Other 246 444 221 177 376 102,60 65.30 April 1 72.8 13.0 91.3 104.3 159.9 5,797.5 Pasco Co. Pl. Oct III Nov-03 Dec-06 Dec-06 Dec-06 88.0 49.0 54.0 74.0 118.65 76.77 77.68 47.59 71.28 Citrus Car FL

Figure C-1
LUC 820/821/822: Retail/Shopping Center – Florida Curve Trip Length Regression



Source: Regression analysis based on FL Studies data for LUC 820/821/822

Figure C-2
LUC 820/821/822: Retail/Shopping Center — Florida Curve Percent New Trips Regression



Source: Regression analysis based on FL Studies data for LUC 820/821/822

Table C-24

Land Use 840/841: New/Used Automobile Sales Tondaia Ciliner Tondaia Cliner Converter fi 19-2 Oct-89 101-15 Design Co. P.
Compt Co. P.
To 11:41 23:50 Charge County Charge County (Hange County Dienai Colovia Donas Colovia 1-16C E1 18 40.34 51.7 36.6 (1,17 (1,46 Orange Courts Charge Emints Bearings Trip turngth ITE (840) 649.0 Weighted Assembly Trip Langth
Weighted Percent No 76.5 ITE (841) Blended total 25.0 1,294.0 Whighted Asyrage Trip Generation Rein: 17E Annuage Trip Generation Rain (LUC 945): ITE Annuage Trip Generation Rain (LUC 945). Wand of P. Bruffes and ITE Annuage Trip Generation Rain. 27.84 27.84 17.66 24.56

Table C-25

				Land 1	Jse 850: Sup	ermarket				
T SHIP OF THE PARTY OF THE PART	principalities	-		1000000		- Imid	April Marie	Persilber 19	(40	344
halon startum, Fil	67.0	Aug El	111	62	101-26	34-58	1:44	39.0	121.71	Tindel Ole
Total Siz-	62.0	l l	163		Am	was fry Langth:	2.08			
181	1,146.0	22			Weighted Ave	mage Tries below:	2.66			
Blended rota					Wel	ghted Percent Alm	w Trip Avenag	Si Seull 29		
							16	Heighted Average Trip Gr	restration Replic	104.28
								PTL Average Trip G	lengration Bate:	93.84
						the state of the s	d of FL Studies	and ITE Average Trip S	eneration Retur	94,68

Table C-26

Land Use 880/881: Pharmacy with and without Drive-Through Window

personal contract of	Size (1,000 sf)	Date	Total # Interviews	I II Trip tength Interviews	Yrip Gen Rate	Time Period	Trip Langth	Fercent New Trips	200	Home
Frank Co. Po	17.1	Aprille	138	38	89.91		2:05	17.1	20.11	Brazili Dieli
Power Cauchy	12.0	April	212	90	122.16		2.04	42.5	105.79	Tribule Direct
Fried Ca. Fr	15.1	805-62	1191	14	17.36		1.11	28.1	58.69	Tribals Dive
THE RULE BASE THE RULE BASE			1,542		Weighted Ave	age to be being to whited Percent Me	2.04	53.4		
Sheeded total	312.2	-				-	ITTE AN		Rate (LUC 881):	108,03 90,08 108,40 103,88

Table C-27

Land Use 890: Furniture Store

ocaton	See (1/00) et	Time	Seed at .	e Trip tengh Interdews	Trip Control	-	17200-0	Percent New Tilps	157	The state of the s
Tengo, PL	12.0	7/24/30/01	64	34			4.63	52.5	-	Youlde Dive
Tamura Ph.	16.9	Jul-92	58	39			7,38	55.7		Bridge Over
. Fatal San	31.90	2	132		Bets	rugs filts tangific	6.01			
HID	779.0	19			Malabird Res	tago filip Langth	6.08			
Streeted History	810,90				Wei	ehted Percent No	w Tris Average	54.2		

Table C-28

Land Use 912: Drive-in Bank

1000000	Sept.	1000	O STATE OF	Ship! Live	7000 See Said	(T=1000)	Trip Langth	Percent New Trips	3000	2 Marie
Tanton FL	1	min-40	77			17	2.66			Printer claim & Assessment
Terries EL		Mar-86	211				-77-	54.0	-	Binning Horry & Associator
Clearwater FL	0.4	fing-89	113	52		Sa-ter	5.20	46.0		EndMo times
Litegre, PL	2.0	Sep-89	129	94			1.60	73.0		Terdate Oliver
Seminor PL	4.5	Oct-89				-				Terials Oliver
Marian Ca. FL	2.3	Jun-91	69	29		24hr.	3.0	42.0		Statute Oliver
Marion Cx. FL	- 11-	MR TI	47	TI.		24hr.	L75	68.T	-	Fritals Ofer
Alaton Ca. II.	2.1	Jul 11	57	26		-sthm.	1.11	45.6		Southfall Officer
Collins Ex. PL	100	Aug 11	162	56		34br.	0.00	59.3		Earthie Client
Coffee Cat PL		Aug 41	116	34			1.38	46.6		Ferfale Otion
Collier CA RL		A = 1	142	dl.			110	47.8		facilité ditien
fernando Cu. PL	5.4	Ma: #6	154	41		Santai	2.77	24.7		Factoric Otion
Marlon C+, FL	2.4	AH EE	70			24hr.	3.55	54.6		Kimle out E demission
Marion C FL	2.7	Masifel	50		245.65	24hr,	2.64	40.5	265.44	Kilonda - B. As - Late
Total Siz	e 25.2	14	1,407		Ant	nigs Title Length	2.38			
TF.	E 114.0	35	1		Weighted Am	mage Trie Langth:	2.0			
Glanded total	if 139.2 116.7				We	ighted Percent He		46.2 sighted Average Trip Ge	Meration Rate:	246.66

Whigh ted Average Trip Generation Rate: 246.66
ITE Average Trip Generation Rate: 100.35
Ukend of PL Studies and CTE Average Trip Generation Rate: 109.73

Table C-29

Land Use 931: Fine Dining Restaurant

(tocation)	100 (5,000 of	3500	Total if	.# frip Length L doterviews	Trip Gen Rate	Time Period	dp langth	Percent New Trips	AMI	(Sales)
Terrori, PL	-	Mar-86	76	- 13		Town Trees	230	87.0		Kimie -H msociates
SL. Petgramme FL	7.5	Oct-89	177	154		Library 4-be	3 90	87.0		Tindale Oilver
Discount R.	8.0	Oct-69	60		11 63	10a-2477 ftm	2.85	43.0	297.54	Tin In Obver
Total St	20 18.5		3 313		Section 1 Section	rigs Trip Lingth.	2.85			
E7	0.00 BT	16	5		Weighted ave	rige Tite taxath:	8.34	1		
Glanded to	al 105.5				Wei	ighted Percent Ne	nu Trip Average	76 7		
	99.0						W	eighted Average Trip Ge	moration Rate;	110.63
								ITE Average Trip G	eneration Rase:	83.84
						8len	d of FL Studios	and ITE Average Trip @	empration Nate:	86.03

Table C-30

Land Use 932: High-Turnover (Sit-Down) Restaurant

HIII-	unitament)	3800	The state of the s	Marie Control	this parker	ALC: N	William	POSITION NAMED IN	iku	Manual
mereamde Sa fi	4.1	17275	247	175	107.73	Da Ker	276	773	275-20	Tender Steen
Herrando 💷 FL	82	1996	154	10	262.71	to fire	4.15	68.2	251.43	Tingale Sine
r. Fatershies, FL	5.0	17999	74	68	132.60	1130-	2.00	92.0	212.00	Tindale Cliver
lement Dity, PL	5.2	1989	2.01	175	10.0	Art Title	1.0	75 #	339.26	Tierlele Street
Fytein Co. Fl-	TH.	1000	234	10	82.67	Se for	3.71	77	235.81	Tjestally (Mexic
Frien Co. Pl.	5.8	3003	144	107	116.67	State	3.89	34.5	225,77	Theilale Other
Dronger Ea. R.	8.0	199i			125.68					Gringe County
Dronge Ca. Pt.	14.7	1096	-		137.32	-				Orange Counts
Disrigh (Ix. PL	31.2	1000		-	18.76					Grange Courts
Diarran Co. Pt.	7.0	1998			126.40	-				Granus Educate
Distract to R.	4.6	1994			139.11	-	-			Glarge Carrie
Quarter Ele. PL	7.4	1204			147,44					Criego Caurta
tillenge tx, fit.	6.7	1996			82.50					Crarge County
Distrigis Ch. FL.	11.1	\$1000			95.13				-	Charge County
Charge Co, Co.	7.8	1000		-+	94.0x		-			Charge County
things Ck. FL	11.4	2001			93.67					Orange Courts
Orange Ca. FL	11	1001			145 59					Charge County
things to FL	5.3				1111.111		-			Charge County
DIAPPER DI, TL.	11.1			-	62.12					Charge County
Otorus Escht.	10.4				21.71					Oracqui County
thangs to AL	5.9				147.74					Charge Camby
Otones Co. Ri.	8.8	300			13.49				-	Charge County
Change Ca. FL	9.7	2010			105.54					Grango Cooniy
Stronge Cb, Pi	4.5	3834.5	21							Overge Causty
Orlege Es. (1)	16.9	2016			LMD					- Change County
Total Size		25 50				rings Trip langer.	8.87 8.19			
Blended total		30				Inforced Pancont No		70.5		

not New York Average 70.4
Widghted Average Yrip Seneration Bate: 98.67
HT Average Yrip Generation Bate: 107.30
Bleed of Pt. Revilled and HTS Average Trip Generation Rate: 203.46

