Agenda Report

2725 Judge Fran Jamieson Way Viera, FL 32940



New Business - Miscellaneous

J.3.	1/28/2025
0.0,	

Subject:

Discussion and possible direction given regarding Fire and EMS impact fee studies.

Fiscal Impact:

None

Dept/Office:

District 1 Commission Office

Requested Action:

To direct staff to move forward with Fire and EMS impact fee studies. If the board wishes, we could also talk about the other impact fees and possibly give direction on doing those studies as well.

Summary Explanation and Background:

If the board elects to increase impact fees to be comparable with other Florida counties, the impact fee increase process requires that the increase be implemented within one year of the completion of the study.

The impact fee comparison attached to the agenda item notates that Brevard County is 20th lowest of the 22 counties listed. Brevard County impact fee rate payers are currently paying a fraction of the fees of the other counties included.

Making sure our impact fees are comparable with other Florida counties is critical to funding the infrastructure necessary to sustain Brevard county's current and future needs.

J.3. 1/28/2025

	TABLE VI-5	OTHER FIRE/EMS IMPACT FEES
1	Collier County	\$1,257
	Lee County	\$821
2	St Johns County	\$657
3	St Lucie Revised	\$650
4		\$599 \$599
5	Martin County	
6	Palm Beach County	\$528
7	Sarasota County	\$452
8	Miami/Dade County	\$436
9	Sumter County	\$397
10	Citrus County	\$391
11	Lake County	\$390
12	Orange County	\$325
13	Indian River County	\$314
14	Polk County	\$308
15	Manatee County	\$289
16	Charlotte County	\$247
17	Hernando County	\$235
18	Seminole County	\$172
19	Alachua County	\$152
20	Brevard County	\$93
21	Levy County	\$53
22	Hillsborough County	\$49
	Average*	\$385
	Median*	\$355
	*Average and median do not include St. Lucie	Pavisod

Clerk to the Board Instructions:



FLORIDA'S SPACE COAST

Kimberly Powell, Clerk to the Board, 400 South Street • P.O. Box 999, Titusville, Florida 32781-0999

Telephone: (321) 637-2001 Fax: (321) 264-6972 Kimberly.Powell@brevardclerk.us



January 29, 2025

MEMORANDUM

TO: Frank Abbate, County Manager

RE: Item J.3., Discussion and Direction Regarding Fire and EMS Impact Fees Study

The Board of County Commissioners, in regular session on January 28, 2025, directed staff to move forward with a Request for Proposal (RFP) on Fire and EMS impact fees study.

Your continued cooperation is always appreciated.

Sincerely,

BOARD OF COUNTY COMMISSIONERS

RACHEL M. SADOFF, CLERK

Kimberly Powell, Clerk to the Board

cc: Each Commissioner

County Attorney

Fire Rescue Facilities and Emergency Medical Services Impact Fees

Background

- An impact fee study was last conducted in 2015, at a cost of about \$164,000 (was not limited to Fire/EMS)
- In September of 2016 the Board accepted the Impact Fee Study, and retained the then-current fee schedule (i.e. did not act on the study's findings)
- The fee schedule for the Fire Rescue Facilities Impact Fee¹, were last amended in 2001
- The fee schedule for the Emergency Medical Services Impact Fee², was last amended in 2001.

Process for increasing the Impact Fees (The process below is governed by Sec. 163.31801, Fla. Stat.)

Study:

- The County must "ensure that the calculation of the impact fee is based on a study using the
 most recent and localized data available within 4 years of the current impact fee update"
 - Because the County's most-current data is older than 4 years, a new study is required before updating the fee schedule
- The study must be adopted by the Board within 12 months of the initiation of the impact fee study if it desires to increase the impact fee based on the study.
- In order to justify an increase, the study must reflect a rational nexus between the construction generating the impact and qualifying expenditures

Extraordinary Approval Process (allows for no phase-in and increases of more than 50%):

- The demonstrated-need study that justifies the increase must be completed within 1 year of enactment
- The study must "expressly demonstrate the extraordinary circumstances" necessitating the need to exceed the limitations listed below under the heading 'normal approval process'
- There must be at least two publicly noticed workshops dedicated to this topic
- Must be approved by a 2/3 vote of the Board
- 90 days notice, prior to effective date of increase, must be given

Normal Approval Process:

- "An increase to a current impact fee rate of not more than 25 percent of the current rate must be implemented in two equal annual increments."
- "An increase to a current impact fee rate which exceeds 25 percent but is not more than 50 percent of the current rate must be implemented in four equal installments"
- "An impact fee increase may not exceed 50 percent of the current impact fee rate."

¹ See Sec. 62-179, Brevard County Code of Ordinances

² See Sec. 62-849, Brevard County Code of Ordinances

90 days notice, prior to effective date of increase, must be given

Other Considerations:

- The County must "limit administrative charges for the collection of impact fees to actual costs."
- The County cannot index the impact fee to CPI or any other measure, because doing so would inevitably violate the prohibition on raising the impact fee more than once every 4 years
- Impact fee increases cannot be retroactive in any way

TABLE VI-5 OTHER FIRE/EMS IMPACT FEES

Alachua County	\$152
Brevard County	\$93
Charlotte County	\$247
Citrus County	\$391
Collier County	\$1,257
Miami/Dade County	\$436
Hernando County	\$235
Hillsborough County	\$49
Indian River County	\$314
Lake County	\$390
Lee County	\$821
Levy County	\$53
Manatee County	\$289
Martin County	\$599
Orange County	\$325
Palm Beach County	\$528
Polk County	\$308
St Johns County	\$657
Sarasota County	\$452
Seminole County	\$172
Sumter County	\$397
Average	\$385
Median	\$355
St Lucie Revised	\$650

SOYRCE: Duncan & Associates, www.impactfees.com.

2007 Brevard County Commercial Impact Fee Schedule Unincorporated Brevard, City of West Melbourne, Town of Palm Shores, and Town of Grant-Valkaria

LAND USE TYPE	UNIT	TRANSPORTATION	FIRE RESCUE	EMERGENCY MEDICAL SERVICES	CORRECTIONAL FACILITY	TOTAL
Hotel	Room	\$2,735.00	\$15.19	\$10.86	\$20.22	\$2,781.27
Motel	Room	\$1,480.00	\$15.19	\$10.86	\$20.22	\$1,526.27
Resort Hotel	Room	\$6,522.00	\$15.19	\$10.86	\$20.22	\$6,568.27
Office under	1,000	\$8,630.00	\$43.80	\$31.30	\$58.30	\$8,763.40
10,000 square feet	square feet	4 0,200111	,			_
Office 10,000 square feet and over	1,000 square feet	\$5,058.00	\$25.67	\$18.35	\$34.17	\$5,136.19
Office Park	1,000 square feet	\$6,228.00	\$20.06	\$14.33	\$26.69	\$6,289.08
Medical Office	1,000 square feet	\$13,024.00	\$42.98	\$30.72	\$57.21	\$13,154.91
Bank	1,000 square feet	\$13,766.00	\$67.90	\$48.52	\$90.38	\$13,972.80
Bank with Drive-Thru	1,000 square feet	\$23,331.00	\$61.22	\$43.74	\$81.48	\$23,517.44
Retail under 10,001 square feet	1,000 square feet	\$5,804.00	\$183.31	\$130.99	\$244.00	\$6,362.30
Retail 10,001 to 49,999 square feet	1,000 square feet	\$5,804.00	\$120.54	\$86.13	\$160.44	\$6,171.11
Retail 50,000 to 99,999 square feet	1,000 square feet	\$6,396.00	\$120.54	\$86.13	\$160.44	\$6,763.11
Retail 100,000 square feet	1,000 square feet	\$5,270.00	\$120.54	\$86.13	\$160.44	\$5,637.11
Retail 100,001 to 299,999 square feet	1,000 square feet	\$5,270.00	\$75.26	\$53.78	\$100.18	\$5,499.22
Retail 300,000 to 499,999 square feet	1,000 square feet	\$5,833.00	\$75.26	\$53.78	\$100.18	\$6,062.22
Retail 500,000 to 1,000,000 square feet	1,000 square feet	\$5,834.00	\$75.26	\$53.78	\$100.18	\$6,063.22
Retail 1,000,001 square feet and over	1,000 square feet	\$5,834.00	\$63.69	\$45.51	\$84.78	\$6,027.98

LAND USE TYPE	UNIT	TRANSPORTATION	FIRE RESCUE	EMERGENCY MEDICAL SERVICES	CORRECTIONAL FACILITY	TOTAL
Service / Gas Station	Fuel Position	\$4,269.00	\$79.38	\$56.73	\$105.67	\$4,510.78
New & Used	1,000	\$10,933.00	\$64.16	\$45.85	\$85.41	\$11,128.42
Auto Sales	square feet					
Quality	1,000	\$16,898.00	\$263.51	\$188.30	\$350.75	\$17,700.56
Restaurant	square feet					
Restaurant	1,000 square feet	\$23,213.00	\$324.72	\$232.04	\$432.22	\$24,201.98
Restaurant with Drive- Thru	1,000 square feet	\$35,791.00	\$321.84	\$229.99	\$428.40	\$36,771.23
Supermarket	1,000 square feet	\$11,258.00	\$165.16	\$118.03	\$219.85	\$11,761.04
Car Wash	Wash Stall	\$11,530.00	\$292.42	\$208.96	\$389.23	\$12,420.61
Auto Repair	1,000 square feet	\$7,703.00	\$49.77	\$35.56	\$66.24	\$7,854.57
Convenience Market	1,000 square feet	\$34,542.00	\$351.72	\$251.34	\$468.17	\$35,613.23
Convenience Market with Gas & Fast Food	1,000 square feet	\$22,563.00	\$351.72	\$251.34	\$468.17	\$23,634.23
Furniture Store	1,000 square feet	\$1,332.00	\$10.07	\$7.20	\$13.41	\$1,362.68
Marina	Acre	\$6,430.00	Not Applicable	Not Applicable	Not Applicable	\$6,430.00
Marina	Berth	Not Applicable	\$8.37	\$5.98	\$11.15	\$25.50
Golf Course	Hole	\$11,501.00	\$144.12	\$102.99	\$191.83	\$11,939.94
Tennis Court	Court	\$9,535.00	\$80.36	\$57.42	\$106.95	\$9,779.73
Racquet Club / Health Spa	1,000 square feet	\$5,761.00	\$45.23	\$32.32	\$60.20	\$5,898.75
Movie Theater with Matinee	Seat	\$44.00	Not Applicable	Not Applicable	Not Applicable	\$44.00
Movie Theater with Matinee	Screen	Not Applicable	\$466.79	\$333.57	\$621.34	\$1,421.70
Church	1,000 square feet	\$2,532.00	\$12.34	\$8.81	\$16.42	\$2,569.57
Adult Congregate Living Facility or Group Home	Dwelling	\$378.00	\$45.46	\$32.49	\$60.52	\$516.47
Nursing Home	Bed	\$472.00	\$35.31	\$25.23	\$47.00	\$579.54
Day Care Center	1,000 square feet	\$11,769.00	\$275.25	\$196.74	\$366.39	\$12,607.38

LAND USE TYPE	UNIT	TRANSPORTATION	FIRE RESCUE	EMERGENCY MEDICAL SERVICES	CORRECTIONAL FACILITY	TOTAL
Elementary School	Student	\$273.00	\$3.91	\$2.79	\$5.20	\$284.90
Middle School	Student	\$307.00	\$5.51	\$3.93	\$7.33	\$323.77
High School	Student	\$430.00	\$6.80	\$4.86	\$9.05	\$450.71
Junior College	Student	\$842.00	\$3.07	\$2.20	\$4.09	\$851.36
College	Student	\$1,236.00	\$5.26	\$3.76	\$7.00	\$1,252.02
Veterinary Clinic	1,000 square feet	\$3,552.00	\$39.03	\$27.88	\$51.94	\$3,670.85
Hospital	1,000 square feet	\$5,354.00	\$34.42	\$24.60	\$45.81	\$5,458.83

^{*}Melbourne Village requires payment of Fire / Rescue, Emergency Medical Services, Solid Waste, and Correctional impact fees.

Solid Waste Impact Fees not included.

For information, please contact Brevard County Land Development at 321-633-2065.

Brevard County Residential Impact Fee Schedule Effective January 2, 2017

Unincorporated County, City of West Melbourne, Town of Palm Shores, and Town of Grant-Valkaria

Land Use	Unit	Transportation	Fire /	Emergency	Correctional	Library	Solid	Education	Total Fees
Туре			Rescue	Medical Services	Facility		Waste		
Single-Family,	1 Dwelling	\$4,353.00	\$54.08	\$38.65	\$71.99	\$63.84	\$160.00	\$5,096.50	\$9,838.06
Detached									
Duplex,	1 Dwelling	\$2,677.00	\$49.29	\$35.22	\$65.61	\$55.59	\$160.00	\$1,940.50	\$4,983.21
Townhouse, 1									
to 2 stories									
Condo, 1 to 2	1 Dwelling	\$2,677.00	\$49.29	\$35.22	\$65.61	\$55.59	\$120.00	\$1,940.50	\$4,943.21
stories									
Apartment, 1	1 Dwelling	\$2,677.00	\$47.13	\$33.68	\$62.73	\$37.91	\$120.00	\$1,940.50	\$4,918.95
to 2 stories									
Townhouse, 3	1 Dwelling	\$2,381.00	\$32.41	\$23.16	\$43.13	\$55.59	\$160.00	\$1,940.50	\$4,635.79
or more									
stories									
Condo, 3 or	1 Dwelling	\$2,381.00	\$32.41	\$23.16	\$43.13	\$55.59	\$120.00	\$1,940.50	\$4,595.79
more stories									
Apartment, 3	1 Dwelling	\$2,381.00	\$30.99	\$22.15	\$41.25	\$37.91	\$120.00	\$1,940.50	\$4,573.80
or more									
stories									
Mobile Home	1 Dwelling	\$1,642.00	\$42.56	\$30.41	\$56.65	\$46.45	\$160.00	\$1,256.50	\$3,234.57
on Deeded									
Lot									
Mobile Home	1 Dwelling	\$1,642.00	\$42.56	\$30.41	\$56.65	\$46.45	\$120.00	\$1,256.50	\$3,194.57
on Rental Lot									
RV Pad in RV	1 Dwelling	\$1,642.00	\$42.56	\$30.41	\$56.65	\$46.45	\$62.40	\$1,256.50	\$3,136.97
Park									

Cities of Cocoa, Cocoa Beach, Indialantic, Indian Harbour Beach, Malabar, Melbourne Beach, Rockledge, Satellite Beach, and Titusville

Land Use	Unit	Transportation	Fire /	Emergency	Correctional	Library	Solid Waste	Education	Total Fees
Туре			Rescue	Medical Services	Facility				
Single-	1 Dwelling	\$4,353.00	Not	\$38.65	\$71.99	\$63.84	\$160.00	\$5,096.50	\$9,783.98
Family,			Applicable						
Duplex,	1 Dwelling	\$2,677.00	Not	\$35.22	\$65.61	\$55.59	\$160.00	\$1,940.50	\$4,933.92
Townhouse,			Applicable						
1 to 2									
stories									
Condo, 1 to	1 Dwelling	\$2,677.00	Not	\$35.22	\$65.61	\$55.59	\$120.00	\$1940.50	\$4,893.92
2 stories			Applicable						
Apartment,	1 Dwelling	\$2,677.00	Not	\$33.68	\$62.73	\$37.91	\$120.00	\$1,940.50	\$4,871.82
1 to 2			Applicable						
stories									
Townhouse,	1 Dwelling	\$2,381.00	Not	\$23.16	\$43.13	\$55.59	\$160.00	\$1,940.50	\$4,603.38
3 or more			Applicable						
stories									
Condo, 3 or	1 Dwelling	\$2,381.00	Not	\$23.16	\$43.13	\$55.59	\$120.00	\$1,940.50	\$4,563.38
more			Applicable						
stories									
Apartment,	1 Dwelling	\$2,381.00	Not	\$22.15	\$41.25	\$37.91	\$120.00	\$1,940.50	\$4,542.81
3 or more			Applicable						
stories									
Mobile	1 Dwelling	\$1,642.00	Not	\$30.41	\$56.65	\$46.45	\$160.00	\$1,256.50	\$3,192.01
Home on			Applicable						
Deeded Lot									
Mobile	1 Dwelling	\$1,642.00	Not	\$30.41	\$56.65	\$46.45	\$120.00	\$1,256.50	\$3,152.01
Home on			Applicable						
Rental Lot									
RV Pad in	1 Dwelling	\$1,642.00	Not	\$30.41	\$56.65	\$46.45	\$62.40	\$1,256.50	\$3,094.41
RV Park			Applicable						
1									

Cities of Melbourne and Palm Bay

Land Use Type	Unit	Transportation	Fire / Rescue	Emergency Medical Services	Correctional Facility	Library	Solid Waste	Education	Total Fees
Single-	1 Dwelling	Not Applicable	Not	\$38.65	\$71.99	\$63.84	\$160.00	\$5,096.50	\$5,430.98
Family			Applicable						
Detached			700000000000000000000000000000000000000						
Duplex,	1 Dwelling	Not Applicable	Not	\$35.22	\$65.61	\$55.59	\$160.00	\$1,940.50	\$2,256.92
Townhouse,			Applicable						
1 to 2									
stories									
Condo, 1 to	1 Dwelling	Not Applicable	Not	\$35.22	\$65.61	\$55.59	\$120.00	\$1,940.50	\$2,216.92
2 stories			Applicable						
Apartment,	1 Dwelling	Not Applicable	Not	\$33.68	\$62.73	\$37.91	\$120.00	\$1,940.50	\$2,194.82
1 to 2			Applicable						
stories									
Townhouse,	1 Dwelling	Not Applicable	Not	\$23.16	\$43.13	\$55.59	\$160.00	\$1,940.50	\$2,222.38
3 or more			Applicable						
stories									
Condo, 3 or	1 Dwelling	Not Applicable	Not	\$23.16	\$43.13	\$55.59	\$120.00	\$1,940.50	\$2,182.38
more			Applicable						
stories									
Apartment,	1 Dwelling	Not Applicable	Not	\$22.15	\$41.25	\$37.91	\$120.00	\$1,940.50	\$2,161.81
3 or more			Applicable						
stories									
Mobile	1 Dwelling	Not Applicable	Not	\$30.41	\$56.65	\$46.45	\$160.00	\$1,256.50	\$1,550.01
Home on			Applicable						
Deeded Lot									
Mobile	1 Dwelling	Not Applicable	Not	\$30.41	\$56.65	\$46.45	\$120.00	\$1,256.50	\$1,510.01
Home on			Applicable						
Rental Lot									
RV Pad in	1 Dwelling	Not Applicable	Not	\$30.41	\$56.65	\$46.45	\$62.40	\$1,256.50	\$1,452.41
RV Park			Applicable						

City of Cape Canaveral

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Land Use	Unit	Transportation	Fire /	Emergency	Correctional	Library	Solid Waste	Education	Total Fees
Type			Rescue	Medical	Facility				
				Services					
Single-	1 Dwelling	\$4,353.00	Not	\$38.65	\$71.99	Not	\$160.00	\$5,096.50	\$9,720.14
Family,			Applicable			Applicable			
Detached									
Duplex,	1 Dwelling	\$2,677.00	Not	\$35.22	\$65.61	Not	\$160.00	\$1,940.50	\$4,878.33
Townhouse,			Applicable			Applicable			
1 to 2									
stories									
Condo, 1 to	1 Dwelling	\$2,677.00	Not	\$35.22	\$65.61	Not	\$120.00	\$1,940.50	\$4,838.33
2 stories			Applicable			Applicable			
Apartment,	1 Dwelling	\$2,677.00	Not	\$33.68	\$62.73	Not	\$120.00	\$1,940.50	\$4,833.91
1 to 2			Applicable			Applicable			
stories									
Townhouse,	1 Dwelling	\$2,381.00	Not	\$23.16	\$43.13	Not	\$160.00	\$1,940.50	\$4,547.79
3 or more			Applicable			Applicable			
stories									
Condo, 3 or	1 Dwelling	\$2,381.00	Not	\$23.16	\$43.13	Not	\$120.00	\$1,940.50	\$4,507.79
more			Applicable			Applicable			
stories									
Apartment,	1 Dwelling	\$2,381.00	Not	\$22.15	\$41.25	Not	\$120.00	\$1,940.50	\$4,504.90
3 or more			Applicable			Applicable			
stories									
Mobile	1 Dwelling	\$1,642.00	Not	\$30.41	\$56.65	Not	\$160.00	\$1,256.50	\$3,145.56
Home on			Applicable			Applicable			
Deeded Lot									
Mobile	1 Dwelling	\$1,642.00	Not	\$30.41	\$56.65	Not	\$120.00	\$1,256.50	\$3,105.56
Home on			Applicable			Applicable			
Rental Lot									
RV Pad in	1 Dwelling	\$1,642.00	Not	\$30.41	\$56.65	Not	\$62.40	\$1,256.50	\$3,047.96
RV Park			Applicable			Applicable			

City of Melbourne Village

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Land Use	Unit	Transportation	Fire /	Emergency	Correctional	Library	Solid Waste	Education	Total Fees
Туре			Rescue	Medical Services	Facility				
Single-	1 Dwelling	Not Applicable	\$54.08	\$38.65	\$71.99	\$63.84	\$160.00	\$5,096.50	\$5,485.06
Family,									
Detached									
Duplex,	1 Dwelling	Not Applicable	\$49.29	\$35.22	\$65.61	\$55.59	\$160.00	\$1,940.50	\$2,306.21
Townhouse,									
1 to 2									
stories									
Condo, 1 to	1 Dwelling	Not Applicable	\$49.29	\$35.22	\$65.61	\$55.59	\$120.00	\$1,940.50	\$2,266.21
2 stories									
Apartment,	1 Dwelling	Not Applicable	\$47.13	\$33.68	\$62.73	\$37.91	\$120.00	\$1,940.50	\$2,241.95
1 to 2									
stories									
Townhouse,	1 Dwelling	Not Applicable	\$32.41	\$23.16	\$43.13	\$55.59	\$160.00	\$1,940.50	\$2,254.79
3 or more									
stories									
Condo, 3 or	1 Dwelling	Not Applicable	\$32.41	\$23.16	\$43.13	\$55.59	\$120.00	\$1,940.50	\$2,214.79
more									
stories									
Apartment,	1 Dwelling	Not Applicable	\$30.99	\$22.15	\$41.25	\$37.91	\$120.00	\$1,940.50	\$2,192.80
3 or more									
stories									
Mobile	1 Dwelling	Not Applicable	\$42.56	\$30.41	\$56.65	\$46.45	\$160.00	\$1,256.50	\$1,592.57
Home on									
Deeded Lot									
Mobile	1 Dwelling	Not Applicable	\$42.56	\$30.41	\$56.65	\$46.45	\$120.00	\$1,256.50	\$1,552.57
Home on									
Rental Lot									
RV Pad in	1 Dwelling	Not Applicable	\$42.56	\$30.41	\$56.65	\$46.45	\$62.40	\$1,256.50	\$1,494.97
XV Tark									

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The same of the sa	- 100mm	THE RESIDENCE										1			No.	RESIDENTIAL
Total Impact Fee	(2.0%)	Impact Fee	ation Educational Facilities	Law Parks & Rec Transportation Enforcement	nt Parks &	Law Enforceme	Fire/Emer Services	Libraries	Public Buildings	Solid Waste Facilities	Unit Correctional Solid Waste Public Libraries Fire/Emer. Facilities Facilities Buildings Libraries Services	Unit		Land Use		
	Admin Fee	Total Net			8	Net impact Fee										
023-002	nce: #2	Ordina					22)	11, 20	Octobe	ve Date:	e (Effecti	Schedul	incorporated Indian River County Impact Fee Schedule (Effective Date: October 11, 2022)	n River Cou	ed Indiar	corporate

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		of Care Transland Receives	Mini-Warehouse	Parehousing	Manufacturing	eneral Light Industrial	MUCHAL	elt-pervice Car Wash	Cas prapar W/Convenience Market 2'000 at 11	ay Station W/Convenience warket 4,000-4,555 ag it	Constitution of Constitution o	as Station w/Convenience Market of DDD on it	Automobile Care Center	Fast Food Restaurant w/Drive-Thru	estaurant	Bank/Savings Orive-In	Bank/Savings Walk-In	SERVICE;	Furniture Store	Supermarket	New/Used Auto Sales	Retail/Shapping Center	RETAIL	Research & Development Center	overnment Office Complex	Post Office	Medical Office/Clinic greater than 10,000 sq ft	Medical Office/Clinic 10,000 sq ft or less	General Office	OFFICE	Veterinary Clinic	Hursing Home	Hospital	MEDICAL	Library	B. Sharman Kranton	Day care center	Church	University/Ir College (Private)	High School (Private, 9-12)	Middle School (Private, 6-8)	ementary School (Private, K-5)	NSTITUTIONS:	Recount Club/Health Club/Dance Studio	Tennis Court	Moute Theater w/Matthews	Marina	Public Park	RECREATION	Motel	LODSING	Assisted Care Living Facility (ACLF)	Mobile Home Park/RV (tied down)	Multi-Family (Mid-Rise, 3-10 levels)	Household Income Not to Exceed 80% of Median Income)*	Multi-Family (Mid-Bise 3-10 levels): 1 to 1 500 sf per unit	Household Income Not to Exceed 80% of Median Income)	Multi-Family (Low-Rise, 1-2 levels)- 1 to 1,500 sf per unit	ngle Family (Detached) - 2,500 sf and greater	Single Family (Detached) - 1.501 to 2.499 st	South Family (Dutashed) - Loss than 1 500 st	Single Family (Detached) - 1 to 1,500 st (Household Income)*		Land Use		Unincorporated Indian River County Impact Fee Schedule (Effective Date: October 11, 2022)
acre	45 0000.1	1.000.4	1,000 sf	1,000 sf	1,000,1	15 0000*1	1000	Service bay	inci pos.	(ad lan		fuel nos	1,000 sf	1,000 sf	1,000 sf	1,000 sf	1,000 st		1,000 sf	1,000 st	1,000 sf	1,000 sfgla	The second second	1,000 sf	1,000 sf	1,000 sf	1,000 sf	1,000 sf	1,000 sf		1,000 sf	bed	1,000 sf		1,000 sf	1 000 1	1,000	1,000 st	student	student	student	student		1,000 sf	tour	licie	boat berth	acre		room	coom	bed	du	ďυ	du	00	9		du	d	di la	<u>a</u>	100	Ohic		e Schedu
00	60	6	50	50	50	30	-	20	ne.	200	200	60	80	50	So	50	90	William Street	\$0	30	\$6	50		50	50	SO.	50	50	50		50	50	50		50	500	900	50	SO	50	50	\$0		So	50	600	SO	So		So	6	SO	SO	50	50	90	50		\$0	SO	SO	6		Facilities		le (Effecti
30	500	5	50	50	50	90	-	90	300	200	000	62	0\$	0.5	So	05	90	The Party of the P	50	16	50	50		90	50	\$0	50	50	05		90	50	50		50	\$ 60	5 90	50	SO	50	95	\$0		\$0	So	Sign	50	50	10000	50	40	\$0	\$0	\$0	50		50		50	50	Sali	S		Facilities		ve Date:
27.70			88					1516	175	2476	676	5193	522	31,316	\$756	\$202	5140		544	532	\$213	\$205		5140	n/a	\$212	\$233	5163	5121		\$191	5135	\$175		3252	653	200	550	\$14	512	512	511		\$327	5190	5075	815	\$7		5114	5137	\$135	\$269	\$225	SO	2000	505		\$465	5415	5345	8		Buildings		October
	200							NA.								NN N		The second				NA.				NA NA			NN I		NA					Ì	İ	NA						NA						NA.			So			I	00			So				Libraries		11, 202
3636	2003	4	88	\$21	58.	393	100	SHIC	POCC	2330	200	\$278	\$318	\$1,845	\$1,059	\$283	\$196		561	5458	5299	\$287		\$196	\$238	\$297	\$327	5228	5169		\$268	\$188	\$245		5498	0/2	242	570	\$19	\$17	\$17	\$15		\$458	5266	2865	525	\$10		\$160	(193	5188	5178	\$152	SO	2000	5153		5312	\$278	5231	9		Services		2)
OFFIC.			\$5					7116		T			\$203				\$125		\$39			5184		\$125				0			5172							545						\$293					- 20	\$102			5112			200	5113		5215	\$196	516	2	TABLE	Enforcement	et impact ree	
1/4								/I n/a					3 0/2					10000	91 0/2		Ī	4 n/a				o n/a					2 n/a				0 0/2		100				1 7/2			8 n/a						n/a			5471				505			6185				Parks & Rec Transpo		
500,00	25 25	655	536	\$62	51,42	57,15	21	34,79	37,34	20,240	62.33	87.55	\$5.55	\$42,06	\$17,98	\$8,61	54,58		\$1,59	39,11	56,81	\$5,603		\$4,127	\$12,32	\$14,33	\$12,92	\$9,02	\$3,53		\$6,607	551	54,26		531.21	\$1.70	36,66	\$1,858	\$91	\$45	542	\$37		\$32,776	\$11.23	\$16.540	51,10	528	200	5850	37.15	559	\$2,435	\$3,530	32	27,000	50,753		\$7,55	\$6,632	\$5.94	8				
174	174	2/2	7 n/a	9 0/2	n/a	D/a		// n/a	540	0/0			n/a				n/a		n/a			n/a) n/a			n/a				n/a	0	n/a					130	n/a	n/a			n/a		nya		×		ola		\$574			İ	00			\$1,310	1			ortation Facilities		
20,000		2	\$3	98	\$1,6	0,50	7	7,00	20,2	27,343	27	6	\$63	\$46,4	\$20,4	\$9.2	\$5,4		51,7	2101	57.5	56,279		\$4,588	\$12.7	\$15,0	\$13,6	\$9,5	\$3,9		\$7,238	99	\$4.8		532.3	513	1,100	\$2,023	59	x	54	\$4		\$13,854	511.8	8812	1776	53		\$1,226	607	\$1,0	\$4,039	\$5,0		20,0	56 749		\$10,7	\$9,650	58.60		I A II CONTRA	Impact Fee	Total Net	Ordin
																																																	0														11 100 11		٠	nance: #2
77.0	100	613	58	\$14	533	240	Can			7470												\$126		\$92							5145			ST.				540						\$277 \$						\$25			581				500			\$193				i usai impact ree		Ordinance: #2023-002
20,479	2000	4450	\$394	5692	51,659	32,039		32,333	20,912	97,490	67 400	856.35	\$6,433	\$47,339	\$20,890	\$9,470	\$5,558		\$1,769	310,401	57,664	\$6,405	THE REAL PROPERTY.	\$4,680	\$12,966	\$15,337	\$13,964	\$9,749	\$4,007		\$7,383	\$979	\$4,937		33.032	\$1 847	270/0	\$2,063	\$978	\$508	\$474	\$422		\$14,131	12.098	19 241	51,184	\$309		\$1,251	\$7.759	\$1,054	\$4,120	\$5,133	So	10,000	200		10,993	\$9,843	\$8.842	So.		6		

City of Fellsmere, Town of Orchid, City of Sebastian, City of Vero Beach Impact Fee Schedule (Effective Date: July 1, 2020 Adjusted to Be Consistent with Florida SB 1066) Ordinance: #2020-005

CITY OF I	citalicie, town of Oreina, city of Sepastian, city of	ACIO DEGEN "	inpart i co oc	TICUMIC ILLI	CLUYE DOLL.	te Line	Total Salas				-		
EUC.	Land Use	Unit	Correctional	Solid Waste	-	Librarles	pact F	ee Transportation	Educational	Total Net Impact Fee	City Admin Fee (2.0%)	County Admin Fee (1.0%)	Total Impact Fee
I	RESIDENTIAL		Facilities	Facilities	Bulloings		SELVICES		Facilities				
	Single Family (Detached) - Less than 1,000 st	d	so	So	50	so os	So	050	\$0	50	\$0	\$0	\$0
1	Single Family (Detached) - 1,000 to 1,500 sf		ò	3	6433	3		600	e cons	200	£ 70	, in	
710	Single Family (Detached) - Less than 1,500 sf	d G	90	\$ 00	\$345	00	\$231	\$5,942	\$1,310	\$7,828	\$157	\$78	
	Single Family (Detached) - 1,501 to 2,499 sf	du	\$0	00	\$415	SO	\$278	\$6,632	\$1,310	\$8,635	\$173	\$86	
220	Single Family (Detached) - 2,500 st and greater Multi-Family (Low-8te 1-7 Jevels)	de de	SO SO	50	\$465	80 80	5312	\$4,753	\$1,310	\$5,669	5193	\$57	
221	Multi-Family (Mid-Rise, 3-10 levels)	du	\$0	So	\$225	SO	\$152	\$3,536	\$539	\$4,452	\$89	\$45	
240	Mobile Home Park/RV (tied down)	du	8 8	90	\$269	s s	\$178	\$2,435	\$574 n/a	\$3,456	\$18	\$35	\$3,560
	LODGING												
310	Hotel	room	50	so so	\$137	NA NA	\$192	\$1,763	n/a	\$2,092	\$42	\$21	\$2,155
070	RECREATION:	loom	1 00	100	Thirtie	IVA.	loore	locot	11/10	Passing.	Taye		
Ш	Public Park	acre	50	0.5	\$7	ΝA	\$10	\$280	n/a	\$297	\$6	\$3	
1	Marina	boat berth	\$0 \$0	30	\$112	Z Z	\$160	\$13,102	n/a	\$1,145	\$23	\$143	
444	Movie Theater w/Matinee	screen	0.5	\$0	\$705	Z,	\$987	\$16,540	n/a	\$18,232	\$365	\$187	
490	Tennis Court	court	\$0	\$0	\$190	N A	\$266	\$11,235	n/a	\$11,691	\$234	\$117	\$12,042
492	Racquet Club/Health Club/Dance Studio	1,000 st	50	\$0	\$327	NA NA	\$458	\$12,776	n/a	513,561	52/1	5136	
520	Elementary School (Private, K-5)	student	90	90	\$11	N A	\$15	\$378	n/a	\$404	38	\$4	\$416
522	Middle School (Private, 6-8)	student	\$ 80	S SO	\$12	Z Z	\$17	\$425	n/a	\$454	\$9	55	
540/550	University/Ir College (Private)	student	So	SO.	\$14	Š	615	\$914	n/a	\$947	\$19	59	
292	Day Ciria Center	1,000 sf	90	00	\$110	NA S	\$154	\$5,392	n/a	\$5.656	\$113	557	
571	Jail	bed	NA	\$0	\$23	ş	\$32	\$360	n/a	\$415	\$8		\$427
5/5	Library	1,000 st	So	50	\$356	Z 2	\$498	\$31,211	n/a	\$32,065	\$641	5321	
	MEDICAL:	200		3	1		2000			24.004	2001		
620	Nursing Home	bed	\$0	\$0	\$135	NA S	\$188	\$517	n/a	\$840	\$17	SB	\$865
ш	Veterinary Clinic	1,000 sf	\$0	\$0	\$191	NA	\$268	\$6,607	n/a	\$7,066	\$141	\$71	S
710	General Office	1,000 sf	\$0	\$0	\$121	NA.	\$169	\$3,530	n/a	\$3,820		165	
720	Medical Office/Clinic 10,000 sq ft or less	1,000 sf	\$0	\$0	\$163	Š	\$228	59,021	n/a	\$9,412		592	
732	Post Office	1,000 sf	\$0	\$0	\$212	Z Z	\$297	\$14,337	n/a	\$14,846	\$297	\$148	\$15,291
733	Government Office Complex	1,000 sf	\$0	\$0	n/a	NA.	\$238	\$12,322	n/a	\$12,560		\$126	
760	Research & Development Center	1,000 st	105	104	\$140	NA	961\$	\$4,12/	n/a	34,463		343	
820	Retail/Shopping Center	1,000 sfgla	\$0	\$0	\$205	N.	\$287	\$5,603	n/a	56,095		\$67	
840/841	New/Used Auto Sales	1,000 sf	SO	SO SO	\$213	2 8	\$259	56,811	n/a	\$7,323	\$146	\$73	\$7,542
890	Furniture Store	1,000 sf	\$0	\$0	\$44	Z Þ	\$61	\$1,590	n/a	\$1,695		\$17	
	SERVICE:												
911	Bank/Savings Walk-In Bank/Savings Drive-In	1,000 sf	SS OS	50	\$140 \$202	N N	\$196 \$283	\$4,988	n/a	\$9,103	5106 5182	591	55,483
932	Restaurant	1,000 sf	So	\$0	\$756	N.	\$1,059	\$17,987	0/2	\$19,802		\$198	
934	Fast Food Restaurant w/Drive-Thru	1,000 sf	50	50	\$1,316	×	\$1,845	\$42,069	n/a	\$45,230		\$45	
944	Gas Station w/Convenience Market <2,000 sq ft	fuel pos	50	\$0	8615	Z Z	\$278	\$5,481	n/a	\$5,957		\$60	
945	Gas Station w/Convenience Market 2,000-2,999 sq ft	fuel pos.	\$0	SD	\$242	Z,	\$338	\$6,546	n/a	\$7,126		\$7.	
960	Gas Station w/Convenience Market 3,000+ sq ft	fuel pos.	\$0	So	\$274	N _A	\$384	\$7,343	n/a	\$8,001		SBI	
947	Self-Service Car Wash	service bay	\$0	\$0	\$131	NA	\$183	\$4,797	n/a	\$5,111		\$5	
110	General Light Industrial	1,000 sf	\$0	\$0	\$68	Ä	\$95	\$1,795	n/a	\$1,958		520	
140	Manufacturing	1,000 sf	\$0	\$0	\$62	NA	\$87	\$1,421	n/a	\$1,570		\$11	
150	Warehousing	1,000 sf	\$0	0.5	\$15	NA	521	\$629	n/a	\$665		\$	
151	Mini-Warehouse	1,000 sf	\$0	00	98	N.	885	\$367	n/a	\$381		, v	
n/a	Concrete Plant	acre 12 DUULT	05 S	05	\$212	N N	\$297	55.653	n/a	\$6.162	\$123	\$62	2 \$6.347
n/a	Sand Mining	acre	SO	50	\$27	N.	\$38	\$728	n/a	\$793		5	
*Palicy dis	olicy discounts are applied to Single Family Affordable Housing with less than 1,000 sq. ft (no fee) and to Single Family Affordable Housing with 1,000 to 1,500 sq.ft (fee decrease of 50% of the fee for less	OD sq ft (no fee) ar	nd to Single Famil	y Affordable Ho	using with 1,000 t	o 1,500 sc	aft (fee decrease	of 50% of the fee		than 1,500 of single family home tier)			

Town of Indian River Shores Impact Fee Schedule (Effective Date: July 1, 2020 Adjusted to Be Consistent with Florida SB 1066)