Table C-31

Land Use 934: Fast Food Restaurant with Drive-Through Window

		1000	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN						
100 Date of 1	All and			90000000000	The resident	HUMBER	W-00-00	棚	25000
	Monda.	41				2,70			NAME AND ADDRESS OF THE PARTY O
	Mar-86	465			10 K-		45.0		Hom & Associates
2.20	Aug th	41	48	907.90	The fire	1.70	59.0	304.31	Tindal # Citiver
6.36	Gro. 84	-194	248	600.60	1 day	2.30	570	955.79	Torists (2000)
	District.	133	114		Fr. Tu	3.60	49.0	-112	Tindaly Char
1.60	Asn-83	80	32	962.50	-Hillion	0.01	53.7	400.04	Terrain Oliver
4.00	Jun-91	73	46	625.03	dDes	1.39	43.1	590.01	Tindale Clier
-	A491	66	44			1.91	66.7		Yindale Giver
	Aug 91	CIR.	40			18.45	43.3		Tindate Otion
1.48	May 96	136	82	311 #1	te-te-	144	40.3	315.27	Heidele Ollver
3.53	May 90	100	127	5.07.31	to ter	1.39	48.8	421.04	Tindale Oliver
8.93	1994	-		V11.00	- 4				Drahai Carry
1.10	Appr D.C.	106	252	934.00		1=	33.6	174247	Tionals Offices
3.20	Ass-DI.	171	JUL	48450			47.8	-	Tindafe Oliver
3.85	April DE	189	432	754.70	-24	1.80	70.8	42616	Statistic Others
286	flat 02	100	45	289.12	Swifts		46.7		Yukotany Oliven
2,16	Nor 33	6035	164	\$15.32	So tian	2.72	33.7	473.92	Tindate Oliver
4.42	/iiir-02	164	136	719.24	Settle .	1.49	71.4	1494.99	Yindale Oherr
1.76	Apr Q1	5.00		649.74	Ta dui	2.12	191	1235.56	Tientale Client
2.40	Apri-07	135		33136	to du	3.14	63.0	1512.25	Tindale Oliver
2.44	Apr 33	316		343.38	70-No.	2.94	77.D	1214.41	Santate Clive
4.47	PMT 27	941		458.17	70 %	3.07	33.8	2544.65	Radal Gloor
60.6	72	4,463				2.11			
213,0	73			Whitehold No.	erser Emp Length	2.52	1		
Z73.8				Wa	ighted Persent He				582.81
	2.20 1.60 4.00 1.53 2.95 1.11 2.20 2.85 2.86 4.47 4.47 0.04 2.30	- Mar 48 - Mar 48 - 2.20 - ag 48 - 5 - 10- 8 -	- Mar 46 11 - Mar 47 11 - Mar	- Mar 45	. Mar-95 at 41	. Mar-45 at 48 var. 40 11. for 45 at 48 var. 40 to 48 var. 40	- Mar 45	. Mar-95 at	. May 45 at

Whigh Led Average Trip Generation Rate: \$2.25.
ITE Average Trip Generation Rate: 467.48
Dignij of PL Studius and ITE Average Trip Generation Eater 401.09

Table C-32

and Use 942: Automobile Care Center

	LINE CONTROL	liste	200	A Maria	Thirtie falls	Barrall	tim targit.	Proced New Tolps	VWT	177
995.5	3.3	34e-93	71	10	\$7.94	\$1.74	1.65	113	7936	Terdals Disser
ndsonvil R	2.3	1/F-5/T0	134	94.		24.50	141	36.0		Tables Olum
military (All Control of Control	1.1	2/3/4/m	10	74		8+50	2.96	47.8		Yindan Crium
table Ti	3.0	271-4/90	137	23		34:54	2,11	66.0	-	Tiver Oliver
Labelier et FL	5.2	The BL	21	14		34/16	1.30	79.0	-	SHOULDING.
Salution of As.		Mar-40	54	- 40		34.49	2.61	78.0		Tindale Oliver
Drampé Cir. FL	25.0	Nov-92	41	. 0	a	2 ter.	-4.II) -			JCI. Inc
One-pe Sti. FL.	36.6				15.17					Change Courtsy
Carries Co. +1	70		-		45.14					Crimin County
Total 5	ian 85.2	- ,	52/9			right firly longth.	2.54			
ľ	TE 102.0	6				etge frie treigth:				
Blanded to					10/6	ightest Percent to	ou Trip Averap	F 72.2		
	151.1						199	dighted Avenue Trip Ge	Agrapios Rate:	22.34

Vidjaherd Avenage Trip Generation Rate: 22,14
ITE Avenage Trip Generation Rate: 33,10
Blood of F. Skoller and ITE Avenage Trip Generation Rate: 30,19

Table C-33

Land Use 944/945: Gasoline/Service Station

No.	Size [1,000 of]	Cate		Top in gell.	Tap Sen Rate	Time Period	Trip teagh	Percent New Trips	VAT	Marie
Steps, ft.	0.6	How #T	70	14		Barn-Span	1.90	23.0		Tradition Closer
Collier Ca. FL		Aug-91	168	40			1.01	23.8		Tindale Oliver
Total Si	e 0.6		2 238		Anti	rags this Langilli.	1,46			
					Weighted Asia	rage Title Langer.	1.00			
							Mile A reserve	92.0		

Table C-34

Land Use 947: Self-Service Car Wash

-	(504 544)	10-	American	a Trip banger	Title See See	The fines	Trip Langth	Percent New Trips	WG	Manne
Johnson, PA	10	Roy RE	111	61		Almöym	2.00	79.0		Trigging (Discon
Stationary C. FL.		Mov.Kit	177	658		Albert-Sairti	5.30	41.0	_	Table Dist
Salter Co. N.	11	Sec-66	304		30.24		2.50	57.0		Tindate Oliver
Sumper CA. R.		Tes 68	186	-	22.75		2.7%	72.9		Trivite Other
Total Size	29		§ 778		Aut	regel frie langth:	5.90			
Total Size (TOR)	19		2		Weighted Ace	rege Trip Langth:	3.16	1.		
ITE	5	:	L .		Wel	ghted Percent No	w Trip Average:	67.7		
Elended total	24						We	ighted Average Trip Ger	peration Rate:	27.09
								ITE Avertage Trip Ge	meration (tale)	10R.00
						Ofen	and to Conduct	and ITE Averege Trip Ge	states History	43.94

Table C-35

Land Use N/A: Gasoline/Fast Food/Convenience Store

(1)))	(Fin (Among)	160	Total #	# Trip langly Interviews	Trip Gen Rute	Time Period	Trập Langth	Percent New Trips	000	10000
Volusia Ca 19					\$18.00		2.40	13.0	727.06	Ender Oten
indian River Co, FL	2.5	Mar-98	132	52	748.30	Ba-tigr	3.70	19.7	.543.64	Youtube Other
Indian River Co. PL	3.0	Mar-98	107	81	563.10	80-601	2.00	39.3	412 60	Titubala Ottoer
Indian River Co. FL	31	Mar-98	132	110	1.396.00	Ra-tu:	1.80	41.7	1317.65	Redde Otres
Collier FL	2.4	Nov-99		128	209.58	Ba-Cirr	4.10	13.3	MX.18	Kedde Ohm
Collier III. FL	3.3	Nov-99		144	862.56	82-54	2.30	39.6	251.96	Treated Officer
Total Su	e 14.3	6	371		Non	regis Tria Sampthi	8.70			ale de
					Weighood Ann	rage frip tangific	7.11	3		
					Wal	shred Percent No	w Trio Average	12.1		

Appendix D Multi-Modal Transportation Impact Fee: Cost Component

Appendix D: MMTIF - Cost Component

This appendix presents the detailed calculations for the cost component of the multi-modal transportation impact fee update. Supporting data and estimates are provided for all cost variables, including:

- Design
- Right-of-Way
- Construction
- Construction Engineering & Inspection
- Roadway Capacity
- Transit Capital Costs

It should be noted that the cost estimates developed for this impact fee study reflect a large sample size from several communities for projects bid/completed since 2013. When compared to the smaller sample of improvements observed over the last two to three years, the data and estimates used in this study represent a conservative approach.

Curb & Gutter vs. Open Drainage

To determine the weighted average cost per lane mile for open drainage designed roadways, an adjustment factor was applied to the curb & gutter cost estimate. This factor was based on the design cost ratio from the most recent District 7 Long Range Estimates (LRE) provided by FDOT. Based on the LRE, the cost for open drainage-design roadway capacity expansion (new road construction or lane addition) is approximately 76 percent of the cost of curb & gutter-design roadway improvements.

Table D-1
Curb & Gutter vs. Open Drainage Design Cost Factor

	Constructi	ion Cost per Lane M	ile
Improvement	Open Drainage Rural Design	Curb & Gutter Urban Design	Ratio
0-2 Lanes	\$4,154,560	\$6,452,541	64%
0-4 Lanes	\$3,436,336	\$4,522,773	76%
0-6 Lanes	\$2,908,194	\$3,656,522	80%
2-4 Lanes	\$4,672,853	\$5,700,393	82%
4-6 Lanes	\$5,076,988	\$6,269,771	81%
Average	\$4,049,786	\$5,320,400	76%

Source: FDOT District 7 Long Range Estimates, 2021

Design

County Roadways

The design cost factor for county roads was estimated as a percentage of the construction cost per lane mile. This factor was determined based on a review of design-to-construction cost ratios from previously completed transportation impact fee studies throughout Florida. As shown in Table D-2, recent design factors ranged from 10 percent to 13 percent with a weighted average of 11 percent. For purposes of this study, the design cost for county roads was calculated at 11 percent of the construction cost per lane mile.

State Roadways

Similarly, the design cost factor for state roads was estimated as a percentage of the construction cost per lane mile. This factor was determined based on a review of design-to-construction cost ratios from previously completed roads/transportation impact fee studies throughout Florida. As shown in Table D-2, recent design factors ranged from 10 percent to 11 percent with a weighted average of 11 percent. For purposes of this study, the design cost for state roads was calculated at 11 percent of the construction cost per lane mile.

Table D-2

Design Cost Factor for County and State Roads – Recent Impact Fee Studies

Year	Country	County Road	ways (Cost per	Lane (Mile)	State Roady	vays (Cost per L	ane Mile)
rear	County	Design	Constr.	Design Ratio	Design	Constr.	Design Ratio
2013	Hernando	\$198,000	\$1,980,000	10%	\$222,640	\$2,024,000	1156
2013	Charlotte	\$220,000	\$2,200,000	10%	\$240,000	\$2,400,000	10%
2014	Indian River	\$159,000	\$1,598,000	10%	\$196,000	\$1,776,000	11%
2015	Collier	\$270,000	\$2,700,000	10%	\$270,000	\$2,700,000	10%
2015	Brevard	\$242,000	\$2,023,000	12%	\$316,000	\$2,875,000	11%
2015	Sumter	\$210,000	\$2,100,000	10%	\$276,000	\$2,505,000	11%
2015	Marion	\$167,000	\$1,658,000	10%	\$227,000	\$2,060,000	11%
2015	Palm Beach	\$224,000	\$1,759,000	13%	\$333,000	\$3,029,000	11%
2016	Hillsborough	\$348,000	\$2,897,000	12%	\$319,000	\$2,897,000	11%
2017	St. Lucie	\$220,000	\$2,200,000	10%	\$341,000	\$3,100,000	11%
2017	Clay	\$239,000	\$2,385,000	10%		-	n/a
2018	Collier	\$385,000	\$3,500,000	11%	\$385,000	\$3,500,000	11%
	Average	\$240,167	\$2,250,833	.11%	\$288,553	\$2,660,500	11%

Source: Recent impact fee studies conducted throughout Florida

Right-of-Way

The ROW cost reflects the total cost of the acquisitions along a corridor that are necessary to have sufficient cross-section width to widen an existing road or, in the case of new construction, build a new road.

County Roadways

Given the limited data for ROW costs on county roads in Hernando County, the ROW-to-construction ratio was based on several recently completed transportation impact fee studies throughout Florida. As shown in Table D-3, ratios for county roads ranged from 32 percent to 60 with an average of 42 percent. For purposes of this update study, the ROW cost was estimated at 40 percent of the construction cost per lane mile for county roadways.

State Roadways

Similar to county roads, the ROW-to-construction ratio for state roads was based on several recently completed transportation impact fee studies throughout Florida. As shown in Table D-3, ratios for state roads ranged from 32 percent to 60 percent with an average of 43 percent. For purposes of this update study, the ROW cost was estimated at 40 percent of the construction cost per lane mile for state roadways.

Table D-3

Right-of-Way Cost Factor for County and State Roads — Recent Impact Fee Studies

Veiir	Session of the	County Road	ways (Cost per I	ane Mile)	State Read	vays (Cost per La	ine Mile)
M.SIII	County	ROW	Constr.	ROW Ratio	ROW	Constr.	ROW Ratio
2013	Hernando	\$811,800	\$1,980,000	41%	\$890,560	52,024,000	449
2013	Chariotte	51,034,000	\$2,200,000	47%	\$1,128,000	\$2,400,000	47%
2014	Indian River	\$656,000	\$1,598,000	41%	\$781,000	\$1,776,000	44%
2015	Collier	\$863,000	\$2,700,000	32%	\$863,000	\$2,700,000	32%
2015	Brevard	\$708,000	\$2,023,000	35%	\$1,005,000	\$2,785,000	36%
2015	Sumter	\$945,000	\$2,100,000	45%	\$1,127,000	\$2,505,000	45%
2015	Marion	\$1,001,000	\$1,668,000	60%	\$1,236,000	\$2,060,000	60%
2015	Palm Beach	\$721,000	\$1,759,000	41%	\$1,333,000	\$3,029,000	44%
2016	Hillsborough	\$1,448,000	\$2,897,000	50%	\$1,448,000	\$2,897,000	50%
2017	St. Lucie	\$990,000	\$2,200,000	45%	\$1,395,000	\$3,100,000	45%
2017	Clay	\$954,000	\$2,385,000	40%	-	24	n/a
2018	Collier	\$1,208,000	\$3,500,000	35%	\$1,208,000	\$3,500,000	35%
	Average	\$944,983	\$2,250,833	42%	\$1,128,687	\$2,616,000	43%

Source: Recent impact fee studies conducted throughout Florida

Construction

County Roadways

A review of construction cost data for local county roadway capacity expansion projects included two improvements provided by Hernando County. These improvements include a recently bid improvement and an estimate for future consideration:

- Cortez Blvd Frontage Rd @ I-75
- Barclay Avenue from San Antonio Road to Powell Rd/Elgin Blvd

The Cortez Blvd improvement includes a curb & gutter design with a construction cost of \$1.67 million per lane mile, which reflects the lower costs associated with frontage roads. The Barclay Avenue project features an open drainage design with a construction cost estimate of \$2.73 million per lane mile. These local projects were supplemented with recent improvements from other communities in Florida to increase the sample size in estimating the construction cost for impact fee purposes.

Curb & Gutter Design

As shown in Table D-4, this review included approximately 155 lane miles of improvements across 13 different counties (including Hernando County). These improvements were summarized based on the county land use and demographic characteristics (urban vs suburban/rural in nature). For purposes of this analysis, Hernando County was considered a "suburban/rural" county with urban counties consisting of Broward, Hillsborough, Miami-Dade, Orange, and Palm Beach Counties. The suburban/rural counties experienced a weighted average cost of \$2.80

million (excluding Hernando County), or \$2.78 million (including Hernando County), for curb & gutter improvements.

Based on a review of the local projects, statewide projects, and discussions with County representatives, a construction cost of \$2.80 million per lane mile for county roads (curb & gutter) was utilized for the roads impact fee calculation.

Open Drainage Design

As shown in Table D-5, this review included approximately 7.60 Iane miles of Improvements, one project from Hernando County and one project from Sarasota County. As previously mentioned, the Hernando County project had an estimated construction cost of \$2.73 million per lane mile, while the Sarasota improvement had a construction cost of \$2.17 million per lane mile. Combined, these improvements averaged approximately \$2.34 million per lane mile. Due to this small sample size, the construction cost per lane mile estimate for open drainage improvements was based on the FDOT LRE ratio presented in Table D-1. This ratio (76 percent) was applied to the estimated construction cost of curb & gutter projects, which resulted is a construction cost estimate of \$2.13 million per lane mile for open drainage county projects.

Table D-4

Construction Cost -- County Bond Incorporates from Harmando County and Other Autofictions throughout Florida (Carl & Gotter Deticn)