Ordinance: #2020-005

Part Part			\$755	n/a	\$728	NA NA	\$27	S S	\$0	acre	Sand Mining	0/0
Table Tabl			\$521	n/a	5509	Ī		SO	0.5	1,000 sf	High-Cube Transload/Storage	154
The state of the			\$373	n/a	\$367			So	50	1,000 sf	Mini-Warehouse	151
Teach Table Tabl			\$644	n/a	\$629			\$0	50	1,000 sf	Warehousing	150
Tendon T			\$1,483	n/a	\$1,421			SO	50	1,000 sf	Manufacturing	140
Clased Barria, Marie Clased Barria, Marie			\$1,863	n/a	\$1,795			05	\$0	1,000 sf	General Light Industrial	110
Part Part				THE WAY IN THE PARTY OF						Section 1	INDUSTRIAL:	h
Tende Tend			\$4,928	n/a	\$4,797	Γ	\$131	\$0	50	service bay	Self-Service Car Wash	947
Property Property			\$7,617	n/a	\$7,343	Γ	\$274	50	90	fuel pos.	ience Market 3,000+	960
Part Part			\$6,788	n/a	\$6,546		\$242	\$0	\$0	fuel pos-	2,000-	945
Part Part			55,6/9	n/a	55,481		5198	50	50	fuel pos.	Gas Station w/Convenience Market <2,000 sq ft	944
Care-ciativa Colonia Care-ciativa Care-ciat			35,766	e/u	25.25		3227	30	90	1,000 St	Automobile Lare Center	765
Chart Char			200,000	1/4	545,000		arc're	30	30	1,000,1	reat rood restant at whorive-time	934
Characterial Char			545,545	11/0	050 CF3		216.13	60	60	1,000 1	nestamani.	756
Characteria Characteria			\$18.743	1/2	\$17.087		6756	\$0.00	co co	1,000 st	Doctor By Control	027
Part Part			58.820	n/a	\$8.618		\$202	0.5	0.5	1.000 sf	Bank/Savings Drive-In	912
Part Part			\$5,128	n/a	\$4,988		\$140	\$0	\$0	1,000 sf	Bank/Savings Walk-In	911
Part					1	8		S WY	N. See	THE REAL PROPERTY.	SERVICE:	
Part Part			\$1,634	n/a	\$1,590		\$44	\$0	\$0	1,000 sf	Furniture Store	890
Part Part			\$9,446	n/a	\$9,119		\$327	50	\$0	1,000 sf	Supermarket	850
Part Part			\$7,024	n/a	\$6,811		\$213	\$0	\$0	1,000 sf	1 New/Used Auto Sales	840/841
Part Part			\$5,808	n/a	\$5,603		\$205	50	90	1,000 sfgla	Retail/Shopping Center	820
Part Part	1000			Company of the last	1000		N. K. ST.		The state of the s	The state of	RETAIL:	
Part Part			54,26/	n/a	54,127		5140	30	50	IS OOD T	Research & Development Center	/60
Part Part			225,216	11/8	275,216		11/4	200	30	1,000 51	government Office Complex	1
Part 1,000 of Part Par			640,416	2/2	C41 277		27.20	5	5 6	1,000 1	Fost Office Carallar	707
Part 1,100 of			00300	2/2	614 227		6313	50	60	1,000 sf	port Office	2
			\$13.150	n/a	\$17 971		EECS.	3	Sa	1,000 cf	Medical Office/Clinic greater than 10 000 so ft	720
Part Part			\$9.184	n/a	\$9.021		5163	0.5	OS	1,000 sf	Medical Office/Clinic 10,000 sq ft or less	
			\$3.651	n/a	055.65	1	\$121	0.2	0.2	1,000 sf	General Office	710
				100 mm						The state of the s	OFFICE:	
			\$6,798	n/a	\$6,607		\$191	\$0	\$0	1.000 sf	Veterinary Clinic	640
			\$652	n/a	\$517		\$135	\$0	90	bed	Nursing Home	620
			\$4,438	n/a	\$4,263		\$175	\$0	so	1,000 sf	Hospital	610
	Sell A	200			-						MEDICAL	
Part Part			\$31.567	n/a	\$31,211		\$356	90	02	1.000 sf	Library	590
Part Part			\$1.760	n/al	\$1.703		\$57	90	00	1.000 sf	Fire & Rescue Station	575
			\$383	n/a	\$360		\$23	\$0	NA	bed		571
			\$5 502	n/a	(pr 25		\$110	\$0	ŝ	1 000 sf	Day Care Center	S
			\$1,908	n/a	\$1.858		055	0.5	0.5	1,000 sf	-	095
			\$928	n/a	\$914		\$14	So	02	student		540/550
			\$470	n/a	\$458		\$12	\$0	02	student	High School (Private, 9-12)	530
			\$437	n/a	\$429		\$12	0.5	50	student	Middle School (Private, 6-8)	522
Correctional Correctional Solid Waste Public Educational Facilities Facilit			\$389	n/a	\$378		\$11	\$0	So	student	Elementary School (Private, K-5)	520
Cont Correctional Contectional Contectional Facilities Fac				14						William Control of the Control of th	INSTITUTIONS:	
Corrections Corrections Facilities F			\$13,103	n/a	\$12,776		\$327	0\$	\$0	1,000 sf	Racquet Club/Health Club/Dance Studio	492
Corrections Corrections Solid waste Pacilities Facilities			\$11,425	n/a	\$11,235		\$190	0.5		court	Tennis Court	490
Correctional Correctional Solid Waste Public Ithraries Transportation Facilities			\$17,245	n/a	\$16,540		\$705	0.5		screen	Movie Theater w/Matinee	444
Corrections Corrections Facilities F			\$14,046	n/a	\$13,932		\$114	50		hole	Golf Course	430
Careet C			\$1,120	n/a	\$1.102		\$18	\$0		boat berth	Marina	420
Carrections Carrections Solid waste Public Ithraries Transportation Fedilities F			\$287	n/a	\$280		\$7	90		acre	Public Park	4
Corrections Corrections Facilities F		Total State of									RECREATION:	
Corrections Corrections Facilities F			\$964	n/a	5850		\$114	50	So	room	Motel	320
Contraction Correction Solid waste Public Ithraries Transportation Fedilities Fe			006 (5	n/a	\$1 763		\$137	02	6	moon	Hotel	310
Land Use Unit Correctional Sold Waste Public Interest on Sold Waste Public Interest on Sold Waste Interest Interest on Sold Waste Interest Intere			0.250	10,00	- Contract	H	O. L.	00	100	000	Application could be added to be a first to	25.2
Land Use Unit Correctional Solid waste Public Public Libraries Transportation Educational Educational Federal (2.0%) (1.0%) Local Importation ees than 1,000 sf du \$0			5775	2/2	0655		\$135	6 6	S	500	Wooder nome range of the (ACLE)	757
Land Use Unit Correctional Solid Waste Public Public Libraries Transportation Educational Fedilities Fee (2.0%) (1.0%) Local Importation Exceed 80% of Median Income)* du \$0			900,40	6000	3cV C3	Ī	6226	50	50	90	Wuld-Hamily (Mid-Rise, 3-10 levels)	242
Land Use Unit Correctional Solid Waste Public Interest Public Interest Transportation Fedilities Educational Fedilities Fee (2.0%) (1.0%) Local Importation Fedilities east than 1,000 sf (2.000 of 1,000 of			715'55	5539	54,753	Ī	5226	20	500	92	Multi-Family (Low-Rise, 1-2 levels)	220
Land Use Unit Correctional Sold Waste Public Public Libraries Transportation Educational Educational Feditities Feditities			59,328	\$1,310	57,553		5465	00	50	du	Single Family (Detached) - 2,500 st and greater	
Correctional Solid Waste Public Libraries Transportation Fedilities Fed			\$8,357	\$1,310	56,632		\$415	50	So	du	Single Family (Detached) - 1,501 to 2,499 sf	
Correctional Solid Waste Public Libraries Transportation Fedilities Fed			\$7,597	\$1,310	\$5,942	l	\$345	So	So	du	Single Family (Detached) - Less than 1,500 sf	
Land Use Unit Correctional Solid Waste Public Libraries Transportation Educational Fee (2.0%) (1.0%) Facilities Facilities Buildings Libraries Transportation Facilities Facilities Facilities Establishment Facilities Fac			\$3,799	\$655	\$2,971		\$173	\$0	\$a	du	(Household income Not to Exceed 80% of Median Income)*	210
Land Use									2000		Single Family (Detached) - 1,000 to 1,500 sf	
Land Use Unit Correctional Solid Waste Public Libraries Transportation Educational Fee (2.0%) (1.0%) Facilities Facilities Buildings Libraries Transportation Facilities Facilities	\$0		\$0	\$0	\$0	ŝ	\$0	\$0	\$0	<u>D</u>	(Household Income Not to Exceed 80% of Median Income)*	
Land Use Unit Correctional Solid Waste Public Libraries Transportation Educational Fee (2.0%) (1.0%)											Single Family (Detached) - Jess than 1 000 st	Ì
Unit Correctional Solid Waste Public Libraries Transportation Educational Fee (2.0%) (1.0%)				a de la contraction de la cont				Tourist St.	Facinities		PRODUCTION	ı
linit Correctional Solid Waste Public Educational				Facilities	ransportation	Libraries 1		Facilities				
Total Net Impact City Admin Fee County Admin Fee	e Total Impact Fee		Net Impact	Educational				Calid Missis		llmit	Land like	<u></u>
		41.00	1000	10.000		0011011	-	Total order	Transfer		of major thece offered unburst as a mineral for	ľ

Policy discounts are applied to Single Family Affordable Housing with less than 1,000 sq ft (no fee) and to Single Family Affordable Housing with 1,000 to 1,500 sq ft (fee decrease of 50% of the fee for less than 1,500 sf single family home tier)

C:\Users\sjohnson\AppData\LocalMicrosoft\Windows\NelCache\Content.Outlook\BYOYMR42\Master Fee Schedules_Ordinance Updated to 01-31-23.xlsx

Effective September 12, 2024

Mobility Fee Schedule Category/Land Use	Non Mixed Use	Mixed Use	Transit Oriented
	Per Dwelling Unit		
Single Family	\$9,999	\$7,499	\$5,000
Single Family - Rural	\$15,941	N/A	N/A
Multi-Family	\$7,754	\$5,815	\$3,877
Condo/Townhouse/Urban Flat	\$7,754	\$5,815	\$3,877
Mobile Home	\$5,296	N/A	N/A
Active Adult	\$4,222	\$3,166	\$2,111
Assisted Living/Care	\$4,440	\$3,330	\$2,220
Recreation/Entertainme	ent per specific unit	of measure	
Marina per berth	\$3,176	\$2,382	N/A
Golf Course per hole	\$10,009	\$7,507	N/A
Amusement Park per acre	\$14,847	N/A	N/A
Multipurpose Recreational Facility per acre	\$18,688.68	\$18,688.68	\$14,450
Movie Theater per seat	\$1,976	\$1,482	\$988
Racquet/Tennis Club per court	\$9,130	\$6,847	\$4,565
Health/Fitness/Athletic Club per 1000 FT ²	\$12,511	\$9,383	\$6,256
Recreational Community Center per 1000 FT ²	\$9,496	\$7,122	\$4,748
Institutio	nal per 1,000 FT²		
Place of Assembly	\$2,928.12	\$2,377	\$1,585
Day Care Center	\$4,847	\$3,635	\$2,424
Office	per 1,000 FT ²		
Less than 20,000 SF	\$4,405	\$3,303	\$2,202
20,000 SF to 100,000 SF	\$6,025	\$4,518	\$3,012
Greater than 100,000 SF	\$9,053	\$6,790	\$4,526
Corporate Headquarters Building	\$8,665	\$6,499	\$4,332

Effective September 12, 2024

Mobility Fee Schedule Category/Land Use	Non Mixed Use	Mixed Use	Transit Oriented
Medical Build	lings per 1,000 FT ²		
Medical/Dental Offices	\$10,596	\$7,947	\$5,298
Hospitals	\$8,691.05	\$7,355	\$4,903
Nursing Home	\$2,579	\$1,934	\$1,290
Industrial Buil	dings per 1,000 FT	2	
Warehouse	\$1,131.58	\$1,131.58	\$1,131.58
Mini-Warehouse	\$542.46	\$542.46	\$542.46
General Commerc	ial Retail per 1,000	FT ²	
Neighborhood Retail (<20,000 FT ²)	\$7,096	\$5,322	\$3,548
Community Retail (20,000 FT² to 100,000 FT²)	\$13,849	\$10,387	\$6,924
Regional Retail (>100,000 FT ²)	\$25,943	\$19,457	\$12,972
Variety/Dollar Store	\$10,163	\$7,622	\$5,081
Factory Outlet Store	\$19,161	\$14,371	\$9,581
Grocery Store	\$21,375	\$16,031	\$10,687
Pharmacy w/ drive thru	\$17,480	\$13,110	\$8,740
Restaurant w/ drive thru	\$14,802	\$11,101	\$7,401
Car Sales	\$18,459	\$13,844	\$9,229
Auto Parts Store	\$13,294	\$9,970	\$6,647
Tire & Auto Repair	\$5,826	\$4,369	\$2,913
	odging		
Hotel per room	\$7,491	\$5,618	\$3,745
Resort Hotel with Conference Center per Room	\$6,439.54	\$6,439.54	\$6,224
Bank/Savings w/ Drive-thru per Drive-thru lane	\$10,718	\$8,038	\$5,359
Convenience Market & Gas Fuel per Fuel Position	\$11,026	\$8,269	\$5,513
Quick Lube Vehicle Service per Bay	\$3,436	\$2,577	\$1,718
Car Wash per stall	\$5,800	\$4,350	\$2,900

Effective November 18, 2024

Commercial Fire Impact (per 1,000 sq. f	
Hotel/Motel	\$784.00
Retail/Commercial	\$639.00
Restaurant/Bar	\$3,145.00
Office	\$414.00
Industrial/Warehouse	\$71.00
Church	\$430.00
School/College	\$311.00
Hospital/Clinic	\$539.00
Nursing Home/Group Living	\$1,202.00
Government/Public	\$223.00
Agriculture	\$218.00

Fire Rescue Assessments¹

Residential ¹	\$245.18	(Per Dwelling Unit)
Commercial ¹	\$0.5730	(Per Square Foot)
Industrial / Warehouse 1	\$0.0828	(Per Square Foot)
Institutional ¹	\$0.6650	(Per Square Foot)
Transient Occupancy 12	\$337.20	(Per Unit)

Prorated assessment based on Month of Certificate of Occupancy (CO) Issued ³

Month	Residential	Commercial	Industrial / Warehouse	Institutional	Transient Occupancy
October	\$224.75	\$0.5253	\$0.0759	\$0.6096	\$309.10
November	\$204.32	\$0.4775	\$0.0690	\$0.5542	\$281.00
December	\$183.89	\$0.4298	\$0.0621	\$0.4988	\$252.90
January	\$163.45	\$0.3820	\$0.0552	\$0.4433	\$224.80
February	\$143.02	\$0.3343	\$0.0483	\$0.3879	\$196.70
March	\$122.59	\$0.2865	\$0.0414	\$0.3325	\$168.60
April	\$102.16	\$0.2388	\$0.0345	\$0.2771	\$140.50
May	\$81.73	\$0.1910	\$0.0276	\$0.2217	\$112.40
June	\$61.30	\$0.1433	\$0.0207	\$0.1663	\$84.30
July ⁴	\$286.04	\$0.6685	\$0.0966	\$0.7758	\$393.40
August	\$265.61	\$0.6208	\$0.0897	\$0.7204	\$365.30
September	\$245.18	\$0.5730	\$0.0828	\$0.6650	\$337.20

Notes:

- 1 As adopted by Resolution No. 24-151R
- ² Transient Occupancy includes short term rentals, hotel/motel, recreational vehicle parks and timeshare units.
- ³ As adopted by Resolution No. 00/01-067
- 4 COs issued on July 1 will pay a prorated assessment for 14 months as properties cannot be placed on the new tax roll

Impact and Mobility Fee Rates – Residential Effective November 18, 2024

Residential Impact Fees (DOES NOT include \$105.00 in administrative fees)

Impact Fee Type	Single-Family Detached	Rural* Single-Family	Mobile Home	Multi-Family	Condo	Townhouse
Mobility	\$9,999.00	\$15,941.00	\$5,296.00	\$7,754.00	\$7,754.00	\$7,754.00
School	\$12,923.00	\$12,923.00	\$8,740.00	\$12,165.00	\$4,702.00	\$8,262.00
Park	\$2,304.72	\$2,304.72	\$1,698.66	\$1,117.97	\$1,117.97	\$2,304.72
Fire	\$780.00	\$780.00	\$780.00	\$303.00	\$303.00	\$303.00
Total	\$26,006.72	\$31,948.72	\$16,514.66	\$21,339.97	\$13,876.97	\$18,623.72

^{*}Outside of the Urban Growth Boundary

Mixed-Use Areas (e.g., Celebration & Harmony)

Impact Fee Type	Single-Family Detached	Multi-Family	Condo	Townhouse
Mobility	\$7,499.00	\$5,815.00	\$5,815.00	\$5,815.00
School	\$12,923.00	\$12,165.00	\$4,702.00	\$8,262.00
Park	\$2,304.72	\$1,117.97	\$1,117.97	\$2,304.72
Fire	\$780.00	\$303.00	\$303.00	\$303.00
Total	\$23,506.72	\$19,400.97	\$11,937.97	\$16,684.72

Residential Special Assessments FY2025

Month of C.O.	Fire/Rescue	Solid Waste	Total Due per Dwelling Unit
October 2024	\$224.75	\$350.15	\$574.90
November 2024	\$204.32	\$318.32	\$522.64
December 2024	\$183.89	\$286.49	\$470.38
January 2025	\$163.45	\$254.65	\$418.10
February 2025	\$143.02	\$222.82	\$365.84
March 2025	\$122.59	\$190.99	\$313.58
April 2025	\$102.16	\$159.16	\$261.32
May 2025	\$81.73	\$127.33	\$209.06
June 2025	\$61.30	\$95.50	\$156.80
July 2025	\$286.04	\$445.64	\$731.68
August 2025	\$265.61	\$413.81	\$679.42
September 2025	\$245.18	\$381.98	\$627.16





Brevard County Impact Fee Update Study

FINAL REPORT March 3, 2015



Prepared for:

Brevard County

2725 Judge Fran Jamieson Way, Bldg. A Viera, Florida 32940 ph (321) 633-2068 fax (321) 633-2115

Prepared by:

Tindale Oliver

036015-00.14

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Tampa, Florida, 33602
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fax (813) 226-2106
E-mail: nkamp@tindaleoliver.com



March 3, 2015

Mr. Stephen Swanke, Program Manager Brevard County Planning & Development Department 2725 Judge Fran Jamieson Way Viera, Florida 32940

Re: Brevard County Impact Fee Update Study

Dear Mr. Swanke:

Enclosed is the Final Technical Report of the Brevard County Impact Fee Update Study. If you should have any questions concerning this report, please do not hesitate to contact me or Nilgün Kamp.

It has been our pleasure to have worked with the County and School District staff on this important project.

BALTIMORE

Sincerely,

Steven A. Tindale, P.E., AICP

Stever A Tindale

President

BREVARD COUNTY IMPACT FEE UPDATE STUDY

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Executive Summary

Brevard County's impact fee program includes fees in the following seven service areas:

- Correctional Facilities
- Libraries
- Fire Rescue Facilities
- EMS Facilities
- Solid Waste Facilities
- Educational Facilities
- Transportation

With the exception of solid waste and educational facilities impact fees, all of the impact fees were last updated in 2000. The solid waste impact fee was last updated in 1991. The educational facilities impact fee was initially implemented in 2004, and has not been updated since then. In 2009, a moratorium on the collection of transportation impact fees was approved by the Board of County Commissioners (BOCC) and remains in effect through December 31, 2016. All other impact fees are currently being collected.

Brevard County has retained Tindale Oliver to prepare an update study to reflect changes to the cost, credit, and demand components since the last update studies. It should be noted that figures calculated in this study represent the technically defensible level of impact fees that the County could charge; however, the BOCC may choose to discount the fees as a policy decision.

An impact fee is a one-time capital charge levied against new development to fund infrastructure capacity consumed by new growth. Impact fee revenues can only be used for capacity expansion projects and not for expenses related to replacement, maintenance or operations. In Florida, legal requirements related to impact fees have primarily been established through case law since the 1980's. Generally speaking, 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 a list of capacity-adding projects included in the

County's Capital Improvement Plan, Capital Improvement Element, or another planning document/Master Plan.

In addition, one of the requirements of the 2006 Florida Impact Fee Act is that the studies be based on most recent and localized data.

This technical report has been prepared to support legal compliance with existing case law and statutory requirements. The methodology used in this report is consistent with that used in the 2000 and 2004 technical reports, which is the basis of the current adopted fees.

Primary factors affected the County's impact fee levels include the following:

- Since the last update studies, the County built additional infrastructure and increased the capital asset inventory in some of the program areas. This results in an increased asset value, which in turn, increases the impact fee.
- In almost all service areas, the cost to build capital facilities increased since 2000.
- In some of infrastructure areas, the County experienced a reduction in capital funding levels, which resulted in a lower credit, which in turn increases the impact fee.
- Finally, the demand component was adjusted to reflect the most recent available data, which affects different land uses at different rates.

The following table provides a summary of calculated fees. A comparison of calculated fee schedule to the current adopted fee for six representative land uses is presented in Table ES-

1. The complete schedules include approximately 40 land uses and are included in the remaining sections of this report.

At this time, Brevard County exempts industrial land uses. This study calculated a fee for these land uses in case this exemption is discontinued in the future.

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Table ES-1

Summary of Brevard County Impact Fees - All Program Areas

							district.							
			Correc	Correctional Facilities (1)	ies ⁽¹⁾	S	Solid Waste (2)		Libr	Library Facilities (3)			Fire Rescue	
ITELUC	Land Use	Unit	Adopted	Full	Percent	Adopted	Full	Percent	Adopted	Full	Percent	Adopted	Full	Percent
				Rate	Change	_	Rate	Change		Rate	Change	Rate	Rate	Change
	RESIDENTIAL:		CALL STATE			The Court of						and the said		November 1
210	Single Family (Detached)	du	\$71,99	\$233	224%	\$160	\$110	-31%	\$63,84	\$369	478%	\$54.08	\$326	503%
No.	NON-RESIDENTIAL:	CHEST !			100 mm 10			0 10			THE STATE OF	No other	ALC: NO.	
110	General Light Industrial	1,000 sf	N/A	\$96	N/A	*	\$45	N/A	N/A	N/A	N/A	N/A	\$157	N/A
710	General Office 50,000 sf or less	1,000 sf	\$34.17	\$197	477%	**	\$93	N/A	N/A	N/A	N/A	\$25.67	\$320	1147%
820	Retail 100,001-300,000 sfgla	1,000 sfgla	\$100.18	\$349	248%	*	\$164	N/A	N/A	N/A	N/A	\$75.26	\$568	655%
912	Bank/Savings Drive-In	1,000 sf	\$81.48	\$318	290%	*	\$150	N/A	N/A	N/A	N/A	\$61.22	\$518	746%
934	Fast Food Rest, w/ Drive-Thru	1,000 sf	\$428.40	\$1,241	190%	**	\$584	N/A	N/A	N/A	N/A	\$321.84	\$2,022	528%
			Emer	Emergency Services (5)	es ⁽⁵⁾	Educa	Educational Facilities (6)	ties ⁽⁶⁾	Tra	Transportation ⁽⁷⁾	n	Tot	Total (All Fees) ⁽⁸⁾	Ē
ITE LUC	Land Use	Unit	Adopted Rate	Full Calculated Rate	Percent Change	Adopted Rate	Full Calculated Rate	Percent Change	Adopted Rate	Full Calculated Rate	Percent Change	Adopted Rate	Full Calculated Rate	Percent Change
	RESIDENTIAL:	E 500												
210	Single Family (Detached)	란	\$38.65	\$66	71%	\$4,445	\$10,193	129%	\$4,353	\$7,238	66%	\$9,186.56	\$18,535	102%
	NON-RESIDENTIAL:	THE PERSON												
110	General Light Industrial	1,000 sf	N/A	\$31	N/A	N/A	N/A	N/A	N/A	\$4,619	N/A	N/A	\$4,948	N/A
710	General Office 50,000 sf or less	1,000 sf	\$18.35	\$63	243%	N/A	N/A	N/A	\$5,058	\$10,256	103%	\$5,136.19	\$10,929	113%
820	Retail 100,001-300,000 sfgla	1,000 sfgla	\$53.78	\$113	110%	N/A	N/A	N/A	\$5,270	,,	117%	\$5,499.22	\$12,610	129%
912	Bank/Savings Drive-In	1,000 sf	\$43.74	\$103	136%	N/A	N/A	N/A	\$23,331	\$24,865	7%	\$23,517.44	\$25,954	10%
934	Fast Food Rest. w/ Drive-Thru	1,000 sf	\$229.99	\$401	74%	N/A	N/A	N/A	\$35,791	\$83,355	133%	\$36,771.23	\$87,603	138%
	(1) Source: Table II-9 (2) Source: Table III-5 (3) Source: Table V-12 (4) Source: Table V-10 (5) Source: Table V-11 (6) Source: Table V-11													
(6) Source (7) Source (8) Sum (Source: Table VI-11 Source: Appendix G, Table G-1 Sum of each program area's adopted rate and full calculated rate	nd full calculate	d rate											

I. Introduction

Brevard County's impact fee program includes fees in the following seven service areas:

- Correctional Facilities
- Libraries
- Fire Rescue Facilities
- EMS Facilities
- Solid Waste Facilities
- Educational Facilities
- Transportation

With the exception of solid waste and educational facilities impact fees, all of the impact fees were last updated in 2000. The solid waste impact fee was last updated in 1991. The educational facilities impact fee was initially implemented in 2004, and has not been updated since then. In 2009, a moratorium on the collection of transportation impact fees was approved by the Board of County Commissioners (BOCC) and remains in effect through December 31, 2016. All other impact fees are currently being collected.

Brevard County has retained Tindale Oliver to prepare an update study to reflect changes to the cost, credit, and demand components since the last update studies. It should be noted that figures calculated in this study represent the technically defensible level of impact fees that the County could charge; however, the BOCC may choose to discount the fees as a policy decision.

Methodology

The methodology used to update the Brevard County's impact fee program is a consumption-based impact fee methodology, which is used throughout Florida. This methodology was also used in preparing the current adopted impact fees. 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 in the case of all impact fee program areas with the exception of transportation and educational facilities. In the case of educational facilities, student generation rate is used and in the case of transportation, vehicle-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. In addition, per legal requirements, a credit is subtracted from the total cost to account for the value of future tax contributions of the new development toward any capacity expansion projects through other revenue sources. Contributions used to calculate the credit component include estimates of future non-impact fee revenues generated by the new development that will be used toward capacity expansion projects. In other words, case law requires that the new development should not be charged twice for the same service.

Legal Standard Overview

In Florida, legal requirements related to impact fees have primarily been established through case law since the 1980's. Generally speaking, 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 and a list of capacity-adding projects included in the County'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. The payment must be reduced by the percentage share the project's traffic represents of the added capacity of the selected improvement (up to a maximum of 20% or to an amount specified by ordinance, whichever results in a higher credit). The courts have not yet taken up the issue of whether a local government may still charge an impact/mobility fee in lieu of proportionate share if the impact/mobility fee is higher than the calculated proportionate share contribution.
- **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 3180(5)(f), Florida Statutes, including:
 - 1. Adoption of long-term strategies to facilitate development patterns that support multimodal 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 multimodal 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.
 - 6. Reducing impact fees or local access fees to promote development within urban areas, multimodal transportation districts, and a balance of mixed-use

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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.

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 principle 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 as a condition for improving property and is not established for the primary purpose of generating revenue, as are taxes.
- Impact fee expenditures must convey a proportional benefit to the fee payer. This is accomplished through the establishment of benefit districts, 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. The technical report also documents the methodology components for each of the impact fee areas 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 County and other sources, as indicated.

II. Correctional Facilities

Correctional facility impact fees are used to fund capital construction and expansion of services related to land, facilities, and capital equipment required to support the additional correctional facility demand created by new growth. This section presents the results of the correctional facility impact fee update study for Brevard County and will serve as the technical support document for the updated correctional facilities impact fee schedule.

There are several major elements associated with the development of the correctional facilities impact fee. These include:

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

These various elements are summarized in the remainder of this section.

Facility Inventory

The correctional facilities inventory includes the County's jails and other related facilities that are primarily for the provision of corrections and does not include any of the buildings or portions thereof included in the calculation of other impact fees.

According to information provided by the County, Brevard County has almost 340,000 square feet of correctional facility-related space. This includes the square footage of all primary correctional facility buildings as well as other support buildings, such as garages, warehouses, trailers, and other similar facilities. Table II-1 presents a summary of the correctional facilities land and building inventory and their current estimated values.

The building value per square foot is estimated based on research on recently built correctional facilities in Brevard County and other Florida jurisdictions, insurance values of existing buildings, and discussions and information from architectural and construction companies. This value is estimated at \$240 per square foot for correctional facilities and \$75 per square foot for the support facilities included in the inventory. Appendix B provides further detail on the building cost estimates.

The land value for correctional facilities is estimated at \$5,000 per acre based on an analysis of value of the parcel where existing facilities are located, vacant land values and parcels sold in the County over the last three years. Additional detail is provided in Appendix B.

Total building value of correctional facilities is estimated at \$76.76 million and the land value at \$0.65 million, for a total of \$77.41 million.

Tindale Oliver

Table II-1

Correction	onal Facilitie	es Land a	Correctional Facilities Land and Building Inventory	nventor	∢		
Facility Description	Year Acquired/Built ⁽¹⁾	Number of Acres ⁽¹⁾	Square Feet ⁽¹⁾	Number of Beds ⁽¹⁾	Land Value ⁽²⁾	Building Value ⁽³⁾	Total Building and Land Value (4)
Primary Buildings:	100	200	Story Students				
Support and Service Area	1986		42,114	N/A		\$10,107,360	
BCDC, POD A Jail	1986		31,828	190		\$7,638,720	
BCDC, POD B Jail	1986		31,677	186		\$7,602,480	
BCDC, POD CJail	1986		31,734	190		\$7,616,160	Se line for
BCDC, POD D Jail	1986		32,031	192		\$7,687,440	
Minimum Security Jail (Womens Annex)	1986		28,800	297		\$6,912,000	
Visitation Building	1996		1,440	N/A		\$345,600	
Central Feeding Building	1999		2,380	N/A		\$571,200	
Sprung Structure - Tent 1	2006		10,273			\$2,465,520	
Sprung Structure - Tent 2	2006		10,273	300		\$2,465,520	
Sprung Structure - Tent 3	2006		10,273	,		\$2,465,520	
Sprung Structure - Tent 4	2006		10,273			\$2,465,520	
Laundry Building	2006		3,420	N/A		\$820,800	
Mental Health/Medical Facility	2008		54,622	346		\$13,109,280	
Kitchen Building	2011	T9.05T	10,000	N/A	טכט,נכסל	\$2,400,000	
Subtotal Primary Buildings			311,138			\$74,673,120	
Support Buildings:							
Central Logistics Building	2013		672	N/A		\$50,400	
Sheriffs's Garage	1990		6,600	N/A		\$495,000	
Auto Processing Garage	1995		5,720	N/A		\$429,000	
Kennel	1996		800	N/A		\$60,000	
Jail Warehouse	1986		7,550			\$566,250	
1066	1000		0.3C C	2 (2		C3C 10C3	

Building Value per Square Foot⁽⁵⁾ Land Value per Acre⁽⁶⁾

Subtotal -- Support Buildings

130.61

338,918 27,780

1,701

\$653,050 \$76,756,620

\$77,409,670

\$2,083,500

\$5,000

\$226

672 672 672 672

Z Z A A

Office Trailer Storage Trailer

Modular Building - Detention Center Expansion

1999 2007 1999 1986 1996 1995

Detention Center Warehouse Expansion

Jail Warehouse Warehouse/ Office Facilities Management

3,750 7,550

Z Z Z S S S

\$281,250 \$50,400 \$50,400 \$50,400 \$50,400

- Source: Brevard County
- Number of acres multiplied by the land value per acre (Item 6) Square feet multiplied by \$240 for primary buildings and \$75 in the case of support buildings Sum of land and building values
- Total building value (Item 3) divided by total square footage
- Estimated based primarily on the value of the current inventory as well as the vacant land values in the county and vacant land sales for parcels with similar acreage

In addition to land and building costs, the correctional facility services also require the use of necessary equipment and vehicles. As presented in Table II-2, the total vehicle and equipment value is estimated at \$9.3 million based on information provided by the County.

Table II-2
Correctional Facilities Equipment and Vehicle Inventory

Facility Description	Units ⁽¹⁾	Unit Value ⁽²⁾	Total Acquired Value ⁽³⁾
Defibrilators	106	\$1,468	\$155,618
Respirators	12	\$1,206	\$14,471
Vehicles (exlcuding buses)	235	\$19,107	\$4,490,161
Buses	4	\$122,531	\$490,123
Trailers	16	\$4,026	\$64,423
Automotive (Miscellaneous)	24	\$3,827	\$91,857
Firearms	363	\$347	\$126,076
Firearm Scopes	2	\$1,013	\$2,025
Computers	56	\$2,355	\$131,898
Computer/Network Equipment	7	\$2,711	\$18,978
Exercise Equipment/Lockers	17	\$3,443	\$58,527
Dogs	15	\$7,813	\$117,200
Dogs (Miscellaneous)	5	\$1,866	\$9,332
Radios/Phones	687	\$2,924	\$2,008,520
Tasers	58	\$837	\$48,536
Radar	42	\$2,984	\$125,328
Lightbars	108	\$1,046	\$112,952
Sewing Machines	12	\$2,519	\$30,226
Food Prep Equipment	41	\$2,427	\$99,493
Cameras and Video Systems	81	\$1,954	\$158,251
Bulletproof Vests/Ballistic Shields/Body Suits	20	\$1,833	\$36,665
Forklifts	3	\$10,633	\$31,900
Generators	4	\$6,487	\$25,949
Lifts	4	\$4,495	\$17,980
Inmate Containment	21	\$6,484	\$136,171
Printers/Scanners	11	\$3,398	\$37,380
Network Adapters	23	\$2,000	\$46,000
Laundry Equipment	12	\$5,529	\$66,353
Servers	3	\$5,079	\$15,236
Terminals	43	\$1,567	\$67,381
Network Switches	9	\$1,100	\$9,896

542

Table II-2 (Continued)

Correctional Facilities Equipment and Vehicle Inventory

Facility Description	Units ⁽¹⁾	Unit Value ⁽²⁾	Total Acquired Value ⁽³⁾
Shredders	2	\$1,386	\$2,77 3
Containers	12	\$2,480	\$29,758
Shop Fans	2	\$1,999	\$3,998
Storage Tanks	3	\$1,200	\$3,601
Medical Equiment	7	\$2,687	\$18,811
Shop Equipment	15	\$2,920	\$43,805
Nightvision Goggles	4	\$3,735	\$14,938
Security Equipment	5	\$17,008	\$85,038
Office Equipment	7	\$2,108	\$14,759
Currency Counters	2	\$2,890	\$5,779
Hi-Speed Internet System	1	\$12,372	\$12,372
Baler	1	\$1,800	\$1,800
Enclosed Building	1	\$8,640	\$8,640
Dentist Chair	1	\$5,8 7 9	\$5,879
Modular Home	1	\$129,601	\$129,601
Fingerprint Machine	1	\$38,431	<u>\$38,431</u>
Total Vehicle/Equipment Cost			\$9,264,889

(1) Source: Brevard County

(2) Total value (Item 3) divided by units (Item 1)

(3) Source: Brevard County

Service Area and Population

Correctional facility services are provided countywide. As such, it is appropriate that the benefit district for this impact fee to be countywide.

The correctional facilities impact fee program requires the use of population data in calculating current level of service. To reflect the total population served by County services, this impact fee study considers not only the resident or permanent population of the County, but also the number of seasonal residents and visitors as well. Therefore, for purposes of this technical analysis, the weighted seasonal population will be used in all population estimates and projections. In addition, correctional facilities is one of the program areas where functional population is used to capture the presence of all people within the community, whether residents, workers, or visitors, to arrive at a total estimate

of effective population need to be served. A more detailed explanation of weighted and functional population estimates is provided in Appendix A.

Level of Service

As presented in Table II-3, there is a relation between population growth and the need for correctional facilities. Table II-3 presents the average daily jail population over the last fourteen years, along with the corresponding population. The relation between the population and jail population is used to establish a general trend in the need for correctional facilities. To account for random fluctuations, the three-year average number of bookings and population also is shown.

Table II-3
Service Area Population and Jail Bookings

	(1)	Average Daily	Annua	al Change	3-Year	Average
Year	Population ⁽¹⁾	Population ⁽²⁾	Population	Daily Population	Population	Daily Population
2000	510,679	1,092				
2001	519,668	1,147	1.8%	5.0%		
2002	529,252	1,239	1.8%	8.0%		
2003	539,522	1,370	1.9%	10.6%	1.8%	7.9%
2004	552,573	1,348	2.4%	-1.6%	2.0%	5.7%
2005	564,583	1,444	2.2%	7.1%	2.2%	5.4%
2006	571,873	1,632	1.3%	13.0%	2.0%	6.2%
2007	577,145	1,802	0.9%	10.4%	1.5%	10.2%
2008	580,491	1,812	0.6%	0.6%	0.9%	8.0%
2009	581,465	1,481	0.2%	-18.3%	0.6%	-2.4%
2010	583,396	1,585	0.3%	7.0%	0.4%	-3.6%
2011	585,333	1,610	0.3%	1.6%	0.3%	-3.2%
2012	585,806	1,533	0.1%	-4.8%	0.2%	1.3%
2013	588,811	1,424	0.5%	-7.1%	0.3%	-3.4%
2014	594,202	1,456	0.9%	2.2%	0.5%	-3.2%

⁽¹⁾ Source: Appendix A, Table A-1

For planning purposes, the level-of-service (LOS) for correctional facility services is expressed in terms of jail facility beds per 1,000 residents. Using this method, Brevard County's current achieved LOS is 2.86 beds per 1,000 residents. The County's current adopted LOS standard for correctional facilities is 3.0 beds per 1,000 residents. Given that the achieved LOS is lower than the adopted standard, impact fee calculations for correctional facilities are based on the achieved LOS. As mentioned previously, for impact fee calculations, the LOS should be measured using functional population to capture workers, visitors, and residents to calculate the correctional facilities impact fee. In terms

⁽²⁾ Source: Brevard County Sheriff's Office

of functional population, the current LOS is 3.09 beds per 1,000 functional residents. Table II-4 summarizes the calculation of the County's current LOS using both weighted seasonal population and functional population.

Table II-4
Current Level-of-Service

	Year	2014
Component	Weighted Population	Functional Population
Population ⁽¹⁾	594,202	550,608
Number of Beds ⁽²⁾	1,701	1,701
LOS (beds per 1,000 residents) ⁽³⁾	2.86	3.09
Adopted LOS Standard (beds per 1,000 residents) (4)	3.00	3.24

- (1) Appendix A, Table A-1 for weighted seasonal population and Table A-9 for functional population
- (2) Source: Table II-1
- (3) Number of beds (Item 2) divided by the population (Item 1), multiplied by 1,000
- (4) Source: Brevard County Comprehensive Plan, Chapter 13. LOS standard for functional resident is calculated based on the ratio of actual LOS in terms of weighted population versus functional population

Table II-5 summarizes a LOS comparison between Brevard County and comparable Florida counties. The LOS is displayed in terms of permanent population for 2013 for all entities because functional population data analysis has not been completed for these entities, as it was for Brevard County. In addition, the number of beds for all jurisdictions presented in the following table is based on gross beds. As presented, Brevard County's LOS is within the range of these counties.

Table II-5
Level-of-Service Comparison

Jurisdiction	Gross Beds ⁽¹⁾	2013 Permanent Population ⁽²⁾	LOS (Beds per 1,000 Residents) ⁽³⁾
Orange County	1,053	1,202,978	0.88
Sarasota County	1,020	385,292	2.65
Volusia County	1,494	498,978	2.99
Pasco County	1,432	473,566	3.02
Brevard County (Existing)	1,701	548,424	3.10
Lee County	2,009	643,367	3.12
Manatee County	1,056	333,880	3.16
Seminole County	1,396	431,074	3.24
Collier County	1,304	333,663	3.91
Polk County	2,576	613,950	4.20
St. Lucie County	1,370	281,151	4.87
Indian River County	712	139,586	5.10
Marion County	1,924	335,008	5.74
Okeechobee County	232	39,762	5.83

⁽¹⁾ Source: Each jurisdiction's respective Sheriff's Office or Correctional Facilities Department

Cost Component

Table II-6 provides the total asset value per resident. As shown, total asset value owned by the County amounts to \$86.7 million or \$51,000 per bed. The total impact cost per functional resident for correctional facilities in Brevard County is calculated by multiplying the total cost per bed by the LOS (beds per 1,000 functional residents) and dividing that figure by 1,000, which is approximately \$157 per functional resident.

⁽²⁾ Source: University of Florida, Bureau of Economic and Business Research

⁽³⁾ Gross beds (Item 1) divided by the 2013 permanent population (Item 2) divided by 1,000 for each jurisdiction

Table II-6
Total Impact Cost per Functional Resident

Description	Figure	Percent of Total Value (7)
Building Value ⁽¹⁾	\$76,756,620	88.56%
Land Value ⁽¹⁾	\$653,050	0.75%
Equipment Value ⁽²⁾	\$9,264,889	<u>10.69%</u>
Total Asset Value	\$86,674,559	100.00%
Number of Beds ⁽³⁾	1,701	
Net Asset Value per Bed ⁽⁴⁾	\$50,955	
Current LOS (Beds per 1,000 Functional Residents) ⁽⁵⁾	3.09	
Total Impact Cost per Functional Resident ⁽⁶⁾	\$157.45	

- (1) Source: Table II-1
- (2) Source: Table II-2
- (3) Source: Table II-4
- (4) Total asset value divided by the number of beds (Item 3)
- (5) Source: Table II-4
- (6) Net asset value per bed (Item 4) multiplied by the current correctional facilities LOS (Item 5) divided by 1,000
- (7) Percent of building value, land value, and equipment value of the total asset value

Credit Component

To avoid overcharging new development for the correctional facility impact fee, a review of the capital financing program for correctional 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, and equipment included in the inventory.

A review of Brevard County's capacity expansions expenditures over the past five years and the next five years indicates that all planned correctional related capital expansion projects were/will be funded with impact fee revenues. Therefore, a credit for cash-funded capital expansion expenditures is not necessary.

Debt Service Credit

Any outstanding bond issues related to the expansion of the County's correctional facilities also will result in a credit to the impact fee. Brevard County currently is repaying debt service on sales tax refunding bonds issued to fund the construction and improvements at

the County jail, which will be paid off in FY 2025. The debt service is paid back with Court fees and other General Government Revenues.

To calculate the credit of the outstanding loan, the present value of the total remaining payments of the bond issue is calculated and then divided by the average annual functional population estimated over the remaining life of the bond issue. As presented in Table II-7, the resulting credit for the correctional facilities-related debt is \$18 per functional resident.

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Debt Service Credit (1) Table II-7

						Total Debt Service Credit per Resident
875 \$17.98	587,875	\$10,569,477	\$11,794,547	12	13	Brevard County Jail Construction and Improvements (Sales Tax Refunding Revenue Bonds, Series 2013)
ion Credit per d ⁽⁵⁾ Resident ⁽⁶⁾	Avg Annual Functional Population During Remaining Issue Period ⁽⁵⁾	Present Value of Payments Remaining ⁽⁴⁾	Total Remaining Correctional Debt Service ⁽³⁾	Fiscal Years Remaining ⁽²⁾	Total Number of Fiscal Fiscal Years Years of Debt Issue (1) Remaining (7)	Description

- The total debt service remaining, including principal and interest payments The present value in 2014 dollars of the annual debt service payments

- Source: Brevard County
 Source: Brevard County
 The total debt service remaining,
 The present value in 2014 dollars
 Source: Appendix A, Table A-9
 The present value of payments re The present value of payments remaining (Item 4) divided by the average annual functional population (Item 5) for each respective debt service issue

Net Correctional Facilities Impact Cost

The net correctional impact fee per resident is the difference between the cost component and the credit component. Table II-8 summarizes the calculation of the net correctional facility cost per resident. The first section of Table II-8 identifies the total impact cost as \$157 per functional resident for correctional facilities. The second section of the table identifies the revenue credits for the impact fee. The debt service credit calculation includes a total of approximately \$18 per functional resident. The net impact cost per resident is the different between the total impact cost and the total revenue credit per resident. This results in a net impact cost of \$139 per functional resident, which also represents the LOS for impact fee purposes.

Table II-8
Net Impact Cost per Functional Resident

Calculation Step	Impact Cost	Revenue Credits
Impact Cost		
Total Impact Cost per Functional Resident ⁽¹⁾	\$157.45	28
Debt Service Credit		
Debt Service Credit per Resident ⁽²⁾		\$17.98
Net Impact Cost	***************************************	
Net Impact Cost per Functional Resident ⁽³⁾	\$139.47	

(1) Source: Table II-6(2) Source: Table II-7

(3) Total impact cost per resident (Item 1) less the debt service credit per resident (Item 2)

Calculated Correctional Facilities Impact Fee Schedule

Table II-9 presents the calculated correctional facilities impact fee schedule for residential and non-residential land uses, based on the net impact fee cost per resident figures presented in Table II-8. The increase in impact fee levels is due to increased inventory, which resulted in increased level of service, higher costs, and reduced credit. In addition, changes in demand variables contributed to the fluctuations in fees.