W-70	0.50		V.Signati	Ti-	100	To illin	feather	h-ii	(Inga)	Mille	No.		Spirit William
ORBANI CHURCH	m, dark sind flame	ti.											
25tgr	littee	5	Nouse Ital	Late Underhill Rd	N= 39.	2013	2 to =	Sintra	1.55	2	1.10	51,582,696	\$4,449,16
Fride:	Turine	-11	Substitute to	Contrament Rd	Electronia Tr	300	116-9	Urbss	n.ax	2	1.36	\$4,171,000	54,617,280
wit-borosy*	Urben	7	Brace II, Downs Not Sep Set	Polin tunings Bled	Publife Creak (II)	300	4108	Circhian	134	- 4	TEAC	\$51,001,3356	SUBLIF
Diange :	Little	- 1	CR RES TALL F	Comment Rd	Pennik Ed	3014	316.4	Urhun	0.60		1.00	\$1,711,746	11.710.79
SHILLIE THE P	Urban	-	Septito Rd, Fb. III	Chemptoni Dr	Bull Shouls No.	3814	J 10 4	Litter	1000	1	1300	\$25,230,666	16,000,00
>ungu	Urbso	- 5	secondocal Or	Waterman Blod	Westment Blod	20:15	4108	Urbss	2.211	2	4,40	\$14,775,375	93,013,09
Norge .	Apresia.	- 5	Swarm Rd	Oriena / Areg	Veborfield Ava	2017	2.56 4	Urlan	0.35	2	0.72	\$1,407,584	\$4,719,33
Nongo .	Lifthan .	1	Destinance Phon ST(2A)	Traditional West	Late Can	1017	J to 4	Urlun	0,76	1.	134	\$4,710,403	24,410,41
Misbonier	Urban	7	Stinue E. Davido Blad. Sep. A	Servic App	Pulse Lavings Was	38117	4 to 8	Ditter	2.54	- 4	14.24	145,00,000	\$2,000,11
Who wish	Urban	7	Store B. Dowes Wed Sec. D	Publish Creak Dr	Pates Co, time	2018	496.8	Urbsa	1.36	- 4	5.44	\$17,750,776	11,751.71
States -	Unive	5	Holden Asa	take Young Phon	Demon Tr	2016	76/2 to 0	Urban	1,24	2/4	5.340	316,796,721	\$3,373,01
Projection	Urban	3	Barry Come Rd N	Suiteth Access Rd	Amiliarias Nd	2019	2 to 4	Utles	1.34	- 1	138	\$8,585,274	\$1,517.81
Tetral (2013-2	Haw, Urban Count	Jee OHLY							Countr	12	35.24	\$363,356,956	55,642.00
	A Carb and Surrey				1.11.000.11			- 111 m			< T300	- 17711ADE	77,6,617
trained.	Ourse.	3	Mileson St	S. of Famountaine Park Blod.	Militarie: 84	9055	2 to 4	1 Vehic	11:40	1	24.80	214,456,000	\$2,758,99
aller	Bord	-1	Earthur Bled (ER YET)	Golden Gate IIIvil	River Dvd	2013	4 to 6	Lirban	AND	2	8.99	517,172,940	\$4,280 Ak
Sime .	Barel	- 5	BW 130th St	un 41.	him 200th Ave	2011	214.1	Urbas	0.11	2	0.22	5124,165	\$1,000.50
Anne	Aug/	- 5	WW/ 35th St	WW Park Sciences But	Num 27th Aver	2015	0164	Urben	0.50	- 4			41.00
14Hbb	Harris	- 1	NOV INVESTIGATION	PPW Z Phih Work	55.40	3003	2 to 4	Urban	1.70	- 1	4,60	. 19.416.236	\$1,873,08
-mer	Rural	5	E-ALLE Ph. DI	1/1 201 N	Powell fld	2013	2 to ##	stron	1.30	- 1	7.29	60,760,000	51,947.30
Siffer	Ruce	1	Debter Dans their	What No	Delato Blod	2014	2 to 4	Melini	1.40	- 3	4.30	316,003,334	50,000,00
tried.	Bural	3	III Johns Hadit van Prom	DE of hits terromothic	Hill 101 House Coult Proof	2010	0 t= 2	Surb-Urb	3.21	- 2	4.72	Da. 94.547	57,305,30
or profess	Name		Book Higgs Riv	Billians See Bird	Puna AE	301.4	2 to 4	Lirben	2.00	2	3.36	144,096,519	51,421,35
it. Lucie	Rural	- 4	W. Most-and Aut (COM 7 a 27	Defeit Bd	South 25th	2014	2 to 4	170000	1.00	- 1 -	1/6	\$4,194,000	551173.00
ala	Bural	1	N. Personal Rd Est.	134 30	Gatesman Dr	2014	40 0 4	Dittan	1.00	3/4	3.09	\$4,000,516	81,697,31
huli	Rucel	1	LI 655 & CR 559A	Page Rd & N of CR \$55A	H of CA SESA & SIL HILL	1014	2164	Urber	2.80	2	1.00	130,702,130	\$5,075,68
ANGLES .	Rural	5	Rowland Blvd	Courtland Blod	26, of 28 82.5	2013	2 to 4	Urban	2.00	2	1.10	(11),110,1100	\$3,670,78
100	Furs	1	Design Calculate Street	Struction To	166.23294	2015	Dia ii	Limber.	2.44	4	5.64	(19,515,36)	\$3,000,00
Wheles	Razel	5	LPGA Hird	Ann Informations	Dereushira Rd	2016	Lind	Urhan	(Clat	1	1.30		12,761.40
Lucia	Barel	4	IN Address Bd (CX 712)	TW. of South 20th St	B of 55, 5 (1/4 x)	2010	1 to 4	Urbse	2.77	2	1.54	\$34,405,700	\$4,012,00
theret:	Rurel	- 5	#16/04 35th W. Ph. Le	hin est	E. of Waterbaley Ed	2015	2 to 4	Urban	0.30		1.00		1/,116.47
Blv18	Rural	- 1	removaled filed	Francisco Blvd	Elicones Word	2017	£ 10 4	When	1111	-1-	4.31		\$1,331.25
The state of	Burnl	- 5	Gravar Coma Rd	Ind.a Blod	14 in Datend	200	I to 4	Urban	9,75	2	3.50		34,818,00
26.5	Part	- 5	CR HELL Ph. the	Planetta Aux	Century Aur.	2015	244	Uthur	0.42	2	9.84		\$8,945,79
er .	Rural	1	Avanta	New 26th Goldfas Prints	E. of Arment Hard Rd	2018	294	Living.	1.81	2	5.54		35/074,75
ALC: U	Burd	- 1	Sometest III	5 of Sendan Blvd	Att. of Alabama Rd	2018	21a 4	Lisban	2.25	2	5.60	*	35,120,42
morande	Hura		Corner Word Frontings But # 1.7%	The state of the s	The state of the s	20.10	9 to 2	L. Michigan	184	- 2	1.24		\$3,689,07
	MALEN Pariel Course	ber Differ	THE REAL PROPERTY.	-		-		-	Liberry	23	99.54		12,784,34
			Coloding Harmando Caustra						Cest	Tr.	30.40		E1,798,34

Source: Data obtained from each respective county (Building and Public Works Departments)

Benesch September 2022 City of Brooksville Impact Fee Study

Table D-5
Construction Cost — <u>County</u> Road improvements from Hemando County and Other Jurisdictions throughout Florida (Open Drainage Design)

Course	2012744	Paper	Manager	1000	7.0	. 198	teter	Diego.	140000	Acres .	The second	Continuition Cost	per Lane blid
Author Greating	S. Opros Doublings	-	Secretary of the second	TO ARE	Laure M.	1 277	45.5		10000	-	100	ATTENDED TO	the second
-	Manual	1	Barolog Area	San America Ad	Proved Ad/Ergin West	2003	The A	Rural	1.10	1	336	\$41,050,000	\$2,777,37
	Hard Courses	THE	- September 2	- 42111 31112	The state of the s			11.	Count	3	146	\$17,000,050	\$1,114,83

Bound Data abhieved Four each respective county (Building and Public Works Dynastyneric)

State Roadways

A review of construction cost data for recent state (and other roads built by FDOT) roadway capacity expansion projects identified three (3) improvements in Hernando County:

- SR 50 from Windmere Road to E. of US 301 (curb & gutter)
- CR 578 (County Line Road) from Suncoast Pkwy to US 41 @ Ayers Road (curb & gutter)
- CR 578 (County Line Road) from Springtime St to E. of Mariner Blvd (open drainage)

For the curb & gutter projects, these improvements range from \$3.18 million per lane mile to \$4.72 million per lane mile with a weighted average cost of \$4.25 million per lane mile. For the open drainage improvement, the construction cost is approximately \$6.28 million per lane mile, which is based on a very short segment with a high cost figure. It should be noted that the costs for both CR 578 improvements include the associated shared-use paths.

Curb & Gutter Design

In addition to the two local Improvements (curb & gutter), a review of recently bid projects located throughout Florida identified 60 curb & gutter improvements from 30 different counties (see Table D-6). These improvements were then grouped into "urban" and "suburban/rural" counties, with the urban counties including Broward, Hillsborough, Miami-Dade, Orange, and Palm Beach Counties. The suburban/rural counties (excluding Hernando County) experienced a weighted average construction cost of approximately \$3.97 million per lane mile. Based on a review of the local projects, statewide projects, and discussions with County representatives, a construction of \$4.20 million per lane mile for state roads (curb & gutter) was utilized for the roads impact fee calculation, which reflects local cost factors in Hernando County and the inclusion of certain amenities, such as shared-use paths.

Open Drainage Design

In addition to the local improvement (open drainage), a review of recently bid projects located throughout the state of Florida identified 15 open drainage improvements from 8 different counties. These improvements were then grouped into "urban" and "suburban/rural" counties, with Hernando County being considered a "suburban/rural" county. The open drainage improvements for urban counties averaged \$3.73 million per lane mile, and the suburban/rural counties averaged \$2.21 million per lane mile (excluding Hernando County). Due to the small sample size and high variation of the open drainage improvement costs, the construction cost for these improvements was calculated based on the roadway design cost ratio estimates obtained from the FDOT District 7 LRE (76 percent of curb & gutter project cost, see Table D-1). Applying

this 76-percent ratio resulted open drainage projects.	in a construction	cost estimate of	\$3.19 million	oer lane mile f or

Tebie D-6

Construction Cost - <u>State</u> Road Improvements (and Other Roads Built by FDOT) from Hernando County and Other Jurisdictions throughout Florida (Curb & Gutter Design)

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HMM Garest	ns, Contract Calls					_							
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mane	Other	4	(8.7 8/6 641)	It's at Haltamatic books	the set fiftherman by	3000	4441	Urbas	1.7%	1	3.50	\$30,670,873	58,568,7
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cores	hates	- 1	104 SA	14 ACT Discourse Bellinish	E. of West Only Mail	5014	410+	Orham	236	1	3.17	\$94,075,000	50 484.9
targe	A los	- 5	ne 15 mai - Rdi	ter York Bod	Corner M	300	2 114	Addison.	100	1	2-4	537,049,490	54.861.4
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torser.	Stitue	-	38 AFF Bloke Strong Strong	Na St. (Carpenal Dry	Thinks to	3117	430.6	litte	235	1	4.1%	\$27,752.00	15,494.6
and bearing	urline	-	119 60	No of Jam Smarty Safari Be.	Formst 800 Mod	3018	+165	Senan	2.30	1	11.49		12,117,1
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NAME .	Urban	- 0	DE 434 Blustand Birth	1 914	E. of CR 427 In williand	100	ANE	Other.	18		2.76	77, 04,359	\$2,567,1
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Benesch Suptember 2022 City of Brooksville Impact Fee Study

Table D-6 (continued)

Construction Cost - State Road Improvements (and Other Roads Built by FDOT) from Hernando County and Other Jurisdictions throughout Florida (Curb & Gutter Design), continued

SHITT	Transite In	Diene	Francisco.	No.		1	THEFT	10000	10500	100	7/1	December 1	
BURNEL EDWARD	is, Continued States						_		_				
Batalens.	Disease	1	\$4.80.6m.96	IC#: ROF, Likesproper, Polity	K. of Wattake Co. Long	2017	4169	When	141	2	7.39	E25,315,314	24,127,70
Nic :	District	1.	ER 345-TSC Address West	to of the land state on the	TRANS BAY	1012	Lut	Miles	1.11		3.17	\$15,546,739	\$2,735.40
Pylost	Need	1	16.74	E. of CR 577 -rim hat	S. of Ch 5.79 (Markis Budge Rd)	2017	116.6/W	30.644	430	24	5.1.60	641,344,317	83 934 27
Ne	Retti	1.7	39 46 535 4415	# af s# 100	E. of liewed Later Rd	1017	1145	All back	433	- 4	# 92	\$27,877,972	61.341.11
material .	twist	1	or 300 per 3%	N. of 1# 247	Note Co. New	2001	1164	Urban	2.24	2	441	651.640.688	65.992.54
to harrie	Rueti	4	98 Ps.3-Blimpt Hood	1. of = 70	100 to 11 the Chargonia	2016	1104	All fram	1.41	2	5.84	\$45,561,011	20.632.64
finnis	#wraf	7	H SS cm m	W. Mes Ci	CR 44 Fort Island Til	2516	1225	Urban	4.91	2	9.62	\$50,440,444	15,161,70
lar 14	Rural	1	# 45A n = 41 +	Conter Rd	Gulf (and 6hd	2018	+1155	Urban	1.19	2	2.16	\$13,600,000	35,893,68
tion to	itural	- 5	38.46	Crange Bird	N. St. Mya Section 78	2319	+116	Urbas	1.30	3	2.60	117.540.500	16,8425
Francis .	Rurat	2	in Notional Cemete Access Rd	Lening Rd	Arnglid Rd	2016	8117	Urbas	3.25	2	6.52	\$11,101,171	31.79030
Faring.	Rural	7	16.52	W of Suncosst Phys.	E. of this district 41/	2019	. +116	Urbas	4.64	2	9.28	\$45,305,433	14.002.00
Remards 1.	Rurel	7	SESSEMENT SITE SITE	Seinconit Phon	US 40 at Average to	701.9	244	10/Nae	248	- (8.98	\$20,250,300	£3.301,764
beinnet	Recol	7	08 DB	Mindrens Nd	W AT UP SEE	2019	+=6	tota/Wiles	C.146	12 5 11	11:20	\$14,716,220	44,000.00
Pyrinterin	Kural	2	1/ 20	Martin Marine Co. Une	SW SGts Ave	2019	2104	Orban	6.95	2	13.90	HILLIAN 778	11.7902
Refer	Heret	3	rain 200 (b). Anthomic silve)	(NE MA (275-4 31)	E at CE 3112 Haldwin Ivil	20.10	2105	Urbae	147		9.68	340.710.417	\$4,121.00
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Young port &	POTT, Hamanes L	CHES	7						Devet	2	67.36	2012/01/22	\$4,947,79
Trend (Mild.)	TOTAL Revel Count	des tirer, s	scuding Numerote Seattle						Times	46	245.59	3479,563,614	11/54/20

Source: Ploside Department of Transportation Contracts Administration Construent, Six Tabulations

Table D-7

Construction Cost - State Road Improvements (and Other Roads Built by FDOT) from Hernando County and Other Jurisdictions throughout Florida (Open Drainage Design)

- American	544	Firm	franço-	A.	No.	hile	10700	nn-	1970	War	Language and	Demonstration and	Earthaller Co.
THE REAL PROPERTY.	at the bridge	1								-			
the Balls	Itribes .	- 6	NA OUT Dispose Appl	to the model in .	D. Helic H. of Albi In.	2018	169	Relat	9.21	2	11.14	255,366,057	\$4,03,66
Miles Hady	Militaria	- 6	M. MT (Grane Ave)	107.8.333	H4F 18.846	2011	114.4	Ratel	179	- 2	3.36	447,715,716	\$1,15,111
Litario Bade	Hittari .	- 6	DE RET (Acade Ave)	MF 8.111	107.4.101	1015	1144	Rosel	101	- 2	626	\$18,300,579	\$2,175,126
Utam Batu	Urba	- 6	28 661	Had SW BID to	NAT 2.112	2018	1+4	Reset	110	2	430	129/215 545	10.747.120
Triage Davis	Urben	- 6	38 982/kirms-Assulttil/ 177th in-e	MP (CEE)	MP 14 184000 entitation #d	100%	2 to 4	Rural	1.10		8,311	115.415.235	12.811.121
thum-Rees	Urban	- 6	987 Marrie April 9W 177th April	5 of SW 23rd St	S of SW 196th St. He word	2013	2 to 4	Russ	6.28	2	12 10	135,377,003	\$2,884.81
Total (mis-	Will Urban Count	ins ONLY							Count:	6	46.01	BUTCHWOLLD	81,111,993
MURRIL EXPLINE	rs. Com Drawings											10597.0759	
Cesma	Rural	1	HEALTH SE	SW Collins St	5. of CR 760A	2013	2 to 4	Russ	4m	2	1201	612.213.440	\$1,838,809
Marion.	Roral		36.40	CR 328	THE SERVICE 225A	2014	2 to 4	Rural	4.04	2	8111	\$12.3D4.444	14 171 101
Outtoo	Rurel	3	1M 223	M of York Cives	Nof Territy Com	301=	2 to 4	Parral	1.57	- 1	1.14	111.545.016	£1514.7YL
Okahutus	Rural	3	M 123	N of Father Creek	SR 85 H	2914	2 to 4	Rural	2.89	2	5,7	HEGGSWI	11.014.479
lanta Rosa	filed	3	ii D	Air Force Base Soun	2 miles 5. of Yellow River By	2015	2 to 4	Rural	5.43	2	10.86	144.4(1.4%)	\$1,653,
lanta Rosa	Rural	3	11.87	2 MI S of Yellow River	CR 184	2015	2 to 4	Renal	3.26	2	6.14	60,34443	17 +17 931
Marries.	fymi	1.	W 20 60 10	Zerotos Cituata Line:	EX 234 Surements 544	2018	2104	Rural	448	2.	9,76	219.700.00	barron
PROFIT .	Bergi	1	17.80	District Lance	23.10	2012	I 16.5	Band	11.39	1	22.00	140.042.462	\$2,03,116
Historian .	Philpi		CH 678 Ecoupy Line toll	Sergigions 32	IX of bincons Shut	2017	210.6	Bariel	947	12	.1.34	30,416,444	\$6,678,616
Sec.	Num		59 306	ase in	If or tooy fine one Bearing but, a few rt.	3010	1114	Rural	191	- 2	7.61	544,996,856	\$5,245.641
Total good-	20076 Revel Counti	HIS CHILY		41111	arkin a secondary		1111111	-	Count:	10	87 41	5196,400,410	53,010.00
Total circus	1011 Hernando G	Marry Drie	1						Countd	- 1	1.34	\$5,415,444	\$4,379,436
Total (dick)	1011 Rural Countl	BE ONCE, I	mining Hessando County						Count	9	86.49	D18(29).003	57,794,793

Source: Florida Department of Transportation Contracts Administration Department, Bid Tabulations

Benesch City of Brooksville September 2022 D-I1 Impact Fee Study

Construction Engineering/Inspection

County Roadways

The CEI cost factor for county roads was estimated as a percentage of the construction cost per lane mile. This factor was determined based on a review of CEI-to-construction cost ratios from previously completed roads/transportation impact fee studies throughout Florida. As shown in Table D-8, recent CEI factors ranged from 3 percent to 17 percent with a weighted average of 9 percent. For purposes of this study, the CEI cost for county roads was calculated at 9 percent of the construction cost per lane mile.