Table II-9 Calculated Correctional Facilities Impact Fee Schedule

LUC	Calculated Correctional Facili	Impact Unit	Functional Resident Coefficient ⁽¹⁾	Total Impact Fee ⁽²⁾	Current Impact Fee ^[3]	Percent Change ⁽⁴⁾
	RESIDENTIAL:					
210	Single Family (Detached)	du	1,67	\$233	\$71,99	224%
220	Multi-Family (Apartment); 1-2 Stories	du	0.88	\$123 \$123	\$62,73 \$41,25	96% 198%
222/223	Multi-Family (Apartment); 3+ Stories	du	0.88	\$123	\$65.61	88%
231 232	Condo/Duplex/Townhouse; 1-2 Stories Condo/Duplex/Townhouse; 3+ Stories	du	0.88	\$123	\$43.13	185%
240	Mobile Home	du	1.09	\$152	\$56,65	168%
240	TRANSIENT, ASSISTED, GROUP:	- 00	1105			200
310	Hotel	room	1.05	\$146	\$20,22	622%
320	Motel	room	1.01	\$141	\$20.22	597%
620	Nursing Home	bed	0.90	\$126		
		du	0.93	\$130	\$60.52	115%
253	Assisted Care Living Facility (ACLF) RECREATION:	uu	0,53	7230	500.52	11570
416	IRV Park	site	0.50	\$70	\$57.00	23%
420	Marina	boat berth	0.19	\$26	\$11.15	133%
430	Golf Course	hole	1.08	\$151	\$191.83	-21%
444	Movie Theater w/Matinee	screen	5.98	\$834	\$621.34	34%
491	Raquet/Tennis Club	court	3.16	\$441	\$106.95	312%
492	Health/Fitness Club	1,000 sf	3.09	\$431	\$60.20	
102	INSTITUTIONS:	Dec Co			THE STATE OF	
520	Elementary School (Private)	student	0.06	\$8	\$5,20	54%
522	Middle School (Private)	student	0.07	\$10		36%
530	High School (Private)	student	0.08	\$11	\$9.05	22%
540	University/Junior College (7,500 or fewer students) (Private)	student	0.10	\$14	\$7.00	100%
550	University/Junior College (more than 7,500 students) (Private)	student	0.07	\$10		43%
560	Church	1,000 sf	0.51	\$71	\$16.42	332%
565	Day Care Center	1,000 sf	0.89	\$124		
610	Hospital	1,000 sf	1,37	\$191	\$45.81	317%
640	Animal Hospital/Veterinary Clinic	1,000 sf	2.32	\$324		
040	OFFICE:	Name of				THE REAL PROPERTY.
	General Office 50,000 sf or less	1,000 sf	1.41	\$197	\$34.17	477%
	General Office 50,000 sr of ress	1,000 sf	1.19	\$166		386%
710	General Office 100,001 - 200,000 sf	1,000 sf	1,01	\$141	\$34.17	
710	General Office 200,001 - 400,000 sf	1,000 sf	0,85	\$119		
	General Office greater than 400,000 sf	1,000 sf	0.77	\$107	\$34.17	
	Medical Office/Clinic 10,000 sf or less	1,000 sf	1.14	\$159		178%
720	Medical Office/Clinic greater than 10,000 sf	1,000 sf	1.66	\$232		306%
750	Office Park	1,000 sf	1.04	\$145		
730	RETAIL:	1 2,000 31	Description of		C FOR TO	
	Retail 10,000 sfgla or less	1,000 sfgla	2.45	\$342	\$244.00	40%
	Retail 10,000 sigla of ress	1,000 sfgla	2.45	\$342	\$160.44	_
	Retail 50,001-100,000 sfgla	1,000 sfgla	2.46	\$343	\$160.44	
820	Retail 100,001-100,000 sigla	1,000 sfgla	2,50	\$349		
020	Retail 300,001-500,000 sfgla	1,000 sfgla	2.55	\$356		
		1,000 sfgla	2.42	\$338		
	Retail 500,001-1,000,000 sfgla Retail greater than 1,000,000 sfgla	1,000 sfgla	2.32	\$324	\$84.78	
0.41		1,000 sf	1,47	\$205		
841 850	New/ Used Auto Sales Supermarket	1,000 sf	2.05	\$286		
		1,000 sf	5.47	\$763		
851 853	Convenience Market (24 hour) Convenience Market w/Gasoline	1,000 sf	5.83	\$813		
880/881	Pharmacy/Drug Store with or w/o Drive-Thru	1,000 sf	1.96	\$273		
890	Furniture Store	1,000 sf	0.23	\$32		
911	Bank/Savings Walk-In	1,000 sf	2.23	\$311		
911	Bank/Savings Walk-In Bank/Savings Drive-In	1,000 sf	2.28	\$318		
931	Quality Restaurant	1,000 sf	6.82	\$951		
931	High-Turnover Restaurant	1,000 sf	6.78	\$946		
934	Fast Food Rest, w/ Drive-Thru	1,000 sf	8.90	\$1,241		
934	Automobile Care Center	1,000 sf	1.50	\$209		
	Gasoline/Service Station with or w/o Car Wash	fuel pos	1.91	\$266		-
944/946	Self Service Car Wash	service bay	0.87	\$121		
947		Dervice bay	0.07		V303,23	
110	INDUSTRIAL: General Light Industrial	1,000 sf	0.69	\$96	N/A	N/A
110		1,000 sf	0.49	\$68		
120	General Heavy Industrial	1,000 sf	0.49	\$39		
150	Warehousing	1,000 sf	0.28	\$8		
151	Mini-Warehouse	T,000 SI	0.00	>0	I N/A	IN/P

⁽¹⁾ Functional resident coefficients from Appendix A, Table A-10 for residential and lodging land uses and Table A-12 for non-residential uses
(2) Proposed impact fee determined by multiplying the net impact cost per functional resident (Table II-8) by the functional resident coefficient (Item 1)

⁽³⁾ Source: Brevard County Planning and Development Department
(4) Percent change from the current impact fee rates (Item 3) to the total impact fee (Item 2)

Correctional Facilities Impact Fee Schedule Comparison

As part of the work effort in updating Brevard County's correctional facilities impact fee program, a comparison of correctional facilities impact fee schedules was completed for other Florida counties. Table II-10 presents this comparison. As presented, Brevard County's calculated fee is within the range of fees adopted by other Counties.

March 2015

Correctional Facilities Impact Fee Schedule Comparison Table II-10

	9		and an arrangement					
	(2)	Brevard County	County	Indian River	Okeechobee	Polk	Collier	Sarasota
Land Use	Unit	Calculated ⁽³⁾	Existing (4)	County ⁽⁵⁾	County ⁽⁶⁾	County ⁽⁷⁾	County ⁽⁸⁾	County ⁽⁹⁾
Date of Last Update		2014	2000	2014	2012	2009	2010	2007
Assessed Portion of Calculated ⁽¹⁾		100%	100%	100%	100%	50%	100%	100%
Residential:								
Single Family (2,000 sf)	du	\$233	\$72	\$287	\$533	\$109	\$488	\$796
Non-Residential:								
Light Industrial	1,000 sf	\$96	1	\$129	\$110	\$28	\$176	\$250
Office (50,000 sq ft)	1,000 sf	\$197	\$34	\$186	\$258	\$192	\$362	\$416
Retail (125,000 sq ft)	1,000 sf	\$349	\$100	\$441	\$551	\$214	\$597	\$1,037
Bank w/Drive-Thru	1,000 sf	\$318	\$81	\$425	\$551	\$214	\$604	\$1,037
Fast Food w/Drive-Thru	1,000 sf	\$1,241	\$428	\$1,658	\$551	\$214	\$2,297	\$1,037
(1) Represents the partian of the maximum calculated fee for each respective county that is actually charged. Eees may have been lowered increased	milmiyen	alculated fee for	r each respecti	ve county that	is actually charg	ed Feet may he	awa haan lawa	red /increased

(1) Represents the portion of the maximum calculated fee for each respective county that is actually charged. Fees may have been lowered /increased through annual indexing or policy discounts. Does not account for moratoriums/suspensions.

du = dwelling unit

(2) (3) (4) (4) (5) (6) (8) (9) Source: Table II-9

Source: Brevard County Planning & Development Department Source: Indian River County Planning Division. Fees are currently suspended.

Source: Polk County Impact Fee Administration Department. Fees are currently under moratorium through July 2015.

Source: Okeechobee County Planning & Development Department

Source: Collier County Impact Fee Administration Department

Source: Sarasota County Planning & Development Services

III. Solid Waste Facilities

This section provides the results of the solid waste facilities impact fee analysis. There are several major elements associated with the development of the solid waste facilities impact fee:

- Facility Inventory
- Service Area and Population
- Cost Component
- Credit Component
- Net Solid Waste Impact Cost
- Calculated Solid Waste Impact Fee Schedule

These various elements are summarized in this section. It should be noted that solid waste impact fees are not very common and there is limited literature. Solid waste operations are typically an Enterprise Fund and tend to be funded through assessments, tipping fees, and other similar charges. In addition, the landfill component is used by both existing and new growth on a continuous basis, and as such, it is difficult to identify the portion that is directly tied to new growth. In this study, the impact fee calculations are based on the transfer stations, recycling and mulching facilities, hazardous waste storage facilities, and other similar structures as well as the vehicles and equipment, which tend to be added/expanded with additional growth. The County's current solid waste impact fee was last updated in 1991, through a study that addressed both the solid waste rate structure and impact fees. As such, the 1991 study included a portion of the landfill assets in the impact fee calculations, which was balanced with the calculated rate levels. Because this update study addresses only the impact fee component, the inventory includes only those facilities that are directly related to growth and creates a more conservative impact fee. If the County decides to adopt this update study, it is recommended that a separate rate study is conducted to calculate the necessary solid waste rates to incorporate the entire capital cost associated with the landfills.

Facility Inventory

Brevard County Solid Waste Management Department has two landfill sites and also operates transfer stations, recycling and mulching facilities, household hazardous waste collection facilities, among others, throughout the County. The inventory that is directly related to the new growth is summarized in Table III-1. The facility and land values are based on the recently built facilities, estimates provided by the Brevard County Solid Waste Management Department, insurance values, land value of existing properties, vacant land values, and recent vacant land sales. A more detailed explanation is provided in Appendix B.

Table III-1
Summary of Solid Waste Capital Facilities Inventory

Facility Description	Address	Acres ⁽¹⁾	Facility Value ⁽²⁾	Land Value ⁽³⁾	Total Facility & Land Value ⁽⁴⁾
Transfer Stations:		No.			THE REAL PROPERTY.
Titusville Transfer Station	4366 SR 405, Titusville	11.86	\$1,900,000	\$237,200	
Scale House	4366 SR 405, Titusville	11.00	\$450,000	\$257,200	
Mockingbird Recycling and Mulching Facilities	3600 South Street, Titusville	53.27	\$1,500,000	\$1,065,400	
Storage Facility	3600 South Street, Titusville	33.27	\$202,000	\$1,005,400	
Sarno Road Transfer Station	3379 Sarno Road, Melbourne	23.20	\$12,025,000	\$464,000	
Sarno Hazardous Facility Waste Facility	3379 Sarno Road, Melbourne	25.20	\$494,000	3404,000	
Scale House	2500 Adamson Road, Cocoa	N/A	\$2,100,000	N/A	
Hazardous Waste Storage	2250 Adamson Road, Cocoa	3.00	\$226,000	\$60,000	
CDF Vehicle Maintenance Building	2500 Adamson Road, Cocoa	N/A	\$538,000	N/A	
CDF Fuel Storage and Pump Station	2500 Adamson Road, Cocoa	N/A	\$102,000	N/A	
CDF Fuel Island	2500 Adamson Road, Cocoa	N/A	\$47,000		
CDF Operations Office	2250 Adamson Road, Cocoa	N/A	\$450,000	N/A	
CDF Yard Waste Mulching	2500 Adamson Road, Cocoa	15.00	\$1,330,000	\$300,000	
Hazardous Materials Building Storage	2500 Adamson Road, Cocoa	N/A	\$42,000	N/A	TO SECURITY OF
Total		106.33	\$21,406,000	\$2,126,600	\$23,532,600
Land Value per Acre ⁽⁵⁾				\$20,000	-

⁽¹⁾ Source: Brevard County

⁽²⁾ Source: Brevard County Solid Waste Management Department, insurance values, and Solid Waste Management Plan Update, Five-Year Capital Improvement Plan FY 2011-FY 2015. Acres (Item 1) multiplied by the land value per acre (Item 6)

⁽³⁾ Acres (Item 1) multiplied by land value per acre (Item 5)

⁽⁴⁾ Sum of building (Item 2) and land value (Item 3)

⁽⁵⁾ Based on a review of values of land where existing facilities are located and vacant land sales and values

Service Area and Population

Solid waste facilities are provided on a countywide basis, and as such, a countywide benefit district is appropriate. Because facilities included in the inventory serve both the residential and commercial customers, functional population is used in this analysis. The County's current weighted seasonal and functional population estimate and future population projections are provided in Appendix A.

Cost Component

Table III-2 presents a summary of asset value related to the solid waste impact fee and resulting value per resident (\$77 per person).

Table III-2
Total Impact Cost per Resident

Capital Asset Component	Figure	Percent of Total Value ⁽⁷⁾
Total Building Value ⁽¹⁾	\$21,406,000	50%
Total Land Value ⁽²⁾	\$2,126,600	5%
Total Vehicle/Equipment Value (3)	\$18,916,038	<u>45%</u>
Total Asset Value ⁽⁴⁾	\$42,448,638	100%
2014 Functional Population ⁽⁵⁾	550,608	
Total Solid Waste Asset Value per Resident ⁽⁶⁾	\$77.09	

- (1) Source: Table III-1
- (2) Source: Table III-1
- (3) Source: Brevard County Solid Waste Management Department
- (4) Sum of the total building value (Item 1), total land value (Item 2), and total vehicle/equipment value (Item 3)
- (5) Source: Appendix A, Table A-9; Countywide
- (6) Total asset value (Item 3) divided by population (Item 4)
- (7) Each component divided by total asset value

Credit Component

To avoid overcharging new development for the solid waste facility impact fee, a review of the capital expenditures for the past five years and next five years was reviewed. 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 and land included in the inventory.

As presented in Table III-3, the County uses an average annual amount of approximately \$364,500 of the assessment revenues toward the expansion of solid waste facilities. This amount results in an annual expenditure of approximately \$0.66 per resident, which is used in the calculated the net solid waste impact fee cost.

Table III-3
Historical and Planned Capital Expansion Expenditures

Expenditure ⁽¹⁾	FY 2010 -	FY 2015 -	Total		
Expenditure	2014	2019			
Solid Waste Capacity Expansion Projects:					
Assessments			(4) E 6 E		
Sarno Household Hazardous Waste Facility	\$806,232	\$0	\$806,232		
CDF New Scale House	\$0	\$1,400,000	\$1,400,000		
Titusville Transfer Station Land Acquisition	<u>\$0</u>	\$1,438,500	\$1,438,500		
Total Capital Expansion Expenditures \$806,232 \$2,838,500					
Average Annual Capital Expansion Expenditures (2)					
Average Annual Population ⁽³⁾					
Capital Expansion Expenditures per Functiona	Resident ⁽⁴⁾		\$0.66		

- (1) Source: Brevard County Solid Waste Management Department
- (2) Total expenditures divided by 10 years
- (3) Source: Appendix A, Table A-9; Countywide
- (4) Average annual capital expenditures (Item 2) divided by the average annual functional population (Item 3)

Net Solid Waste Impact Cost

The net impact fee per resident is the difference between the cost component and the credit component. Table III-4 summarizes the calculation of the net solid waste impact cost per resident, which is also the relevant LOS for impact fee purposes and should be included in the Comprehensive Plan as such.

Table III-4
Net Impact Cost per Functional Resident

rect impact cost per l'unenener mon		
Calculation Step	Impact Cost	Revenue Credits
Impact Cost		
Total Impact Cost per Functional Resident ⁽¹⁾	\$77.09	
Revenue Credit		
Avg Annual Capital Expansion Credit per Functional Resident ⁽²⁾		\$0.66
Capitalization Rate		3.0%
Capitalization Period (in years)		25
Capital Expansion Credit per Functional Resident (3)		\$11.49
Net Impact Cost		
Net Impact Cost per Functional Resident ⁽⁴⁾	\$65.60	

(1) Source: Table III-2(2) Source: Table III-3

Calculated Solid Waste Impact Fee Schedule

The calculated solid waste impact fee for each residential land use is presented in Table III-5. The net impact cost per resident calculated in Table III-4 is multiplied by the functional resident coefficient for each land use. As mentioned previously, the current adopted fee includes a portion of capital costs associated with landfills while the calculated fee is based only on facilities that are directly related to new growth. At this time, Brevard County calculates the solid waste impact fee for non-residential land uses on a case-by-case basis, based on similar facilities. As such, a comparison for these fees was not available. In addition, because solid waste impact fees are not commonly implemented, a comparison of fees to other Florida jurisdiction is not included in this report.

⁽³⁾ The present value of the capital improvement credit per functional resident (Item 2) at a discount rate of 3% with a capitalization period of 25 years. The capitalization rate estimate is based on interest rate paid for debt service on recent bond issues.

⁽⁴⁾ Total impact cost per resident (Item 1) less the capital expansion credit per resident (Item 3)

Table III-5

LUC	Land Use	Impact Unit	Functional Resident Coefficient ⁽¹⁾	Total Impact Fee ⁽²⁾	Current Impact Fee ⁽³⁾	Percent Change ^{[4}
M.CO	RESIDENTIAL:		La Carrier	TVC - E		
210	Single Family (Detached)	du	1,67	\$109.5\$	\$160	-32
220	Multi-Family (Apartment); 1-2 Stories	du	0,88	\$57.73	\$120	-57
22/223	Multi-Family (Apartment); 3+ Stories	du	0,88	\$57.73	\$120	-52
231	Duplex/Townhouse: 1-2 Stories	du	0,88	\$57.73	\$160	-64
231	Condo; 1-2 Stories	du	0.88	\$57.73	\$120	-57
232	Townhouse: 3+ Stories	du	0,88	\$57.73	\$160	-6-
232	Condo; 3+ Stories	du	0.88	\$57.73	\$120	-5
240	Mobile Home, on Deeded Lot	du	1,09	\$71.50	\$160	-5
240	Mobile Home, on Rental Lot	du	1.09	\$71.50	\$120	-4
S. INS	TRANSIENT, ASSISTED, GROUP:					- N
310	Hotel	room	1,05	\$68.88	**	
320	Motel	room	1,01	\$66.26	**	N
620	Nursing Home	bed	0,90	\$59.04	**	
253	Assisted Care Living Facility (ACLF)	du	0,93	\$61.01	**	
	RECREATION:	DIME				
416	RV Park	site	0.50	\$32.80	**	
420	Marina	boat berth	0,19	\$12.46	**	1
430	Golf Course	hole	1,08	\$70.85	**	
444	Movie Theater w/Matinee	screen	5,98	\$392.29	••	
491	Raquet/Tennis Club	court	3.16	\$207.30	••	
492	Health/Fitness Club	1,000 sf	3,09	\$202,70	••	
200	INSTITUTIONS:					18/1
520	Elementary School (Private)	student	0.06	\$3.94	**	
522	Middle School (Private)	student	0.07	\$4.59	**	
530	High School (Private)	student	0.08	\$5.25	••	
540	University/Junior College (7,500 or fewer students) (Private)	student	0,10	\$6.56	•	
550	University/Junior College (more than 7,500 students) (Private)	student	0.07	\$4.59	••	
560	Church	1,000 sf	0,51	\$33.46	**	
565	Day Care Center	1,000 sf	0.89	\$58.38	*4	
610	Hospital	1,000 sf	1.37	\$89.87	•••	
640	Animal Hospital/Veterinary Clinic	1,000 sf	2.32	\$152.19	**	
	OFFICE:	4 3 1 1	1 1 ST			200
	General Office 50,000 sf or less	1,000 sf	1,41	\$92.50	••	
	General Office 50,001 - 100,000 sf	1,000 sf	1.19			
710	General Office 100,001 - 200,000 sf	1,000 sf	1.01	\$66.26		
, 10	General Office 200,001 - 400,000 sf	1,000 sf	0.85	\$55.76		
	General Office greater than 400,000 sf	1,000 sf	0.77	\$50.51	**	
	Medical Office/Clinic 10,000 sf or less	1,000 sf	1.14	\$74.78		
720	Medical Office/Clinic greater than 10,000 sf	1,000 sf	1.66		**	
750		1,000 sf	1.04			
750	Office Park	1,000/51	1,04	300.22	45-4-16-50-8	11.71.3
	RETAIL:	1,000 sfgla	2.45	\$160.72		
	Retail 10,000 sfgla or less	1,000 sigia	2.45			
	Retail 10,001-50,000 sfgla		2.45			
	Retail 50,001-100,000 sfgla	1,000 sfgla				
820	Retail 100,001-300,000 sfgla	1,000 sfgla	2.50	\$164.00		
	Retail 300,001-500,000 sfgla	1,000 sfgla	2,55	\$167.28		
	Retail 500,001-1,000,000 sfgla	1,000 sfgla	2.42			
	Retail greater than 1,000,000 sfgla	1,000 sfgla	2.32			
841	New/ Used Auto Sales	1,000 sf	1.47	\$96.43		
850	Supermarket	1,000 sf	2.05			_
851	Convenience Market (24 hour)	1000 sf	5.47			
853	Convenience Market w/Gasoline	1,000 sf	5.83			
80/881	Pharmacy/Drug Store with or w/o Drive-Thru	1,000 sf	1.96			
890	Furniture Store	1,000 sf	0.23			
911	Bank/Savings Walk-In	1,000 sf	2.23			
912	Bank/Savings Drive-In	1,000 sf	2.28			
931	Quality Restaurant	1,000 sf	6.82			
932	High-Turnover Restaurant	1,000 sf	6.78			
934	Fast Food Rest. w/ Drive-Thru	1,000 sf	8.90			
942	Automobile Care Center	1,000 sf	1.50			
	Gasoline/Service Station with or w/o Car Wash	fuel pos.	1.91			
44/946	Self Service Car Wash	service bay	0.87	\$57.07	••	
44/946 947	Self Service car vasir			The state of		
	INDUSTRIAL:					
		1,000 sf	0.69	\$45.26		
947	INDUSTRIAL:	1,000 sf 1,000 sf	0.69 0.49			
947	INDUSTRIAL: General Light Industrial			\$32.14	±×	

⁽¹⁾ Functional resident coefficients from Appendix A, Table A-10 for residential and lodging land uses and Table A-12 for non-residential uses
(2) Proposed impact fee determined by multiplying the net impact cost per functional resident (Table III-4) by the functional resident coefficient (Item 1) for each land use

⁽³⁾ Source: Brevard County Planning and Development Department
(4) Percent change from the current impact fee rates (Item 3) to the total impact fee [Item 2]

** Individually calculated on a project-by-project basis.

IV. Library Facilities

Library impact fees are used to fund the capital construction and expansion of library services related buildings, land, and materials/equipment required to support the additional library facilities demand created by new growth. This section provides the results of the library impact fee analysis. There are several major elements associated with the development of the library facilities impact fee:

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

These various elements are summarized in this section. It should be noted that library impact fees are charged to residential land uses only.

Facility Inventory

The Brevard County Library Service owns and operates 14 libraries with approximately 337,000 square feet. There are three additional libraries that are part of the Brevard County Library System and are operated by the County, but because the buildings and land are not owned by the County, they are not included in the inventory for impact fee calculation purposes.

The following table presents the inventory of library facilities that are owned by the County. The building value is estimated at \$230 per square foot based on recent library construction in Brevard County and other Florida jurisdictions, and insurance values of existing libraries. Land value for library buildings is estimated at \$50,000 per acre based on value of current parcels and an analysis of vacant land values and recent vacant land sales in Brevard County. Appendix B provides additional information on building and land value estimates.

Brevard County Library Building Inventory

Facility Description	Address	Year Built ⁽¹⁾	Acres ⁽²⁾	Square Footage ⁽³⁾	Land Value ⁽⁴⁾	Building Value ⁽⁵⁾	Total Building and Land Value ⁽⁶⁾
Owned Facilities:							
Central Reference Library	308 Forrest Avenue, Cocoa, FL 32922	1989	5.84	97,362	\$292,000	\$22,393,260	\$22,685,260
Cocoa Beach Library	550 North Brevard Avenue, Cocoa Beach, FL 32931	1998	3.59	23,124	\$179,500	\$5,318,520	\$5,498,020
Martin Luther King Library	955 E. University Blvd, Melbourne, FL 32901	1999	1.05	10,728	\$52,500	\$2,467,440	\$2,519,940
Franklin T. DeGroodt Memorial Library	6475 Minton Road, S.W., Palm Bay, FL 32908	1992	4.46	23,700	\$223,000	\$5,451,000	\$5,674,000
Melbourne Beach Library	324 Ocean Avenue, Melbourne Beach, FL 32951	2002	0.45	15,120	\$22,500	\$3,477,600	\$3,500,100
Melbourne Library ⁽⁷⁾	540 E. Fee Avenue, Melbourne, FL 32901	1989	4.00	26,641	\$200,000	\$6,127,430	\$6,327,430
Mims/Scottmoor Library ⁽⁸⁾	3615 Lionel Road, Mims, FL 32754	1988	N/A	9,100	N/A	\$2,093,000	\$2,093,000
Palm Bay Library	1520 Port Malabar Blvd NE, Palm Bay, FL 32905	1986	3.02	8,820	\$151,000	\$2,028,600	\$2,179,600
Port St. John Library	6500 Carole Avenue, Port St. John, FL 32927	1988/2003	3.11	26,070	\$155,500	\$5,996,100	\$6,151,600
Satellite Beach Library	751 Jamaica Blvd, Satellite Beach, FL 32937	1991	5.00	20,244	\$250,000	\$4,656,120	\$4,906,120
South Mainland/Micco Library	7921 Ron Beatty Blvd, Micco, FL 32976	1987	2.33	12,851	\$116,500	\$2,955,730	\$3,072,230
Suntree Library	902 Jordan Blass Blvd. Suntree, Melbourne, FL 32940	2003	12.77	15,680	\$638,500	\$3,606,400	\$4,244,900
North Brevard Library	2121 S. Hopkins Avenue, Titusville, FL 32780	1971	4.07	29,082	\$203,500	\$6,688,860	\$6,892,360
West Melbourne Library	2755 Wingate Blvd, West Melbourne, FL 32904	1998	5.00	18,432	\$250,000	\$4,239,360	\$4,489,360
Total			54.69	336,954	\$2,734,500	\$77,499,420	\$80,233,920
Land Value per Acre ⁽⁹⁾					\$50,000		
Building Value per Square Foot ⁽¹⁰⁾						\$230	
(1) Source: Brevard County Library Services	Services						

Source: Brevard County Library Services

Source: Brevard County Library Services

Acres (Item 2) multiplied by land value per acre (Item 9)

Square footage (Item 3) multiplied by building value per square foot (Item 10)

Sum of land value and building values (Items 4 and 5)

(2) (3) (4) (5) (6) (7) The land is owned by the City, but dedicated to the County. The building was built by the County and is under the control of the County as long as it provides library services.

8 Education Center, and therefore, is not included. Land is owned by the School District and 5,420 additional square footage that is owned by the County is operated by the School District as a Community

9 Based on a review of vacant land sales and values. See Appendix B for further detail.

(10) Based on recent construction, insurance values and other available information. See Appendix B for further detail

In addition to buildings and land, the Brevard County Library System houses a wide variety of materials that are owned by the County and are available to the public. Table IV-2 presents the inventory of library materials.

Table IV-2
Brevard County Library Material Inventory

Description	Units ⁽¹⁾	Unit Cost ⁽¹⁾	Total Value ⁽²⁾
Books:			1 (X) (X)
All Books	1,043,393	\$8.55	\$8,922,073
Periodical Subscriptions	34,355	\$9.46	\$325,096
Microforms Subscriptions	149	\$3,627	\$540,485
Audio Books	27,872	\$15.21	\$423,931
eBooks	9,992	\$35.06	\$350,320
Total - Books	1,115,761		\$10,561,905
Other Library Items:			
Music CDs	48,805	\$4.54	\$221,677
Movies/Documentaries	101,713	\$11.17	\$1,136,384
Other A-V	56	\$22.98	\$1,287
Equipment	48	\$81.00	\$3,888
Total - Other Library Items	150,622		\$1,363,236
Total - All Library Materials	1,266,383		\$11,925,141
Total Value per Item ⁽³⁾			\$9

⁽¹⁾ Source: Brevard County Library Services

In addition to the available material, the Brevard County Library System owns a variety of equipment, both for public use and for its own operations. Table IV-3 presents the inventory of library equipment.

⁽²⁾ Number of units multiplied by the cost

⁽³⁾ Total value for all library materials divided by the total units for all library materials

Table IV-3
Library Equipment Inventory

Library Equi			Total
Library Inventory	Count	Unit Value	Insured
			Value
Barcode Scanner	4	\$2,005	\$8,020
Book Receiving Cart	3	\$1,241	\$3,722
Book Return	1	\$1,190	\$1,190
Camcorder	1	\$1,738	\$1,738
Carpet Cleaner/ Vacuum	5	\$1,561	\$7,804
Cisco Firewall	2	\$9,622	\$19,243
Coin/ Bill Acceptor	19	\$4,997	\$94,943
Computer	797	\$948	\$755,942
Computer Learning Station	1	\$3,200	\$3,200
Computer Module	1	\$1,234	\$1,234
Computer Networking	3	\$8,702	\$26,105
Data Storage	4	\$9,548	\$38,193
Equipment Rack	15	\$1,155	\$17,328
External Auto Loader	1	\$2,099	\$2,099
Fax Machine	5	\$1,214	\$6,071
Folder Inserter	1	\$6,458	\$6,458
Gazebo	1	\$4,581	\$4,581
Generator	1	\$44,252	\$44,252
Laminator	2	\$1,357	\$2,713
Large Print Reader	14	\$5,137	\$71,914
Mailing Card Printer	1	\$1,799	\$1,799
Memotech	1	\$1,485	\$1,485
Microfilm Scanner	4	\$8,335	\$33,341
Minolta Reader/ Printer	6	\$6,031	\$36,187
Monitor, Low Vision	7	\$2,395	\$16,765
Network Switch	24	\$2,592	\$62,197
Phonic Ear Easy Listener	3	\$2,090	\$6,269
Playground	1	\$17,608	\$17,608
Printer	33	\$1,258	\$41,519
Projector	22	\$2,092	\$46,022
Roller Die Cutting Machine	1	\$1,195	\$1,195
Router	26		\$78,581
RTI Tape Chek	1	\$3,950	\$3,950
Satellite Dish	1	\$13,043	\$13,043
Scooter	1	\$1,995	\$1,995
Security Camera	1	\$6,192	\$6,192
Checkpoint Security System	18	\$9,749	\$175,488

Table IV-3 (Continued)
Library Equipment Inventory

- July Equip			Total
Library Inventory	Count	Unit Value	Insured
			Value
Server	47	\$3,900	\$183,305
Shed	1	\$1,020	\$1,020
Shredder	1	\$1,360	\$1,360
Software	7	\$5,313	\$37,193
Software (Values > \$400,000)	2	\$429,330	\$858,661
Stereo Duplicator	1	\$1,616	\$1,616
Uninterruptible Power Supply	5	\$2,914	\$14,572
Van	2	\$54,104	\$108,207
Web Filter	1	\$8,422	\$8,422
Whiteboard	1	\$2,922	<u>\$2,922</u>
Total	1,100	\$2,616	\$2,877,663
Total - Excluding Computers	303	\$7,002	\$2,121,721

Source: Brevard County Library Services

Service Area and Population

Library services are provided on a countywide basis and the impact fee is charged only to residential land uses. The County does not collect library impact fees in the City of Cape Canaveral because the City implemented its own library impact fee. As such, the appropriate benefit district for library impact fees is countywide, excluding Cape Canaveral. Because library impact fees are charged only to residential development, countywide weighted seasonal population is used in the calculation. The County's current population estimates and future population projections are provided in Appendix A, Table A-1.

Level of Service

The following table provides a summary of the current LOS as well as the adopted LOS standard for library buildings, books, other library materials, and computers in Brevard County.

As presented in the table, the County's current LOS is slightly below the adopted LOS standard for both the library building and material elements. For impact fee calculations, the achieved LOS standard is used in order to ensure new development is not overcharged.

Table IV-4 Level-of-Service (2014)

ltem	Sq. Footage/ Count ⁽¹⁾	Population ⁽²⁾	LOS (per 1,000 Residents) ⁽³⁾	Adopted LOS Standard (per 1,000 Residents) ⁽⁴⁾
Library Buildings (sf)	336,954	594,202	567	600
Library Materials (items)	1,266,383	594,202	2,131	2,160
Computers ⁽⁵⁾	797	594,202	1.3	N/A
Other Library Equipment (items) (5)	303	594,202	0.5	N/A

- (1) Source: Table IV-1 for buildings and Table IV-2 for materials
- (2) Source: Appendix A, Table A-1
- (3) Square footage/count (Item 1) divided by population (Item 2) multiplied by 1,000
- (4) Source: Brevard County Comprehensive Plan, the County also has a standard of 1,500 titles per 1,000 residents
- (5) Source: Table IV-3, only computers and equipment available for public use are included

A comparison of the current Brevard County LOS, the adopted LOS standard, LOS of the other Florida counties, and the suggested State standards are presented in Tables IV-5.

Table IV-5
Comparison of Brevard County Current LOS to FL Standards
– Library Materials and Computers

ltem	Achieved LOS (per 1,000	Adopted LOS Standard (per	FL Publ	ic Library Stand	lards ⁽²⁾
item	Residents) ⁽¹⁾	1,000 Residents) ⁽¹⁾	Essential	Enhanced	Exemplary
Library Buildings (sq. ft.)	567	600	600	700	1,000
Library Materials (3)	2,131	2,160	2,000	3,000	4,000
Computers	1.3	N/A	0.30	0.50	1.00

- (1) Source: Table IV-4
- (2) Source: Standards for Florida Public Libraries, 2004; 2006 Revision
- (3) Library materials include books, online resources, subscriptions, and other library items

Brevard County's achieved LOS for buildings is slightly below the Florida Library Association's (FLA) essential standard. However, the County's LOS for library materials and computers meet and exceed the standards established by the State, with library materials falling between essential and enhanced while computers is considered exemplary.

The following table provides a comparison of the current Brevard County LOS to those of surrounding counties as well as other Florida counties with similar population levels. The

comparison is based on the information obtained from the *Library Directory with Statistics*, published by the Department of State, Division of Library and Information Services. It should be noted that the LOS figures included in Table IV-6 for Brevard County represent figures provided by the Division of Library and Information Services and reflect FY 2013 data with the use of permanent population. To be able to provide an "apples-to-apples" comparison, 2013 data is used for Brevard County and its peer group. Brevard County's LOS ranks second in buildings and library materials, and third in computers.

Table IV-6
Comparison of LOS (per 1,000 residents)
Brevard County and Other Florida Counties

brevard county at	IOS Pa	r 1,000 Resider	nts
Jurisdiction	Library Buildings (square feet)	Library Materials ⁽¹⁾	Computers ⁽²⁾
Seminole County	234	1,342	0.19
Pasco County	240	1,234	0.42
St. Lucie County	211	985	0.44
Manatee County	331	1,432	0.37
Polk County	336	1,194	0.48
Marion County	348	1,767	0.63
Orange County	389	1,497	0.54
Okeechobee County	390	2,245	0.52
Lee County	418	2,376	0.91
Volusia County	500	1,882	0.57
Collier County	543	2,059	0.57
Sarasota County	600	2,343	0.56
Brevard County (Existing)	694	2,699	0.82
Indian River County	767	3,961	0.92
Peer Group (Excl. Brevard County)	411	1,743	0.72
State of Florida (Excl. Brevard County)	491	1,924	0.83

Library materials for Brevard include books, CDs, DVDs, videos, print and online resource subscriptions. Library materials for other counties include books, serial subscriptions, audio and video volumes.

⁽²⁾ Source: Department of State - Division of Library & Information Services, 2012/13 Library Directory with Statistics; Includes public computers only.

Cost Component

Costs are calculated separately for facilities and items/equipment. Facility costs are based on the estimated cost to add the next library building, and the cost of library items and equipment is based on the estimated current value per unit.

Buildings and Land

Table IV-7 summarizes the calculation of library facility and land values. The total impact cost or total value per resident for library buildings and land in Brevard County is \$135.

Table IV-7
Summary of Building and Land Cost per Resident

Element	Figure
Total Building Value ⁽¹⁾	\$77,499,420
Total Land Value ⁽²⁾	\$2,734,500
Total Building and Land Value ⁽³⁾	\$80,233,920
Building Square Footage (4)	336,954
Total Building and Land Cost per Square Foot ⁽⁵⁾	\$238.12
Achieved LOS Standard (sf per 1,000 residents) ⁽⁶⁾	567
Total Building and Land Cost per Resident ⁽⁷⁾	\$135.01

- (1) Source: Table IV-1
- (2) Source: Table IV-1(3) Sum of building value (Item 1) and land value (item 2)
- (4) Source: Table IV-1
- (5) Building and land value (Item 3) divided by building square footage (Item 4)
- (6) Source: Table IV-4
- (7) Total building and land cost per square foot (Item 5) multiplied by the adopted LOSS (Item 6) divided by 1,000

Library Materials and Equipment

The following table provides a summary of library materials and equipment costs per resident, which amounts to \$24.

Table IV-8
Library Materials and Equipment Cost per Resident

Element	Figure
Library Materials Value per Item ⁽¹⁾	\$9
Achieved LOS for Materials per Resident ⁽²⁾	2.13
Library Materials Value per Resident ⁽³⁾	\$19.17
Computers - Unit Value (4)	\$948
Achieved LOS for Computers per Resident ⁽⁵⁾	0.0013
Computer Value per Resident ⁽⁶⁾	\$1.23
Other Library Equipment Value per Item ⁽⁷⁾	\$7,002
Achieved LOS Standard for Other Library Equipment per Resident ⁽⁸⁾	0.0005
Other Library Equipment Value per Resident ⁽⁹⁾	\$3.50
Total Materials and Equipment Cost per Resident ⁽¹⁰⁾	\$23.90

- (1) Source: Table IV-2
- (2) Source: Table IV-4
- (3) Library materials value per item (Item 1) multiplied by the achieved LOS standard for materials per resident (Item 2)
- (4) Source: Table IV-3; Total value divided by the number of items available for public use
- (5) Source: Table IV-4
- (6) Unit value of computers (Item 4) multiplied by the achieved LOS standard for computers per resident
- (7) Source: Table IV-3; Total value divided by the number of items available for public use
- (8) Source: Table IV-4
- (9) Other library equipment cost (Item 7) multiplied by the achieved LOS standard for other library equipment per resident (Item 8)
- (10) Sum of library materials, computer, and other library equipment costs per resident (Items 3, 6, and 9)

Credit Component

To avoid overcharging new development, a review of funding for library capital expansion projects over the past five years and those programmed for the next five years was completed. The purpose of this review was to determine any potential revenues generated by new development, other than impact fees, that are being used or will be used to fund the expansion of capital facilities, land, and materials for the County's libraries program.

Brevard County did not have any capacity expansion expenditures funded with non-impact fee revenues over the past five years, and there is none scheduled. However, the County is paying off debt service for bond issues used to fund capacity projects. Therefore, a debt service credit is calculated.

Debt Service Credit

Table IV-9 summarizes the outstanding debt service related to library capital expansion projects, which will be paid off in FY 2023. The County is currently paying the library debt service with ad-valorem tax revenues. To calculate the credit of the current debt obligation, the present value of the total remaining payments is calculated and then divided by the average annual population estimated over the remaining life of the bond issue. As shown in Table IV-9, the resulting credit for library facilities-related debt is \$5 per capita.

Table IV-9
Brevard County Library Debt Service Credit

Description	Total Number of Fiscal Years of Debt Issue ⁽¹⁾	Fiscal Years Remaining ⁽²⁾	Total Remaining Library Debt Service ⁽³⁾	Present Value of Payments Remaining ⁽⁴⁾	During	Credit per Resident ⁽⁶⁾
Library Debt Service	16	9	\$3,242,137	\$3,069,760	625,419	\$4.91
Total Debt Service Cre	odit nor Resident			•		\$4.91

- Source: Brevard County
 Source: Brevard County
- (3) Total debt service remaining, including principal and interest payments
- (4) Present value in 2014 dollars of the annual debt service payments
- (5) Source: Appendix A, Table A-1
- (6) The present value of payments remaining (Item 4) divided by the average annual population (Item 5)

Adjusted Debt Service Credit

Because the library debt service is being retired using ad valorem tax revenues, an adjustment of the credit per resident is necessary to account for the higher taxable values of new homes compared to older homes. This adjustment factor was estimated based on a comparison of the average taxable value of homes built over the past five years to that of all homes. Table IV-10 shows the credit adjustment factors and the adjusted debt service credit per resident for each of the residential land uses.

Table IV-10
Adjusted Debt Service Credit

Leville	Ad Valorem	Credit Adjustment	Adjusted Debt Service
Land Use	Funded Portion ⁽¹⁾	Factor ⁽²⁾	Credit per Resident ⁽³⁾
Single Family (Detached)	\$4.91	2.08	\$10.21
Multi Family (Apartment, Condo, Duplex, Townhouse)	\$4.91	1.46	\$7.17
Mobile Home	\$4.91	1.70	\$8.35

- (1) Source: Table IV-9
- (2) Brevard County Property Appraiser Database
- (3) Ad valorem funded portion (Item 1) multiplied by the credit adjustment factor (Item 2)

Net Library Facilities Impact Cost

The net impact fee per residence is the difference between the cost component and the credit component. Table IV-11 summarizes the calculation of the net library impact cost per resident by residential land use, which reflects the relevant LOS for impact fee calculation purposes.

Table IV-11
Net Library Facilities Impact Cost

rece bibliary racincles impact cost		
Calculation Step	Impact Cost	Revenue Credits
Impact Cost		
Building and Land Value per Resident (1)	\$135.01	
Library Materials Value per Resident (2)	\$19.17	
Library Computer & Equipment Value per Resident (3)	<u>\$4.73</u>	
Total Impact Cost ⁽⁴⁾	\$158.91	
Revenue Credit		
Debt Service Credit per Resident ^{(5):}		
- Single Family Detached		\$10.21
- Multi Family (Apartment, Condo, Duplex, Townhouse)		\$7.17
- Mobile Home		\$8.35
Net Impact Cost		
Net Impact Cost per Resident ⁽⁶⁾		
- Single Family Detached	\$148.70	
- Multi Family (Apartment, Condo, Duplex, Townhouse)	\$151.74	
- Mobile Home	\$150.56	

- (1) Source: Table IV-7
- (2) Source: Table IV-8
- (3) Source: Table IV-8
- (4) The sum of building, land, materials, and equipment costs (Items 1, 2, and 3)
- (5) Source: Table IV-10
- (6) Total impact cost per resident (Item 4) less total credit per resident (Item 5)

Calculated Library Facilities Impact Fee Schedule

The calculated library impact fee for each residential land use is presented in Table IV-12. The net impact cost per resident calculated in the previous section is applied to the average persons per unit by land use. The resulting total impact fees per dwelling unit range from \$197 for the multi-family/condo/duplex/townhouse residential land uses to \$369 for single family land use. The increase in the fees is primarily due to an increase in the inventory (especially books) and cost, and a decrease in credit. In addition, the current adopted rates were approximately 30 percent of the calculated rates in the previous update study. In other words, the fees were discounted by approximately 70 percent in 2000, which results in a higher difference compared to the updated rates.

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Calculated Library Facilities Impact Fee Schedule Table IV-12

Calchiate	a Livial y Laci	כמוכעומוכם בואו מו או מכווונוכש וווואמינו כר שנוורמשור	ביירווכממוכ		
Residential Land Use	Residents per Unit ⁽¹⁾	Residents Net Cost per per Unit (1) Resident (2)	Impact Fee ⁽³⁾	Current Impact Fee ⁽⁴⁾	Percent Change ⁽⁵⁾
Residential	3 45 6 34 6	255 66 545			
Single Family (Detached)	2.48	\$148.70	\$369	\$63.84	478%
Multi-Family (Apartment); 1-2 Stories	1.30	\$151.74	\$197	\$37.91	420%
Multi-Family (Apartment); 3+ Stories	1.30	\$151.74	\$197	\$31.91	517%
Condo/Duplex/Townhouse; 1-2 Stories	1.30	\$151.74	\$197	\$55.59	254%
Condo/Duplex/Townhouse; 3+ Stories	1.30	\$151.74	\$197	\$55.59	254%
Mobile Home	1.62	\$150.56	\$244	\$46.45	425%

Source: Appendix A, Table A-2
 Source: Table IV-11
 Residents per unit (Item 1) multiplied by net cost per resident (Item 2)
 Source: Brevard County Planning and Development Department
 Percent change from the current adopted rates (Item 6) to the total impact fee (Item 5)

Library Facilities Impact Fee Schedule Comparison

As part of the work effort in updating Brevard County's library impact fee program, a comparison of library facilities impact fee schedules was completed for other Florida counties. Table IV-13 presents this comparison. As presented, Brevard County's calculated fee is within the range of fees assessed by other Counties

Table IV-13

		Library Fac	Library Facilities Impact Fee Schedule Comparison	ct Fee Sch	edule Com	parison				
	(2)	Brevard County	County	Seminole	Seminole Indian River St. Lucie	St. Lucie	Polk	Pasco	Collier	Sarasota
tand Use	Unit	Calculated ⁽³⁾	Existing ⁽⁴⁾	County ⁽⁵⁾	County ⁽⁶⁾	County ⁽⁷⁾	County ⁽⁸⁾	County ⁽⁹⁾	County ⁽¹⁰⁾	County ⁽¹¹⁾
Date of Last Update		2015	2000	n/a	2014	2009	2009	2002	2009	2006
Assessed Portion of Calculated ⁽¹⁾		100%	29%	n/a	100%	100%	50%	100%	100%	100%
Residential:			120 150					COLUMN TO SERVICE STATE OF THE		
Single Family (2,000 sf)	du	\$369	\$64	\$54	\$672	\$220	\$84	\$145	\$315	\$380
Multi-Family	du	\$197	\$38	\$54	\$381	\$143	\$61	\$97	\$160	\$380
Mobile Home/RV Park (tied down)	du	\$244	\$46	\$54	\$428	\$173	\$54	\$97	\$237	\$253

1 Represents the portion of the maximum calculated fee for each respective county that is actually charged. Fees may have been lowered/increased through annual indexing of policy discounts. Does not account for moratoriums/suspensions

du = dwelling unit

(2) (4) (5) Source: Table 12

Source: Brevard County Planning & Development Department

Source: Seminole County Planning & Development Services

6)

Source: Indian River County Planning Division. Fees are suspended until the next technical update.

 $\overline{2}$ Source: St. Lucie County Planning & Development Services Department. Fees were adopted at 100% and have since been indexed annually using the CPI.

Source: Polk County Building & Construction Department. Fees are currently under moratorium through July 2015

Source: Pasco County Central Permitting Department

(10) Source: Collier County Impact Fee Administration Department

(11) Source: Sarasota County Planning & Development Services Department. Multi-family land use is charged the same as single family.

V. Fire Rescue and Emergency Medical Services Facilities

This section provides the results of the fire rescue and emergency medical services (EMS) impact fee analysis. Although fire rescue and EMS impact fees are two separate fees with different service areas, because many of stations and some of the equipment are shared, the calculations are shown in the same section of this report. There are several major elements associated with the development of the fire rescue and EMS impact fees:

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

These various elements are summarized in the remainder of this section.

Facility Inventory

Brevard County Fire Rescue provides fire rescue and EMS services from 29 stations that are owned by the County. These stations include 17 dual stations, 5 fire (only) stations, 2 volunteer fire stations, and 5 EMS (only) stations. In addition, Brevard County owns land for the next fire/EMS station and has three administrative/ancillary facilities associated with fire rescue services and EMS.

Table V-1 presents the fire rescue and EMS building and land inventory owned by Brevard County. The value of buildings are based on primarily on recent construction in Brevard County and other Florida jurisdictions and insurance values of existing buildings. The land value estimates are based on land values of the existing facilities, recent land purchases, vacant land sales and values of parcels with similar characteristics. A more detailed explanation of building and land value estimates is included in Appendix B.

Impact Fee Update Study

Brevard County

Table V-1 (Continued)

10)	
Year	
Number of	Land & Buildin
	gs Inventory
(1)	
Adjusted	
Adjusted	
Building	
Land	
Tot	

	\$75,000									Land Value per Acre (9)
		\$130		3						Building Value per Square Foot ⁽⁸⁾
\$48,813,430	\$4,440,750	\$44,372,680	59.21	194,497	342,419	102.59				Total Value - Fire Rescue/EMS
\$16,778,570	\$1,304,250	\$15,474,320	17.39	72,115	159,094	41.85				Subtotal - EMS
\$925,800	\$36,750	\$889,050	0.49	5,927	14,386	1.19	N/A	1959	1040 S. Florida Avenue, Rockledge	TJ Mills Fire Rescue Center/ Fire Prevention - Administrative
\$277,950	\$30,750	\$247,200	0.41	4,120	10,000	1.00	∞	1973	351 Wenner Way, Cocoa	Fleet Maintenance Shop
\$1,236,450	\$61,500	\$1,174,950	0.82	6,714	16,296	1.99	6	2005	300 Ansin Road, Rockledge	Supply Facility Fire Rescue
\$123,750	\$123,750	N/A	1.65	N/A	N/A	4.00	N/A	2009	6300 Fay Blvd.	Land for Future Fire /EMS Station
\$240,000	N/A ⁽⁶⁾	\$240,000	N/A ⁽⁶⁾	1,600	1,600	N/A ⁽⁶⁾	0	2008	2051 DeGroodt Ave. SW, Palm Bay	Station 89
\$226,800	N/A ⁽⁷⁾	\$226,800	N/A ⁽⁷⁾	1,512	1,512	N/A ⁽⁷⁾	0	2010	175 Medplex Pkwy, Palm Bay	Station 88
\$810,910	\$39,750	\$771,160	0.53		7,200	1.28	6	1975	301 Barefoot Bay Blvd. Micco	Station 86
\$448,010	\$18,750	\$429,260	0.25	1,651	4,008	0.60	2	2008	5148 Minton Road, Palm Bay	Station 83
\$433,570	\$15,750	\$417,820	0.21	1,607	3,900	0.52	2	1985	109 N.W. Pine St. W. Melbourne	Station 82
\$664,750	\$86,250	\$578,500	1.15	2,225	5,400	2.80	4	2005	4630 Lake Washington Rd., Melbourne	Station 81
\$975,810	\$57,750		0.77	3,531	8,571	1.88	ш	2012	400 Pineda Court, Melbourne	Station 80
\$675,000	N/A ⁽⁶⁾		N/A ⁽⁶⁾	4,500		N/A ⁽⁶⁾	0	2008	11 N. Nieman Avenue, Melbourne	Station 67/68
\$240,000	N/A ⁽⁶⁾		N/A ⁽⁶⁾		1,600	N/A ⁽⁶⁾	0	2009	1695 Aurora Road, Melbourne	Station 66
\$575,040	\$93,000	\$482,040	1.24	1,854	4,500	3.00	4	1962	2550 S. A1A, Melbourne Beach	Station 64
\$635,600	\$9,000	\$626,600	0.12		5,850	0.30	4	1984	2602 N. A1A, Indialantic	Station 63
\$594,280	\$93,000	\$501,280	1.24		4,680	3.00	2	1985	299 Sea Park Blvd., Satellite Beach	Station 62
\$966,800	\$55,500	\$911,300	0.74	3,505	8,507	1.80	ω	2011	5550 Porada Drive, Viera	Station 48
\$640,940	\$51,000	\$589,940	0.68	2,269	5,508	1.64	ω	1999	7225 Murrell Road, Viera, Florida 32940	Station 47
\$1,035,820	\$267,000	\$768,820	3.56			8.64	3	1968	3780 W. King Street, Cocoa	Station 44/46
\$1,205,100	N/A ⁽¹⁰⁾	\$1,205,100	N/A ⁽¹⁰⁾		11,250	N/A ⁽¹⁰⁾	3	1989	902 Airport Rd., Merritt Island	Station 43
\$1,146,850	\$123,750	\$1,023,100	1.65	3,935	9,550	4.00	ш	1974	300 Alma Blvd. Merritt Island	Station 41
\$694,730	\$32,250	\$662,480	0.43	2,548	6,185	1.04	ω	1994	3950 Canaveral Groves Blvd. Cocoa	Station 29
\$443,580	\$45,000	\$398,580	0.60	1,533	3,722	1.45	2	1987	6655 Carole Ave. Port St. John	Station 26
\$547,030	\$26,250	\$520,780	0.35	2,003	4,861	0.86	2	2007	2280 Columbia Blvd. Titusville	Station 24
\$312,750	\$18,750	\$294,000	0.25	1,960	1,960	0.25	0	2005	700 Park Ave, Titusville	Station 23
\$701,250	\$18,750	\$682,500	0.25	2,625	6,372	0.61	3	1993	2475 Taylor Ave. Mims	Station 22
100		STORY OF STREET				STATE OF THE STATE		1	大大学 大大学 一大学 一大学 一大学 一大学 一大学 一大学 一大学 一大学	EMS:
Total Building and Land Value ⁽⁵⁾	tand Value ⁽⁴⁾	Building Value ⁽³⁾	Adjusted Acres ⁽²⁾	Adjusted Square Feet ⁽²⁾	Square Feet ⁽¹⁾	Acres ⁽¹⁾	Number of Bays ⁽¹⁾	Year Acquired/ Built ⁽¹⁾	Location ⁽¹⁾	Facility Description

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- (1) Source: Brevard County Fire Rescue
 (2) Represents the portion of square footage dedicated to Fire Rescue services vs. EMS. Based on information provided by the Brevard County Fire Rescue, in the case of dual stations and other shared facilities, 58.8% is allocated to fire rescue services and remaining amount to EMS.
 (3) Estimated based on recent construction, information from other jurisdictions, and discussion with architects/contractors, Appendix B provides further detail.
 (4) Adjusted acres multiplied by land value per acre (Item 10).
 (5) Sum of building and land value
 (6) Land is owned by Brevard County School District.
 (7) Land is owned by Brevard County School District.
 (8) Total building value (Item 2) divided by total square footage.
 (9) Estimated based on recent land purchases, value of land where the current stations are located, vacant land values, and vacant land sales over the past four years. Appendix B provides further detail.
 (10) Land owned by Merritt Island Airport.

V-4

In addition to land and buildings, the Brevard County fire rescue and EMS inventories include the necessary vehicles and equipment required to perform its services. As presented in Table V-2, the total vehicle cost is approximately \$19 million for fire rescue services and \$8 million for EMS, for a total of \$27 million.

Table V-2
Vehicle Inventory and Values

Description	Units ⁽¹⁾	Acquired Value ⁽¹⁾	Total Value ⁽²⁾
Fire Rescue Vehicle Inventory			
Brush Truck	5	\$60,000	\$300,000
Fire/Pumper Truck, American La France	21	\$354,804	\$7,450,884
Fire Engine Truck, 2008 Quint Aerial 75' Sutphen	1	\$650,722	\$650,722
Fire Truck	11	\$387,678	\$4,264,458
Fire Truck, 2 1/2T 6X6	2	\$2,000	\$4,000
Fire Truck, 75 Ft Ladder Pierce	3	\$555,691	\$1,667,073
Fire Truck, Aerial Pierce	2	\$753,201	\$1,506,402
Tank/Pumper Truck	2	\$206,391	\$412,782
Tanker, 3000 Gallon American Lafrance	2	\$280,281	\$560,562
Shared Fire/ Ems Vehicles	68	\$30,746	\$2,090,700
Subtotal - Fire	117		\$18,907,583
EMS Vehicle Inventory		- Barry	
Ambulance	42	\$156,000	\$6,552,000
Shared Fire/ EMS Vehicles	48	\$30,519	\$1,464,913
Subtotal - EMS	90		\$8,016,913
Total	207		\$26,924,496

⁽¹⁾ Source: Brevard County Fire Rescue

Table V-3 presents the equipment inventory and related asset value for fire rescue and EMS facilities in Brevard County. As shown, the value of fire rescue equipment is estimated at \$8.7 million and \$5 million for EMS equipment, for an overall total of approximately \$13.7 million.

⁽²⁾ Units multiplied by unit cost

Table V-3
Equipment Inventory and Values

Equipment inven		
Description	Total	Total
Description	Units ⁽¹⁾	Value ⁽²⁾
Fire Rescue Equipment		AN 1871 AND 1
Fire Equipment	1,380	\$4,887,690
Radios	461	\$1,330,254
Office Equipment	265	\$1,316,469
Other Shared Equipment	166	\$1,137,100
Subtotal - Fire	2,272	\$8,671,513
EMS Equipment		phares a
EMS Equipment	313	\$2,377,301
Radios	323	\$932,082
Office Equipment	185	\$922,424
Other Shared Equipment	117	\$796,743
Subtotal - EMS	938	\$5,028,550
Total	3,210	\$13,700,063

(1) Source: Brevard County Fire Rescue

Service Area and Population

Brevard County provides emergency medical services countywide. In terms of fire rescue services, the County provides services in the unincorporated county, Grant-Valkaria Town, Melbourne Village Town, Palm Shores Town, and West Melbourne City. Therefore, given that stations and equipment in one section of the service area can support other sections as needed, the proper benefit district for EMS services is countywide and for fire rescue services is the unincorporated county plus Grant-Valkaria Town, Melbourne Village Town, Palm Shores Town, and West Melbourne City. For impact fee calculations, the current 2014 weighted and functional population estimates for each service area were used, which are provided in Appendix A.

Level of Service

For impact fee purposes, level of service for fire rescue/EMS is expressed in terms of stations per 1,000 residents. Using this method, Brevard County's current LOS is 1 station per 10,506 residents or 0.095 stations per 1,000 residents for fire rescue services. In the case of EMS, the LOS is 1 station per 27,009 residents or 0.037 stations per 1,000 residents.

As mentioned in the previous sections, the LOS needs to be measured using functional population to capture all residents, workers, and visitors that benefit from fire rescue and EMS services. In terms of functional population, the LOS is calculated at 0.108 stations per 1,000 functional residents for fire services. For EMS, the LOS is calculated at 0.040 stations per 1,000 functional residents. Table V-4 summarizes the calculation of the LOS using the 2014 weighted population and functional population.

Table V-4
Fire Rescue/EMS Level-of-Service (2014)

	Year	2014
Calculation Step	Weighted Population	Functional Population
Fire Rescue:		
Population ⁽¹⁾	252,151	222,407
Number of Stations ⁽²⁾	24	24
Population per Station ⁽³⁾	10,506	9,267
LOS (Stations per 1,000 Residents) ⁽⁴⁾	0.095	0.108
Adopted LOS (Stations per 1,000 Residents) (5)	N/A	N/A
EMS:		
Population ⁽¹⁾	594,202	550,608
Number of Stations ⁽²⁾	22	22
Population per Station ⁽³⁾	27,009	25,028
LOS (Stations per 1,000 Residents) ⁽⁴⁾	0.037	0.040
Adopted LOS (Stations per 1,000 Residents) (5)	N/A	N/A

⁽¹⁾ Source: Appendix A, Table A-1 for weighted population and Table A-9 for functional population

- (2) Source: Table V-1
- (3) Population (Item 1) divided by the number of stations (Item 2)
- (4) Number of stations (Item 2) divided by the population (Item 1) divided by 1,000
- (5) The County's adopted LOS standard for fire rescue/EMS services is measured in terms of response time.

Table V-5 compares the levels of service for other Florida counties as well as the statewide average. The LOS is displayed in terms of permanent population for 2013 for the service area of all entities. Information in Table V-5 represents either fire rescue services or combined fire/EMS services, when these services are provided for the same service area.

Table V-5 Level-of-Service Comparison

Jurisdiction	Service Area Population (2013) ⁽¹⁾	Number of Stations ⁽²⁾	Residents per Station ⁽³⁾	LOS (Stations) per 1,000 Residents) ⁽⁴⁾
Orange County	772,657	41	18,845	0.053
Seminole County	286,783	17	16,870	0.059
St. Lucie County	281,151	17	16,538	0.060
Pasco County	441,810	28	15,779	0.063
Manatee County	333,880	25	13,355	0.075
Indian River County	135,646	12	11,304	0.088
Collier County	297,103	27	11,004	0.091
Sarasota County	304,944	28	10,891	0.092
Brevard County (Existing)	231,286	24	9,637	0.104
Lee County	415,217	46	9,026	0.111
Marion County	275,867	31	8,899	0.112
Okeechobee County	34,212	4	8,553	0.117
Polk County	385,868	45	8,575	0.117
Volusia County	121,446	21	5,783	0.173

- (1) Source: BEBR: April 1, 2013 Final Population Estimates
- (2) Source: County websites and the U.S. Fire Administration; National Fire Department Census
- (3) Service area population (Item 1) divided by the number of stations (Item 2)
- (4) Number of stations (Item 2) divided by the service area population (Item 1) divided by 1,000

Cost Component

Table V-6 summarizes the total current asset value of land, buildings, and equipment for fire rescue and emergency medical services, including:

- Fire rescue capital assets, including \$29 million for buildings, \$3 million for land, and \$28 million for vehicles and equipment, for a total asset value of \$60 million.
- EMS capital assets, including \$15 million for buildings, \$1 million for land, and \$13 million for vehicles and equipment, for a total asset value of \$30 million.

Table V-6 presents the total impact cost per functional resident for fire rescue and EMS facilities in Brevard County, which is calculated by multiplying the total cost per station by the LOS (stations per 1,000 functional residents) and dividing that figure by 1,000.

Table V-6
Total Impact Cost per Resident

Total Impact Cos	st per itesiaent	
Description	Figure	Percent of Total Value ⁽⁹⁾
Fire Rescue:		
Building Value ⁽¹⁾	\$28,898,360	48.47%
Land Value ⁽²⁾	\$3,136,500	5.26%
Vehicle Value ⁽³⁾	\$18,907,583	31.72%
Equipment Value ⁽⁴⁾	\$8,67 1 ,513	<u>14.55%</u>
Total Asset Value	\$59,613,956	100.00%
Number of Stations ⁽⁵⁾	24	
Cost per Station ⁽⁶⁾	\$2,483,915	
LOS ⁽⁷⁾	0.108	
Total Impact Cost per Resident ⁽⁸⁾	\$268.26	
EMS:		
Building Value ⁽¹⁾	\$15,474,320	51.89%
Land Value ⁽²⁾	\$1,304,250	4.37%
Vehicle Value ⁽³⁾	\$8,016,913	26.88%
Equipment Value ⁽⁴⁾	\$5,028,550	<u>16.86%</u>
Total Asset Value	\$29,824,033	100.00%
Number of Stations (5)	22	
Cost per Station ⁽⁶⁾	\$1,355,638	
LOS ⁽⁷⁾	0.040	
Total Impact Cost per Resident ⁽⁸⁾	\$54.23	

(1) Source: Table V-1(2) Source: Table V-1(3) Source: Table V-2

(4) Source: Table V-3 (5) Source: Table V-4

(6) Total asset value divided by the number of stations (Item 5)

(7) Source: Table V-4

(8) Cost per station (Item 6) multiplied by the LOS (Item 7) divided by 1,000

(9) Distribution of building, land, vehicle, and equipment values

Credit Component

To avoid overcharging new development for the fire rescue and EMS impact fees, a review of the capital financing program for these 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 operations expenses, as these types of expenditures cannot be funded with impact fee revenue.

Capital Expansion Expenditure Credit

To calculate the capital expansion expenditure credit per functional resident, the historical capital expansion projects and those programmed in the CIP are reviewed. During the time period from 2009 through 2018, the County allocated an average annual non-impact fee funding of \$527,000 toward fire rescue capital facilities and \$290,000 toward EMS capital facilities. The annual capital expansion expenditures for both fire rescue and EMS were divided by the average functional residents in respective service areas for the same period in order to calculate the average capital expansion cost per functional resident. As presented in Table V-7, the result is an average annual expansion cost of \$2.36 per functional resident for fire rescue and \$0.53 per functional resident for EMS.

Tindale Oliver March 2015

Table V-7
Capacity Expansion Projects

	culpu	capacity expansion and care	011				
Expenditure (1)	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014 - 2018	Total
Fire Rescue Capacity Expansion Projects:							
Ad Valorem/MSTU:							
Station 83 - Dual Station	\$794,432	340	ar ,		٠	ж	\$794,432
Station 87 - Fire Station	\$3,801,874	Œ.	T.	Je	220	6)	\$3,801,874
Station 80 - Dual Station	10	\$15,876	\$646,800	\$6,518	3.	1	\$669,194
Total Capital Expansion Expenditures	\$4,596,306	\$15,876	\$646,800	\$6,518	\$0	\$0	\$5,265,500
Average Annual Capital Expansion Expenditures (2)	itures ⁽²⁾						\$526,550
Average Functional Population (3)							222,851
Capital Expansion Expenditures per Functional Resident ⁽⁴⁾	onal Resident	(4)					\$2.36
EMS Capacity Expansion Projects:							
Ad Valorem/MSTU:							
Station 83 - Dual Station	\$556,642	E	*6	10	ř	100 mg/s	\$556,642
Station 80 - Dual Station		\$11,124	\$453,200	\$4,568	î	į.	\$468,892
Station 84 - EMS Station	EN	\$133,650	10	107	\$39,801	8	\$173,451
Station 89 - EMS Station	\$445,854	•		ī	i	j	\$445,854
Ambulance/Transport Fees:							
Station 89 - EMS Station	\$905,220	3 12	8.	ĸ	E	Ť	\$905,220
Station 84 - EMS Station		\$271,350	.() •		\$80,809	4	\$352,159
Total Capital Expansion Expenditures	\$1,907,716	\$416,124	\$453,200	\$4,568	\$120,610	\$0	\$2,902,218
Average Annual Capital Expansion Expenditures (2)	litures ⁽²⁾						\$290,222
Average Functional Population (3)							551,957
Capital Expansion Expenditures per Functional Resident (4)	ional Resident	(4)					\$0.53
Percent of EMS Projects Funded with Ad Valorem Tax Revenues (5)	alorem Tax Re	venues ⁽⁵⁾					57%
EMS Portion Funded with Ad Valorem (6)							\$0.30
EMS Portion Funded with Other Revenue Sources (7)	Sources ⁽⁷⁾						\$0.23

- Source: Brevard County Fire Rescue
- Total expenditures divided by 10 to calculate the average annual expenditures
- Source: Appendix A, Table A-9, average functional population during the same time period
- Average annual capital expansion expenditures (Item 2) divided by the average functional population (Item 3)
- (1) (2) (3) (4) (5) Portion of total capital expansion expenditures funded by ad valorem tax revenue Capital expansion expenditures per functional resident (Item 4) multiplied by the portion of EMS projects funded with ad valorem tax revenues (Item 5)
- 3 EMS Capital expansion expenditures per functional resident (Item 4) less portion funded with ad valorem (Item 6)

For each land use category, the portion of the capital expansion expenditure credit per functional resident funded with ad valorem revenues is adjusted to account for the fact that new homes tend to pay higher taxes per dwelling unit. This adjustment factor was estimated based on a comparison of the average taxable value of homes built over the past five years to that of all homes.

As presented in Table V-8, the adjusted capital expansion expenditure for fire rescue facilities ranged from \$3.85 per functional resident for mobile homes to \$4.25 per resident for single family homes. Similarly, the adjusted capital expansion credit for EMS facilities ranged from \$0.67 for multi family homes to \$0.85 for single family homes.

Table V-8
Adjusted Capital Expansion Credit per Functional Resident

Land Use	Ad Valorem Funded Portion ⁽¹⁾	Credit Adjustment Factor ⁽²⁾	Adjusted Capital Expansion Credit per Functional Resident ⁽³⁾	Total Credit per Functional Resident ⁽⁴⁾
Fire Rescue				
Single Family (Detached)	\$2.36	1.80	\$4.25	\$4.25
Multi Family/Condo/Duplex/Townhouse	\$2.36	1.71	\$4.04	\$4.04
Mobile Home	\$2.36	1.63	\$3.85	\$3.85
EMS	137 7 14 1			
Single Family (Detached)	\$0.30	2.08	\$0.62	\$0.85
Multi Family/Condo/Duplex/Townhouse	\$0.30	1.46	\$0.44	\$0.67
Mobile Home	\$0.30	1.70	\$0.51	\$0.74

- (1) Source: Table V-7
- (2) Source: Brevard County Property Appraiser
- (3) Ad valorem funded portion (Item 1) multiplied by credit adjustment factor (Item 2)
- (4) Sum of adjusted credit per student (Item 3) and credit per student for the portion funded with other revenue sources from Table 7 (Item 7)

Net Fire/Emergency Medical Services Impact Cost

The net impact fee per functional resident is the difference between the cost component and the credit component. Table V-9 summarizes the calculation of the net fire rescue and EMS impact costs per functional resident.

The first section of this table identifies the total impact cost as \$268 per functional resident for fire rescue facilities and \$54 per functional resident for EMS facilities. The second section of the table identifies the revenue credits for the fire rescue and EMS based on the adjusted capital expansion credit from Table V-8. The net impact cost per functional resident is the difference between the total impact cost and the total revenue credit.

Table V-9
Net Impact Cost per Functional Resident

	Fire Re	scue	EM	S
Impact Cost / Credit Element	Impact Cost	Revenue Credits	Impact Cost	Revenue Credits
Impact Cost		24, 25 39.11		
Total Impact Cost per Functional Resident ⁽¹⁾	\$268.26		\$54.23	
Revenue Credit				7.5.8
Capitalization Rate		3.0%		3.0%
Capitalization Period (in years)		25		25
Avg Annual Capital Improvement Credit per Funct	ional Resident ⁽²⁾ :			
- Single Family Detached		\$4.25		\$0.85
- Multi Family/Condo/Duplex/Townhouse		\$4.04		\$0.67
- Mobile Home		\$3.85		\$0.74
- Non-residential Land Uses		\$2.36		\$0.53
Capital Improvement Credit per Resident (3):				
- Single Family Detached		\$74.01		\$14.80
- Multi Family/Condo/Duplex/Townhouse		\$70.35		\$11.67
- Mobile Home		\$67.04		\$12.89
- Non-residential Land Uses		\$41.10		\$9.23
Net Impact Cost	MISSAGE STATE			
Net Impact Cost per Functional Resident ⁽⁴⁾ :				
- Single Family Detached	\$194.25		\$39.43	
- Multi Family/Condo/Duplex/Townhouse	\$197.91		\$42.56	
- Mobile Home	\$201.22		\$41.34	
- Non-residential Land Uses	\$227.16		\$45.00	

- (1) Source: Table V-6
- (2) Source: Table V-8 for residential land uses and Table V-7 for non-residential land uses
- (3) Average annual capital improvement credit per functional resident (Item 2) over a capitalization rate of 3.0% for 25 years. The capitalization rate estimate is based on interest rate paid for debt service on recent bond issues.
- (4) Total impact cost per functional resident (Item 1) less total revenue credit per functional resident (Item 3).

Calculated Fire/Emergency Medical Services Impact Fee Schedule

Table V-10 presents the calculated fire rescue impact fee schedule developed for Brevard County for both residential and non-residential land uses, based on the net impact cost per functional resident for fire rescue services previously presented in Table V-9. These fees will only apply to development in the unincorporated county, Grant-Valkaria Town, Melbourne Village Town, Palm Shores Town, and West Melbourne City.

Table V-11 presents the calculated EMS impact fee schedule for Brevard County for both residential and non-residential and uses, based on the net impact cost per functional resident for EMS previously presented in Table V-9. These fees will apply to development countywide.

Table V-12 presents the combined fire rescue and EMS fee rates that will be charged to development within the unincorporated county, Grant-Valkaria Town, Melbourne Village Town, Palm Shores Town, and West Melbourne City.

The increase in fees is primarily due to cost increases, which reflect both increasing costs since 2000 and the change in station design characteristics.

Fire Rescue and EMS Impact Fee Schedule Comparison

As part of the work effort in updating Brevard County's fire rescue and EMS impact fee programs, a comparison to impact fee schedules of other Florida counties was completed. Table V-13 presents this comparison. The fees shown for Brevard County are combined fire rescue/EMS fees that are applicable to development in the unincorporated county, Grant-Valkaria Town, Melbourne Village Town, Palm Shores Town, and West Melbourne City.

Table V-10

	Calculated Fire Rescue	Impact Fee	Schedule			
ITE LUC	Land Use	Impact Unit	Functional Resident Coefficient ⁽¹⁾	Total Impact Fee ⁽²⁾	Current Impact Fee ⁽³⁾	Percent Change ⁽⁴⁾
100	RESIDENTIAL:					
210	Single Family (Detached)	du	1.68	\$326	\$54.08	503%
220	Multi-Family (Apartment); 1-2 Stories	du	0.90	\$178		278%
222/223	Multi-Family (Apartment); 3+ Stories	du	0.90	\$178		474%
231	Condo/Duplex/Townhouse; 1-2 Stories	du	0.90	\$178		261%
232	Condo/Duplex/Townhouse; 3+ Stories	du	0.90	\$178		449%
240	Mobile Home	du	1,11	\$223	\$42.56	424%
	TRANSIENT, ASSISTED, GROUP:				11 73 3 1/10	
310	Hotel	room	1.05	\$239		1473%
320	Motel	room	1.01	\$229		1408%
620	Nursing Home	bed	0.90	\$204		475%
253	Assisted Care Living Facility (ACLF)	du	0.97	\$220	\$45.46	384%
y 10-1	RECREATION:	1,21,520			VEID OF S	ME ST
416	RV Park	site	0,50	\$114		168%
420	Marina	boat berth	0.19	\$43		414%
430	Golf Course	hole	1.08	\$245		70%
444	Movie Theater	screen	5,98	\$1,358		191%
491	Raquet/Tennis Club	court	3,16	\$718		794%
492	Health/Fitness Club	1,000 sf	3,09	\$702	\$45,23	1452%
	INSTITUTIONS:	Berry de			TIME STEEL WILL	Settle 1
520	Elementary School (Private)	student	0.06	\$14		258%
522	Middle School (Private)	student	0.07	\$16		190%
530	High School (Private)	student	0.08	\$18		165%
540	University/Junior College (7,500 or fewer students) (Private)	student	0.10	\$23	\$3.07	649%
550	University/Junior College (more than 7,500 students) (Private)	student	0.07	\$16	\$5,26	204%
560	Church	1,000 sf	0.51	\$116	\$12.34	840%
565	Day Care Center	1,000 sf	0.89	\$202	\$275.25	-27%
610	Hospital	1,000 sf	1,37	\$311	\$34.42	804%
640	Animal Hospital/Veterinary Clinic	1,000 sf	2.32	\$527	\$39.03	1250%
10000	OFFICE:					
	General Office 50,000 sf or less	1,000 sf	1,41	\$320	\$25.67	1147%
	General Office 50,001 - 100,000 sf	1,000 sf	1.19	\$270	\$25.67	952%
710	General Office 100,001 - 200,000 sf	1,000 sf	1.01	\$229	\$25.67	792%
	General Office 200,001 - 400,000 sf	1,000 sf	0,85	\$193	\$25.67	652%
	General Office greater than 400,000 sf	1,000 sf	0,77	\$175	\$25.67	582%
	Medical Office/Clinic 10,000 sf or less	1,000 sf	1.14	\$259	\$42.98	503%
720	Medical Office/Clinic greater than 10,000 sf	1,000 sf	1.66	\$377	\$42.98	777%
750	Office Park	1,000 sf	1.04	\$236	\$20.06	1077%
	RETAIL:		201		o ka a la a	
	Retail 10,000 sfgla or less	1,000 sfgla	2,45	\$557	\$183.31	204%
	Retail 10,001-50,000 sfgla	1,000 sfgla		\$557	\$120.54	362%
	Retail 50,001-100,000 sfgla	1,000 sfgla		\$559	\$120.54	364%
820	Retail 100,001-300,000 sfgla	1,000 sfgla				655%
520	Retail 300,001-500,000 sfgla	1,000 sfgla		\$579		669%
	Retail 500,001-1,000,000 sfgla	1,000 sfgla		\$550		631%
	Retail greater than 1,000,000 sfgla	1,000 sfgla		\$527		727%
841	New/ Used Auto Sales	1,000 sf	1.47	\$334		4219
	Supermarket	1,000 sf	2.05	-		1829
850	Convenience Market (24 hour)	1000 sf	5,47	\$1,243		2539
851	Convenience Market (24 hour) Convenience Market w/Gasoline	1,000 sf	5,83			2769
853 880/881	Pharmacy/Drug Store with or w/o Drive-Thru	1,000 sf	1,96			N/A
		1,000 sf	0.23			4169
890	Furniture Store	1,000 sf	2.23			6479
911	Bank/Savings Walk-In	1,000 sf	2.28			7469
912	Bank/Savings Drive-In	1,000 sf	6,82			4889
931	Quality Restaurant	1,000 sf	6.78			3749
932	High-Turnover Restaurant	1,000 sf	8.90		-	5289
934	Fast Food Rest. w/ Drive-Thru		1,50			5859
942	Automobile Care Center	1,000 sf			-	4479
944/946		fuel pos.	1.91		+	-329
947	Self Service Car Wash	service bay	0.87	\$136	3232,42	-327
	INDUSTRIAL:	1.000-6	1 0.50		N/4	K1//
110	General Light Industrial	1,000 sf	0.69			N/A
120	General Heavy Industrial	1,000 sf	0.49		+	N/A
150	Warehousing	1,000 sf	0.28			
151	Mini-Warehouse	1,000 sf	0,06	\$14	N/A	N/A

¹⁵¹ Mini-Warehouse 1,000 sf 0.06

(1) Source: Appendix A, Table A-11 for residential land uses and A-12 for non-residential land uses
(2) Source: Net impact cost per resident from Table V-9 multiplied by the functional resident coefficient (Item 1)
(3) Source: Brevard County Planning and Development Department
(4) Percent change from the current impact fee rates (Item 3) to the total impact fee (Item 2)

Table V-11 Calculated EMS Impact Fee Schedule

RESIDENTIAL:		Calculated EMS Im	pact Fee Sch	redule			
RESIDENTIALE	ITE LUC	Land Use		Resident			Percent Change ⁽⁴⁾
2020 Multi-Family (Apartment); 1-2 Stories du 0.88 \$37 \$33.65		RESIDENTIAL:					
Author	210		du	1,67	\$66	\$38.65	71%
221			du	0.88	\$37	\$33,68	10%
			du	0.88	\$37	\$22.15	67 9
Mobile Home	231	Condo/Duplex/Townhouse; 1-2 Stories	du	0.88	\$37	\$35.22	59
TAMASSEMT, ASSISTED, GROUP:	232	Condo/Duplex/Townhouse: 3+ Stories	du	0.88	\$37	\$23.16	60%
Hotel	240	Mobile Home	du	1.09	\$45	\$30.41	48%
Mote		TRANSIENT, ASSISTED, GROUP:				713 OLD	Letter
Assisted Care Living Facility (ACLF)	310						333%
Assisted Care Living Facility (ACLF)	320	Motel					3149
### APCREATION: ### APT ART	620						639
416 RV Park	253		du	0.93	\$42	\$32,49	299
Marina			BL BUILDE	0.50	dan	¢20.41	-249
430 Golf Course					10777		519
Movie Theater							-529
Raquet/Tennis Club							-19%
Health/Fitness Club 1,000 sf 3.09 5339 532.32							1479
							330%
Section Student Student DoG Sa S2.79	492		1,00031	1 3.09	2123	352.32	3307
Middle School (Private) Student 0.07 \$3 \$3.39 Span High School (Private) Student 0.08 \$4 \$4.86 Auditoristry/Junior College (7,500 or fewer students) (Private) Student 0.10 \$5 \$2.20 Span University/Junior College (more than 7,500 students) (Private) Student 0.07 \$3 \$3.76 Span Church 1,000 f 0.51 \$23 \$8.81 Span Church 1,000 f 0.51 \$23 \$8.81 Span Church 1,000 f 0.89 \$40 \$196.74 Span Charles 1,000 f 0.89 \$1.41 \$63 \$18.35 Span Charles 1,000 f 0.90 f 1.14 \$63 \$18.35 Span Charles 1,000 f 0.90 f 1.14 \$63 \$18.35 Span Charles 1,000 f 0.90 f 0.90 f 0.90 f Span Charles 1,000 f 0.90 f 0.90 f 0.90 f Span Charles 1,000 f 0.90 f 0.90 f 0.90 f 0.90 f Span Charles 1,000 f 0.90 f 0.90 f 0.90 f 0.90 f Span Charles 1,000 f 0.90 f 0.90 f 0.90 f 0.90 f Span Charles 1,000 f 0.90 f 0.90 f 0.90 f 0.90 f 0.90 f Span Charles 1,000 f 0.90 f	F20		student	0.06	\$3	\$2.79	89
Same							-249
University/Junior College (7,500 or fewer students) (Private) Student 0.10 \$5 \$2.20 \$2.50 University/Junior College (more than 7,500 students) (Private) Student 0.07 \$3 \$3.53.6 \$3.50							+189
Signature							1279
Section							-20%
Section Sect							1619
610 Hospital 1,000 sf 1.37 562 524,60							-809
### Serial 10,001-50,000 sfgla 1,000 sfgla 2,45 5110 586.13 ### Retail 10,001-50,000 sfgla 1,000 sfgla 1,000 sfgla 2,45 5110 586.13 ### Retail 10,001-50,000 sfgla 1,000 sfgla 1,000 sfgla 2,45 5110 583.78 ### Retail 10,001-30,000 sfgla 1,000 sfgla 2,45 5110 583.78 ### Retail 10,001-50,000 sfgla 1,000 sfgla 2,45 5110 583.78 ### Retail 10,001-300,000 sfgla 1,000 sfgla 2,45 5110 583.78 ### Retail 10,001-300,000 sfgla 1,000 sfgla 2,45 5110 583.78 ### Retail 10,001-300,000 sfgla 1,000 sfgla 2,45 5110 583.78 ### Retail 10,001-300,000 sfgla 1,000 sfgla 2,45 5110 583.78 ### Retail 10,001-300,000 sfgla 1,000 sfgla 2,45 5110 583.78 ### Retail 10,001-300,000 sfgla 1,000 sfgla 2,45 5110 583.78 ### Retail 10,001-300,000 sfgla 1,000 sfgla 2,45 5110 583.78 ### Retail 10,001-50,000 sfgla 1,000 sfgla 2,45 5110 583.78 ### Retail 10,001-50,000 sfgla 1,000 sfgla 2,50 5113 553.78 ### Retail 10,001-50,000 sfgla 1,000 sfgla 2,50 5113 553.78 ### Retail 10,001-50,000 sfgla 1,000 sfgla 2,50 5113 553.78 ### Retail 10,001-50,000 sfgla 1,000 sfgla 2,50 5113 553.78 ### Retail 10,001-50,000 sfgla 1,000 sfgla 2,50 5113 553.78 ### Retail 10,001-50,000 sfgla 1,000 sfgla 2,50 5113 553.78 ### Retail 10,001-50,000 sfgla 1,000 sfgla 2,50 5113 553.78 ### Retail 10,001-50,000 sfgla 1,000 sfgla 2,50 5113 553.78 ### Retail 10,001-50,000 sfgla 1,000 sfgla 2,50 5113 553.78 ### Retail 10,001-50,000 sfgla 1,000 sfgla 2,50 5113 553.78 ### Retail 10,001-50,000 sfgla 1,000 sfgla 2,50 5113 553.78 ### Retail 10,001-50,000 sfgla 1,000 sfgla 2,50 5113 553.78 ### Retail 10,001-50,000 sfgla 1,000 sfgla 2,50 5113 553.78 ### Retail 10,001-50,000 sfgla 1,000 sfgla 2,50 5113 553.78 ### Retail 10,001-50,000 sfgla 1,000 sfgla 2,50 5113 553.78 ### Retail 10,001-50,000 sfgla 1,000 sfgla 2,50							1529
General Office 50,000 sf or less						-	2739
General Office 50,000 sf or less				DOOR TO DESCRIP			MARIE
General Office 50,001 - 100,000 sf			1,000 sf	1,41	\$63	\$18.35	243%
General Office 100,001 - 200,000 sf			1,000 sf	1.19	\$54	\$18.35	194%
General Office 200,001 - 400,000 sf	710		1,000 sf	1.01	\$45	\$18.35	145%
Medical Office/Clinic 10,000 sf or less		General Office 200,001 - 400,000 sf	1,000 sf	0.85	\$38	\$18.35	1079
Medical Office/Clinic greater than 10,000 sf 1,000 sf 1,04 \$47 \$14,33		General Office greater than 400,000 sf	1,000 sf	0.77	\$35	\$18.35	919
Medical Office/Clinic greater than 10,000 sf 1,000 sf 1,004 \$47 \$14.33	720	Medical Office/Clinic 10,000 sf or less	1,000 sf	1.14	\$51	\$30.72	669
Retail 10,000 sfgla or less	720	Medical Office/Clinic greater than 10,000 sf	1,000 sf	1.66			1449
Retail 10,000 sfgla or less 1,000 sfgla 2.45 \$110 \$130.99	750	Office Park	1,000 sf	1.04	\$47	\$14.33	2289
Retail 10,001-50,000 sfgla 1,000 sfgla 2.45 \$110 \$86.13 Retail 50,001-100,000 sfgla 1,000 sfgla 2.46 \$111 \$86.13 820 Retail 100,001-300,000 sfgla 1,000 sfgla 2.50 \$113 \$53.78 Retail 300,001-500,000 sfgla 1,000 sfgla 2.55 \$115 \$53.78 Retail 300,001-1,000,000 sfgla 1,000 sfgla 2.42 \$109 \$53.78 Retail greater than 1,000,000 sfgla 1,000 sfgla 2.32 \$104 \$45.51 841 New/ Used Auto Sales 1,000 sfgla 2.32 \$104 \$45.51 850 Supermarket 1,000 sf 1.47 \$66 \$45.85 850 Supermarket 1,000 sf 2.05 \$92 \$118.03 851 Convenience Market (24 hour) 1000 sf 5.47 \$246 \$251.34 853 Convenience Market (24 hour) 1,000 sf 5.83 \$262 \$251.34 880/B81 Pharmacy/Drug Store with or w/o Drive-Thru 1,000 sf 5.83 \$262 \$251.34<		RETAIL:					
Retail 50,001-100,000 sfgla 1,000 sfgla 2.46 \$111 \$86.13 820 Retail 100,001-300,000 sfgla 1,000 sfgla 2.50 \$113 \$53.78 Retail 300,001-500,000 sfgla 1,000 sfgla 2.55 \$115 \$53.78 Retail \$00,001-1,000,000 sfgla 1,000 sfgla 2.42 \$109 \$53.78 Retail greater than 1,000,000 sfgla 1,000 sfgla 2.32 \$104 \$45.51 841 New/ Used Auto Sales 1,000 sfgla 2.32 \$104 \$45.51 850 Supermarket 1,000 sf 2.05 \$92 \$118.03 851 Convenience Market (24 hour) 1000 sf 5.47 \$246 \$251.34 853 Convenience Market w/Gasoline 1,000 sf 5.83 \$262 \$251.34 880/881 Pharmacy/Drug Store with or w/o Drive-Thru 1,000 sf 5.83 \$262 \$251.34 890 Furniture Store 1,000 sf 0.23 \$10 \$7.20 91 Bank/Savings Walk-In 1,000 sf 2.23 \$100		Retail 10,000 sfgla or less					-169
820 Retail 100,001-300,000 sfgla 1,000 sfgla 2.50 \$113 \$53.78 Retail 300,001-500,000 sfgla 1,000 sfgla 2.55 \$115 \$53.78 Retail 500,001-1,000,000 sfgla 1,000 sfgla 2.42 \$109 \$53.78 Retail greater than 1,000,000 sfgla 1,000 sfgla 2.32 \$104 \$45.51 841 New/ Used Auto Sales 1,000 sf 1.47 \$66 \$45.85 850 Supermarket 1,000 sf 2.05 \$92 \$118.03 851 Convenience Market (24 hour) 1000 sf 5.47 \$246 \$251.34 853 Convenience Market w/Gasoline 1,000 sf 5.83 \$262 \$251.34 880/881 Pharmacy/Drug Store with or w/o Drive-Thru 1,000 sf 1.96 \$88 N/A 890 Furniture Store 1,000 sf 0.23 \$10 \$7.20 911 Bank/Savings Walk-In 1,000 sf 2.28 \$103 \$48.52 912 Bank/Savings Drive-In 1,000 sf 2.28 \$103		Retail 10,001-50,000 sfgla					289
Retail 300,001-500,000 sfgla 1,000 sfgla 2.55 \$115 \$53.78 Retail 500,001-1,000,000 sfgla 1,000 sfgla 2.42 \$109 \$53.78 Retail greater than 1,000,000 sfgla 1,000 sfgla 2.32 \$104 \$45.51 841 New/ Used Auto Sales 1,000 sf 1.47 \$66 \$45.85 850 Supermarket 1,000 sf 2.05 \$92 \$118.03 851 Convenience Market (24 hour) 1000 sf 5.47 \$246 \$251.34 853 Convenience Market w/Gasoline 1,000 sf 5.83 \$262 \$251.34 880/881 Pharmacy/Drug Store with or w/o Drive-Thru 1,000 sf 1.96 \$88 N/A 890 Furniture Store 1,000 sf 0.23 \$10 \$7.20 911 Bank/Savings Walk-In 1,000 sf 2.23 \$100 \$48.52 912 Bank/Savings Drive-In 1,000 sf 2.28 \$103 \$43.74 931 Quality Restaurant 1,000 sf 6.82 \$307 \$							29%
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110 General Light Industrial 1,000 sf 0.69 \$31 N/A	5-11		1,000			No. of the last	144-144
	110		1,000 sf	0.69	\$31	N/A	N/A
TAO TOCHCIGITICANY INDUSTRIAL TOOD 31 1 0:431 922 N/A	120	General Heavy Industrial	1,000 sf	0.49			N/A
150 Warehousing 1,000 sf 0.28 \$13 N/A							N/A
151 Mini-Warehouse 1,000 sf 0.06 \$3 N/A						N/A	N//