State Roadways

The CEI cost factor for state roads was estimated as a percentage of the construction cost per lane mile. This factor was determined based on a review of CEI-to-construction cost ratios from previously completed roads/transportation impact fee studies throughout Florida. As shown in Table D-8, recent CEI factors ranged from 10 percent to 11 percent with a weighted average of 11 percent. For purposes of this study, the CEI cost for state roads was calculated at 11 percent of the construction cost per lane mile.

Table D-8

CEI Cost Factor for County and State Roads — Recent Impact Fee Studies

		County Road	ways (Cost per L	arie (Mile)	State Roads	ways (Cost per La	ne Mile)
Year	County	CEI	Constr	CEI Rutio	CEL	Constr-	CEI Ratio
2013	Hernando	\$178,200	51,980,000	9%	\$222,640	\$2,024,000	1196
2013	Charlotte	\$220,000	\$2,200,000	10%	\$240,000	52,400,000	10%
2014	Indian River	\$143,000	51,598,000	9%	\$196,000	\$1,776,000	11%
2015	Collier	\$270,000	\$2,700,000	10%	\$270,000	\$2,700,000	10%
2015	Brevard	\$344,000	\$2,023,000	17%	\$316,000	\$2,875,000	1196
2015	Sumter	\$147,000	\$2,100,000	7%	\$250,000	\$2,505,000	10%
2015	Marion	\$50,000	\$1,668,000	3%	\$227,000	\$2,060,000	119
2015	Palm Beach	\$108,000	\$1,759,000	6%	\$333,000	\$3,029,000	119
2016	Hillsborough	\$261,000	\$2,897,000	9%	\$319,000	\$2,897,000	119
2017	St. Lucie	\$198,000	\$2,200,000	9%	\$341,000	\$3,100,000	119
2017	Clay	\$191,000	\$2,385,000	8%	3	-	n/a
2018	Collier	\$315,000	\$3,500,000	9%	\$385,000	\$3,500,000	119
	Average	\$202,100	\$2,250,833	996	\$3,099,640	\$28,866,000	119

Source: Recent impact fee studies conducted throughout Florida

Roadway Capacity

As shown in Table D-9, the average capacity per lane miles was based on the projects in the Hernando-Citrus MPO's 2045 Long Range Transportation Plan (Cost Feasible Plan). The listing of projects reflects the mix of improvements that will yield the vehicle-miles of capacity (VMC) that will be built in Hernando County. The resulting weighted average capacity per lane mile of approximately 11,200 was used in the roads impact fee calculation. Based on discussions with Hernando County representatives, the planned improvements will primarily feature an "uninterrupted flow" roadway classification, resulting in a higher VMC per lane mile of improvement than many other jurisdictions in Florida.

Table D-9 Harmando County Planned Improvements - tong Range Transportation Pian

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Figure Blod
Cortex Blod (LP 10) m Rd Sanstrakifia (bud. Signi (bud. Signi (bud. 3/75 3/33 120 15.50 15,600 10,000 15,400 34,400 35,200 HAI 1.15 1.55 1.07 1.07 1.07 1.07 1.07 1.07 CHAPIN 11.40E 24.10E 24.20E 1166 H.102 11,662 4,162 Danger Winnerpacker Rd What hime Are to Etain 0.7 Grove Tull
Grove Tull Tto 2 in the Stooler Age
Fig. Rd Eat.

Spring The Rd Eat. 00 00 00 01 015 016 ted St Albert Groot Rd () 뺊 34,30% 71,49 (1,69 (1,19 (1,19 35,43 Ownth: 31.15 31.35 31.35 4,547 H Suncount Play It It Emp to 2 Lunes Onurity 1.00 1.30 2.76 1.72 0.12 ie 2 Lane 13,680 17,700 19,800 34,800 24,800 DURS 00 00 00 2 to 4 Lanes 15.831 23,200 33.71 Ziephts: 11 pm #1.00 41.00 41.00 277 17 (%) ***** SECTION 104 Auers fol State - man to & Lanes HIP BUILDING 41.EU Cute Rd 3.44 10.02 7.36 0.72 ong Na Secu Da Laire Hop (A.S. SH/AA Tille 133 authy. CHIE 00 00 #1,800 #1,700 #1,700 14,101 with Rd MITN stran Bivil IVS BV1/58 PS-14.86 10.15 mate. Little Course Disc Local Labora. 11,500 15,700 17,700 17,700 Cartot Rd N Seminary Phase 154 5405 Servand Se park of Little, 154 Sate Sate 4 = 6 | ines. 0.16 00 acted Rd officians to ASA today acted Rd one Landung Rd 1,554 254 7,510 I to 4 Lanes. 15.61 22 00 00 Hita Yorke Rd ... 77,30 23,40 23,40 Coupt 120 tary file. 175 Turny file. 75 to 2 seems 628 inime fid 1,44 00 00 00 metti-34.43 31.65 31.65 11.93

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1191 1491 2-37 7-07 2-07 2-07 8-76

CRIS - Club & Guthar (Urban Design), OS - Open Brahago (Runsi Design)
 Source: Hermando-Choa MAPO Long Barger Transportation Plan, Cost Possible Plan. (representant in Hernando County only

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City of Brooksville Impact Fee Study

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Transit Capital Costs

In the case of multi-modal fees, the marginal cost of adding transit infrastructure needs to be considered. This section details the difference in cost per person-mile of capacity between expanding a roadway without transit amenities versus expanding a roadway with transit amenities. This calculation also accounts for the change in roadway PMC that occurs when a bus is on the road.

First, Table D-10 calculates the person-miles of capacity added for each new transit vehicle on the road. This calculation adjusts for the fact that buses have a significantly higher person-capacity than passenger vehicles. This table also identifies transit capital cost variables that will be used to calculate the added capital cost of constructing/expanding a roadway with transit facilities.

Next, Table D-11 combines the roadway VMC and the transit PMC to calculate the marginal change in cost per PMC. First, the roadway characteristics, including cost and capacity, were used to calculate the roadway cost per VMC for a generic 24-mile roadway segment. Then, an adjustment factor was applied to recognize that incorporating transit along a segment of roadway decreases the vehicle-capacity as the bus makes intermittent stops and interrupts the free-flowing traffic. As shown in Table D-11, the bus blockage adjustment factor is much higher for a 2-lane roadway than for a 4-lane roadway. On a 2-lane road, all cars get caught behind the bus during a stop, while on a 4-lane roadway, there is an unobstructed travel lane that cars can use to pass-by or maneuver around the slower transit vehicle. This adjusted VMC was then converted to PMC using the vehicle-miles to person-miles adjustment factor previously discussed in this report. The additional person-capacity from the buses was added to the adjusted roadway PMC. The person-miles of capacity that a transit system would add to the stretch of roadway (Table D-10) mitigates the decrease in vehicle-miles of capacity due to the bus blockage adjustments.

Next, the capital cost of transit infrastructure was added to the capital cost of the roadway expansion for both new road construction (0 to 2 lanes) and lane addition (2 to 4 lanes). With the transit infrastructure included, the updated cost per PMC was calculated, which now reflects the total cost of building a new road with transit or expanding a roadway and adding transit amenities. When compared to the cost per PMC for simply building/expanding a roadway without transit, the added cost of transit is between two (2) percent and five (5) percent.

As a final step, the increased costs were then weighted by the lane mile distribution of new road construction and lane addition improvements in the Hernando-Citrus MPO's 2045 Long Range Transportation Plan; Cost Feasible Plan. As shown, the plan calls for a higher number of lane addition improvements through 2045. When the marginal cost of transit is included and weighted by this ratio, the resulting percent change is approximately 3.15 percent. Essentially, adding transit does not have a significant effect on the cost per person-mile of capacity for new road construction and lane addition improvements.

As it is currently structured, the transit model detailed in Tables D-10 and D-11 assumes that transit-miles and road-miles will be added to the system at the same rate. If the City/County builds more transit-miles, this will increase the bus traffic on existing roads, adding more stops, higher stop frequency, and creating additional bus blockage. As a result, the capital cost per person-mile for a roadway with transit would increase in relation to the ratio of added transit-miles vs. roadway-miles. For example, if the transit-mile investment was double that of roadway construction/expansion, the 3.15 percent change calculated in Table D-11 would increase to approximately 6.30 percent. The annual construction figures for transit-miles and road-miles should be tracked by the City/County and adjusted for in subsequent multi-modal fee update studies.