¹⁵¹ Mini-Warehouse 1,000 sf 0.06

(1) Source: Appendix A, Table A-10 for residential land uses and A-12 for non-residential land uses
(2) Source: Net impact cost per resident from Table V-9 multiplied by the functional resident coefficient (Item 1)
(3) Source: Brevard County Planning and Development Department
(4) Percent change from the current impact fee rates (Item 3) to the total impact fee (Item 2)

Table V-12 Calculated Fire Rescue/EMS Impact Fee Schedule

	Calculated Fire Res	cue/EMS I	mpact Fee S	cneaule			
ITELUC	Land Use	Impact Unit	Fire Rescue Impact Fee ⁽¹⁾	EMS Impact Fee ⁽²⁾	Total Impact Fee (II)	Total Current Impact Fee ⁽⁴⁾	Percent Change ⁽⁵⁾
	RESIDENTIAL:		CHAPTER VO				
210	Single Family (Detached)	du	\$326	\$66	\$392	\$92.73	323%
220	Multi-Family (Apartment); 1-2 Stories	du	\$178	\$37	\$215	\$80,81	166%
222/223	Multi-Family (Apartment); 3+ Stories	du	\$178	\$37	\$215	\$53.14	305%
231	Condo/Duplex/Townhouse; 1-2 Stories	du	\$178	\$37	\$215	\$84.51	154%
232	Condo/Duplex/Townhouse; 3+ Stories	du	\$178	\$37 \$45	\$215 \$268		287% 267%
240	Mobile Home TRANSIENT, ASSISTED, GROUP:	du	\$223	345	\$288	\$72,97	20776
310	Hotel	room	\$239	\$47	\$286	\$26.05	998%
320	Motel	room	\$233	\$45	\$274		952%
620	Nursing Home	bed	\$204	\$41	\$245		303%
253	Assisted Care Living Facility (ACLF)	bed	\$220	\$42	\$262	\$77.95	236%
	RECREATION:	2 - 112					N W 200
416	RV Park	site	\$114	\$23	\$137	572.97	88%
420	Marina	boat berth	\$43	\$9	\$52		262%
430	Golf Course	hole	\$245	\$49	\$294		19%
444	Movie Theater	screen	\$1,358	\$269	\$1,627		103%
491	Raquet/Tennis Club	court	\$718	\$142 \$139	\$860 \$841		524% 985%
492	Health/Fitness Club	1,000 sf	\$702	\$139	\$841	\$77.55	903%
520	INSTITUTIONS:	student	\$14	\$3	\$17	\$6.70	154%
520 522	Elementary School (Private) Middle School (Private)	student	\$16	\$3	\$19		101%
530	High School (Private)	student	\$18	\$4	\$22		89%
540	University/Junior College (7,500 or fewer students) (Private)	student	\$23	\$5			431%
550	University/Junior College (more than 7,500 students) (Private)	student	\$16		\$19		111%
560	Church	1,000 sf	\$116	\$23	\$139	\$21.15	557%
565	Day Care Center	1,000 sf	\$202	\$40	\$242		-49%
610	Hospital	1,000 sf	\$311	\$62	\$373		532%
640	Animal Hospital/Veterinary Clinic	1,000 sf	\$527	\$104	\$631	\$66.91	843%
12515	OFFICE:					411.00	77000
	General Office 50,000 sf or less	1,000 sf	\$320	\$63	\$383 \$324		770% 636%
740	General Office 50,001 - 100,000 sf	1,000 sf	\$270 \$229	\$54 \$45	\$324		522%
710	General Office 100,001 - 200,000 sf	1,000 sf	\$193	\$38	5231		425%
	General Office 200,001 - 400,000 sf General Office greater than 400,000 sf	1,000 sf	\$175	\$35	\$210		377%
	Medical Office/Clinic 10,000 sf or less	1,000 sf	\$259		\$310		321%
720	Medical Office/Clinic greater than 10,000 sf	1,000 sf	\$377	\$75	\$452		513%
750	Office Park	1,000 sf	\$236	\$47	\$283	\$34.39	723%
	RETAIL:					Resemble	
	Retail 10,000 sfgla or less	1,000 sfgla	\$557	\$110			112%
	Retail 10,001-50,000 sfgla	1,000 sfgla	\$557	\$110			223%
1	Retail 50,001-100,000 sfgla	1,000 sfgla	\$559		\$670		224%
820	Retail 100,001-300,000 sfgla	1,000 sfgla	\$568	\$113 \$115	\$681 \$694		428% 438%
	Retail 300,001-500,000 sfgla	1,000 sfgla	\$579 \$550		\$659		411%
	Retail 500,001-1,000,000 sfgla	1,000 sfgla 1,000 sfgla	\$527	\$104	\$631		478%
841	Retail greater than 1,000,000 sfgla New/ Used Auto Sales	1,000 sf	\$334	\$66			264%
850	Supermarket	1,000 sf	\$466		\$558		97%
851	Convenience Market (24 hour)	1000 sf	\$1,243	\$246	\$1,489	\$603.06	147%
853	Convenience Market w/Gasoline	1,000 sf	\$1,324	\$262	\$1,586	\$603.06	163%
880/881	Pharmacy/Drug Store with or w/o Drive-Thru	1,000 sf	\$445	\$88	\$533	N/A	N/A
890	Furniture Store	1,000 sf	\$52				259%
911	Bank/Savings Walk-In	1,000 sf	\$507				421%
912	Bank/Savings Drive-In	1,000 sf	\$518				492%
931	Quality Restaurant	1,000 sf	\$1,549				311%
932	High-Turnover Restaurant	1,000 sf	\$1,540				231% 339%
934	Fast Food Rest, w/ Drive-Thru	1,000 sf	\$2,022 \$341				339%
942	Automobile Care Center Gasoline/Service Station with or w/o Car Wash	fuel pos.	\$434				282%
944/946	Self Service Car Wash	service bay					-53%
547	INDUSTRIAL:	Lacitice Day	7230	755	THE STREET		T. Carlot
110	General Light Industrial	1,000 sf	\$157	\$31	\$188	N/A	N/A
120	General Heavy Industrial	1,000 sf	\$111				N/A
150	Warehousing	1,000 sf	\$64	\$13	\$77		N/A
	Mini-Warehouse	1,000 sf	514	\$3	\$17	N/A	N/A

⁽¹⁾ Source: Table V-10, Item 2
(2) Source: Table V-11, Item 2
(3) Sum of fire rescue impact fee (Item 1) and EMS impact fee (Item 2)
(4) Source: Brevard County Planning and Development Department
(5) Percent change from the current adopted fee (Item 5) to the total impact fee (Item 4)

Fire Rescue/Emergency Medical Services Impact Fee Schedule Comparison

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1000000	III.	Brevard County	ounty	Volusia	Seminole	Indian River	Orange	Okeechobee	St. Lucie	Polk	Pasco	Lee	Collier	Manatee	Marion	Sarasota
Land Use	Unit	Calculated ⁽²⁾	Existing ⁽³⁾	County ⁽⁴⁾	County ⁽⁵⁾	County ⁽⁶⁾	County ⁽⁷⁾	County ⁽⁸⁾	County ⁽⁹⁾	County(10)	County ⁽¹¹⁾	County ⁽¹²⁾	County(13)	County ⁽¹⁴⁾	County ⁽¹⁵⁾	County ⁽¹⁶⁾
Date of Last Update		2014	2000	n/a	n/a	2014	2011	2012	2009	2009	2003	2012	2010	2011	2005	2007
Adoption Percentage		100%	100%	n/a	n/a	100%	n/a	100%	100%	50%	100%	92%/58%	100%	100%	100%	100%
Residential:																
Single Family (2,000 sf)	dи	\$392	\$93	\$300	\$172	\$314	\$270	\$574	\$566	\$126	\$420	\$461	\$1,065	\$319	\$287	\$339
Non-Residential:			1 No. 1	10000											となる	
Light Industrial	1,000 sf	\$188		\$150	\$13	\$139	\$50	\$119	\$75	\$20	\$549	\$129	\$676	\$76	\$119	\$106
Office (50,000 sq ft)	1,000 sf	\$383	\$44	\$150	\$72	\$201	\$117	\$278	\$334	\$125	\$549	\$253	\$725	\$133	\$209	\$178
Retail (125,000 sq ft)	1,000 sf	\$681	\$129	\$150	\$160	\$477	\$297	\$595	\$525		\$549	\$542	\$781	\$128	\$505	\$442
Bank w/Drive-Thru	1,000 sf	\$621	\$105	\$150	\$72	\$459	\$297	\$595	\$525	\$149	\$549	\$542	\$783	\$128	\$372	\$442
Fast Food w/Drive-Thru	1,000 sf	\$2,423	\$552	\$150	\$320	\$1,792	\$297	\$595	\$525	\$149	\$549	\$542	\$1,233	\$128	\$2,081	\$442

- (1) du = dwelling unit
 (2) Source: Table V-12
 (2) Source: Table V-12
 (3) Source: Brevard County Planning & Development Department. Fire Rescue and EMS rates combined.
 (4) Source: Seminole County Planning & Development Department.
 (5) Source: Seminole County Planning & Development Department.
 (6) Source: Orange County Planning & Development Department.
 (7) Source: Orange County Planning & Development Department.
 (8) Source: Orange County Planning & Development Department.
 (8) Source: Orange County Planning & Development Department. Fire and EMS rates combined.
 (9) Source: Orange County Planning & Development Department, Fire America Combined.
 (10) Source: County Planning & Development Department, Fire Combat and Rescue rates combined.
 (11) Source: Pasko County Planning & Development Department. Fire Combat and Rescue rates combined.
 (12) Source: Pasko County Community Development Department. Fire Rescue impact fees are an average of the 16 Fire Districts as is the adoption percentage. EMS fees were adopted as 58%. Fire Rescue and EMS rates combined.
 (13) Source: Collier County Planning & Development Department. Fire Rescue impact fees are an average of the 16 Fire Districts as is the adoption percentage. EMS fees were adopted as 58%. Fire Rescue and EMS rates combined.
 (14) Source: Collier County Planning & Development Department. Fire Rescue impact fees are an average of all bedroom options used for residential.
- (15) Source: Marion County Planning Department, Fire/EMS fees are currently suspended.
- (16) Source: Sarasota County Planning & Development Department. Fire and EMS rates combined.

V-19

VI. Educational Facilities

As mentioned previously, the Brevard County's School Impact Fee was implemented in 2004 and the technical study has not been updated since that time. The study methodology is documented in the following 10 sections of this technical report:

- Methodology
- Inventory
- Service Area and Enrollment
- Facility Service Delivery
- Cost Component
- Credit Component
- Net Impact Cost per Student
- Student Generation Rates
- Calculated School Impact Fee Schedule
- School Impact Fee Schedule Comparison

Information supporting this analysis was obtained from the Brevard County School District and other sources, as indicated.

Inventory

The Brevard Public Schools (the District) provides public education facilities that are available to all school-age residents of Brevard County. As such, this analysis will consider all public elementary, middle, and high school level facilities and the students attending these facilities located throughout and living within Brevard County.

The District currently operates 82 traditional public schools that serve the students of Brevard County and its municipalities, including 55 elementary schools, 11 middle schools, 5 Junior/Senior high schools, and 11 high schools. The District also operates a number of other programs, such as alternative learning programs and adult learning centers throughout the county. The District's current school inventory is provided in Appendix C, Table C-1. Junior/Senior high schools are combined with high schools in the following tables in terms of the permanent student station and permanent capacity figures.

Service Area and Enrollment

The Brevard Public Schools provides public education facilities that are available to all Kindergarten thru 12th grade (K-12) students throughout the entire county. Currently, Brevard County has four school impact fee benefit districts, which require that impact fee revenues collected in one district be spent in the same benefit district. Benefit districts are typically created to ensure the fee payer receives the benefit in cases when the capital projects built with impact fee revenues benefit a limited geographic area. In the case of public schools, attendance boundaries can be redrawn to balance school enrollment with available school capacity and therefore can serve different geographic areas over time. In addition, the State Department of Education (DOE) has been increasing its support of Choice programs where students can attend schools outside of Brevard County Public Schools provides extensive their designated districts. opportunities for a student to attend schools other than their zoned school, with five Schools of Choice and numerous Choice programs resulting in 9,700 students (15 percent) attending out-of-area schools. As such, the appropriate impact fee benefit district for public schools is countywide.

Table VI-1 presents the historical student enrollment since 2000, and projected enrollment through 2019. In order to be consistent with the inventory used in the impact fee analysis, the figures presented in this table only include those students attending (or projected to attend) the schools listed in Appendix C, Table C-1. The annual percent change is presented, as well as a three-year average to account for any random fluctuations.

Table VI-1
Brevard County Enrollment Trends

	evalu County E		
School Year	Enrollment ⁽¹⁾	Annual % Change ⁽²⁾	Three-Year Average ⁽³⁾
2000-01	68,736	22	
2001-02	69,271	0.8%	
2002-03	70,047	1.1%	
2003-04	70,946	1.3%	1.1%
2004-05	71,750	1.1%	1.2%
2005-06	71,692	-0.1%	0.8%
2006-07	70,717	-1.4%	-0.1%
2007-08	70,479	-0.3%	-0.6%
2008-09	69,034	-2.1%	-1.3%
2009-10	68,003	-1.5%	-1.3%
2010-11	67,219	-1.2%	-1.6%
2011-12	68,037	1.2%	-0.5%
2012-13	67,555	-0.7%	-0.2%
2013-14	66,403	-1.7%	-0.4%
2014-15	66,985	0.9%	-0.5%
2015-16	66,907	-0.1%	-0.3%
2016-17	66,822	-0.1%	0.2%
2017-18	66,676	-0.2%	-0.1%
2018-19	66,383	-0.4%	-0.2%

- (1) Source: Brevard Public Schools
- (2) Percent change from one year to the next
- (3) Average change over the past three years

Facility Service Delivery

Based on information provided by the School District, "prototype" school characteristics in terms of the number of student stations and permanent square footage were identified and used in the impact fee calculations. Using the prototype square footage and student stations for each school type, the facility service delivery has been identified (FISH net square feet per permanent student station) for the impact fee calculations.

Table VI-2 illustrates the facility service delivery prototype specifications for Brevard Public Schools, which is 141.2 FISH net square feet per permanent student station for elementary schools, 157.4 FISH net square feet per permanent student station for middle schools, and 148.4 FISH net square feet per permanent student station for high schools. The weighted

average facility service delivery based on all three school types is 149.1 FISH net square feet per permanent student station.

Table VI-2
Facility Service Delivery – Prototype Specifications for Brevard Schools

Donated an		School Type		Total /
Description	Elementary	Middle	High	Weighted Avg
Permanent Net Square Footage ⁽¹⁾	137,000	179,000	403,000	719,000
Permanent Student Stations ⁽²⁾	970	1,137	2,716	4,823
Net Square Feet per Student Station (3)	141.2	157.4	148.4	149.1

- (1) Source: Brevard Public Schools
- (2) Source: Brevard Public Schools; Indicates permanent capacity after FISH Adjustment
- (3) Permanent net square footage (Item 1) divided by permanent student stations (Item 2)

Cost Component

The capital costs of providing educational facilities includes several components, such as the school facility cost, transportation cost, and ancillary facility costs. This section addresses each of these components.

Facility Cost per Student Station

The first step in determining the cost of providing public schools to Brevard County residents is to calculate the facility cost per student station. Several cost components must be considered when calculating the total cost of constructing a school, including architect/site improvement costs; construction costs; furniture, fixtures, and equipment (FF&E) costs; and the cost to purchase the land. Each component of the school facility cost is described in more detail in the following subsections.

Architect/Site Improvement, Construction and FF&E Costs

To determine the administration, architect/site improvement, construction, and FF&E costs associated with building a new school in Brevard County, several variables were considered, including:

- Cost associated with new schools or additions to existing schools based on most recently built schools;
- Insurance values of existing schools;
- Estimates for planned schools;
- Information obtained from other jurisdictions regarding recently built schools; and
- Discussions with the District's Facilities Management Services Division.

Based on this information and analysis, construction costs were estimated at \$150 per net square foot for elementary schools, \$160 per net square foot for middle schools, \$190 per net square foot for high schools. In addition, based on a review of historical projects in Brevard County as well as in other jurisdictions, architectural, design and site improvement costs are estimated at 15 percent of construction cost and cost associated with furniture, fixtures, and equipment is estimated at 8 percent of the construction cost. Appendix C provides additional detail on cost estimates.

Table VI-3 presents the cost per square foot figures for the architect/site improvement, construction, and FF&E cost components for each school type. For illustration purposes, Table VI-3 also presents the weighted average figure for each cost component, based on all three school types.

Land Cost

For each school type, the land cost per square foot is based on a value of \$50,000 per acre. This value per acre is based on a review of the following:

- Recent purchases or appraisals by the School District;
- Values of land where current schools are located, as reported by the Brevard County Property Appraiser;
- Vacant land sales of similarly sized parcels;
- Value of all vacant land of similarly sized parcels; and
- Discussions with the District's Facilities Management Services Division and the appraisers retained by the School District.

Appendix C documents the results of the land value analysis in further detail. The land cost per square foot by school type was developed based on the acres per 1,000 permanent net square feet for the future prototype schools. The resulting land cost figures for each type of school also are presented in Table VI-3.

Net Interest Cost

When a School District incurs debt to fund additional capacity, interest costs incurred during the construction period need to be added to the school facility construction costs. Over the past ten years, Brevard Public Schools obtained 65 percent of the funding for new schools by issuing Certificates of Participation (COPs). As such, interest cost incurred during the construction period is also included in Table VI-3. The figure includes a downward adjustment of 35 percent to account for the expansion projects funded with cash.

Table VI-3

School Facility	School Facility Cost per Student Station	nt Station		
	Elementary	Middle	High	Weighted
cost component	School	School	School	Average
Net Square Feet per Student Station (1)	141.2	157.4	148.4	149.1
Existing Permanent Capacity ⁽¹⁾	39,545	9,814	28,246	77,605
School Facility Cost Components:				
Architectural/Civil Design/Site Improvement				
Cost per Net Sq Ft ⁽²⁾	\$22.50	\$24.00	\$28.50	\$25.09
Construction Cost per Net Sq Ft ⁽³⁾	\$150.00	\$160.00	\$190.00	\$167.27
FF&E Cost per Net Sq Ft ⁽⁴⁾	\$12.00	\$12.80	\$15.20	\$13.38
Land Cost per Net Sq Ft ⁽⁵⁾	\$10.70	\$10.95	\$10.90	\$10.75
Net Interest Cost per Net Sq Ft ⁽⁶⁾	\$5.41	\$8.61	\$10.22	\$7.57
Total Facility Cost per Net Sq Ft ⁽⁷⁾	\$200.61	\$216.36	\$254.82	\$224.06
Total Facility Cost per Student Station ⁽⁸⁾	\$28,326	\$34,055	\$37,815	\$33,407
(1) Source: Table VI-2				

(2) E Estimated at 15% of construction cost based on estimates obtained from Brevard Public Schools and recent costs obtained from other Florida School Districts. See Appendix C for further detail.

(3) Construction cost is estimated to range from \$150 per net square foot to \$190 per net square foot, based on information cost estimates is included in Appendix C. obtained from Brevard Public Schools and recently constructed schools in other Florida Jurisdictions. Detailed information on

<u>4</u> Estimated at 8% of the construction cost bases on estimates obtained from Brevard Public Schools and recent cost obtained from other Florida School Districts. Detailed information on cost estimates is included in Appendix C.

(5) The land cost per square foot for each school type is based on the acreage per 1,000 permanent square feet for future schools at a cost of \$50,000 per acre. This cost per acre figure is based on the land value estimate for future schools sites within the county and recent vacant land sales. Further information is included in Appendix C.

6) Net interest carrying cost represents the interest the District has to pay during the construction period for borrowing the 35% of the capacity expansion projects with cash, and borrowed for the remainder. necessary funds to build new schools. The cost is adjusted downward by 35% to reflect that the District funded approximately

Sum of the school facility cost per net square foot (Item 2 thru 6)

8 3 The net square feet per permanent student station (Item 1) multiplied by the total school facility cost per net square foot (Item 7) for each school type. Weighted average is based on the distribution of existing stations for each school type (Item 1)

Total Facility Cost per Student by school type

The total facility impact cost per student for each school type is based on the facility cost per student station figures derived in Table VI-3, and is typically calculated by multiplying the cost per student station by the number of total permanent stations and dividing by current student enrollment. This adjustment of dividing the cost per student station by the ratio of current student enrollment to available capacity converts the cost per student station to a cost per student. In addition, this calculation accounts for the current surplus or shortage in permanent capacity and adjusts the costs accordingly. If there is available capacity (e.g., currently more permanent student stations than expected students), then the total facility cost per student increases because the cost of building excess capacity is being recouped. Similarly, if there are currently more students enrolled than available capacity, the cost per student is adjusted downward.

As presented in Table VI-4, in the case of Brevard County, there is approximately 16 percent available capacity. Prior to including these figures in the calculations, an adjustment was made to account for impact fee revenues used to pay off debt service on the Certificates of Participation (COPs) that funded a portion of the existing capacity. Over the past five years, the School District used an average of \$6.3 million of impact fee revenues per year toward Certificates of Participation (COPs) debt service payments. Given that impact fees are paid only by the new development (as opposed to both existing and new development as in the case of taxes), an adjustment was made to reduce the number of stations at some of the expanded elementary schools as well as the Heritage High School that are funded with COPs, and impact fee revenues are being used to pay a portion of the associated debt service. As a result of this calculation, the available capacity is reduced to 10 percent countywide, which represents the capacity that is either fully paid for or will be paid for with taxes.

In the case of Brevard County, although there is available capacity countywide, because the District's adopted LOS standard per the Interlocal Agreement for Public School Facility Planning and School Concurrency is 100 percent, the cost per student station calculated in Table VI-3 also represents the facility cost per student. This is also appropriate because part of the available capacity is used for the space needed for students with special needs (ESE) and their aides, conversion of classrooms to computer testing labs, and dual enrollment. Given these factors and due to the unique programs offered by Brevard Public Schools, the schools are effectively full.

Total Impact Cost per Student – FISH Net Square Feet Table VI-4

Calculation Step	Elementary School	Middle School	High School	Weighted Average /
	301001	301001	Scrioni	Total
Facility Impact Cost per Student				
Facility Cost per Student Station ⁽¹⁾	\$28,326	\$34,055	\$37,815	\$33,407
Existing (2014) Permanent Capacity ⁽²⁾	39,545	9,814	28,246	77,605
Existing (2014) Permanent Capacity Adjusted for Debt Service Paid with Impact Fees (3)	38,055	9,814	26,025	73,894
Existing (2014) Student Enrollment ⁽⁴⁾	35,203	7,952	23,830	66,985
Ratio of Existing Adjusted Permanent Capacity to Existing Enrollment ⁽⁵⁾	108%	123%	109%	110%
Adopted LOS Standard ⁽⁶⁾	100%	100%	100%	100%
Final Ratio of Permanent Capacity to Enrollment Used for Impact Fee Calculations (7)	100%	100%	100%	100%
Total Facility Impact Cost per Student ⁽⁸⁾	\$28,326	\$34,055	\$37,815	\$33,407
(1) Source: Table VI-3				

Source: Appendix C, Table C-1 Source: Table VI-3

Source: Brevard Public Schools Accounts for the stations funded with Certificates of Occupancy (COPs) where the debt service will be paid with future impact fee revenues.

Ratio of permanent capacity to student enrollment (Item 3/Item 4).

(2) (3) (4) (6) (7) (8) Source: Brevard Public Schools

Ratio used in the impact fee calculations, which is the adopted LOS standard

enrollment used for impact fee calculations (Item 7). For the elementary, middle, and high schools, the facility impact cost per student (Item 1) is multiplied by the final ratio of permanent capacity to

Total Cost per Student

In addition to the facility cost per student calculated in Table VI-4, the total facility cost per student includes two additional cost components: the capital costs associated with providing transportation services and ancillary facilities. Both of these cost components are calculated on a per-student basis and are not dependent on school type. Each of these additional cost components is discussed in further detail below.

Transportation Costs

The first additional capital cost component is the cost of providing transportation services to students. The District currently owns 496 buses used for student transportation at a value of approximately \$92,000 per bus, which reflects the estimates obtained from the Florida Department of Education. In addition to its bus fleet, the District has 506 support vehicles, which include vehicles such as cars, vans, and trucks. The current value of the support vehicles varies depending on the type of vehicle, with an average value of approximately \$21,000 per vehicle, based on the information provided by the District. The result is a total value of \$56.3 million for transportation services, including \$45.6 million for buses and \$10.7 million for support vehicles. The total value of the transportation fleet is divided by the District's enrollment for schools included in Appendix C, Table C-1 (presented in Table 1), as this is the total student population benefiting from services provided by the District's transportation fleet. The result is a cost of \$841 per student for transportation services, as presented in Table VI-5.

Ancillary Facilities Costs

The other additional capital cost component is for the ancillary facilities that are necessary for the District to provide support services for students, schools, transportation services, and administrative personnel. The District currently has approximately 687,000 FISH net square feet of permanent ancillary facilities for maintenance, warehouse, and administrative functions. Current costs for each existing ancillary facility depend on the type of facility and were provided by District staff, with the weighted average cost equaling \$125 per square foot. It should be noted that the cost estimates for ancillary facilities are consistent with costs of similar buildings observed in other jurisdictions throughout Florida.

The cost of land for ancillary facilities also is included in the ancillary facility values. The land value for ancillary facilities is estimated same as what was used for schools (\$50,000 per acre) since many of these facilities are on the same parcels as schools.

The ancillary facility cost per student is based on the existing inventory, which is valued at \$96.0 million, including \$85.9 million for buildings and \$10.2 million for land. Based on the current enrollment, the result is a cost of \$1,434 per student for ancillary facilities, as presented in Table VI-5.

Table VI-5
Transportation and
Ancillary Facility Cost per Student

Alichialy racinty cost per stadent	
Description	Figure
Transportation Services Cost per Student	State of the
Total Current Value of Transportation Services (1)	\$56,319,190
Current Enrollment ⁽²⁾	66,985
Total Transportation Services Cost per Student ⁽³⁾	\$841
Ancillary Facility Cost per Student	
Building Value for Ancillary Facilities (4)	\$85,894,125
Land Value for Ancillary Facilities ⁽⁵⁾	\$10,150,000
Total Current Value for Ancillary Facilities (6)	\$96,044,125
Total Ancillary Facility Cost per Student ⁽⁷⁾	\$1,434

- (1) Source: Brevard Public Schools
- (2) Source: Table VI-1
- (3) Total value of transportation services (Item 1) divided by the current enrollment (Item 2)
- (4) Source: Brevard Public Schools
- (5) Land value of acreage in addition to school acreage.
- (6) Sum of the building value (Item 4) and land value (Item 5) of the District's current inventory of ancillary facilities
- (7) Total value for ancillary facilities (Item 6) divided by the current enrollment (Item 2)

Credit Component

To ensure that new development is not being overcharged for construction of future student stations, any non-impact fee revenue that will be generated by new development and that will be used towards the capital expansion of school facilities must be included as a credit to reduce the total cost per student. It is important to note that a credit for school impact fees is not given for revenue generated by new development that is used for capital renovation of existing educational facilities or for maintenance or operational costs.

Based on a review of the District's capacity addition expenditures over the past five years and planned expenditures over the next five years, it has been determined that revenue credits will be calculated for cash expenditures as well as debt service funding.

Capital Improvement Credit

The Florida Statutes authorize several sources of revenue for school districts, such as Public Education Capital Outlay (PECO) and Capital Outlay & Debt Service (CO & DS) that can be used for the construction of capital facilities. With regard to state revenue, over the past five years, the District has used only Classroom for Kids revenue in 2009 for the construction. This was supplemented with a portion of the local capital ad valorem tax revenue, which was also used toward the same project. Since then, there were no capacity projects funded with cash and there are none programmed to be funded with cash in the District's Five-Year Plan. However, to provide the District with the flexibility to fund projects with cash in the future and to recognize the funding methods used in 2009, a capital improvement credit is calculated.

The capital improvement revenue credit per student is calculated by dividing the total amount of capital revenue by the average enrollment during this ten-year period. As presented in Table VI-6, the resulting capital improvement revenue available for the capital expansion of public schools in Brevard County \$11 per student per year or \$172 per student over the next 25 years, for non-impact fee cash funding.

Table VI-6 Revenue Credit per Student

THE CONTRACT OF COMMERCE	
Project	2009/10 thru 2018/19
1.5-Mil Local Capital Tax ⁽¹⁾ :	· 有物件。一种
Heritage High School	\$350,000
Subtotal -1.5-Mil Local	\$350,000
Classroom for Kids/Other ⁽¹⁾ :	
Heritage High School	\$7,062,431
Subtotal - Classroom for Kids/Other	\$7,062,431
Total Expenditures	\$7,412,431
Average Annual Expenditures ⁽²⁾	\$741,243
Average Enrollment ⁽³⁾	67,364
Revenue Credit per Student ⁽⁴⁾	\$11.00
Capitalization Rate ⁽⁵⁾	4.0%
Capitalization Period, Years (6)	25
Present Value of Capital Improvement Revenue Credit per S	Student ⁽⁷⁾ \$172

- (1) Source: Brevard Public Schools
- (2) Total expenditures divided by 10 to calculate the average annual expenditures.
- (3) Source: Table VI-1, average enrollment during the same time period
- (4) Average annual expenditures (Item 2) divided by the average enrollment (Item 3).
- (5) Interest rate the District is likely to pay for future bonds, provided by Brevard Public Schools
- (6) Time period after which major repairs are needed.
- (7) Present value of revenue credit per student (Item 4) at 4.0% interest rate (Item 5) over a 25-year capitalization period (Item 6).

Debt Service Credit per Student

The District has been using COPs and other types of bonds to pay for a portion of the capacity expansion projects. Given that there is still an outstanding debt service on COPs, a credit is calculated for future debt service payments related to capacity expansion projects. The District uses primarily local capital outlay millage and impact fee revenues to pay the debt service.

A revenue credit is calculated for the remaining portion of each outstanding COP/bond issue used to fund capacity expansion projects that will be paid back with non-impact fee revenue sources. The remaining payments were brought back to present value, based on the remaining number of years and average annual interest rate.

As presented in Table VI-7, the debt service credit is \$1,281 per student. Of this amount, 82 percent is funded with local capital millage.

Table VI-7
Debt Service Credit per Student

_	CDC GC: VICE	o. o po. o			
Description	Number of Years of Remaining Payments ⁽¹⁾	Remaining Payments Due for Expansion ⁽²⁾	Present Value of Total Remaining Payments ⁽³⁾	Average Annual Enrollment ⁽⁴⁾	Debt Service Credit per Student ⁽⁵⁾
Certificates of Participation	STORY LESS				
Multiple COPS Issues ⁽⁶⁾	22	\$134,168,538	\$86,137,440	67,254	\$1,281
Portion Funded with Ad Valorem ⁽⁷⁾				82%	\$1,050
Portion Funded with Other Revenue Source	ces ⁽⁸⁾				\$231

- (1), (2) Source: Brevard Public Schools
- (3) Present value of the total remaining payments due, based on the average annual interest rate and the number of years of remaining payments.
- (4) Source: Table VI-1, enrollment estimates for years 2020 through 2036 are based on growth rate projections obtained from the Florida Department of Education for Brevard County.
- (5) Present value of total remaining payments (Item 3) divided by the average annual enrollment over the life of the remaining payments (Item 4).
- (6) Includes COP series 2004B, 2006A, 2007A, 2007B, 2007C, 2008A, 2013A, and 2013B
- (7) Source: Brevard Public Schools
- (8) Total debt service credit per student (\$1,281) less portion funded with ad valorem tax revenue (Item 7) (\$1,050)

Once the debt service credit per student is calculated, separate credit figures are calculated for each land use. For each land use category, the portion of the debt service credit per student funded with ad valorem revenues is adjusted to account for the fact that new homes tend to pay higher taxes per dwelling unit. This adjustment factor was estimated based on a comparison of the average taxable value of homes built over the past five years to that of all homes.

As presented in Table VI-8, the debt service credit ranges by land use category from \$1,764 per student for multi-family homes to \$2,415 per student for the single family land use.

Table VI-8
Adjusted Debt Service Credit per Student

	Ad Valorem	Credit	Adjusted	Total Credit
Land Use	Funded	Adjustment	Credit per	per
	Portion ⁽¹⁾	Factor ⁽²⁾	Student ⁽³⁾	Student ⁽⁴⁾
Land Use				
Single Family Detached	\$1,050	2.08	\$2,184	\$2,415
				\$1,764
Multi-family/Condo/Townhouse	\$1,050	1.46	\$1,533	\$1,764
Mobile Homes	\$1,050	1.70	\$1,785	\$2,016

- (1) Source: Table VI-7
- (2) Source: Brevard County Property Appraiser database
- (3) Ad Valorem funded portion (Item 1) multiplied by credit adjustment (Item 2)
- (4) Sum of adjusted credit per student (Item 3) and credit per student for the portion funded with other revenue sources (Item 8) from Table 7

Net Impact Cost per Student

The net impact fee per student is the difference between the cost component and the credit component. Table VI-9 summarizes the three-step process used to calculate the net impact cost per student for public schools in Brevard County by residential land use for each fee schedule option.

First, the total impact cost per student is determined, which does not vary by land use. This is the sum of the weighted average facility impact cost per student from Table VI-4 and the transportation and ancillary facility cost components per student from Table VI-5. As previously mentioned, the transportation and ancillary cost components are calculated on a per-student basis and do not differ by type of school or by type of residential land use.

Second, for each land use, the total revenue credit is calculated, which is shown in Tables VI-6 and VI-8.

Third, the net impact cost per student is determined, which is the difference between the total impact cost per student and total revenue credit per student.

Table VI-9
Net Impact Cost per Student

Net impact cost per stat						
Total Impact Cost	Per Student					
Facility Impact Cost ⁽¹⁾	\$33,407					
Transportation Impact Cost ⁽²⁾	\$841					
Ancillary Facility Cost ⁽³⁾	<u>\$1,434</u>					
Total Impact Cost per Student ⁽⁴⁾	\$35,682					
Revenue Credit	Per Student					
Capital Improvement Credit ⁽⁵⁾	\$172					
Debt Service Credit ^{(6):}						
- Single Family Detached	\$2,415					
- Multi Family/Condo/Townhouse	\$1,764					
- Mobile Home	\$2,006					
Net Impact Cost	Per Student					
Net Impact Cost per Student ^{(7):}						
- Single Family Detached	\$33,095					
- Multi Family/Condo/Townhouse	\$33,746					
- Mobile Home	\$33,504					

- (1) Source: Table VI-4 (2) Source: Table VI-5
- (3) Source: Table VI-5
- (4) Sum of the total facility impact cost per student (Item 1), transportation service cost per student (Item 2), and the ancillary facility cost per student (Item 3)
- (5) Source: Table VI-6
- (6) Source: Table VI-8
- (7) The net impact cost per student is the total impact cost per student (Item 4) less the capital improvement credit (Item 5) and the debt service credit (Item 6)

Student Generation Rates

The number of students living in a household typically varies depending on the type of residential housing. Therefore, school impact fees are typically assessed based on the specific student generation rates for different types of residential land uses. Brevard County's current school impact fee schedule includes three land uses: single family detached, single family attached/multi-family, and mobile homes.

Brevard County's current school impact fee developed the student generation rates using Public Use Microdata Sample (PUMS) and Census 2000 data. This impact fee study employs a new methodology using Geographic Information Systems (GIS) to develop the student generation rate for Brevard County. Specifically, GIS was used to link student addresses to parcels in the Brevard County Property Appraiser's database in order to generate the number of students per unit by school type and land use based on the latest tax roll. This process is described in more detail below.

DETERMINATION OF TOTAL HOUSING UNITS BY TYPE OF LAND USE

Depending on the purpose, there are multiple ways a dwelling unit can be classified in terms of the type of residential land use. For the purposes of this analysis, the number of building units for each land use obtained from the Brevard County Property Appraiser's database was supplemented by additional analysis and counts provided by the Property Appraiser's Office to ensure all relevant units were included.

DETERMINATION OF STUDENTS BY SCHOOL TYPE AND LAND USE

The determination of the number of students per land use by type of school (e.g., elementary, middle, and high school) was completed using the following process.

First, Brevard Public Schools provided a GIS shapefile containing geocoded student addresses. Then, the student addresses were linked to its respective parcel in the Property Appraiser database using address point data.

The student generation rates used as the demand component for the impact fee only includes those students for which the impact fee is based, or students attending those schools listed in Appendix C, Table C-1. Therefore, the school code associated with each

student record was used to exclude students attending schools or other facilities not included in the impact fee inventory, such as charter schools, private schools, etc. In addition, the grade level field for each student record was used to calculate the student generation rates by school type (e.g., elementary, middle, high).

As previously mentioned, once the GIS shapefile with the geocoded student addresses was provided, the second step in the analysis was to link each student address to data from the parcel database. This allows for determining which type of land use is assigned to a given parcel (or address) where a student lives. This was accomplished by spatially joining the student address to the respective parcel in the database using GIS. Based on this analysis, over 98 percent of the student addresses were able to be matched to the properties in the Brevard County Property Appraiser's database and 96 percent were linked to a residential land use. The Parcel ID's associated with the remaining student addresses were either not found or suggested a non-residential land use. The result of this analysis is presented in Table VI-10.

Table VI-10
Student Generation Rates

Student Ge	neration nati		
Residential Land Use	Total Housing Units ⁽¹⁾	Number of Students ⁽²⁾	Students per Unit ⁽³⁾
Traditional Schools			
Single Family Detached	170,227	52,499	0.308
Multi-Family/Condo/Townhouse	79,055	9,114	0.115
Mobile Home	30,775	2,302	0.075
Total/Weighted Average	280,057	63,915	0.228

- (1) Source: Brevard County Property Appraiser
- (2) Source: Brevard Public Schools and Brevard County Property Appraiser
- (3) Number of students (Item 2) divided by the number of units (Item 1) for each residential land use type.

Calculated School Impact Fee Schedule

To determine the calculated school impact fee for each residential land use under each fee schedule scenario, the net impact cost per student is multiplied by the student generation rate. The resulting calculated impact fees are presented in Table VI-11. The change in impact fees is due primarily an increase in costs and a reduction in credit. In addition, changes in the student generation rates results in fluctuations in the calculated impact fee.

Table VI-11
Calculated School Impact Fee Schedule

	ICUIU	ca sciloti i	inpact i cc o	Director		
Land Use	Unit	Students per Unit ⁽¹⁾	Net Impact Cost per Student ⁽²⁾	Total Impact Fee ⁽³⁾	Current Adopted Fee ⁽⁴⁾	Percent Change ⁽⁵⁾
Residential:			The miles was	#159 m 15 #	W. Tuelo	
Single Family Detached	du	0.308	\$33,095	\$10,193	\$4,445	129%
Multi-Family/Condo/Townhouse	du	0.115	\$33,746	\$3,881	\$2,794	39%
Mobile Home	du	0.075	\$33,504	\$2,513	\$2 <i>,</i> 667	-6%

(1) Source: Table VI-10(2) Source: Table VI-9

(3) Students per unit (Item 1) multiplied by the net impact cost per student (Item 2).

(4) Source: Brevard County

(5) Percent change from the current adopted fee (Item 4) to the total impact fee (Item 3).

School Impact Fee Schedule Comparison

As part of the work effort in updating Brevard County's school impact fee program, a comparison of the calculated single family school impact fees for Brevard County is made to the single family school impact fees adopted by other counties throughout Florida has been prepared. Table VI-12 presents this comparison. For those where the information was available, the percentage that the impact fee was adopted at is shown.

Table VI-12
School Impact Fee Schedule Comparison

School IIII	Jace I CC JC	leddie Com		
County ⁽¹⁾	Date of Last Update	Adoption Percentage	Adopted Single Family Impact Fee ⁽²⁾	Single Family Impact Fee @100% ⁽³⁾
Palm Beach County	2012	95%	\$1,866	\$1,964
Citrus County	2010	50%	\$1,936	\$3,871
Sarasota County*	2004	100%	\$2,032	\$2,032
Lake County	2011	25%	\$2,573	\$10,292
Volusia County	2013	67%	\$3,000	\$4,483
Flagler County	2004	76%	\$3,600	\$4,756
Marion County*	2006	54%	\$3,967	\$7,375
Hillsborough County	2006	100%	\$4,000	\$4,000
Polk County	2010	44%	\$4,160	\$9,456
Brevard County Current Adopted	2004	100%	\$4,445	\$4,445
Pasco County	2005	100%	\$4,876	\$4,313
Seminole County	2007	99%	\$5,000	\$5,068
Collier County	2011	50%	\$5,378	\$10,755
Martin County	2006	100%	\$5,567	\$4,555
Highlands County*	2006	100%	\$5,801	\$5,801
St. Johns County	2011	100%	\$6,072	\$6,072
St. Lucie County	2009	100%	\$6,188	\$5,447
Manatee County*	2004	100%	\$6,350	\$5,886
Orange County	2007	55%	\$6,525	\$11,829
Clay County	2009	77%	\$7,034	\$9,096
Hernando County*	2013	100%	\$7,103	\$7,103
Broward County	2007	80%	\$7,804	\$9,755
Osceola County	2010	90%	\$8,742	\$9,669
Brevard County Calculated	2014	100%	N/A	\$10,193

^{*} County fees are currently suspended

⁽¹⁾ Represents percent assessed compared to the full calculated fee. The difference indicates adjustments due to policy decisions or indexing.

⁽²⁾ Source: County Impact Fee Schedules. Fees presented are for a 3-bedroom or a 2,000-square foot single family home.

⁽³⁾ Represents maximum calculated rate at the time of technical study.

VII. Transportation

This section of the impact fee report provides the results of the transportation impact fee analysis and consists of the following sub-sections:

- Demand Component
- Cost Component
- Credit Component
- Calculated Transportation Impact Fee Schedule
- Transportation Impact Fee Schedule Comparison
- Transportation Benefit Districts Analysis

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

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

[Demand x Cost] - Credit = Fee

The demand for travel placed on the transportation system is expressed in units of VMT (daily vehicle-trip generation rate times the trip length times the percent new trips [of total trips]) for each residential and non-residential land use contained in the impact fee schedule. The trip generation is expressed in average daily rates since new development consumes trips on a daily basis. The demand component is based on trip characteristics studies conducted at different land uses, measuring the impact of each land use on roadway capacity.

The cost of building new capacity is typically expressed in units of dollars per vehicle mile or lane mile of roadway capacity. The credit is an estimate of the current value of future non-impact fee revenues generated by new development that are allocated to transportation capacity expansion construction projects. Thus, the impact fee is an "up front" payment for a portion of the cost of building a lane mile of capacity 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 new development.

It should be noted that the information used to develop the impact fee schedule was based on the most recent, reliable, and localized data available. The following input variables were used in the fee equation:

Demand Variables:

- Trip generation rate
- Trip length
- Percent new trips
- Interstate and toll facility discount factor

Cost Variables:

- Cost per lane mile
- Capacity added per lane mile

Credit Variables:

- Equivalent gas tax credit (pennies)
- Present worth
- Fuel efficiency
- Effective days per year

A review of impact fee variables and corresponding recommendations are presented in the following subsections.

Demand Component

Travel Demand

The amount of transportation system consumed by a unit of new land development is calculated using the following variables and is measured in terms of the vehicle miles of new travel a unit of development consumes on the existing road system.

- Number of daily trips generated;
- · Average length of those trips; and
- Proportion of travel that is new travel, rather than travel that is already traveling on the road system and is captured by new development.

As part of this update, the trip characteristics variables were obtained primarily from two sources: (1) trip characteristics studies previously conducted throughout Florida by Tindale Oliver (Florida Studies Database), and (2) the Institute of Transportation Engineers' (ITE) *Trip Generation* report (9th edition).

The Florida Studies Database is included in Appendix D. This database was used to determine VMT, which is developed from trip length, percent new trips, and trip rate for most land uses in the fee schedule. The data in the trip characteristics database is based on actual land use studies and was collected throughout Florida using machine traffic counts and site specific land use origin-destination surveys. In addition, trip generation data from the ITE 9th Edition Trip Generation report was used. In instances where trip generation was available from the ITE Trip Generation report and the Florida Studies Database, a blended average calculation was used to increase the sample size.

Interstate & Toll Facility Discount Factor

This variable is used to recognize that improvements to Interstate highways are funded by the State using earmarked and Federal funds, while toll facility improvements are funded with toll revenues. Typically, impact fees are not used to pay for these improvements, and the portion of new development's travel occurring on the interstate/toll facility system usually is eliminated from the total travel for each land use.

To calculate the interstate and toll (I/T) facility discount factor, the loaded highway network file was generated for the Central Florida Regional Planning Model v5.01 (CFRPMv51). A select link analysis was run for all traffic analysis zones located within Brevard County in

order to differentiate trips with an origin and/or destination within the county versus trips with no origin or destination within the county.

Currently, the only interstate/toll facility in Brevard County is Interstate 95. The limited access vehicle-miles of travel (Limited Access VMT) for trips with an origin and/or destination within Brevard County was calculated for Interstate 95. The total Brevard County VMT was calculated for all trips with an origin and/or destination within Brevard County for all roads, including limited access roads, located within Brevard County.

The I/T discount factor of 17.3 percent was determined by dividing the total Limited Access VMT by the total Brevard County VMT. By applying this factor, the total VMT for each land use is reduced. This adjusted VMT is representative of travel on the roadways that are eligible to be funded with impact fee revenues. Appendix D, Table D-1 provides further detail on this calculation.

Trip Length Adjustment Factor

This variable is used to adjust the average trip length obtained from the Florida Studies Database when the trip lengths in a jurisdiction appear significantly different than the average trip length observed in other jurisdiction. Using the Central Florida Regional Planning Model, the average trip lengths for Brevard County were compared to other jurisdictions throughout Florida and it was determined that Brevard County trip lengths are above average. The long shape of the County is believed to be a major contributing factor to this variation. However, new growth in Brevard County is expected to develop in a more concentrated manner and in more efficient develop patterns and are unlikely to travel from one end of the county to the other. For this reason, the average trip length from the Florida database is used for impact fee calculations.

Cost Component

Construction costs increased significantly in Florida between 2005 and 2007 due to additional construction demand caused by hurricanes, the housing market growth, and other factors. Appreciation in land values also resulted in higher right-of-way (ROW) costs during the same period. In early 2008, costs started to stabilize, and between 2008 and 2011, communities have experienced a decrease in construction costs, returning to levels seen before 2005. In 2013/2014, roadway costs started to increase again. Cost information from Brevard County, other Florida Counties, and the Florida Department of Transportation

(FDOT) was reviewed to develop a unit cost for all phases involved in the construction of one lane-mile of roadway capacity. The findings were also discussed with the County staff to obtain additional input. The following subsections summarize the methodology and findings of the total unit cost analysis for county and state roads. Appendix E provides the data and other support information utilized in these analyses.

County Roadway Costs

This section examines the right-of-way (ROW), construction, and other cost components associated with county roads with respect to transportation capacity improvements in Brevard County. For this purpose, recent bid data for ongoing projects provided by the County and recent construction bid data from county roadway projects throughout Florida were used to identify and provide supporting cost data for county improvements. The cost for each roadway capacity project was separated into four phases: design, construction/engineering inspection (CEI), ROW and construction.

Design and CEI

Design costs for county roads were estimated at 12 percent of construction phase costs based on a review of recent local improvements and cost data collected throughout Florida. Additional detail is provided in Appendix E, Tables E-10 and E-11.

CEI costs for county roads were estimated at 17 percent of construction phase costs based on a discussion with County staff. This percentage represents local conditions and is higher than the figures that have been seen in recent impact fee studies for other jurisdictions in Florida, which ranges from four (4) percent to 14 percent. Additional detail is provided in Appendix E, Table E-16.

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. A review of recent ROW cost data for Brevard County identified two recent improvements with acquisition data. Using the construction costs for these improvements, a ROW-to-construction factor was calculated for each improvement, ranging from 32 to 39 percent, with a weighted average of approximately 35 percent. This calculated local factor was slightly lower than county road ROW factors observed in recent impact fee studies throughout Florida, but reflects the local costs and was used as the basis for ROW costs in Brevard County. As seen in Table VII-1, this amount is equal to

approximately \$0.71 million per lane mile for county roads. Additional detail is provided in Appendix E, Table E-12.

Construction

The construction cost for county roads was based on a review of local and statewide projects. A review of recent construction cost data for Brevard County identified three recent capacity expansion improvements (along Pineda Causeway, Babcock Street, and the St. Johns Heritage Parkway) averaging \$2.28 million per lane mile. To increase the sample size of projects, recent bids from multiple communities throughout the state were also reviewed. This review included approximately 400 lane miles of urban design roadway improvements from 16 counties and calculated an average cost of \$2.10 million per lane mile. Appendix E, Table E-14 provides a detailed description of the projects reviewed.

Based on this review, a county roadway cost of \$2.11 million was used in the transportation impact fee calculation for county roads with urban design characteristics. To determine the cost per lane mile for county roads with rural design characteristics, the relationship between urban and rural roadway costs from the FDOT District 7 Long Range Estimates (LRE)¹ was reviewed. Based on these cost estimates, the costs for roadways with rural design characteristics were estimated at approximately 81 percent of the costs for roadways with urban design characteristics. Additional detail is provided in Appendix B, Table E-1.

To determine the weighted average cost for county roadways, the costs for urban design and rural design roadways were weighted based on the distribution of urban design and rural design roadways included in the County's 2035 Long Range Transportation Plan's Cost Feasible Plan (Appendix E, Table E-17). As show in Table VII-1, the weighted average county roadway construction cost was calculated at approximately \$2.02 million per lane mile.

¹ This data was not available for FDOT District 5; http://www.dot.state.fl.us/planning/policy/costs/

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

Francisco de la constante de l	C	ost per Lane Mile	
Cost Phase	Urban Design	Rural Design	Weighted Average ⁽⁶⁾
Design ⁽¹⁾	\$253,000	\$205,000	\$242,000
Right-of-Way ⁽²⁾	\$739,000	\$599,000	\$708,000
Construction ⁽³⁾	\$2,112,000	\$1,711,000	\$2,023,000
CEI ⁽⁴⁾	<u>\$359,000</u>	<u>\$291,000</u>	<u>\$344,000</u>
Total Cost	\$3,463,000	\$2,806,000	\$3,317,000
Lane Mile Distribution (5)	78%	22%	100%

- (1) Source: Appendix E, Table E-2
- (2) Source: Appendix E, Table E-4
- (3) Source: Appendix E, Table E-6
- (4) Source: Appendix E, Table E-8
- (5) Source: Appendix E, Table E-17, Items (c) and (d)
- (6) Lane mile distribution (Item 5) multiplied by the design, ROW, construction, and CEI phase costs by section design to develop a weighted average cost per lane mile
- All figures rounded to nearest \$1,000

State Roadway Costs

This section examines the ROW, construction, and other cost components associated with state roads with respect to transportation capacity improvements in Brevard County. For this purpose, recent bid data from state roadway projects throughout Florida and the FDOT's Long Range Estimates (LRE) were used to identify and provide supporting cost data for state improvements. The cost for each roadway capacity project was separated into four phases: design, CEI, ROW and construction.

Design and CEI

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

CEI costs for state roads were also estimated at 11 percent of construction phase costs based on a review of cost data collected for recent transportation impact fee studies throughout Florida. Additional detail is provided in Appendix E, Table E-16.

Right-of-Way

Given the limited data on ROW costs for state roads in Brevard County and based on experience in other jurisdictions, the ROW cost ratio calculation for county roads was also applied to state roads. Using this ROW-to-construction ratio of 35 percent, the ROW cost for state roads with urban design characteristics is approximately \$1.05 million per lane mile.

Construction

A review of recent state road capacity improvements in Brevard County identified two improvements (along SR 5 and SR 507), averaging approximately \$3.93 million per lane mile for construction. To increase the sample size of projects, recent bids from multiple communities throughout the state were also reviewed. This review included approximately 318 lane miles of urban design roadway improvements from 30 counties and calculated an average cost of \$2.68 million per lane mile. Appendix E, Table E-15 provides a detailed description of the projects reviewed.

Based on this review, a state roadway cost of \$3.0 million was used in the transportation impact fee calculation for state roads with urban design characteristics. While higher than the state average, this estimate reflects the local characteristics which indicate higher state roadway costs in District 5 and in Brevard County, specifically.

To determine the cost per lane mile for state roads with rural design characteristics, the relationship between urban and rural roadway costs from the FDOT District 7 LRE was reviewed. Based on these cost estimates, the costs for roadways with rural design characteristics were estimated at approximately 81 percent of the costs for roadways with urban design characteristics. Additional detail is provided in Appendix E, Table E-1.

To determine the weighted average cost for state roadways, the costs for urban design and rural design roadways were weighted based on the distribution of urban design and rural design roadways included in the County's 2035 Long Range Transportation Plan's Cost Feasible Plan (Appendix E, Table E-17). As show in Table VII-2, the weighted average state roadway construction cost was calculated at approximately \$2.86 million per lane mile.

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

The state of the s	C	ost per Lane Mile	
Cost Phase	Urban Design	Rural Design	Weighted Average ⁽⁶⁾
Design ⁽¹⁾	\$330,000	\$267,000	\$316,000
Right-of-Way ⁽²⁾	\$1,050,000	\$851,000	\$1,006,000
Construction ⁽³⁾	\$3,000,000	\$2,430,000	\$2,875,000
CEI ⁽⁴⁾	\$330,000	\$267,000	<u>\$316,000</u>
Total Cost	\$4,710,000	\$3,815,000	\$4,513,000
Lane Mile Distribution (5)	78%	22%	100%

- (1) Source: Appendix E, Table E-3
- (2) Source: Appendix E, Table E-5
- (3) Source: Appendix E, Table E-7
- (4) Source: Appendix E, Table E-9
- (5) Source: Appendix E, Table E-17, Items (c) and (d)
- (6) Lane mile distribution (Item 5) multiplied by the design, ROW, construction, and CEI phase costs by section design to develop a weighted average cost per lane mile
- All figures rounded to nearest \$1,000

Summary of Costs (Blended Cost Analysis)

The weighted average cost per lane mile for county and state roads is presented in Table VII-3. The resulting weighted average cost of approximately \$3.74 million per lane mile was utilized as the roadway cost input in the calculation of the transportation impact fee schedule. The weighted average cost per lane mile includes county and state roads and is based on weighting the lane miles of roadway improvements in the Long Range Transportation Plan's (LRTP) Cost Feasible Plan.

Table VII-3
Estimated Cost per Lane Mile
for County and State Roadway Projects in Brevard County

Cost Type	County Roads ⁽¹⁾	State Roads ⁽²⁾	County and State Roads ⁽³⁾
Design	\$242,000	\$316,000	\$268,000
Right-of-Way	\$708,000	\$1,006,000	\$812,000
Construction	\$2,023,000	\$2,875,000	\$2,321,000
CEI	\$344,000	<u>\$316,000</u>	<u>\$334,000</u>
Total	\$3,317,000	\$4,513,000	\$3,735,000
Lane Mile Distribution (4)	65%	35%	100%

- (1) Source: Table VII-1(2) Source: Table VII-2
- (3) Lane mile distribution (Item 4) multiplied by the design, ROW, construction, and CEI phase costs by jurisdiction to develop a weighted average cost per lane mile
- (4) Source: Appendix E, Table E-17, Items (a) and (b)
- All figures rounded to nearest \$1,000

Capacity Added per Lane Mile

An additional component of the transportation impact fee equation is the capacity added per lane mile (also known as the maximum service volume added per mile) of roadway constructed. To calculate the vehicle miles of capacity (VMC) per lane mile of constructed future roadway, an analysis of the 2035 LRTP cost feasible projects (see Appendix E, Table E-17) was conducted, as well as discussions with staff, to reflect the mix of county and state road improvement that will be built in the future. As shown in Table VII-4, the resulting average capacity per lane mile calculated based on these projects is 9,722.

Table VII-4
Weighted Average Vehicle-Miles of Capacity per Lane Mile

Source	Lane Mile Added ⁽¹⁾	Vehicle Miles of Capacity Added ⁽²⁾	VMC Added per Lane Mile ⁽³⁾
County Roads	85.73	812,992	9,483
State Roads	<u>47.04</u>	<u>477,768</u>	10,157
Total	132.77	1,290,760	
Weighted Average VMC	Added per Lane M	lile ⁽⁴⁾	9,722

- (1) Source: Appendix E, Table E-17
- (2) Source: Appendix E, Table E-17
- (3) Vehicle miles of capacity added (Item 2) divided by lane miles added (Item 1)
- (4) Total vehicle miles of capacity added for county and state roads (Item 2) divided by the total lane miles added (Item 1)

Cost per Vehicle-Mile of Capacity Added

The impact fee cost per unit of development is assessed based on the cost per vehicle-mile of capacity. As shown in Tables VII-3 and VII-4, the cost and capacity for county roads have been calculated based on typical roadway improvements. As shown in Table VII-5, the cost per VMC for travel within Brevard County is approximately \$384. This average cost per VMC figure is used in the impact fee calculation to determine the total impact cost per unit of development based on the vehicle-miles of travel consumed. For each vehicle-mile of travel that is added to the road system, approximately \$384 of roadway capacity is consumed.

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

Source	Cost per Lane Mile ⁽¹⁾	Average VMC Added per Lane Mile ⁽²⁾	Cost per VMC ⁽³⁾
County Roads	\$3,317,000	9,483	\$349.78
State Roads	\$4,513,000	10,157	\$444.32
Weighted Average	\$3,735,000	9,722	\$384.18

(1) Source: Table VII-3(2) Source: Table VII-4

(3) Cost per lane mile (Item 1) divided by average capacity added per lane mile (Item 2)

It is important to note that capacity projects eligible for impact fee funding include not only new construction and lane additions, but also associated intersection improvements, traffic signalization, and other amenities and technology improvements that allow for additional vehicle capacity.

Credit Component

Gasoline Tax Equivalent Credit

The present value of the portion of future non-impact fee revenues (converted to equivalent gasoline taxes) generated by a new development over a 25-year period that is projected to be expended on capacity expansion projects is credited against the cost of the system consumed by travel associated with new development.

County

A review of the County's historical roadway financing program and the FY 2014-2018 Capital Improvement Plan (CIP) shows that roadway projects are primarily being funded by a

combination of transportation impact fees, fuel tax bonds, fuel taxes, and grants. As shown in Table VII-6, a total gas tax equivalent revenue credit of 1.5 pennies was calculated for gas tax equivalent expenditures on roadway capacity expansion projects.

In addition, Brevard County is currently using gas tax revenues to retire debt on the Series 2007 and Series 2014 local option fuel tax revenue bonds, for which a large portion of the bonds contributed to roadway capacity expansion improvements. As show in Table VII-6, a gas tax equivalent revenue credit of 1.8 pennies was calculated for county debt service expenditures.

State

State expenditures on state roads were reviewed, and a credit for the capacity expansion portion attributable to state projects was estimated. The equivalent number of pennies allocated to fund state projects was determined from projects spanning an 18-year period (FY 2003 to FY 2020). This period represents past expenditures (from FY 2003 to FY 2014) and projected expenditures (from FY 2015 to 2020) from the FDOT Work Programs. A list of capacity-adding roadway projects was developed, including lane additions, new road construction, intersection improvements, interchanges, traffic signal projects, and other capacity-addition projects. This review (summarized in Appendix F, Table F-4) indicates that FDOT spending generates an equivalent gas tax credit of 6.8 pennies of gas tax revenue annually.

In summary, Brevard County contributes approximately 3.3 pennies toward roadway capacity expansion projects, while the State spends an average of 6.8 pennies for state roadway projects in Brevard County. Therefore, a total of 10.1 pennies of revenue credit are included in the impact fee calculation to recognize the future capital revenue that is expected to be generated by new development from all non-impact fee revenues, as shown in Table VII-6.

Table VII-6
Equivalent Pennies of Gas Tax Revenue

Credit	Equivalent Pennies per Gallon
County Revenues ⁽¹⁾	\$0.015
County Debt Service ⁽²⁾	\$0.018
State Revenues ⁽³⁾	\$0.068
Total	\$0.101

Source: Appendix F, Table F-2
 Source: Appendix F, Table F-3
 Source: Appendix F, Table F-4

Present Worth Variables

Facility Life

The roadway 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 transportation impact fee calculation based on recent bonding rates observed in Brevard 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 by travel associated with a particular land use.

Appendix F, Table F-9 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.

$$Fuel \textit{Efficiency} = \sum VMT_{RoadwayType} \div \sum \left(\frac{VMT_{VehicleType}}{MPG_{VehicleType}}\right)_{RoadwayType}$$

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 2012*. Based on the calculation completed in Appendix F, Table F-9, the fuel efficiency rate to be used in the updated impact fee equation is 18.43 miles per gallon.

Effective Days per Year

An effective 365 days per year of operation was assumed 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 gasoline taxes are adequately credited against the fee.

Calculated Transportation Impact Fee Schedule

The impact fee calculations for each land use are included in Appendix G, 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 G illustrates the following:

- Demand component variables (trip rate, trip length, and percent of new trips);
- Total impact fee cost;
- Annual gas tax credit;
- Present value of the gas tax credit;
- Net transportation impact fee;
- Current Brevard County impact fee; and
- Percent difference between the calculated impact fee and the 2000 adopted impact fee.

It should be noted that the net impact fee illustrated in Appendix G is not necessarily a recommended fee, but instead represents the technically defensible impact fee per unit of land use that could be charged in Brevard County.

For clarification purposes, the calculation of an impact fee for one land use category is presented. In the following example, the net impact fee is calculated for the single-family residential detached land use category (ITE LUC 210) using information from the impact fee schedule included in Appendix G, Table G-1. For each land use category, the following equations are utilized to calculate the net impact fee:

Net Impact Fee = Total Impact Cost - Gas Tax Credit

Where:

Total Impact Cost = ([Trip Rate \times Assessable Trip Length \times % New Trips] / 2) \times (1 – Interstate & Toll Facility Disc. Factor) \times (Cost per Vehicle-Mile of Capacity)

Gas Tax Credit = Present Value (Annual Gas Tax), given 3.0% interest rate & 25-year facility life

Annual Gas/Sales Tax = ([Trip Rate \times Total Trip Length \times % New Trips] / 2) \times (Effective Days per Year \times \$/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 residential land use category:

- Trip Rate = the average daily trip generation rate, in vehicle-trips/day (7.81).
- Assessable Trip Length = the actual average trip length 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 Discount Factor = discount factor to account for the travel demand occurring on interstate highways and/or toll facilities (17.3%).
- Cost per Lane Mile = unit cost to construct one lane mile of roadway, in \$/lane-mile (\$3,735,000).
- Average Capacity Added per Lane Mile = represents the average daily traffic on one travel lane at capacity for one lane mile of roadway, in vehicles/lane-mile/day (9,722).
- Cost per Vehicle-Mile of Capacity = unit of vehicle-miles of capacity consumed per unit of development. Cost per lane mile divided by average capacity added per lane mile (\$3,735,000 / 9,722 = \$384.18).
- 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 3.0% 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 gas tax revenue per gallon of fuel that is used for capital improvements, in \$/gallon (\$0.101).
- Fuel Efficiency = average fuel efficiency of vehicles, in vehicle-miles/gallon (18.43).

Transportation Impact Fee Calculation

Using these inputs, a net impact fee can be calculated for the single-family residential detached land use category as follows:

```
Total Impact Cost = ([7.81 * 6.62 * 1.0] / 2) * (1 - 0.173) * ($3,735,000/9,722) = $8,213

Annual Credit for Gas Tax and Other Sources = ([7.81 * 7.12 * 1.0] / 2) * 365 * ($0.101 / 18.43) = $56

Gas Tax Credit = $56 * 17.4131 = $975

Net Impact Fee = $8,213 - $975 = $7,238
```

Transportation Impact Fee Comparison

A comparison of calculated fee schedule to the current adopted fee by land use is presented in Table VII-7. The detailed fee schedule that includes the calculations shown above for all land uses is presented in Appendix G, Table G-1. The change in fees is primarily due to an increase in costs since the last study.

Prior to the transportation impact fee moratorium, Brevard County exempted industrial land uses. This study calculated a fee for these land uses in case this exemption is discontinued after the moratorium.

Tindale Oliver March 2015

Table VII-7

Transportation Impact Fee Comparison

				1101	Thousand !!	introportation impact oc companion	·portage:						
	. (2)	Brevard County	ounty	Volusia	Seminole	Indian River	Orange	Okeechobee	St. Lucie	Polk	Pasco	Lee	Collier
Land Use	Unit	Calculated ⁽³⁾	Existing ⁽⁴⁾	County ⁽⁵⁾	County ⁽⁶⁾	County ⁽⁷⁾	County ⁽⁶⁾	County ⁽⁹⁾	County	County ⁽¹¹⁾	County ⁽¹²⁾	County ⁽¹³⁾	County(14)
Date of Last Update		2014	2000	2003	1995	2014	2012	2012	2009	2009	2011	2011	2010
Assessed Portion of Calculated ⁽¹⁾		100%	100%	82%	100%	100%/45%	42%	100%	100%	100%	100%	20%	94%
Residential:			100000000000000000000000000000000000000						STORES OF		0.0000000	E.O. PASSA	
Single Family Detached (2,000 sq ft)	du	\$7,238	\$4,353	\$2,174	\$1,025	\$4,248	\$2,873	\$963	\$4,303	\$4,895	\$8,068	\$1,340	\$5,753
Non-Residential:			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								20 ST ST		
Light Industrial	1,000 sf	\$4,619	n/a	\$1,220	\$762	\$1,206	\$1,594	\$473	\$396	\$675	\$1,000	\$925	\$4,333
Office (50,000 sq ft)	1,000 sf	\$10,256	\$5,058	\$2,310	\$2,247	\$1,916	\$4,105	\$1,091	\$1,307	\$5,310	\$1,174	\$1,071	\$9,291
Retail (125,000 sq ft)	1,000 sf	\$11,416	\$5,270	\$3,080	\$2,741	\$2,862	\$4,022	\$1,194	\$2,543	\$6,754	\$7,168	\$1,587	\$10,247
Bank w/Drive-In	1,000 sf	\$24,865	\$23,331	\$10,960	\$8,372	\$6,219	\$8,466	\$1,194	\$2,511	\$14,377	\$14,232	\$3,437	\$21,954
Fast Food w/Drive-Thru	1,000 sf	\$83,355	\$35,791	\$23,010	\$13,710	\$20,459	\$28,227	\$2,829	\$2,511	\$65,096	\$46,213	\$6,406	\$74,793
(1) Represents the portion of the maximum calculated fee for each respective county that is actually charged. Fees may have been lowered/increased through annual indexing or policy discounts. Does not account for moratoriums/suspensions	um calculate	d fee for each respo	ctive county that	t is actually charg	ged. Fees may h	ave been lowere	d/increased thro	ugh annual inde	xing or policy dis	counts. Does no	t account for me	oratoriums/suspe	nsions

du = dwelling unit

Source: Appendix G, Table G-1

(2) (3) (3) (5) (5) (6) (6) (7) (7) (10) (10) (11) (11) (12) (13) Source: Brevard County Planning & Development Department, Moratorium in effect through December 31, 2016.
Source: Volusia County Growth & Management Department. Fees reflect indexing applied since adoption.
Source: Seminole County Development Services Department. Fees shown are an average of the four transportation districts.

Source: Indian River County Planning Division. Residential fees were adopted at 100% and non-residential fees were adopted at 45% of the full calculated impact fee rates, Source: Orange County Planning & Development Department. Fees shown are an average of the AMA and Non-AMA districts. Source: Okeechobee County Planning & Development Department

Source: St. Lucie Planning & Development Department. Fees reflect indexing applied since adoption. Fees shown are an average of the four transportation districts.

Source: Pasco County Planning & Development Department. Fees shown are an average of the three transportation districts. Source: Polk County Building & Construction Department. Moratorium in effect through July 2015.

Source: Lee County Community Development Department, Transportation impact fees were recently reduced by 80%, effective through March 15, 2015, Source: Collier County Impact Fee Administration Department. Fees shown reflect indexing applied since adoption.

Transportation Impact Fee Benefit Districts

Currently, Brevard County has six transportation impact fee benefit districts, as outlined in Section 62-817 of the County's Ordinance.

- North Mainland
- Central Mainland
- South Mainland
- South Beaches
- Merritt Island & North Beaches
- Kennedy Space & Cape Canaveral Air Force Station

Benefit districts dictate where impact fee revenues can be spent to ensure that fee payers receive the associated benefit. Typically, these boundaries are based on land uses, growth rates, major roadway boundaries, and major geographical/environmental boundaries.

As part of this update study, Tindale Oliver conducted a review of the existing fee district boundaries. In addition to looking at geographical boundaries and City limits, the impact fee revenue and expenditure monies were reviewed to determine the effectiveness of the existing boundaries. In addition, a discussion with County Staff revealed that the current benefit district format has been working well, with strong communication and cooperation between the city and county governments.

With no major issues arising from the current district alignments, Tindale Oliver recommends that the County does not change any benefit district boundaries at this time (see Map VII-1). However, as development pushes westward toward the borders with Orange and Osceola Counties, Brevard County should continue review the mainland boundaries to ensure that they follow city limits, major roads, or other factors that may affect development patterns.

Kennedy Space & Cape North Canaveral Mainland . Titusville 5287 Merritt Cocoa Island & North Central 1 **Beaches** Mainland South Beaches Palm Bay South 95 Mainland **eba**stian

Map VII-1
Transportation Impact Fee Benefit Districts

Appendix A Population Supplemental Information

Population

All impact fee programs included in this report require the use of population data in calculating current levels-of-service, performance standards, 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 County, but also the seasonal residents and visitors were considered. Seasonal residents include visitors to hotel and motel facilities, visitors to RV parks, visitors that stay with relatives and friends, and part-time residents, which are defined as living in Brevard County 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 average seasonal population will be used in all population estimates and projections. References to population contained in this report pertain to the weighted average seasonal population, unless otherwise noted.

Brevard County provides all of the services included in the impact fee program countywide, with the exception of the fire rescue program area. The fire rescue service area includes the unincorporated county, Grant-Valkaria Town, Melbourne Village Town, Palm Shores Town, and West Melbourne City.

Given the differences in services areas, population estimates are provided separately for both areas.

Table A-1 presents the population trend for Brevard County. The projections indicate that the population of Brevard County is estimated to increase by 22 percent between 2014 and 2040 countywide.

Table A-1 **Weighted Population Trends and Projections**

	Weighted Seas	onal Population
Year	Brevard	Service Area for
	Countywide ⁽¹⁾	Fire Rescue ⁽²⁾
2000	510,679	215.014
2001	519,668	220,178
2002	529,252	226,036
2003	539,522	232,175
2004	552,573	237,435
2005	564,583	241,215
2006	571,873	243,699
2007	577,145	243,181
2008	580,491	245,456
2009	581,465	246,260
2010	583,396	247,823
2011	585,333	248,815
2012	585,806	247,973
2013	588,811	249,106
2014	594,202	252,151
2015	599,629	254,448
2016	606,105	257,195
2017	612,651	259,972
2018	619,268	262,781
2019	625,956	265,618
2020	632,697	268,479
2021	638,392	270,895
2022	644,137	273,333
2023	649,935	275,793
2024	655,783	278,276
2025	661,793	280,826
2026	666,756	282,932
2027	671,758	285,053
2028	676,796	287,192
2029	681,872	289,346
2030	686,916	291,485
2031	691,175	293,294
2032	695,460	295,113
2033	699,772	296,941
2034	704,111	298,783
2035	708,604	300,689
2036	712,289	302,253
2037	715,993	303,825
2038	719,716	305,404
2039	723,459	306,993
2040	727,393	308,662

⁽¹⁾ Source: Appendix A, Table A-13 (2) Source: Appendix A, Table A-14

Apportionment of Demand by Residential Unit Type and Size

The residential land uses to be used for the impact fee calculations are the following:

- Single Family Detached
- Multi-Family/Accessory Unit
- Mobile Home

Tables A-2 (for Countywide) and A-3 (for the fire rescue service area) present the number of persons per housing type for the residential categories identified above in Brevard County. This analysis includes all housing units, both occupied and vacant.

Table A-2
Persons per Housing Unit (Countywide)

Housing Type	Population ⁽¹⁾	Housing Units ⁽²⁾	Residents / Housing Units ⁽³⁾
Single Family Detached	460,787	185,671	2.48
Multi-Family/Condo/Townhouse	81,324	62,440	1.30
Mobile Home	34,860	21,453	1.62
Weighted Average	576,971	269,564	2.14

⁽¹⁾ Source: 2013 American Community Survey (ACS), Table B25033 (adjusted for peak seasonal population)

Table A-3
Persons per Housing Unit (Fire Rescue Service Area)

Housing Type	Population ⁽¹⁾	Housing Units ⁽²⁾	Residents / Housing Units ⁽³⁾
Single Family Detached	200,176	80,851	2.48
Multi-Family/Condo/Townhouse	19,469	14,756	1.32
Mobile Home	24,008	14,651	1.64
Weighted Average	243,653	110,258	2.21

⁽¹⁾ Source: 2013 American Community Survey (ACS), Table B25033 (adjusted for peak seasonal population)

⁽²⁾ Source: 2013 American Community Survey (ACS), Table DP04

⁽³⁾ Population (Item 1) divided by housing units (Item 2)

⁽²⁾ Source: 2013 American Community Survey, Table DP04

⁽³⁾ Population (Item 1) divided by housing units (Item 2)

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 county 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 need 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)². 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.

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

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 Brevard County functional population, an analysis of the County's population and employment characteristics was conducted. Tables A-4 and A-5 presents this analysis for both the countywide and fire rescue service areas respectively. Based on this analysis, people in the countywide service area, on average, spend 16.2 hours each day at their place of residence while people in the first rescue service area spend 16.3 hours. This corresponds to approximately 68 percent of each 24-hour day at their place of residence and the other 32 percent away from home.

Table A-4
Brevard County Population & Employment Characteristics

Item/Calculation Step	Countywide	Fire Rescue Service Area
Total workers living in Brevard County ⁽¹⁾	234,035	96,490
Brevard County Census Population (2010) ⁽²⁾	543,376	230,099
Total workers as a percent of population ⁽³⁾	43.1%	41.9%
School age population (5-17 years) (2010) ⁽⁴⁾	80,877	33,950
School age population as a percent of population (5)	14.9%	14.8%
Population net of workers and school age population (6)	228,464	99,659
Other population as a percent of total population (7)	42.0%	43.3%

- (1) Source: Census Transportation Planning Package (CTPP) 2010
- (2) Source: 2010 U.S. Census
- (3) Total workers (Item 1) divided by the census population (Item 2)
- (4) Source: 2010 U.S. Census
- (5) School age population (Item 4) divided by the census population (Item 2)
- (6) Census 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 the census population (Item 2)

Table A-5
Residential Coefficient for Functional Population

	Hours at	Countyw	ide	Fire Rescue Se	ervice Area
Pop. Group	Residence ⁽¹⁾	Percent of Population ⁽²⁾	Effective Hours ⁽³⁾	Percent of Population ⁽²⁾	Effective Hours ⁽³⁾
Workers	13	43.1%	5.6	41.9%	5.4
Students	15	14.9%	2.2	14.8%	2.2
Other	20	42.0%	8.4	43.3%	8.7
Total Hours at R	esidence ⁽⁴⁾		16.2		16.3
Residential Fun	ctional Popula	tion Coefficient ⁽⁵⁾	67.5%		67.9%

- (1) Assumed
- (2) Source: Table A-4
- (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 percentages from Table A-5 are used in the calculation of the residential coefficient for the 24-hour functional population. These actual calculations are presented in Table A-7 and A-8.

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, now used internationally. This method uses trip generation data from the Institute of Transportation Engineers' (ITE) Trip Generation Manual and Tindale Oliver'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-6 also shows the functional population coefficients for non-residential uses in Brevard County. The functional population coefficients in Table A-6 were used to estimate the County's functional population in Table A-7 (for Countywide) and Table A-8 (for the fire rescue service area).

Table A-6

General Functional Population Coefficients

		Employee		One-Way	Journey-to-	Daily				Functional Population Coefficient ⁽⁸⁾
Population/	TEILIN	Employee Hours In-	Trips per		Work Occupants	Daily Occupants per	Visitors per	Visitor Hours	Days per	Coefficient ⁽⁸⁾
Employment Category	HELUC	Place ⁽¹⁾	Employee ⁽²⁾	Employee ^[3]	per Trip ^(a)	Trip ⁽⁵⁾	Employee ⁽⁶⁾	per Trip ⁽¹⁾	Week ⁽⁷⁾	Countywide Fire Rescue
Population									7.00	0.675
Natural Resources	n/a	9.00	3.02	1.51	1.32	1.38	0.09	1.00	7.00	0.379
Construction	110	9,00	3.02	1.51	1,32	1,38		1.00	5,00	
Manufacturing	140	9.00	2.13	1.07	1,32	0 153		1.00	5.00	0.270
Transportation, Communication, Utilities	110	9.00	3.02	1,51	1,32	1.38		1.00	5,00	0.271
Wholesale Trade	150	9.00	3 89	1,95	1,32	1,38		1.00	5,00	
Retail Trade	820	9.00	52.10	26.05	1.24	1.73	12.76	1.50	7.00	1.173
Finance, Insurance, Real Estate	710	9.00	3.32	1,66	1.24	1.73	0.81	1.00	5.00	
Services ⁽⁹⁾	e/u	9.00	28,17	14,09				1,00	6.00	
Government ⁽³⁰⁾	730	9.00	11.95	5.98	1.24	1.73	2.93	1.00	7.00	0.497
(1) Assumed										
[2] Trips per employee represents all trips divided by the number of employees and is based on Trip Generation 9th Edition (Institute of Transportation Engineers 2012) as follows:	by the numbe	r of employees ar	d is based on Tri	p Generation 9th I	Edition (Institute of	Transportation En	igineers 2012) as i	follows:		
ITE Code 110 at 3,02 weekday trips per employee, page 93.	e, page 93.									
ITE Code 140 at 2.13 weekday trips per employee, page 164	e, page 164.									
ITE Code 150 at 3.89 weekday trips per employee, page 193.	e, page 193.									
ITE Code 710 at 3.32 weekday trips per employee, page 1252	e, page 1252									
ITE Code 730 at 11,95 weekday trips per employee, page 1304	ee, page 1304	8								
ITE Code 820 based on blended average of trips by retail center size calculated below, adapted from page 1561.	by retail cent	er size calculated	below, adapted i	rom page 1561.						
		Assumed		Sq Ft per	Trips per		Weighted			
Retail Scale		Center Size	Trip Rate	Employee (11)	Employee	Share	Trips			
Neighborhood <50k sq.ft.		50	86,56	802	69	40.0%	27.60			
Community 50k-250k sq.ft		250	49.28	975	48	30.0%	14.40			
Regional 250k-500k sq.ft		500	38,66	1,043	40	20.0%	8.00			
Super Reg. 500k-1000k sq.ft.		1,000	30,33	676	21	10.0%	2,10			
Sum of Weighted Trips/1k sq.ft.							52,10			
(3) Trip per employee (Item 2) multiplied by 0.5.										
[4] Journey-to-Work Occupants per Trip from 2001 Nationwide Household Travel Survey (FHWA 2001) as follows:	. Nationwide h	lousehold Travel	Survey (FHWA 20	01) as follows:						
1.32 occupants per Construction, Manufacturing, TCU, and Wholesale trip	g, TCU, and W	holesale trip								
1,24 occupants per Retail Trade, FIRE, and Services trip	ces trip	Canal Carrier (Eth	WA 2001) as fall a							
1.38 occupants per Construction, Manufacturing, TCU, and Wholesale trip	e. TCU. and W	holesale trip								
1.73 occupants per Retail Trade, FIRE, and Services trip	ces trip	_								
(6) [Daily occupants per trip (Item 5) multiplied by one-way trips per employee (Item 3)] - [(Journey-to-Work occupants per trip (Item 4) multiplied by one-way trips per employee (Item 3)] -	one-way trip	s per employee (I	:em 3)] - [(Journey	-to-Work occupa	nts per trip (Item 4)	multiplied by one	-way trips per emp	oloyee (Item 3)]		
(7) Typical number of days per week that indicated industries provide services and relevant government services are available.	Industries pr	rovide services ar	id relevant govern	ment services ar	e available.					
(8) Table A.S for residential and the equation below to determine the Functional Population Coefficient per Employee for all land-use categories except residential includes the following	w to determin	e the Functional I	opulation Coeffi	cient per Employe	e for all land-use c	ategories except re	sidential includes	the following:		
III AVA HEL	NAME AND ADDRESS OF	(24 H	(24 Hours per Day x 7 Days per Week)	Days per Week)	(24 Hours per Day x 7 Days per Week)	Constitution and Constitution				
(9) Trips per employee for the services category is the average trips per employee for the following service related land use categories: quality restaurant, high-turnover restaurant, supermarket, hotel, motel, elementary school, middle school high school, hospital, medical office, and church. Source for the trips per employee figure from ITE, 9th ed., when available, or else derived from the square feet per employee for the appropriate land use category from the Energy Information	the average tr	rips per employee	far the following /ee figure from ITI	service related la E, 9th ed., when av	and use categories: vailable, or else der	quality restaurant ived from the squa	, high-turnover res are feet per employ	staurant, superma /ee for the approp	rket, hotel, motel, riate land use cat	, elementary school, middle school, tegory from the Energy Information
(10) Includes Federal Civilian Government, Federal Military Government, and State and Local Government categories.	Military Gov	ernment, and Sta	te and Local Gove	rnment categorie	s,					
(11) Square feet per retail employee from the Energy Information Administration from Table 8-1 of the Commercial Energy Building Survey, 2003	gy Information	Administration	from Table 8-1 of	the Commercial E	nergy Building Surv	rey, 2003				

Table A-7

Countywide Functional Population – Year 2014

Population Category	Brevard County Baseline Data ⁽¹⁾	Functional Resident Coefficient (2)	Functional Population ⁽³⁾
2014 Mainhand Braudation	594,202		401,086
2014 Weighted Population	394,202	0.073	401,08
Employment Category			
Natural Resources	1,533	0.379	58:
Construction	12,535	0.271	3,39
Manufacturing	21,644	0.270	5,84
Transportation, Communication, and Utilities	8,958	0.271	2,428
Wholesale Trade	6,475	0.271	1,75
Retail Trade	31,084	1.173	36,462
Finance, Insurance, and Real Estate	24,608	0.292	7,180
Services	133,510	0.568	75,834
Government Services	32,264	0.497	16,03
Total Employment by Category Population ⁽⁴⁾			149,52
2014 Total Functional Population ⁽⁵⁾			550,608

- (1) Source: Table A-1 for population and 2014 Woods & Poole for employment data (2014 data was interpolated)
- (2) Source: Table A-6
- (3) The functional population is Brevard County 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-8
Fire Rescue Service Area Functional Population — Year 2014

Population Category	Brevard County Baseline Data ⁽¹⁾	Functional Resident Coefficient ⁽²⁾	Functional Population ⁽³⁾
2014 Weighted Population	252,151	0.679	171,211
Employment Category			
Natural Resources	740	0.379	280
Construction	4,939	0.271	1,338
Manufacturing	6,017	0.270	1,62
Transportation, Communication, and Utilities	3,144	0.271	852
Wholesale Trade	2,668	0.271	723
Retail Trade	10,040	1.173	11,77
Finance, Insurance, and Real Estate	7,604	0.292	2,220
Services	42,723	0.568	24,267
Government Services	16,326	0.497	8,114
Total Employment by Category Population ⁽⁴⁾			51,196
2014 Total Functional Population ⁽⁵⁾			222,407

- (1) Source: Table A-1 for population and 2014 Woods & Poole for employment data (2014 data was interpolated)
- (2) Source: Table A-6
- (3) The functional population is Brevard County 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-9 presents the County's annual functional population figures from 2000 through 2040, based on the 2014 functional population figures from Tables A-7 and A-8 and the annual population growth rates from the population figures previously presented in Table A-1.