Table D-10
Multi-Modal Cost per Person-Mile of Capacity

Input	Local Transit	
Trunsit Person-Miles of Capacity Cal	culation	Source:
Vehicle Capacity (1)	35	1) Source: Local transit is assumed to have 25 seats with a 40 percent standing room capacity equivalent
Number of Vehicles 20% fleet mar in (2)	2	2) Cycle time (Item 9) divided by headway time (Item 6) increased by 20 percent to accommodate the required flex
Service luan (hours) ⁽³⁾	14	3) Source: Assumption based on current Hernando County routes
Cycles/Hour Jaka Peak Vehicles) (0	1.00	4) Headway time (Itam 6) divided by 60
Cycles per Day 14	14	5) Service span (term 3) multiplied by the cycles/how (Item 4)
Headwa/ Time (minutes) ⁽⁴⁾	60	6) Source: Assumption based on current Hernando County routes
Speed (mph) ⁽³⁾	19	7) Source: Integrated National Transit Database Analysis System (IKTDAS). G-yr average
Round Tree Length (miles) (48)	35.0	8) Source: Average trip length of current Hernando County
Cycle Time (minutes (9)	111	9) Round trip length (Itam 8) divided by speed (Itam 7) multipRed by 60
otal Person-Miles of Capacity in	17,150	10) Vehicle capacity (Item 1) multiplied by the cycles per day (Item 5) multiplied by the round trip length (Item 8)
Load Factor/System Capacity 11)	30%	11) Source: Optimistic assumption based on future goals
Adjusted Person-Miles of Capacity ⁽¹³⁾	5545	12) Total person-miles of capacity (Item 10) multiplied by the load factor (Item 11)
Capital Cost Variables		
Stors per Mile (w/o Sheller (13)	3	13) Source: Model assumes 3 bench stops per mile
Shelters per Mile(14)	1	14) Source: Model assumes 1 shelter stop per mile
Vehicle Cost ⁽¹⁵⁾	\$450,000	15) Source: Hernando County Transit Dept (29 ft, low floor GIRg)
Simule 8us Stop ¹¹⁶	\$12,000	16) Source: Assumption based on local characteristics and industry knowledge
Sheltered Bus Ston (17)	521,100	17) Source: Hernando County Transit Dopt

Table D-11 Multi-Model Fee: Transit Companent Model

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Appendix E Multi-Modal Transportation Impact Fee: Credit Component

Appendix E: MMTIF - Credit Component

This appendix presents the detailed calculations for the credit component. Local fuel taxes that are collected in Hernando County are listed below, along with a few pertinent characteristics of each.

1. Constitutional Fuel Tax (2¢/gallon)

- Tax applies to every net gallon of motor and diesel fuel sold within a county. Collected in accordance with Article XII, Section 9 (c) of the Florida Constitution.
- The State allocated 80 percent of this tax to Counties after first withholding amounts pledged for debt service on bonds issued pursuant to provisions of the State Constitution for road and bridge purposes.
- The 20 percent surplus can be used to support the road construction program within the county.
- Counties are not required to share the proceeds of this tax with their municipalities.

2. County Fuel Tax (1¢/gailon)

- Tax applies to every net gallon of motor and diesel fuel sold within a county.
- Primary purpose of these funds is to help reduce a County's reliance on ad valorem taxes.
- Proceeds are to be used for transportation-related expenses, including the reduction of bond indebtedness incurred for transportation purposes. Authorized uses include acquisition of rights-of-way; the construction, reconstruction, operation, maintenance, and repair of transportation facilities, roads, bridges, bicycle paths, and pedestrian pathways; or the reduction of bond indebtedness incurred for transportation purposes.
- Counties are not required to share the proceeds of this tax with their municipalities.

3. Ninth-Cent Fuei Tax (1¢/gallon)

- Tax applies to every net gallon of motor and diesel fuel sold within a county.
- Proceeds may be used to fund transportation expenditures.
- To accommodate statewide equalization, this tax is automatically levied on diesel fuel in every county, regardless of whether a County is levying the tax on motor fuel at all.
- Counties are not required to share the proceeds of this tax with their municipalities.

4. 1st Local Option Tax (up to 6¢/gallon)

• Tax applies to every net gallon of motor and diesel fuel sold within a county.

- Proceeds may be used to fund transportation expenditures.
- To accommodate statewide equalization, all six cents are automatically levied on diesel fuel in every county, regardless of whether a county is levying the tax on motor fuel at all or at the maximum rate.
- Proceeds are distributed to a county and its municipalities according to a mutually agreed upon distribution ratio, or by using a formula contained in the Florida Statutes.

Each year, the Florida Legislature's Office of Economic and Demographic Research (EDR) produces the *Local Government Financial Information Handbook*, which details the estimated local government revenues for the upcoming fiscal year. Included in this document are the estimated distributions of the various fuel tax revenues for each county in the state. The 2020-21 data represent projected fuel tax distributions to Hernando County for the current fiscal year. Table E-1 shows the distribution per penny for each of the fuel levies, and then the calculation of the weighted average for the value of a penny of fuel tax. The weighting procedure takes into account the differing amount of revenues generated for the various types of fuel taxes. It is estimated that approximately \$740,000 of annual revenue will be generated from one penny of fuel tax in Hernando County. For use in the impact fee calculation, the fuel tax revenue data is used to calculate the value per penny (per gallon of fuel) that is used to estimate the "equivalent pennies" of other revenue sources used to fund transportation.

Table E-1
Estimated Fuel Tax Distribution Allocated to Capital Programs for Hernando County & Municipalities, FY 2020-21⁽¹⁾

Тах	Amount of Levy per Gallon	Total Distribution	Distribution per Penny
Constitutional Fuel Tax	\$0.02	\$1,738,264	\$869,132
County Fuel Tax	\$0.01	\$765,711	\$765,711
9th Cent Fuel Tax	\$0.01	\$818,793	\$818,793
1st Local Option (1-6 cents)	\$0.06	\$4,644,578	\$774,096
2nd Local Option (1-5 cents)	\$0.05	<u>\$3,139,973</u>	\$627,995
Total	\$0.15	\$11,107,319	
Weighted Average per Penny ⁽²⁾			\$740,488

Source: Florida Legislature's Office of Economic and Demographic Research, http://edr.state.fl.us/content/local-government/reports/ ~

²⁾ The weighted average distribution per penny is calculated by taking the sum of the total distribution and dividing that value by the sum of the total levies per gallon (multiplied by 100)

Capital Expansion Credit

For the calculated impact fee, the capital improvement credit includes capacity-expansion expenditures for roadway improvements in Hernando County.

Hernando County Capital Project Funding

A review of Hernando County's FY 2015-2019 historical funding and the FY 2020-2024 Capital Improvement Plan indicates that fuel tax revenues and impact fee revenues are the primary funding sources for transportation capacity expansion improvements. As shown in Table E-2, Hernando County allocates funding equivalent of approximately 0.2 pennies for the portion of non-impact fee revenues dedicated to capacity expansion projects such as new road construction, lane additions, sidewalks and intersection improvements.

Table E-2
County Fuel Tax Equivalent Pennies

Source	Cost of Projects	Number of Years	Revenue from 1 Penny ⁽³⁾	Equivalent Pennies ⁽⁴⁾
Hernando County CIP FY 2020-2024(1)	\$372,970	5	\$740,488	\$0.001
Historical Expenditures FY 2015-2019 ⁽²⁾	\$1,128,992	5	\$740,488	\$0.003
Total	\$1,501,962	10	\$740,488	\$0.002

Source: Table E-5
 Source: Table E-4
 Source: Table E-1

State Capital Project Funding

In the calculation of the equivalent pennies of fuel tax from the State, expenditures on roadway capacity-expansion spanning a 15-year period (from FY 2010 to FY 2024) were reviewed. From these, a list of improvements was developed, including lane additions, new road construction, intersection improvements, interchanges, transit, sidewalks, etc. The use of a 15-year period, for purposes of developing a State credit for road capacity expansion projects, results in a stable credit, as it accounts for the volatility in FDOT spending in the county over short periods of time.

The total cost of the roadway capacity-expansion projects for the "historical" periods and the "future" period:

- FY 2010-2014 work plan equates to 17.4 pennies
- FY 2015-2019 work plan equates to 24.3 pennies
- FY 2020-2024 work plan equates to 42.6 pennies

⁴⁾ Cost of projects divided by number of years divided by revenue from 1 penny (Item 3) divided by 100

The combined weighted average over the 15-year period of state expenditure for capacity-expansion roadway projects results in a total of 28.1 equivalent pennies. Table E-3 documents this calculation and the specific projects that were used in the equivalent penny calculations are summarized in Table E-6.

Table E-3
State Fuel Tax Equivalent Pennies

Source	Cost of Projects	Number of Years	Revenue from 1 Penny ⁽⁴⁾	Equivalent Pennies ⁽⁵⁾
Projected Work Program (FY 2020-2024) ⁽¹⁾	\$157,618,157	5	\$740,488	\$0.426
Historical Work Program (FY 2015-2019) ⁽²⁾	\$90,096,830	5	\$740,488	\$0.243
Historical Work Program (FY 2010-2014) ⁽³⁾	564,444,998	<u>5</u>	\$740,488	\$0.174
Total	\$312,159,985	15	\$740,488	\$0.281

Source: Table E-6
 Source: Table E-6
 Source: Table E-6
 Source: Table E-1

5) Cost of projects divided by number of years divided by revenue from 1 penny (Item 3) divided by 100

Tables E-4 through E-8 provide additional detail for the summaries included previously in the report and in Appendix E, Tables E-1 through E-3.