Table A-9
Brevard County Functional Population (2000-2040)

	Functional	Population
Year	Brevard	Service Area fo
	Countywide ⁽¹⁾	Fire Rescue ⁽³⁾
2000	473,268	189,637
2001	481,598	194,188
2002	490,459	199,353
2003	499,974	204,775
2004	512,073	209,423
2005	523,185	212,753
2006	529,934	214,944
2007	534,809	214,493
2008	537,911	216,509
2009	538,825	217,223
2010	540,603	218,592
2011	542,387	219,466
2012	542,821	218,720
2013	545,589	219,726
2014	550,608	222,407
2015	555,619	224,431
2016	561,620	226,855
2017	567,685	229,305
2018	573,816	231,781
2019	580,013	234,284
2020	586,277	236,814
2021	591,553	238,945
2022	596,877	241,096
2023	602,249	243,266
2024	607,669	245,455
2025	613,260	247,713
2026	617,859	249,571
2027	622,493	251,443
2028	627,162	253,329
2029	631,866	255,229
2030	636,542	257,118
2031	640,489	258,712
2032	644,460	260,316
2033	648,456	261,930
2034	652,476	263,554
2035	656,652	265,241
2036	660,067	266,620
2037	663,499	268,006
2038	666,949	269,400
2039	670,417	270,801
2040	674,037	272,263

⁽¹⁾ Source: Table A-7 for 2014. Other years are based on growth rates for Brevard County weighted seasonal population; Table A-1 (Item 1)

growth races for Brevard County weighted seasonal population; Table A-1 (Item 1)

(2) Source: Table A-8 for 2014, Other years are based on growth rates for Brevard County weighted seasonal population; Table A-1 (Item 2)

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 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 Tables A-10 (for countywide) and A-11 (for the fire rescue service area). The average number of persons per housing unit in Brevard County was calculated for the single family detached, multi-family, and mobile home land uses, based on information obtained from the 2013 American Community Survey. Besides the residential land uses, Tables A-10 and A-11 also include transient land uses, such as hotels, motels, nursing homes, and assisted care living facilities (ACLF). Secondary sources, such as the Space Coast Office of Tourism and the Florida Department of Elderly Affairs, are used to determine the occupancy rate for hotels, motels, nursing homes, and ACLF land uses.

Non-Residential Land Uses

A similar approach is used to estimate functional residents for non-residential land uses. Table A-12 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 in the tables shows the estimated functional resident coefficients by land use. These coefficients by land use create the demand component for the certain impact fee programs and will be used in the calculation of the cost per unit for each land use category in the select impact fee schedules.

Functional Residents for Residential and Transient Land Uses - Countywide Table A-10

Residential Land Use U	Impact Unit	LUC ⁽¹⁾	Residents/Visitors Occupancy Per Unit ⁽²⁾ Rate ⁽³⁾	Occupancy Rate ⁽³⁾	Adjusted Residents Per Unit ⁽⁴⁾	Peak Visitor Hours at Place ⁽⁵⁾	Workers Per Unit ⁽⁶⁾	Work Day Hours ⁽⁷⁾	Days Per Week ⁽⁸⁾	Work Week Residents Per Unit ⁽⁹⁾
Residential			Went Comment		THE STREET	STATE OF THE STATE OF	A			
Single Family Detached c	du	210	2.48				'n	Si .	3	1.67
nt); 1-2 Stories	du	220	1.30	3	190	7#	36	Air .	ii.	0.88
	ub	222/223	1.30	00	w	N				0.88
Condo/Duplex/Townhouse; 1-2 Stories c	du	231	1.30	10	, in		T.		·	0.88
Condo/Duplex/Townhouse; 3+ Stories	du	232	1.30	000	T.	i.		w	w	0.88
Mobile Home c	du	240	1.62						W.	1.09
Transient, Assisted, Group										A STATE OF
Hotel ro	room	310	2.80	60%	1.68	12	0.57	9	7	1.05
Motel ro	room	320	2.80	60%	1.68	12	0.44	9	7	1.01
Nursing Home b	bed	620	1.00	88%	0.88	16	0.84	9	7	0.90
Assisted Care Living Eacility (ACLE)	d	253	1.29	88%	1.14	16	0.45	9	7	0.93

(2) Estimates for the single family, multi-family, and mobile home land use from Table A-2; estimates for the hotel/motel land use is based on data obtained from the Space Coast Office of Tourism.

One person per bed is assumed for nursing homes. Estimate for ALF 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 2001 National Household Travel Survey, prepared by the US Department of Transportation. Department of Elderly Affairs, Brevard County Profile. Average occupancy rate for 2010 and 2014. (3) Source for hotel/motel occupancy: Space Coast Office of Tourism. Average hotel/motel occupancy rate for 2009 through 2013. Source for nursing home/ACLF occupancy rate is the Florida

(4) Residents per unit times occupancy rate

(5), (7), (8) Estimated

(6) Adapted from ITE Trip Generation Handbook, 9th Edition

(9) For residential this is Residents Per Unit times 0.675 For Transient, Assisted, and Group it is:

[(Adjusted Residents per Unit X Hours at Place X Days per Week) + (Workers Per Unit X Work Hours Per Day X Days per Week)]

(24 Hours per Day X 7 Days per Week)

Functional Residents for Residential and Transient Land Uses – Fire Rescue Service Area Table A-11

Residential Land Use	Impact	III.	Residents/Visitors Occupancy	Occupancy	Adjusted Residents	Peak Visitor Hours at	Workers		Days Per	Work Week Residents Per
	Unit	LUC	Per Unit"	Rate	Per Unit ⁽⁴⁾	Place ⁽⁵⁾	Per Unit	Hours	Week	Unit ⁽⁹⁾
Residential							THE SALES	Saline R		
Single Family Detached	du	210	2.48		294	16		9		1.68
Multi-Family (Apartment); 1-2 Stories	du	220	1.32		TW.	i i	iù.	10	14	0.90
Multi-Family (Apartment); 3+ Stories	du	222/223	1.32		Či)	.ca	Į,	54		0.90
Condo/Duplex/Townhouse; 1-2 Stories	ф	231	1.32		84				206	0.90
Condo/Duplex/Townhouse; 3+ Stories	du	232	1.32		n .		ii.	Tiù.	16	0.90
Mobile Home	du	240	1.64	1	SV.		7		la la	1.
Transient, Assisted, Group									100	The South
Hotel	room	310	2.80	60%	1.68	12	0.57	9	7	1.05
Motel	room	320	2.80	60%	1.68	12	0.44	9	7	1.01
Nursing Home	bed	620	1.00	88%	0.88	16	0.84	9	7	0.90
Assisted Care Living Facility (ACLF)	du	253	1.36	88%	1.20	16	0.45	9	7	0.97

on information obtained from the 2001 National Household Travel Survey, prepared by the US Department of Transportation.

- One person per bed is assumed for nursing homes. Estimate for ALF is based on people per household figures for single and multi-family homes, adjusted for the residents over 55 years of age based (2) Estimates for the single family, multi-family, and mobile home land use from Table A-2; estimates for the hotel/motel land use is based on data obtained from the Space Coast Office of Tourism.
- Department of Elderly Affairs, Brevard County Profile. Average occupancy rate for 2010 and 2014. (3) Source for hotel/motel occupancy: Space Coast Office of Tourism. Average hotel/motel occupancy rate for 2009 through 2013. Source for nursing home/ACLF occupancy rate is the Florida
- (4) Residents per unit times occupancy rate
- (5), (7), (8) Estimated
- (6) Adapted from ITE Trip Generation Handbook, 9th Edition
- (9) For residential this is Residents Per Unit times 0.679. For Transient, Assisted, and Group it is:

I(Adjusted Residents per Unit X Hours at Place X Days per Week) + (Workers Per Unit X Work Hours Per Day X Days per Week)]

(24 Hours per Day X 7 Days per Week)

Table A-12 Functional Residents for Non-Residential Land Uses

710 General General General General General Medical Medical					General		General	OFFICE:	640 Animal H	610 Hospital	565 Day Care Center	560 Church	550 Universit	540 Universit	530 High Scho	522 Middle S	520 Element	SNOTTUTTONS	492 Health/F	491 Raquet/T	444 Movie Th	430 Golf Course	420 Marina	416 RV Park	RECREATION:	TE LUC ⁽³⁾	
Medical Office/Clinic 10,000 st of 1ess Medical Office/Clinic greater than 10,000 sf	Office/Clinic 10,000 St of less	Off: 101: : 10 000 6 -1: :	General Office greater than 400,000 sf	General Office 200,001 - 400,000 sf	General Office 100,001 - 200,000 sf	General Office 50,001 - 100,000 sf	General Office 50,000 sf or less		Animal Hospital/Veterinary Clinic		Center		University/Junior College (more than 7,500 students) (Private)	University/Junior College (7,500 or fewer students) (Private)	High School (Private)	Middle School (Private)	Elementary School (Private)	TONS:	Health/Fitness Club	Raquet/Tennis Club	Movie Theater w/Matinee	rse			ION:	Land Use	
	1,000 sf	1,000 sf	1,000 sf	1,000 sf	1,000 sf	1,000 sf	1,000 sf		1,000 sf	1,000 sf	1,000 sf	1,000 sf	student	student	student	student	student		1,000 sf	court	screen	hole	boat berth	site		Impact Unit	
	34.72	23,83	8.54	9,41	11.12	13.13	15,50	THE PERSON	32.80	13,22	71.88	9.11	1,50	2.00	1.71	1.62	1.29		32.93	38.70	106.63	35.74	2.96	1,62		Trips Per Unit ⁽²⁾	
	8,91	8.91	3,32	3.32		3.32			n/a		26.73	20.64	12,26	12.26	19.74	16.39	15.71		n/a	45.71	53.12	20.52	20.52	n/a		Trips Per Employee ⁽³⁾	
2 7 7	3.90	2.67	2.57	2.83	3.35	3,95	4.67	Ser See	4.05	2.94	2.69		0.12	0.16	0.09	0.10	0.08	THE REAL PROPERTY.	2.00	0.85	2,01	1.74	0.14	1.20		Employees Per Unît ⁽⁴⁾	
n on	0 17.36	7 11.92	7 4.27	3 4.71	5.56	5 6,57	7.75	A CONTRACTOR	16.40	4 6.61	35.94	4.56	0.75	1,00	0.86	0.81	0.65		16.47	19.35	53.32	17.87	1,48	0.81		One-Way Factor @ 50% ⁽⁵⁾	
					9	7 9	9		9	9	9	9							100	9		15	15	10	900	Worker Hours ⁽⁶⁾	
9 1 42	9 1.42	9 1.42	9 1.28	9 1,28	1,28	1.28	1.28	10000	1.42	1,42	1.11		1,11	1,11	1,11	1.11	1.11		2,39	2,39	2.39	2.39	2.39	2.39		Occupants Per Trip ⁽⁷⁾	
4 97	20.75	14,26	2,90	3.20	3.77	4,46	5.25	No. of Street	19.24	6.45	37.20		0.71	0.95	0.86	0.80	0.64		37.36	45.40	125.42		3.40	0.74		Occupants Per Trip ⁽⁷⁾ Visitors ⁽⁸⁾	
100	5 1.00	6 1.00	1.00	1.00	7 1.00	5 1.00	1.00	STATE STATE	1.00	1.00	0.15	1.00	2.00	2.00	2,00	2.00	2.00	A SHIP	1.50	1.50	1,00	0.25	1.00	1.50		Visitor Hours Per Trip ⁽⁹⁾	
	0	0	0		0		0	TO MAN	0	0	5	0	0	5	5	0	5	BANKS NAMED IN	0	0		5	0	0		Days Per Week ⁽¹⁰⁾	
104	1.66	5 1.14	0,77	0.85	1.01	1.19	1,41	THE STATE OF THE PARTY OF THE P	7 2.32	7 1.37	0.89	7 0.51	0.07	0.10	0,08	0.07	0.06		3,09	3.16	5.98	1,08	0,19	0.50		Functional Resident Coefficient ⁽¹¹⁾	

Table A-12 (continued)
Functional Residents for Non-Residential Land Uses

						THE RESERVE TO SHARE THE PARTY OF THE PARTY						
Inc _[1]	Land Use	Impact Unit	Trips Per Unit ⁽²⁾	Trips Per Employee ⁽³⁾	Employees Per Unit ⁽⁴⁾	One-Way Factor @ 50% ⁽⁵⁾	Worker Hours ⁽⁶⁾	Occupants Per Trip ⁽⁷⁾	Visitors ⁽⁸⁾	Visitor Hours Per Trip ⁽⁹⁾	Days Per Week ⁽¹⁰⁾	Resident Coefficient (11)
	RETAIL									- N. W.		
	Retail 10,000 sfgla or less	1,000 sfgla	86.56	n/a	2.50	43.28	9	1.73	72.37	0.50	7	2.45
	Retail 10,001-50,000 sfgla	1,000 sfgla	86.56			60.00	200.00		72.37	0.50	7	2,45
	Retail 50,001-100,000 sfgla	1,000 sfgla	67.91				9		56.25	0.65	7	2.46
820	Retail 100,001-300,000 sfgla	1,000 sfgla	46.23				9		37.50	1.00	7	2.50
	Retail 300,001-500,000 sfgla	1,000 sfgla	38.66						30.94	1.25	7	2,55
	Retail 500,001-1,000,000 sfgla	1,000 sfgla	30.33		2.50	2		1.73	23.74	1.50	7]	2.42
	Retail greater than 1,000,000 sfgla	1,000 sfgla	28.46						22.12	1.50	7	2.32
841	New/ Used Auto Sales	1,000 sf	28.25	2		i c			23.10	1.00	7	1.47
850	Supermarket	1,000 sf	103.38			51.69			77,39	0.50	7	2.05
851	Convenience Market (24 hour)	1000 sf	719.18						544,08	0.20	7	5.47
853	Convenience Market w/Gasoline	1,000 sf	775.14	1 n/a	2.50	387.57		1.52	586.61	0.20	7	5.83
880/881	Pharmacy/Drug Store with or w/o Drive-Thru	1,000 sf	95.96	5 n/a	2.50	47.98		1.52	70.43	0.35	7	1.96
890	Furniture Store	1,000 sf	5.06	5 12.19	0.42	2.53	9	1.52	3.43	0.50	7	0.23
911	Bank/Savings Walk-In	1,000 sf	121.30	34.69		60.65	9	1.52	88,69	0.35	6	2.23
912	Bank/Savings Drive-In	1,000 sf	159.34						115.95	0.15	6	2.28
931	Quality Restaurant	1,000 sf	91.10	o n/a	9.92	45.55	10	1.85	74.35	1.00	7	6.82
932	High-Turnover Restaurant	1,000 sf	116.60					1.85	97.94	0.75	7	6.78
934	Fast Food Rest. w/ Drive-Thru	1,000 sf	511.00	o n/a		255.50		1.85	461.78	0.25	7	8.90
942	Automobile Care Center	1,000 sf	31.43				2	1.52	22.39	1.00	7	1.50
944/946	Gasoline/Service Station with or w/o Car Wash	fuel pos.	157.33				9	1.52	117.08	0.20	7	1.91
947	Self Service Car Wash	service bay	43.94	4 n/a		21.97	3	1.52	32.89	0.50	7	0.87
	INDUSTRIAL:	TO THE REAL PROPERTY.	1000	10000			CINC SOL				1100000	1
110	General Light Industrial	1,000 sf	6.97	3.02	2.31	3.49		1.38	2.51	1.00	5	0.69
120	General Heavy Industrial	1,000 sf	1.50		1.83	0.75	(0)	1.38	0.00	1.00	5	0.49
150	Warehousing	1,000 sf	3.56	3.89		1.78		1.38	1.54	0.75	5	0.28
151	Mini-Warehouse	1,000 sf	2.15	5 61.90	0.03	3 1.08		1.38	1.46	0.75	7	0.06
Sources:	Sources: (1) Landuce code found in the Institute of Transportation Engineers (ITF) Trip Generation Handbook 9th Edition	neration Handbook 9t	h Edition									
(2) Land uses	(2) Land uses and trip generation rates consistent with those included in the 2013 Transportation Impact Fee Update Study (2) Land uses and trip generation TTT Trip Generation Bandbook on the delition, when available	L3 Transportation Impa	act Fee Update	Study								
(4) Trips per	(4) Trips per impact unit divided by trips per person (usually employee). When trips per person are not available, the employees per unit is estimated	rips per person are no	t available, th	e employees pe	r unit is estima	ted						
(5) Trips per	(5) Trips per unit (Item 2) multiplied by 50 percent											
(6), (9), (10) Estimated	Estimated											
(/) Nationwik	(/) Nationwide Personal Transportation Survey											
(8) [(Une-wa)	(8) [(One-way Irips/Unit x Occupants/Irip) - Employees].											
CTTI II WOLKE		VIIVIZA FIGURA X / DAVS)										

A-16

Weighted Seasonal Population Projections (Countywide)

Year	Permanent Population ⁽¹⁾	Seasonal, Occasional, Recreational ⁽²⁾	Hotel/Motel ⁽³⁾	Weighted Seasonal Population ⁽⁴⁾	Total Weighted Seasonal Population
2000	476,230	9,399	25,050	34,449	510,679
2001	484,611	9,566	25,491	35,057	519,668
2002	493,548	9,743	25,961	35,704	529,252
2003	503,126	9,932	26,464	36,396	539,522
2004	515,296	10,172	27,105	37,277	552,573
2005	526,496	10,393	27,694	38,087	564,583
2006	533,295	10,527	28,051	38,578	571,873
2007	538,211	10,624	28,310	38,934	577,145
2008	541,331	10,686	28,474	39,160	580,491
2009	542,239	10,704	28,522	39,226	581,465
2010	543,376	11,438	28,582	40,020	583,396
2011	545,184	11,472	28,677	40,149	585,333
2012	545,625	11,481	28,700	40,181	585,806
2013	548,424	11,540	28,847	40,387	588,811
2014	553,462	11,646	29,094	40,740	594,202
2015	558,500	11,752	29,377	41,129	599,629
2016	564,532	11,879	29,694	41,573	606,105
2017	570,629	12,007	30,015	42,022	612,651
2018	576,792	12,137	30,339	42,476	619,268
2019	583,021	12,268	30,667	42,935	625,956
2020	589,300	12,400	30,997	43,397	632,697
2021	594,604	12,512	31,276	43,788	638,392
2022	599,955	12,624	31,558	44,182	644,137
2023	605,355	12,738	31,842	44,580	649,935
2024	610,803	12,852	32,128	44,980	655,783
2025	616,400	12,970	32,423	45,393	661,793
2026	621,023	13,067	32,666	45,733	666,756
2027	625,681	13,166	32,911	46,077	671,758
2028	630,374	13,264	33,158	46,422	676,796
2029	635,102	13,364	33,406	46,770	681,872
2030	639,800	13,463	33,653	47,116	686,916
2031	643,767	13,546	33,862	47,408	691,175
2032	647,758	13,630	34,072	47,702	695,460
2033	651,774	13,715	34,283	47,998	699,772
2034	655,815	13,800	34,496	48,296	704,111
2035	660,000	13,888	34,716	48,604	708,604
2036	663,432	13,960	34,897	48,857	712,289
2037	666,882	14,033	35,078	49,111	715,993
2038	670,350	14,106	35,260	49,366	719,716
2039	673,836	14,179	35,444	49,623	723,459
2040	677,500	14,256	35,637	49,893	727,393

⁽¹⁾ BEBR-Medium projection for 2040. Interim years were interpolated to smooth out annual

population growth rates

(2) Seasonal, occasional, and recreational 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 2011-2040. The figures are weighed by 0.42 to account for seasonal residents only residing in Brevard County for a portion of the year (assume 5 months; 5 months divided by 12 months = 0.42).

(3) Source: Estimated based on the information provided by the Space Coast Office of Tourism (4) Sum of seasonal, occasional, and recreation population (Item 2) and hotel/motel population (Item 2).

⁽⁵⁾ Sum of permanent population (Item 1) and weighted seasonal population (Item 4)

Table A-13 Weighted Seasonal Population Projections (Fire Rescue Service Area)

Year	Permanent Population ⁽¹⁾	Seasonal, Occasional, Recreational ⁽²⁾	Hotel/Motel ⁽³⁾	Weighted Seasonal Population ⁽⁴⁾	Total Weighted Seasonal Population
2000	200,242	4,239	10,533	14,772	215,014
2001	205,051	4,341	10,786	15,127	220,178
2002	210,507	4,456	11,073	15,529	226,036
2003	216,225	4,577	11,373	15,950	232,175
2004	221,123	4,681	11,631	16,312	237,435
2005	224,644	4,755	11,816	16,571	241,215
2006	226,957	4,804	11,938	16,742	243,699
2007	226,474	4,794	11,913	16,707	243,181
2008	228,593	4,839	12,024	16,863	245,456
2009	229,342	4,855	12.063	16,918	246,260
2010	230,099	5,621	12,103	17,724	247,823
2011	231,017	5,647	12,151	17,798	248,815
2012	230,235	5,628	12,110	17,738	247,973
2013	231,286	5,654	12,166	17,820	249,106
2014	234,114	5,723	12,314	18,037	252,151
2015	236,246	5,775	12,427	18,202	254,448
2016	238,797	5,837	12,561	18,398	257,195
2017	241,376	5,900	12,696	18,596	259,972
2018	243,983	5,964	12,834	18,798	262,781
2019	246,618	6,028	12,972	19,000	265,618
2020	249,274	6,093	13,112	19,205	268,479
2021	251,517	6,148	13,230	19,378	270,895
2022	253,781	6,203	13,349	19,552	273,333
2023	256,065	6,259	13,469	19,728	275,793
2024	258,370	6,316	13,590	19,906	278,276
2025	260,737	6,374	13,715	20,089	280,826
2026	262,693	6,421	13,818	20,239	282,932
2027	264,663	6,469	13,921	20,390	285,053
2028	266,648	6,518	14,026	20,544	287,192
2029	268,648	6,567	14,131	20,698	289,346
2030	270,635	6,615	14,235	20,850	291,485
2031	272,313	6,657	14,324	20,981	293,294
2032	274,002	6,698	14,413	21,111	295,113
2033	275,700	6,739	14,502	21,241	296,941
2034	277,410	6,781	14,592	21,373	298,783
2035	279,180	6,824	14,685	21,509	300,689
2036	280,632	6,860	14,761	21,621	302,253
2037	282,091	6,896	14,838	21,734	303,825
2038	283,558	6,931	14,915	21,846	305,404
2039	285,033	6,967	14,993	21,960	306,993
2040	286,583	7,005	15,074	22,079	308,662

⁽¹⁾ BEBR-Medium projection for 2040. Interim years were interpolated to smooth out annual population growth rates

⁽²⁾ Seasonal, occasional, and recreational 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 2011-2040. The figures are weighed by 0.42 to account for seasonal residents only residing in Brevard County for a portion of the year (assume 5 months; 5 months divided by 12 months = 0.42).

⁽³⁾ Source: Estimated based on the information provided by the Space Coast Office of Tourism

⁽⁴⁾ Sum of seasonal, occasional, and recreation population (Item 2) and hotel/motel population (Item

⁽⁵⁾ Sum of permanent population (Item 1) and weighted seasonal population (Item 4)

Appendix B Building and Land Values Supplemental Information

This Appendix provides a summary of building and land value estimates for all impact fee program areas with the exception of transportation and educational facilities. Information related to cost estimates for educational facilities is included in Appendix C and transportation cost estimates are included in Appendix E.

Building Values

For all of the program areas, the following information was reviewed to estimate building values:

- Recent construction completed by Brevard County (if any);
- Estimates for any planned facilities;
- Insurance values of existing facilities;
- Data from other jurisdictions for recently completed facilities; and
- Discussions with architects/contractors.

The following paragraphs provide a summary for each program area.

Correctional Facilities

As presented in Table B-1, the construction cost associated with the County's most recent addition to the Detention Center took place between 2005 and 2014, for an average cost of \$240 per square foot. There are no estimates available for future jail additions, and the insurance values of the existing jail buildings ranged from \$120 per square foot to \$380 per square foot, with an average of \$200 per square foot. It is important to note insurance values are considered to provide estimates below the full cost since they typically do not take into consideration certain building components, such as foundation, architectural/design cost, furniture/fixture/equipment, security features, etc.

Recent jail construction in other Florida counties and estimates obtained from construction companies and architects suggested a range of \$225 to \$445 per square foot. Given all this information, a unit cost of \$240 per square foot for jail buildings is used in the study, which is also consistent with the most recent jail construction in Brevard County.

To determine the value of support facilities, such as warehouse, storage trailer, etc., the ratio of insurance values of support facilities to primary buildings was calculated. Applying

this figure (approximately 30%) to the unit cost of \$240 per square foot for primary buildings resulted in a cost of \$75 per square foot for support buildings.

Table B-1
Correctional Facilities Building Value

Source	Year	Building Cost per Square Foot
Construction of Detention Center Expansion (1)	2005-2014	\$239
Estimates for a Future Jail	N/A	N/A
Insurance Values of Existing Jail Buildings (2)	2014	\$120 - \$380
Recent Jail Construction in Other Florida Counties (3)	2009, 2013	\$225
Estimates from National Construction Companies (4)	2014	\$270-\$300
Estimates from Florida Architects ⁽⁵⁾	2014	\$285-\$445
Used in the Study	2014	\$240

- (1) Source: Brevard County
- (2) Source: Brevard County, figures rounded
- (3) Source: AJAX Engineering and Florida Department of Correctional Facilities, figures rounded
- (4) Source: Reed Construction Company
- (5) Based on discussions with architects for a range of a typical jail in Florida based on their experience

Fire/EMS Stations and Facilities

Brevard County Fire Department provides services from three types of facilities:

- Fire Station Only
- Fire/EMS Dual Stations
- EMS Station Only

Of these, fire stations and dual stations tend to have similar costs to build while EMS station costs are lower.

As part of this analysis, Tindale Oliver contacted several Florida jurisdictions to obtain more recent fire station construction cost information. The bids and estimates for facilities built in 2010 or 2012 range from \$190 to \$300 per square foot (excluding furniture/fixture/equipment, site preparation cost, permits, fees and other similar expenses). The following chart presents the station construction cost trends based on bids, estimates, and other information obtained during the previous impact fee studies completed by Tindale Oliver. As presented, the variation in station costs is relatively minor over the past few years.

\$250 \$200 \$150 \$50 \$0 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013

Figure B-1
Fire/EMS Station Construction Cost per Square Foot

Source: Fire station construction cost data collected from Florida jurisdictions

In determining the appropriate unit cost for station construction in Brevard County, in addition to these trends, the following data was evaluated:

- The most recent fire station expansion and renovation project cost was approximately \$135 per square foot (Stations 48 and 80 in 2011 and 2012). Discussions with the County representatives suggested that this relatively low cost was due to the simplistic design of these fire stations. Further, discussions with the Fire Department indicated that future fire stations are likely to have a different design characteristics to be more appealing to the community.
- The Fire Department's current estimate is approximately \$320 per square foot for a prototype fire station.
- The insurance value of existing fire/EMS stations is \$260 per square foot, which is considered to be a conservative value. The County representatives explained that an outside party visited the buildings and provided this valuation.

Based on the information summarized in Table B-2, a unit cost of \$260 per square foot is used for fire-only and dual station building value. This figure is based primarily on insurance values of the stations in Brevard County and is also consistent with statewide trends. In

terms of the EMS station costs, the ratio of insurance value of EMS stations to that of fire and dual stations was applied to the unit cost of \$260 per square foot, resulting in an EMS cost of \$150 per square foot. Finally, the value of support facilities were also based on insurance values.

Table B-2
Fire/EMS Station Value

Source	Year	Building Cost per Square Foot
Construction of Stations 48 and 80 ⁽¹⁾	2011-2012	\$135
Estimate for Future Fire Stations (2)	N/A	\$320
Insurance Values of Existing Fire Stations (3)	2014	\$260
Recent Fire Station Construction in Other Florida Counties (4)	2010-2012	\$190 - \$300
Estimates from Florida Architects ⁽⁵⁾	2013	\$230 - \$280
Used in the Study	2014	\$260

(1) Source: Brevard County

(2) Source: Brevard County Fire Department

(3) Source: Brevard County

(4) Source: Local jurisdictions

(5) Based on discussions with architects for a range of a typical fire station in Florida based on their experience (includes adjustment for ff&e, site preparation, permits, etc.)

Libraries

The most recent library construction in Brevard County was completed in 2010 for a building cost of \$330 per square foot. The current average insurance value of existing libraries is \$125 per square foot, which tends to represent a conservative estimate. The mid-point of these two values is approximately \$230 per square foot. Finally, recent library construction in other Florida jurisdictions provided an average building cost of \$240 per square foot. Given this information, a building value of \$230 per square foot is used in the library impact fee calculations.

Table B-3
Library Building Value

Source	Year	Building Cost per Square Foot
Construction of Merritt Island Library Expansion (1)	2010	\$330
Insurance Values of Existing Libraries (2)	2014	\$125
- Average of Recent Expansion and Insurance Values ⁽³⁾		\$228
Recent Library Construction in Other Florida Counties ⁽⁴⁾	2010-2014	\$240
Used in the Study	2014	\$230

- (1) Source: Brevard County
- (2) Source: Brevard County
- (3) Average of Item 1 and Item 2
- (4) Previous impact fee studies over the past five years

Solid Waste Facilities

The solid waste impact fee inventory includes several transfer stations, recycling and mulching facilities, hazardous waste facilities, among others. Due to the limited information on these facilities from other jurisdictions, the value is based on the recent reconstruction, insurance values, and estimates obtained from the Brevard County Solid Waste Management Department.

Land Values

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

- Recent land purchases for the related infrastructure (if any);
- Value of current parcels as reported by the Brevard County Property Appraiser;
- Value of vacant land by size and by land use; and
- Vacant land sales over the past three years by size and by land use.

It should be noted that the land value and sales analysis suggested that there is a large variation in land values throughout the county, and the sales data indicated higher values possibly due to the location of parcels sold as well as a lag in the update of the values in the Property Appraiser database. The analysis and estimates used for impact fee calculation purposes needed to balance the cost of next parcel the County is likely to purchase, which in many cases is likely to be in more expensive areas due to the development activity and the value of land included in impact fee calculations as part of the current inventory.

Correctional Facilities

The County has not purchased any land for correctional facilities recently and does not have any plans to buy additional land in the near future. The value of parcels where the current facilities are located is approximately \$5,000 per acre. To supplement this figure, TOA conducted an analysis of vacant land sales and values based on the data included in the Brevard County Property Appraiser database.

Vacant land sales and values were evaluated by land use (residential vs. all land uses) and by size. As mentioned previously, this analysis suggested that sales data indicates higher values than estimates included in the Property Appraiser's database.

Because correctional facilities do not have to be located in centralized areas, it is thought to be appropriate to evaluate values of residential properties, which tend to be lower than those for commercial properties.

Given that the land of current facilities is valued at \$5,000 per acre, land value of large parcels range from \$6,000 to \$11,000, correctional facilities are not likely to be located in centralized areas and that the County does not have any immediate plans for additional land purchase, land value of existing parcel (\$5,000 per acre) for impact fee calculation purposes is found to be a reasonable estimate.

Table B-4
Land Value Analysis – Correctional Facilities

Variable	Year	Average Land Value per Acre (1)
Value of Current Parcels	2014	\$5,000
Value of Vacant Land:		
Countywide - Residential		
- 15 to 25 acres	2014	\$11,200
- 25.01 to 50 acres	2014	\$8,100
- 50.01 to 100 acres	2014	\$6,100
Vacant Land Sales:		
Countywide - Residential		
- 15 to 25 acres	2011-2014	\$53,600
- 25.01 to 50 acres	2011-2014	\$34,500
- 50.01 to 100 acres	2011-2014	\$20,500
Used in the Study	2014	\$5,000

⁽¹⁾ Source: Brevard County Property Appraiser Database

Fire/EMS

Typically, fire stations need to be located at or near major intersections and not in residential areas, for better access and minimum disturbance. As such, land value of these facilities tends to be higher. As presented in Table B-5, both the recent land sales and the value of all vacant parcels for commercial properties versus all properties suggest the value of commercial properties is higher. This analysis is conducted using the Brevard County Property Appraiser for parcels with similar size to those included in the current fire/EMS facilities inventory. Given that the service area for EMS is countywide and Fire Rescue is unincorporated county and some of the cities, the analysis was conducted for both service areas. Results suggested that the value of commercial land being similar in both cases.

The County's most recent land acquisition related to Fire/EMS facilities took place in 2011 for Station 48. This parcel was donated by the Viera Corporation for impact fee credits and was valued at approximately \$403,000 per acre. Discussions with the Fire Department suggested that based on the development patterns and the Fire Department's needs, the next purchases could be in Micco or Viera. The Department estimated the cost to range from \$100,000 per acre to \$200,000 per acre in Micco to \$500,000 per acre in Viera.

^{*} Figures are rounded to the nearest \$100.

The large variation in land values discussed previously is observed in the value of parcels where the current fire/EMS stations are located. The average value of these parcels is \$36,000 per acre with a range of \$8,000 per acre to \$479,000 per acre.

Given this information, an average value of \$75,000 per acre is found to be a reasonable estimate for impact fee calculation estimates. This estimate takes into account both the high value of upcoming parcels and the lower value of some of the parcels that are in the inventory.

Table B-5
Land Value Analysis – Fire/EMS Facilities

Land Value Analysis – Fire/EMS Facilities						
Variable	Year	Average Land Value per Acre ⁽¹⁾				
Value of Current Parcels	2014	\$36,400				
Cost of Recent Land Purchases	2011	\$402,800				
Value of Vacant Land:						
Countywide - Commercial						
- 0.5 to 1 acres	2014	\$93,600				
- 1.01 to 6 acres	2014	\$72,900				
- 6.01 to 15 acres	2014	\$42,100				
Countywide - All Land Uses						
- 0.5 to 1 acres	2014	\$58,500				
- 1.01 to 6 acres	2014	\$29,800				
- 6.01 to 15 acres	2014	\$20,600				
Vacant Land Sales:						
Countywide - Commercial						
- 0.5 to 1 acres	2011-2014	\$141,100				
- 1.01 to 6 acres	2011-2014	\$157,600				
- 6.01 to 15 acres	2011-2014	\$108,900				
Countywide - All Land Uses						
- 0.5 to 1 acres	2011-2014	\$120,900				
- 1.01 to 6 acres	2011-2014	\$51,000				
- 6.01 to 15 acres	2011-2014	\$48,800				
Used in the Study	2014	\$75,000				

⁽¹⁾ Source: Brevard County Property Appraiser Database

^{*} Figures are rounded to the nearest \$100.

Libraries

As presented in Table B-6, the current value of land where existing libraries are located averages \$51,500, with a range of \$8,500 per acre to \$348,500 per acre. This information along with the vacant sales values of 4 to 6-acre parcels suggests that an average land value of \$50,000 per acre is a reasonable estimate.

Table B-6 Land Value Analysis - Libraries

Land Value An	alysis - Libraries	
Variable	Year	Average Land Value per Acre ⁽¹⁾
Value of Current Parcels	2014	\$51,500
Value of Vacant Land:		
Countywide - Residential		
- 0.5 to 6 acres	2014	\$28,100
- 6 to 15 acres	2014	\$13,600
Countywide - All Land Uses		
- 0.5 to 6 acres	2014	\$35,800
- 6 to 15 acres	2014	\$20,400
Vacant Land Sales:		
Countywide - Residential		
- 0.5 to 6 acres	2011-2014	\$32,900
- 6 to 15 acres	2011-2014	\$15,700
Countywide - All Land Uses		
- 0.5 to 6 acres	2011-2014	\$51,000
- 6 to 15 acres	2011-2014	\$48,900
Used in the Study	2014	\$50,000

⁽¹⁾ Source: Brevard County Property Appraiser Database

Solid Waste

As mentioned previously, the solid waste facilities included in the impact fee calculations include several transfer stations, recycling and mulching facilities, hazardous waste facilities, among others. Some of these facilities are located on the same parcel as landfills while others on separate parcels. The County's Solid Waste Management Plan update provides two estimates for future land purchases: \$20,000 per acre for the South County Transfer Station Site and \$105,000 per acre for additional land next to the Titusville Transfer Station Site. The high estimate for the Titusville Transfer Station site is due to more developed nature of this area. The land value of solid waste facility parcels, excluding the landfills,

^{*} Figures are rounded to the nearest \$100.

average approximately \$14,000. Given the unique nature of these facilities, the estimate of \$20,000 per acre is used for impact fee calculations.

Appendix C Educational Facilities Impact Fee: Supplemental Information

Educational Facilities Supplemental Information

This appendix presents the inventory of traditional schools in Brevard County as well as an explanation of building and land value estimates used in the impact fee calculations.

School District Inventory

The current inventory of traditional schools in Brevard County is presented in Table C-1.