Table E-4
Hernando County — Historical Roadway Expenditures

Friilliert II	Frej. ct Name	Improvement	3000	2015	70.30	7518	2211	There is
157((5	Coltona-Forest Cala Intersection	Intersection imments to add turn lanes and sidewalks	10	301	50	21,810	\$617,484	1674,152
107490	Forest Cales # US19 Intersection improvements	Intersection are permanen to add turn lanes and aldewalks	10	(54)	\$4,199	521,957	500	\$36,854
105800	Itoad Widen - West	Multi-laving vanduray	57,433	300	50	30	540	\$2,451
105860	s#50 frontage Boad E of 175	t are frontage road with sidewalks east of I-75 located on north and south side of SR 50	\$0	\$0	\$0	\$81	\$934	5534
108520	Sundvine Grove @ Jacqualine Traffic Signal	Design and construct traffic signal on Sunthine Grove @ Jacqueline and Install concrete seasons or Sunshine Grove - Chamboard St	\$0	58	\$60,975	\$54,656	5727	110620
107480	West landown Traffic Management	C=struct traffic versi at Landover - Mariner	50	. 50	5161,511	541,173	50	.\$303,035
Total	1747		\$7,458	\$6	\$117,786	\$119,618	5474,245	\$1,129,592

Source: Hernando County Department of Public Works

Table E-5
Hernando County -- FY 2020-2024 Capital Improvement Plan: Capacity Expansion improvements

CIP 9	Project Name	#V 2020	EV-2021	TY 2022	FF TOTAL	FY 2024	Total
Public Wm	ks Department	2112					
109850	Cobblestone @ Spring Hill Intersection Improvements	5€±,000	\$175,000	50	50	\$0	\$238,000
107870	Howell Ave @ US 41 Intersection Improvements	\$75,000	50	50	\$0	50	\$75,000
110060	Seven Hills ADA Sidewalk Improvements	\$59,970	50	50	\$0	\$0	559,970
Total	1071	5197,970	\$175,000	-50	50	50	\$372,970

Source: Hernando County Office of Management & Budget

Table E-6
Hernando County FOGT Work Program, Ft 2010 to Et 2014

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	1	41 HR-174	HHAR	100000	Est me ma	Harry per	CONTRACTOR.	HORSE	THE PARTY OF	701327		ALC: NO.	The Part of	Central	-11-2	100000	

Source: Floride Department of Transportation

Benesch September 2022 City of Brooksville Impact Fee Study

Table E-7
Average Motor Fuel Efficiency – Excluding Interstate Travel

	Traye))	
	Vehicle Miles of Tr	avel (VMT) @	
	22.2	6.6	
Other Arterial Rural	330,556,000,000	48,306,000,000	378,862,000,000
Other Rural	304,008,000,000	29,577,000,000	333,585,000,000
Other Urban	1,587,592,000,000	94,800,000,000	1,682,392,000,000
Total	2,222,156,000,000	172,683,000,000	2,394,839,000,000

Perce	nt VMT						
@ 22.2 mpg	@ 22.2 mpg @ 6.6 mpg						
87%	13%						
91%	9%						
94%	6%						
93%	7%						

	Fuel Cor	isumed	
	Gallons @ 22.2 mpg	Gallons @ 6.6 mpg	
Other Arterial Rural	14,889 909 910	7,319,090,909	22,209,000,819
Other Rural	13,694,054,054	4,481,363,636	18,175,417,690
Other Urban	71,513,153,153	14,363,636,364	85,876,789,517
Total	100,097,117,117	26,164,090,909	126,261,208,026

Total Mi	leage and Fuel
2,394,839	miles (millions)
126,261	g≡ilons (millions)
18.97	mpg

Source: U.S. Department of Transportation, Federal Highway Administration, Highway Statistics 2019, Section V, Table VM-1

Annual Vehicle Distance Traveled in Miles and Related Data - 2019 by Highway Category and Vehicle Type

http://www.fhwa.dol.gov/policy/information/statistics.cfm

Table E-8

wised: Nove	ember 2020									TABLE VM-1
William	шм	UGHT DUTY VEHICLES SHORT WE ^{II)}	MOTOR- CYCLES	auses	LIGHT OUTY VEHICLES LONG WB ^{PJ}	SINGLE-UNIT TRUCKS ⁽²⁾	COMBINATION TRUCKS	SU ALL LIGHT VEHICLES ^{PI}	BTOTALS SINGLE-UNIT 2-AXLE 6-TIPE OR MORE AND COMBINATION	ALL MOTOR VEHICLES
	Motor-Vehicle Travel (millions of vehi									
2018	Interstate Rural	148,257	1,175	1,717	48,499	10,887	51,110	196,755	61,997	251,644
2018	Other Arterial Sural	234,142	2,607	2,339	96,414	18,238	30,068	330,556	48,306	383,806
2018	Other Rural	210,002	2,835	1,980	91946	17.0t)	13,534	304,008	29,577	3 1/1.401
2018	All Rural	597,461	1/118	1,016	238, 59	41.168	9 712	831,119	139,880	983,853
2018	Interstate Urban	404,357	2,558	2,683	100,785	19,926	45,444	505,142	65,371	575,753
2018	Other Urban	1,257,491	10,512	0,761	330 101	652	36,149	1,587,512	94,800	1,702,166
2018	All Urban	1,661,848	13,070	11,944	430,886	76.578	#L593	2,053,734	160,171	1,277,119
2018	Total Rural and Urban ⁽³⁾	2.254.309	10,668	17,990	669,744	124,746	175 305	2,924,053	MIG.050	1,161,772
2018	Number of motor vehicles registered(2)	194,348,815	8,596,314	995,083	59,465,369	10,160,433	2,925,210	253,814,184	13,085,643	276,491,174
2018	Average miles traveled per vehicle	11,599	2,290	18,070	11,263	12,278	59,929	11,520	22,930	11,797
2018	Person-miles of travel (millions)(4)	3,765,896	22,846	381,176	1,128,489	124,746	175,305	4,894,385	300,050	5,598,457
2018	Fuel consumed (thousand gallons)	93,420,373	447,864	2,450,610	38,028,860	16,656,736	28,986,515	131,449,233	45,643,250	179,990,957
2018	Average fuel consumption per vehicle (gallons)	481	52	2,463	640	1,639	9,909	518	3,488	651
2018	Average miles traveled per gallon of fuel consumed	24.1	44.0	7.3	17.6	7.5	6.0	22.2	8.5	18.1

(3) The FRWA ealimates national trends by using State reported Highway Performance and Monitoring System (HPMS) date, fuel consumption date (MF-21, and MF-27), vehicle registration date (MV-1, MV-9, and MV-10), other date such as the R.L. Polk vehicle date, and a host of modaling techniques.

(2) Light Duty Vehicles Short WB - personger care, light trucks, ware and sport utility vehicles with a wheelbase (WM) equal to or less then 121 inches. Light Outy Vehicles Long WB - large passenger care, vans, pickup trucks, and sport/utility vehicles with wheelbases (WB) larger than 121 inches. All Light Duty Vehicles - passenger care, tight trucks, vans and sport utility vehicles regardless of wheelbase.

(3) Single-Unit - single frame trucks that have 2-Axies and at least 6 sizes or a gross vehicle weight rating exceeding 10,000 lbs.

(4) For 2018 and 2019, the vehicle occupancy is estimated by the FHWA from the 2017 National Household Travel Survey (NHTS) and the annual R.L. Polk Vehicle registration data; For single unit truck and heavy trucks, 1 motor vehicle mile traveled = 1 person-mile traveled.

(5) VMT data are based on the latest HPMS data available; it may not match previous published results.

Appendix F Multi-Modal Transportation Impact Fee: Calculated Impact Fee Schedule

Appendix F: MMTIF - Calculated Impact Fee Schedule

This Appendix presents the detailed impact fee calculations for each land use in the City of Brooksville multi-modal transportation impact fee schedule.

Table F-1

		-			C)	leidated l	Multi-Modal Tra											
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-	registring between	-	4.00	6-Avil set tion	100	4.0	- Marian	200	-46	199.60	i.e.	Miss	2100	itte	Gest	25.000	tride	****
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Benesch September 2022 City of Brooksville Impact Fee Study

Table F-1 (continued)

					Ca	iculated N	viuiti-Modal Tra	nsportati	on Impact Fee:	Schedule								
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				Marie IVI Time	3.0	and the second			A from	1.7	100	300	25	700	-	200	dia.	1
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	eria .	1			_	_		_							_			
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ht	Viner Sou	139-4	p+.05	Fire RF 200	1.27	B.77	R. Station Appropriate Cifes, Co.		Appropriation of the		2,43	91.19	111.145	13	-	.0.000	2.75	1475
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ale:	And there are buy to be taken to	10000	- m=	= 13th+	1.44	1,44	Aspertin & Pg. C.I	1/9	Niselia CHLOS	311	1.49	4.03	2000	316	2006	10000	161m.	2000
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City of Brooksville Impact Fee Study Benesch September 2022 F-3

Table F-1 (continued)

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ai.		AR1	14	Pentili ulm	100	700	Access of 196 786 8	400	Service and other	700	14	100	796	200	338	***	100	

- Net VN/T calculated as ([Trip Generation Pate" Trip Length" 5: New Trips)*(5: Intervitors)*(6) Recillary Adjustment Record)*(2). This reflects the use's devicide makes of expective consummed per self of development and is multiplied by the cost per vehicle

 This trip length for LIC 281 (3-42) was restricted to reflect the surveyse accupancy rate of 60 percent based on sides a provided by the Plant's American Trip Length or reflect the surveyse accupancy rate of 60 percent based on sides a provided by the Plant's American Trip Length or reflect the surveyse accupancy rate of 60 percent based on sides a provided by the Plant's American Trip Length or Adjustment Trip Length or Adjustment Trip Length (or a disposant for the Plant's American Trip Length or Adjustment Trip Length or Adjustment Trip Length (or a disposant for the Plant's American Trip Length (or a disposant