Table C-1
Brevard County School District Existing School Inventory

				Permanent	FISH Permanent	
		Yana Anni	Grade	Capacity (after		
Number	Schools	Year Acquired	Grade	FISH capacity	Net Square	
				adjustment)	Footage	
	Elementary Schools		Winds I			
1	ROY ALLEN ELEMENTARY	1967	PK-6	645	90,670	
2	HANS CHRISTIAN ANDERSEN ELEMENTARY	1966	K-6	840	105,034	
3	APOLLO ELEMENTARY	1965	PK-6	902	96,896	
4	ATLANTIS ELEMENTARY	1988	PK-6	703	115,456	
5	AUDUBON ELEMENTARY	1963	PK-6	761	87,512	
6	CAMBRIDGE ELEMENTARY MAGNET	1959	PK-6	649	79,792	
7	CAPE VIEW ELEMENTARY	1963	PK-6	548	63,934	
8	LEWIS CARROLL ELEMENTARY	1967	K-6	751	96,214	
9	CHALLENGER 7 ELEMENTARY	1984	K-6	551	107,816	
10	COLUMBIA ELEMENTARY	1979	PK-6	685	114,602	
11	COQUINA ELEMENTARY	1959	PK-6	627	78,076	
12	DR W J CREEL ELEMENTARY	1972	PK-6	1,088	111,109	
13	CROTON ELEMENTARY	1965	PK-6	707	67,743	
14	DISCOVERY ELEMENTARY	1987	PK-6	826	139,265	
15	ENDEAVOUR ELEMENTARY MAGNET	1960	PK-6	852	86,792	
16	ENTERPRISE ELEMENTARY	1992	K-6	707	111,940	
17	FAIRGLEN ELEMENTARY	1965	K-6	753	99,720	
18	STUDIES	1957	K-6	453	49,818	
19	GEMINI ELEMENTARY	1965	K-6	667	77,858	
20	GOLFVIEW ELEMENTARY MAGNET	1962	PK-6	689	82,976	
21	HARBOR CITY ELEMENTARY	1960	K-6	453	56,990	
22	SPESSARD L HOLLAND ELEMENTARY	1961	PK-6	605	75,999	
23	IMPERIAL ESTATES ELEMENTARY	1967	K-6	729	107,927	
24	INDIALANTIC ELEMENTARY	1956	K-6	754	95,396	
25	JUPITER ELEMENTARY	1986	PK-6	780	120,860	
26	LOCKMAR ELEMENTARY	1980	PK-6	892	112,452	
27	LONGLEAF ELEMENTARY	1997	K-6	790	105,846	
28	MANATEE ELEMENTARY	2002	PK-6	884	121,661	
29	CHRISTA MCAULIFFE ELEMENTARY	1984	PK-6	754	121,884	
30	MEADOWLANE INTERMEDIATE ELEMENTARY	1993	3-6	894	130,006	
31	MEADOWLANE PRIMARY ELEMENTARY	1993	K-3	824	144,366	
32	MILA ELEMENTARY	1950	PK-6	707	90,554	
33	MIMS ELEMENTARY	1913	PK-6	725	85,052	
34	OAK PARK ELEMENTARY	1965	PK-6	888	105,401	
35	OCEAN BREEZE ELEMENTARY	1964	PK-6	498	64,537	

Table C-1 (Continued)
Brevard County School District Existing School Inventory

Number	Schools	Year Acquired	Grade	Permanent Capacity (after FISH capacity adjustment)	FISH Permanent Net Square Footage
	Elementary Schools				
36	PALM BAY ELEMENTARY	1965	PK-6	829	86,004
37	PINEWOOD ELEMENTARY	1968	PK-6	503	69,637
38	PORT MALABAR ELEMENTARY	1978	K-6	768	102,410
39	QUEST ELEMENTARY	2003	K-6	928	107,551
40	RIVIERA ELEMENTARY	1988	PK-6	689	106,571
41	THEODORE ROOSEVELT ELEMENTARY	1966	PK-6	599	103,357
42	SABAL ELEMENTARY	1962	K-6	679	70,929
43	SATURN ELEMENTARY	1965	PK-6	830	83,170
44	SEA PARK ELEMENTARY	1958	PK-6	439	55,072
45	SHERWOOD ELEMENTARY	1962	K-6	609	85,471
46	ROBERT LOUIS STEVENSON ELEMENTARY SCHOOL OF THE ARTS	1967	K-6	569	60,758
47	SUNRISE ELEMENTARY	2005	PK-6	895	110,191
48	SUNTREE ELEMENTARY	1986	K-6	689	111,232
49	SURFSIDE ELEMENTARY	1961	K-6	439	50,902
50	TROPICAL ELEMENTARY	1961	K-6	910	102,754
51	JOHN F TURNER SR ELEMENTARY	1980	PK-6	830	94,473
52	UNIVERSITY PARK ELEMENTARY	1959	PK-6	679	80,544
53	WEST MELBOURNE ELEMENTARY SCHOOL FOR SCIENCE	1960	K-6	618	67,378
54	WESTSIDE ELEMENTARY	1996	K-6	835	107,998
55	RALPH M WILLIAMS JR ELEMENTARY	1998	K-6	627	92,491
	Subtotal - Elementary Schools			39,545	5,151,047
THE REAL PROPERTY.	Middle Schools				William III
1	CENTRAL MIDDLE	1993	7-8	1,524	225,379
2	DELAURA MIDDLE	1961	7-8	923	127,439
3	HERBERT C HOOVER MIDDLE	1965	7-8	658	103,794
4	ANDREW JACKSON MIDDLE	1964	7-8	654	107,517
5	THOMAS JEFFERSON MIDDLE	1967	7-8	847	117,020
6	LYNDON B JOHNSON MIDDLE	1963	7-8	999	144,424
7	JOHN F KENNEDY MIDDLE	1965	7-8	674	105,449
8	JAMES MADISON MIDDLE	1965	7-8	742	112,666
9	RONALD MCNAIR MIDDLE	1958	7-8	603	95,192
10	SOUTHWEST MIDDLE	1980	7-8	1,177	207,689
11	STONE MAGNET MIDDLE	1954	7-8	1,013	163,019
	Subtotal - Middle Schools			9,814	1,509,588
	Ir/Sr High Schools	A STREET	100	E' Lave (Co.	
1	COCOA JR/SR HIGH	1969	7-12	1,570	274,149
2	COCOA BEACH JR/SR HIGH	1957	7-12	1,127	
3	EDGEWOOD JR/ SR HIGH	1957	7-12	996	155,791
4	SPACE COAST JR/ SR HIGH	1992	7-12	1,777	303,715
5	WEST SHORE JR/SR HIGH	1956	7-12	1,108	
7	Subtotal - Jr/Sr High Schools			6,578	1,070,159

Table C-1 (Continued)
Brevard County School District Existing School Inventory

Number	Schools Year Acquire		Grade	Permanent Capacity (after FISH capacity adjustment)	FISH Permanent Net Square Footage
	High Schools			Marabla Mar	Too tage
1	ASTRONAUT SENIOR HIGH	1970	9-12	1,445	241,490
2	BAYSIDE SENIOR HIGH	1996	9-12	2,235	347,819
3	EAU GALLIE SENIOR HIGH	1958	9-12	1,947	297,586
4	HERITAGE HIGH	2007	9-12	2,314	370,000
5	MELBOURNE SENIOR HIGH	1954	9-12	2,317	334,033
6	MERRITT ISLAND SENIOR HIGH	1964	9-12	1,866	260,878
7	PALM BAY MAGNET SENIOR HIGH	1958	9-12	2,447	320,15
8	ROCKLEDGE SENIOR HIGH	1952	9-12	1,606	254,13!
9	SATELLITE SENIOR HIGH	1961	9-12	1,487	259,253
10	TITUSVILLE HIGH	1927	9-12	1,871	313,243
11	VIERA HIGH SCHOOL	2004	9-12	2,133	325,395
	Subtotal - High Schools			21,668	3,323,984
	Grand Total - All Schools			77,605	11,054,778

(1) Source: Brevard Public Schools

Building Cost Analysis

To determine the architectural, design, site improvement, construction, and FF&E costs associated with building a new school in Brevard County, the following information was evaluated:

- Recently built schools in Brevard County;
- Cost estimates included in the Educational Plant Survey;
- Insurance values of the existing schools;
- School cost information for 160 schools in other Florida counties; and
- Discussions with the District's Facilities Management Services Division.

The following paragraphs provide further detail on this research and analysis.

Construction Cost

Most recent school construction in Brevard County included the construction of Meadowland Intermediate Elementary in 2007 and Heritage High School in 2009. The cost associated with these schools ranged from \$152 per net square foot for the elementary school to \$194 per net square foot for the high school, as shown in Table C-2. In addition, the District's Five-Year Plan and Educational Plant Survey include several school expansion/renovation projects. The estimated cost associated with these expansions ranges from \$188 per net square foot to \$193 per net square foot. These figures are consistent with the construction costs observed in other jurisdictions.

Finally, the insurance values of existing school buildings range from approximately \$138 per net square foot for middle schools to \$145 per net square foot for high schools, with an average of \$145 per net square foot for all traditional schools. It is important to note insurance values do not include the full cost of constructing a school since certain components of a building, such as the foundation, are excluded from these values. As such, insurance values are considered to be a conservative estimate.

Table C-3 summarizes data obtained from the Florida Department of Education for schools built in 2011 and 2013. As shown, the average construction cost is approximately \$165 per net square foot, with a range of \$150 per net square foot for elementary schools to \$180 per net square foot for high schools.

Given this data and information, average construction costs of \$150 per net square foot for elementary schools, \$160 per net square foot for middle schools, and \$190 per net square foot for high schools are used in this study, which is based on the average costs obtained from other Florida jurisdictions and includes an adjustment factor for high schools to account for local cost factors related to Brevard Public Schools' design characteristics. In the case of high schools, the District's design standards include a higher number of career and technical labs at high schools and use the life cycle cost basis, which tend to increase the initial construction cost.

Table C-2
Construction Cost Analysis – Brevard County

	Construction Cost Analysis – Brevard County							
Year Built ⁽¹⁾	Facility Name ⁽²⁾	Construction Cost ⁽³⁾	Net Permanent Square Feet ⁽⁴⁾	Constrution Cost per NSF ⁽⁵⁾				
2007	Meadowland Intermediate ES	\$16,430,866	107,881	\$152				
2009	Heritage High School	\$57,088,946	293,634	\$194				
Five-Year	ive-Year Plan & Educational Plant Survey Estimates for School Additions (6)							
Insurance	Values of Existing School Buildings	; ⁽⁷⁾						
Sec. 183.	- Elementary Schools			\$139				
	- Middle Schools			\$138				
	- High Schools			\$154				
	- All Traditional Schools			\$145				
Other Flo	rida Jurisdictions: (8)							
ALL STREET	- Elementary Schools			\$151				
30-034	- Middle Schools			\$159				
	- High Schools			\$181				
	- All Traditional Schools			\$166				
Used in t	he Study: ⁽⁹⁾							
Consister	- Elementary Schools			\$150				
	- Middle Schools			\$160				
	- High Schools			\$190				
	- All Traditional Schools			\$167				

^{(1), (2), (3), (4), (6), (7)} Source: Brevard Public Schools

⁽⁵⁾ Construction cost divided by net permanent square feet

⁽⁸⁾ Source: Table C-3

⁽⁹⁾ Estimates used in the impact fee calculations based on the information included in this section

Table C-3
Construction Cost Analysis – Other Florida Jurisdictions

Year Built	County	Facility Name/Type	Construction Cost	Total Cost	Net Sq. Ft.	Construction Cost per Net SF
Elementary :	Schools					القداعيي
2011	Charlotte	Meadow Park Elementary	\$12,696,116	\$18,415,280	89,652	\$142
2011	Duval	Waterleaf Elementary	\$14,882,021	\$24,786,442	82,062	\$181
2011	Escambia	Global Learning Academy	\$17,019,155	\$24,108,501	120,015	\$142
2011	Osceola	Highlands Elementary	\$14,534,309	\$18,145,244	106,918	\$136
2011	Pasco	Connerton Elementary "R"	\$11,598,590	\$19,102,688	84,972	\$136
2012	Alachua	Meadowbrook Elementary	\$12,388,973	\$19,444,444	97,000	\$128
2012	Indian River	Vero Beach Elementary	\$17,243,103	\$21,533,893	110,495	\$156
2012	Lee	Tortuga Preserve	\$16,021,554	\$23,456,732	129,936	\$123
2012	Orange	SunRidge Elementary	\$10,031,097	\$14,162,606	66,645	\$151
2012	St. Johns	Palencia Elementary	\$12,677,682	\$15,290,832	102,314	\$124
2012	Volusia	Citrus Grove Elementary	\$13,854,183	\$19,661,608	98,842	\$140
2013	Marion	Legacy Elementary	\$14,047,310	\$18,245,314	104,324	\$135
2013	Orange	Sun Blaze Elementary	\$10,269,207	\$12,707,954	64,410	
2013	Orange	Hackney Prairies Road Area Elementary	\$11,261,094	\$14,797,447	75,189	\$150
2013	Palm Beach	Galaxy Elementary	\$19,780,288	\$28,938,866	85,571	\$231
2013	Palm Beach	Gove Elementary	\$23,540,256	\$35,753,685	116,174	\$203
Total/Weigi	hted Average E	lementary Schools	\$231,844,938	\$328,551,536	1,534,519	\$151
Middle Scho	ols				VIDO ES	
2011	Dade	North Dade Middle	\$18,921,534	\$21,216,883	94,660	
2011	Orange	Lake Nona Middle	\$16,923,455	\$23,466,083	149,897	\$113
2011	Polk	Boone Middle	\$17,900,963	\$20,312,468	69,921	\$256
2011	Walton	Emerald Coast Middle	\$15,918,884	\$25,134,830	126,770	\$126
2012	Collier	Bethune Education Center	\$5,538,155	\$7,813,329	34,851	\$159
2012	Dade	North Dade Middle and North Dade Center for Modern Languages	\$18,921,534	\$21,216,883	94,660	\$200
2012	Lee	Hams Marsh Middle	\$23,750,925	\$30,653,842	164,662	\$144
2012	Orange	Sunridge Middle	\$23,617,116	\$30,375,846	152,436	\$155
2013	Monroe	Horace O'Bryant	\$30,596,297	\$38,366,941	196,598	
Total/Weigi	hted Average I	Middle Schools	\$172,088,863	\$218,557,105	\$1,084,455	\$159
High Schools						3.0
2011	Broward	Lanier James Education Center	\$8,889,147	\$12,412,686	42,608	\$209
2011	Calhoun	Blountstown High	\$19,407,910	\$25,135,928	100,366	\$193
2011	Charlotte	Charlotte High	\$61,755,842	\$92,390,747	258,700	
2011	Dade	International Studies SHS	\$7,192,325	\$21,846,054	35,137	\$205
2011	Dade	Medical Academy or Science and Technology	\$9,303,705	\$18,811,197	78,845	\$118
2011	Okeechobee	Okeechobee Achievement Academy	\$5,499,975	\$6,696,931	43,024	\$128
2011	Polk	Auburndale Senior	\$19,522,053	\$24,482,933	101,466	
2011	Polk	Davenport School of the Arts	\$29,136,512	\$32,548,129	157,446	
2011	Polk	Kathleen Senior	\$24,323,662	\$27,493,666	112,017	\$217
2011	Polk	Winter Haven Senior	\$26,374,234	\$29,588,106	140,940	
2012	Dade	International Studies SHS	\$7,192,325	\$21,846,054	35,137	\$205
2012	Dade	Medical Academy or Science and Technology	\$9,303,705	\$18,811,197	78,845	
2012	Orange	Evans High	\$55,507,691	\$81,091,877	289,061	\$192
2012	St. Lucie	Lincoln Park Academy	\$10,928,736	\$24,423,402	93,703	\$117
2013	Lake	Lake Minneola High	\$46,974,201	\$57,354,621	294,664	\$159
2013	Martin	Martin County High	\$7,623,316	\$9,854,403	63,601	\$120
Total/Weia	hted Average I	ligh Schools	\$348,935,339	\$504,787,931	\$1,925,560	\$181
	hted Average (Al		\$752,869,140	\$1,051,896,572	\$4,544,534	\$166

Source: Florida Department of Education

Architectural, Design, Site Preparation, Furniture, Fixture and Equipment Costs

The architectural, design, site preparation (including on-site improvement and traffic control costs), and FF&E costs (including technology) are calculated based on the ratio of these costs to the construction costs observed in Brevard County and other jurisdictions. These figures were also discussed with the District representatives and are estimated at 15 percent of construction for architectural/ design and site preparation costs, and 8 percent for FF&E costs. Tables C-4 and C-5 summarize the data obtained from Brevard County and other jurisdictions.

Table C-4
Architectural/Civil Design and FF&E Cost Analysis
Brevard County and Other Florida Jurisdictions

J = = 1			Brevard County and Ot			Ratio of Architect		Ratio of FF&E to
Year	District	Туре	Facility Name	Construction Cost	Architect & Eng Fees	& Eng Fees to Construction Cost	FF&E	Construction Cost
2008	Leon	Elem	Conley Elementary School	\$22,234,866	\$1,275,420	6%	\$1,977,175	9%
2008	Broward	Elem	Colbert Elementary	\$3,576,065	\$680,317	19%	\$213,389	6%
2008	Charlotte	Elem	Peace River Elementary School	\$16,470,888	\$1,164,074	7%	\$293,047	2%
2008	Citrus	Elem	Central Ridge Elementary	\$20,066,027	\$1,293,378	6%l	\$682,662 \$1,497,860	3% 7%
2008	Clay	Elem	Oakleaf Village Elementary Plantation Oaks Elementary	\$22,067,755 \$15,709,595	\$1,132,542 \$927,982	6%	\$900,000	6%
2008	Clay	Elem	Shadowlawn Elementary	\$23,666,356	\$1,091,411	5%	\$1,544,656	7%
2008	Collier	Elem	Parkside Elementary	\$21,099,395	\$671,650	3%	\$2,665,658	13%
2008	Collier	Elem	Veterans Memorial Elementary	\$16,957,004	\$546,022	3%	\$2,625,757	15%
2008	Highlands	Elem	Memorial Elementary	\$10,296,575	\$749,240	7%	\$1,691,188	16%
2008	Hillsborough	Elem	Kimbell Elementary	510,540,220	\$510,924	5%	\$1,150,000	11%
2008	Hillsborough	Elem	Reddick Elementary	\$13,342,791	\$765,913	6%	\$1,117,452	10%
2008	lake	Elem	Grassy Lake Elementary	\$16,110,171 \$17,028,093	\$607,929	4% 3%	\$1,572,102 \$1,414,128	8%
2008	lake	Elem	Mascotte Charter Elementary Minnegla Charter Elementary	\$16,878,476	\$552,701 \$624,283	4%	\$1,506,036	9%
2008	Lake	Elem	Sawgrass Bay Elementary	\$15,816,096	\$472,825	3%	\$1,538,956	10%
2008	Lake Lee	Elem	Heights Elementary School	521,224,842	\$396,000	2%	\$1,451,720	7%
2008	Lee	Elem	Treeline Elementary School	\$15,989,080	\$385,950	2%	\$1,452,508	9%
2008	Orange	Elem	Conway Elementary School	\$10,376,998	\$550,000	5%	\$750,000	7%
2008	Orange	Elem	Lakemont Elementary School	\$12,830,008	\$761,020	6%	\$912,049	7%
2008	Orange	Elem	Timber Lakes Elementary School	\$12,465,522	\$663,155	5%	\$968,647	8%
2008	Orange	Elem	Westbrooke Elementary School	\$13,259,968	\$473,978	4%	\$1,000,000	8%
2008	Osceola	Elem	Flora Ridge Elementary	\$15,804,425	\$414,305	3%	\$2,161,629	14%
2008	Osceola	Elem	New ES "J" (Harmony Community)	\$13,632,941	\$566,980	4%	\$2,299,583	17%
2008	Palm Beach	Elem	Allamanda Elementary	\$23,238,839 \$24,150,475	\$1,171,581 \$1,185,476	5% 5%	\$879,820 \$779,820	3%
2008	Palm Beach	Elem	Forest Park Elementary	522,672,614	\$1,267,703	6%	\$971,083	4%
2008	Palm Beach Palm Beach	Elem	Hagen Ranch Elementary Palm Beach Gardens Elementary	522,077,886	\$1,262,407	6%	\$779,838	4%
2008	Palm Beach	Elem	Pine Jog Elementary	529,144,023	\$1,358,825	5%	\$992,167	3%
2008	Palm Beach	Elem	Westward Elementary	\$27,207,724	\$1,324,188	5%	\$869,654	3%
2008	Palm Beach	Elem	Sunset Palms Elementary	\$24,576,913	\$1,069,387	4%	\$997,614	4%
2008	Pasco	Elem	New River Elementary "M"	\$11,301,689	\$521,935	5%	\$1,325,467	12%
2008	Pinellas	Elem	New Heights Elementary	\$22,910,850	\$1,374,287	6%	\$1,171,311	5%
2008	Pinellas	Elem	Tarpon Springs Elementary	\$19,675,615	\$989,498	5%	\$2,746,022	14%
2008	Polk	Elem	Horizons Elementary	\$18,873,956	\$557,676	3%	\$1,642,347 \$1,590,038	9% 11%
2008	Volusia	Elem	Pride Elementary ("Y")	\$14,935,273	\$723,815 \$1,021,674	5% 5%	\$578.838	3%
2008	Walton St. Lucie	Elem	Mossy Head School Ft Pierce Central High School	\$18,827,427 \$63,908,401	\$2,108,410	3%	\$3,993,169	6%
2008	Broward	High High	West Broward High	\$74,974,472	\$2,627,821	4%	\$5,739,011	8%
2008	Franklin	High	Franklin County Schools	\$22,955,575	\$1,395,385	6%	\$975,000	4%
2008	Lee	High	Island Coast High School	\$41,559,854	\$1,138,351	3%	\$4,350,121	10%
2008	Pasco	High	Wiregrass Ranch High School "CCC"	\$22,880,482	51,045,502	5%	\$3,502,243	15%
2008	Polk	High	Tenoroc Senior	560,017,596	\$1,454,175	2%	\$3,972,131	7%
2008	Sarasota	High	Suncoast Polytechnical High School	511,730,040	\$1,030,406		\$2,160,265	18%
2008	St. Johns	High	Creekside High School ("DDD")	\$45,425,406	\$2,399,921	5% 4%	\$3,150,626	7% 6%
2008	St. Johns	High	Ponte Vedra High School CCC	\$54,638,612 \$22,008,118	\$2,115,456 \$1,345,194	6%	\$2,049,255	9%
2008	Leon	Middle	Montford Middle School	\$25,975,683	51,463,300	6%	\$1,661,916	6%
2008	Charlotte	Middle Middle	Breakfast Point Academy K-8 Punta Gorda Middle School	\$23,896,506	\$1,829,098	8%	\$564,072	2%
2008	Collier	Middle	Cypress Palm Middle	\$26,535,164	\$1,654,176	6%	\$3,551,727	13%
2008	Collier	Middle	Marco Charter Middle	\$14,450,518	\$580,583	4%	\$539,228	4%
2008	Duval	Middle	North Shore K-8	\$25,222,118	\$1,690,172	7%	\$2,651,960	11%
2008	Flagler	Middle	Bunnell K-8	\$17,776,495	\$1,431,966	8%	\$1,481,305	8%
2008	Hillsborough	Middle	Smith Middle	\$20,160,152	\$969,246		\$2,010,000	10%
2008	Lee	Middle	Oak Hammock Middle School	\$24,359,562	\$623,895	3%	\$1,932,445 \$1,391,187	8% 5%
2008	Marion	Middle	Liberty Middle	\$28,242,481	\$753,275	3%	\$2,077,048	7%
2008	Sarasota St. Lucie	Middle	Woodland Middle School Allapattah Flats K-8	\$31,412,195 \$34,488,744	\$3,004,145 \$2,109,609	6%	\$4,788,814	1416
2008	St. Lucie	Middle Middle	Palm Pointe Educational Research School at Tradition	524,836,235	\$1,164,091	5%	\$4,425,642	18%
2009	Okaloosa	Elem	Riverside Elementary School	\$11,716,323	\$1,448,365	12%	\$3,066,309	26%
2009	Bay	Elem	Deer Point Elementary	\$16,646,867	\$1,046,428	6%	\$1,106,071	7%
2009	Broward	Elem	Discovery Elementary (K-6)	\$24,813,884	\$1,017,051	4%	\$2,729,823	11%
2009	Broward	Elem	Heron Heights Elementary	\$25,377,383	\$1,101,087	4%	\$2,821,297	11%
2009	Charlotte	Elem	East Elementary	\$14,128,364	\$1,189,449		\$750,180	5%
2009	Collier	Elem	Eden Park Elementary (K-6)	\$19,625,793	\$743,765		\$2,824,488	
2009	Collier	Elem	Mike Davis Elementary	\$18,747,061	\$830,774		\$2,390,841	13%
2009	Duval	Elem	Bartram Springs Elementary	\$16,349,939	\$942,474 \$554,962		\$1,752,167 \$1,475,000	
2009	Hillsborough	Elem	Bailey Elementary Stowers Elementary	\$7,308,787 \$10,360,379	\$554,962		\$1,475,000	
2009	Hillsborough	Elem	Heights Elementary School	\$20,794,081	\$464,500		\$1,635,759	
2009	Lee	Elem	Lehigh Elementary School	\$15,702,253	\$641,950		\$856,087	5%
2009	Manatee	Elem	G.D. Rogers Garden Elementary	\$12,223,480			\$788,800	6%
2009	Martin	Elem	Citrus Grove Elementary	\$21,130,325	\$1,067,331		\$1,280,297	6%
2009	Orange	Elem	Keene's Crossing Elementary School	\$12,452,304	\$515,371	4%	\$1,196,557	10%
2009	Osceola	Elem	KOA Elementary School (Elem L)	\$12,610,702	\$621,750		\$1,787,818	
2009	Oscepia	Elem	Narcoossee Elementary (ES M)	\$14,770,196			\$1,800,412	12%
2009	Palm Beach	Elem	C.O. Taylor/Kirklane Elementary	\$35,663,420			\$1,013,080	
2009	Palm Beach	Elem	Hope-Centennial Elementary	525,030,950	\$2,092,633	8%	\$868,294	3%

Table C-4 (Continued) Architectural/Civil Design and FF&E Cost Analysis Brevard County and Other Florida Jurisdictions

Year	District	Туре	Facility Name	Construction Cost	Architect & Eng Fees	Ratio of Architect & Eng Fees to Construction Cost	FF&E	Ratio of FF&E t Construction Cost
2009	Palk	Elem	Spessard Holland Elementary	\$15,642,049	\$572,492	4%	\$1,508,553	10
2009	Sarasota	Elem	Atwater Elementary School	\$12,524,430	\$1,802,665	14%	\$651,817	
2009	Volusia	Elem	Champion Elementary	\$14,696,164	\$725,513	5%	\$950,364	
2009	Wakulla	Etem	Riversink Elementary	\$15,363,460	\$817,426	5%	\$967,599	
2009	Washington	Elem	Vernon Elementary School	56,259,105	\$492,392	8% 5%	\$358,000	
2009	Brevard	High	Satellite High School	\$4,736,903 \$57,088,946	\$225,000 \$2,328,706	4%	\$5,470,874	10
2009	Brevard	High	Heritage High School Steinbrenner High School	\$38,437,165	\$1,588,553	4%	\$4,945,000	13
2009	Hillsborough	High	Strawberry Crest High School	\$43,204,430	\$3,051,138	7%	\$4,945,000	1:
2009	Orange	High	East River High School	\$58,970,282	\$1,860,628	3%	\$5,304,005	
2009	Orange	High	Lake Nona High School	\$60,857,702	\$1,721,299	3%	\$5,217,696	9
2009	Sarasota	High	Suncoast Polytechnical High School	\$11,730,040	\$1,030,406	9%	\$2,160,265	18
2009	Walton	High	Walton Senior High	\$35,764,000	\$1,992,342	6%	\$645,000	
2009	Okaloosa	Middle	Shoal River Middle School	\$12,779,256	\$1,297,594	10%	\$3,229,106	2
2009	Duval	Middle	Westview K-8	529,119,287	\$2,600,719	9%	\$3,013,790	1
2009	Hernando	Middle	Explorer K-8	\$41,212,410	\$1,748,584	4%	\$3,220,587	
2009	Hillsborough	Middle	Barrington Middle School	\$15,315,050	\$961,428	6%	\$2,259,000	10
2009	Indian River	Middle	Storm Grove Middle School	\$34,106,673	\$2,205,007	6%	\$4,191,001	1
2009	Lake	Middle	East Ridge Middle School	\$27,281,965	\$1,283,420	5% 6%	\$2,491,107	1
2009	Osceola	Middle	Westside K-8 School	\$23,051,370	\$1,363,350 \$3,004,145	10%	\$2,077,048	- 3
2009	Sarasota	Middle	Woodland Middle School	\$31,412,195 \$25,277,687	\$971,288	4%	\$1,197,445	
2009	St. Johns Broward	Middle Elem	Liberty Pines Academy (K-B) Norcrest Elementary	522,286,245	\$885,319	4%	\$1,257,845	9
2010	Collier	Elem	Palmetto Elementary	\$20,224,743	\$889,743	4%	\$2,671,470	1
2010	Lake	Elem	Sorrento Elemenatry	\$15,842,160	\$668,339	4%	\$1,896,206	1
2010	Orange	Elem	Old Cheney/North Forsyth Elementary	512,096,899	\$783,588	6%	\$987,926	
2010	Osceola	Elem	East Lake Elementary	\$11,747,305	\$\$37,980	5%	\$1,885,002	1
2010	Palm Beach	Elem	Everglades Elementary	\$15,940,134	\$1,863,296	12%	\$1,075.126	
2010	Palm Beach	Elem	Northboro Elementary	\$24,168,146	\$1,990,621	8%	\$780,037	
2010	Palm Beach	Elem	Plumosa Elementary	\$21,038,789	\$2,075,316	10%	5715,049	
2010	Seminole	Elem	New Midway Elementary	\$12,297,322	\$810,700	7%	\$1,133,007	
2010	Clay	High	Oakleaf High	550,819,745	\$2,562,240	5%	\$3,064,772	- 1
2010	Doval	High	Atlantic Coast High	\$50,466,294	\$5,220,136	10%	\$5,048,820	- 1
2010	Hernando	High	Weeki Watchee High	\$33,006,787	\$1,939,097 \$5,999,998	6% 8%	\$4,719,813 \$4,377,536	
2010	Sarasota	High	Riverview High	\$78,561,000 \$9,843,413	\$5,999,998 \$795,386	8%	\$1,312,405	1
2010	Collier	High	Lorenzo Walker Institute of Technology High	570,267,621	\$2,112,349	3%	\$4,733,044	
2010	Palm Beach	High High	Apopka H5 Replacement Palm Beach Gardens Community High	575,097,581	\$3,829,735	5%	\$3,330,581	
2010	Palm Beach	High	Suncoast High	\$59,972,270	\$3,938,916	7%	\$2,280,000	
2010	Volusia	High	University High	\$72,990,143	\$3,092,214	4%	\$6,096,162	
2011	Charlotte	Elem	Meadow Park Elementary	\$12,696,116	5944,273	7%	\$674,842	
2011	Duval	Elem	Waterleaf Elementary	\$14,882,021	\$1,621,628	11%	\$1,899,236	1
2011	Escambia	Elem	Global Learning Academy	\$17,019,155	\$1,682,415	10%	\$2,861,931	1
2011	Osceola	Elem	Highlands Elementary	\$14,534,309	\$666,978	5%	\$1,650,318	1
2011	Pasco	Elem	Connerton Elementary "R"	\$11,598,590	\$858,671	7%	\$1,298,389	
2011	Calhoun	High	Blountstown High	\$19,407,910	\$1,968,893	10%	\$994,719	
2011	Charlotte	High	Charlotte High	\$61,755,842	\$6,502,129	11%	\$2,676,408	
2011	Broward	High	Lanier James Education Center	\$8,889,147	\$1,075,459	12% 10%	\$1,304,137 \$757,496	i
2011	Dade	High	International Studies SHS	\$7,192,325 \$9,303,705	\$684,965 \$762,932	8%	\$919,966	1
2011	Dade	High	Medical Academy or Science and Technology Okeechobee Achievement Academy	\$5,499,975	\$453,761	8%	\$427,114	
2011	Okeechobee	High High	Auburndale Senior	\$19,522,053	\$1,462,146	7%	\$3,124,050	1
2011	Polk	High	Davenport School of the Arts	\$29,136,512	\$1.042.674	4%	\$2,330,971	
2011	Polk	High	Kathleen Senior	\$24,323,662	\$875,094	4%	\$2,267,250	
2011	Polk	High	Winter Haven Senior	\$26,374,234	\$853,483	3%	\$2,360,389	
2011	Dade	Middle	North Dade Middle	\$18,921,534	\$867,900	5%	\$1,122,762	
2011	Hernando	Middle	Winding Waters K-8	\$14,559,177	5880,709	6%	\$4,279,500	
2011	Orange	Middle	Lake Nona Middle	516,923,455	\$1,277,253	8%	\$1,795,567	
2011	Polk	Middle	Boone Middle	\$17,900,963	\$1,080,157	6%	\$1,331,348	
2011	Walton	Middle	Emerald Coast Middle	\$15,918,884	\$1,709,689	11%	\$700,000	
2012	Alachua	Elem	Meadowbrook Elementary	\$12,388,973	\$1,010,997	8% 9%	\$1,974,896 \$1,342,512	
2012	Indian River	Elem	Vero Beach Elementary	\$17,243,103 \$16,021,554	\$1,476,006 \$214,042	1%	\$1,342,512 \$1,487,461	
2012	Lee	Elem	Tortuga Preserve SunRidge Elementary	\$10,031,097	\$580,395	6%	\$951,358	
2012	Orange St. Johns	Elem	Palencia Elementary	\$12,677,682	\$956,170	8%	\$1,500,000	
2012	Volusia	Elem	Citrus Grove Elementary	\$13,854,183	\$1,098,765	8%	\$1,555,729	
2012	Collier	Middle	Bethune Education Center	\$5,538,155	\$561,233	10%	\$734,057	
2012	Dade	Middle	North Dade Middle	518,921,534	\$867,900	5%	\$1,122,762	
2012	tee	Middle	Hams Marsh Middle	\$23,750,925	\$721,076	3%	\$1,814,273	
2012	Orange	Middle	SunRidge Middle	\$23,617,116	\$1,137,698	5%	\$1,591,755	
2012	Dade	High	International Studies SHS	\$7,192,325	\$684,965	10%	\$757,496	
2012	Dade	High	Medical Academy or Science and Technology	\$9,303,705	\$762,932	8%	\$919,968	
2012	Orange	High	Evans High	555,507,691	\$3,568,884	6%	\$3,743,130	
2012	St. Lucie	High	Lincoln Park Academy	\$10,928,736	\$1,623,543	15%	\$3,246,193	
2013	Marion	Elem	Legacy Elementary	\$14,047,310		5%	51,680,825	
2013	Orange	Elem	Sun Blaze Elementary	\$10,269,207	\$587,445	6%.	\$1,035,369	
2013	Orange	Elem	Hackney Prairies Road Area Elementary	\$11,261,094	\$890,931	8%	\$1,057,127	
	Palm Beach	Elem	Galaxy Elementary	519,780,288	\$1,804,129	9%	\$1,586,590	

Table C-4 (Continued) Architectural/Civil Design and FF&E Cost Analysis Brevard County and Other Florida Jurisdictions

Year	District	Туре	Facility Name	Construction Cost	Architect & Eng Fees	Ratio of Architect & Eng Fees to Construction Cost	FF&E	Ratio of FF&E to Construction Cost
2013	Monroe	Middle	Horace O'Bryant	\$30,596,297	\$3,221,414	11%	\$1,320,362	4%
2013	lake	High	Lake Minneola High	\$46,974,201	\$3,030,934	6%	\$6,483,383	14%
2013	Martin	High	Martin County High	\$7,623,316	\$1,274,200	17%	\$419,893	6%
Total/We	ighted Average			\$3,749,869,824	\$213,105,493	6%	\$318,643,622	8%
			unty Schools ONLY)	\$61,825,849	\$2,553,706	4%	\$5,828,874	9%
			revard County Schools)	\$3,688,043,975	\$210,551,787	6%	\$312,814,748	8%

Source: Florida Department of Education

Table C-5
Site Development Cost Analysis
Brevard County and Other Florida Jurisdictions

Year	District	Түре	Facility Name	Construction Cost	Site Improv/Devel	Ratio of Site Development to Construction Cost
2008	Leon	Elem	Conley Elementary School	\$22,234,866	\$1,363,038	6%
2008	Broward	Elem	Colbert Elementary	\$3,576,065	\$54,751	2%
2008	Charlotte	Elem	Peace River Elementary School	\$16,470,888	\$2,026,353	12%
2008	Citrus	Elem	Central Ridge Elementary	\$20,066,027	\$3,200	0%
2008	Clay	Elem	Plantation Oaks Elementary	\$15,709,595	\$2,001,795	13%
2008	Collier	Elem	Parkside Elementary	\$21,099,395	\$609,364	3%
2008	Collier	Elem	Veterans Memorial Elementary	\$16,957,004	\$554,493	3%
2008	Highlands	Elem	Memorial Elementary	\$10,296,575	\$2,623,522	25%
2008	Hillsborough	Elem	Kimbell Elementary	\$10,540,220	\$798,597 \$692,203	8% 5%
2008	Hillsborough	Elem	Reddick Elementary	\$13,342,791	\$705,540	3%
2008	Lee	Elem	Heights Elementary School Treeline Elementary School	\$21,224,842 \$15,989,080	\$1,494,920	9%
2008	Lee	Elem Elem	Conway Elementary School	\$10,376,998	\$500,000	5%
2008	Orange Orange	Elem	Lakemont Elementary School	\$12,830,008	\$300,967	29
2008	Orange Orange	Elem	Timber Lakes Elementary School	\$12,465,522	\$1,601,516	13%
2008	Orange	Elem	Westbrooke Elementary School	\$13,259,968	\$1,145,801	9%
2008	Osceola	Elem	Flora Ridge Elementary	\$15,804,425	\$684,259	4%
2008	Osceola	Eiem	New ES "J" (Harmony Community)	\$13,632,941	\$1,300,802	10%
2008	Palm Beach	Elem	Allamanda Elementary	\$23,238,839	\$2,192,788	9%
2008	Palm Beach	Elem	Forest Park Elementary	\$24,150,475	\$3,842,794	16%
2008	Palm Beach	Elem	Hagen Ranch Elementary	\$22,672,614	\$4,135,688	18%
2008	Palm Beach	Elem	Palm Beach Gardens Elementary	\$22,077,886	\$3,007,648	14%
2008	Palm Beach	Elem	Pine Jog Elementary	\$29,144,023	\$2,874,817	10%
2008	Palm Beach	Elem	Westward Elementary	\$27,207,724	\$705,832	3%
2008	Palm Beach	Elem	Sunset Palms Elementary	\$24,576,913	\$1,359,139	69
2008	Pasco	Elem	New River Elementary "M"	\$11,301,689	\$2,134,030	19%
2008	Pinellas	Elem	New Heights Elementary	\$22,910,850	\$2,778,418	129
2008	Pinellas	Elem	Tarpon Springs Elementary	\$19,675,615	\$2,740,407	149
2008	Volusia	Elem	Pride Elementary ("Y")	\$14,935,273	\$1,296,294	9%
2008	Walton	Elem	Mossy Head School	\$18,827,427	\$32,000	09
2008	St. Lucie	High	Ft_ Pierce Central High School	\$63,908,401	\$5,309,308	89
2008	Broward	High	West Broward High	\$74,974,472	\$149,041	- 0%
2008	Franklin	High	Franklin County Schools	\$22,955,575	\$500,000	29
2008	Lee	High	Island Coast High School	\$41,559,854	\$5,418,852	13%
2008	Pasco	High	Wiregrass Ranch High School "CCC"	\$22,880,482	\$4,536,580	20%
2008	Sarasota	High	Suncoast Polytechnical High School	\$11,730,040	\$1,463,101	129
2008	Leon	Middle	Montford Middle School	\$22,008,118	\$39,230	09
2008	Bay	Middle	Breakfast Point Academy K-8	\$25,975,683	\$3,838,363	15%
2008	Charlotte	Middle	Punta Gorda Middle School	\$23,896,506	\$2,968,607	129
2008	Collier	Middle	Cypress Palm Middle	\$26,535,164	\$619,584 \$98,219	19
200B	Collier	Middle	Marco Charter Middle	\$14,450,518 \$25,222,118	\$450,000	29
2008	Duval	Middle	North Shore K-8	\$17,776,495	\$1,168,123	79
2008 2008	Flagler Hillsborough	Middle Middle	Bunnell K-8 Smith Middle	\$20,160,152	\$932,385	59
2008	Lee	Middle	Oak Hammock Middle School	\$24,359,562	\$885,000	49
2008	Marion	Middle	Liberty Middle	\$28,242,481	\$3,687,549	139
2008	Sarasota	Middle	Woodland Middle School	\$31,412,195	\$6,909,752	229
2008	St. Lucie	Middle	Allapattah Flats K-8	\$34,488,744	\$3,351,476	109
2008	St. Lucie	Middle	Palm Pointe Educational Research School at Tradition	\$24,836,235	\$4,993,386	209
2009	Okaloosa	Elem	Riverside Elementary School	\$11,716,323	\$2,148,260	189
2009	Bay	Elem	Deer Point Elementary	\$16,646,867	\$1,711,350	109
2009	Broward	Elem	Discovery Elementary (K-6)	\$24,813,884		09
2009	Charlotte	Elem	East Elementary	\$14,128,364	\$1,389,286	109
2009	Collier	Elem	Eden Park Elementary (K-6)	\$19,625,793	\$2,083,000	119
2009	Collier	Elem	Mike Davis Elementary	\$18,747,061	\$1,722,320	99
2009	Duval	Elem	Bartram Springs Elementary	\$16,349,939	\$1,427,211	99
2009	Hillsborough	Elem	Bailey Elementary	\$7,308,787	\$753,646	109
2009	Hillsborough	Elem	Stowers Elementary	\$10,360,379	\$941,642	99
2009	Lee	Elem	Heights Elementary School	\$20,794,081	\$220,848	19
2009	Lee	Elem	Lehigh Elementary School	\$15,702,253	\$679,758	49
2009	Manatee	Elem	G.D. Rogers Garden Elementary	\$12,223,480		89
2009	Martin	Elem	Citrus Grove Elementary	\$21,130,325	\$722,012	39
2009	Orange	Elem	Keene's Crossing Elementary School	\$12,452,304	\$1,487,617	129
2009	Osceola	Elem	KOA Elementary School (Elem L)	\$12,610,702	\$1,874,555	159

Table C-5 (Continued) Site Development Cost Analysis

Brevard County and Other Florida Jurisdictions

						Ratio of Site			
Year	District	Туре	Facility Name	Construction Cost	Site Improv/Devel	Development to Construction Cost			
2009	Osceola	Elem	Narcoossee Elementary (ES M)	\$14,770,196	\$631,727	4%			
2009	Palm Beach	Elem	C.O. Taylor/Kirklane Elementary	\$35,663,420	\$3,628,916	10%			
2009	Palm Beach	Elem	Hope-Centennial Elementary	\$25,030,950	\$2,733,790	11%			
2009	Sarasota	Elem	Atwater Elementary School	\$12,524,430	\$4,737,875	389			
2009	Volusia	Elem	Champion Elementary	\$14,696,164	\$1,615,729	119			
2009	Wakulla	Elem	Riversink Elementary	\$15,363,460	\$1,300,000	89			
2009	Washington	Elem	Vernon Elementary School	\$6,259,105	\$450,421	79			
2009	Brevard	High	Satellite High School	\$4,736,903	\$307,888	69			
2009	Brevard	High	Heritage High School	\$57,088,946	\$9,834,384	179			
2009	Hillsborough	High	Steinbrenner High School	\$38,437,165	\$4,391,015	119			
2009	Hillsborough	High	Strawberry Crest High School	\$43,204,430	\$3,443,506	89			
2009	Orange	High	East River High School	\$58,970,282	\$10,333,793	189			
2009	Orange	High	Lake Nona High School	\$60,857,702	\$7,186,702	129			
2009	Sarasota	High	Suncoast Polytechnical High School	\$11,730,040	\$1,463,101	129			
2009	Walton	High	Walton Senior High	\$35,764,000	\$50,000	09			
2009	Okaloosa	Middle	Shoal River Middle School	\$12,779,256	\$2,170,119	179			
2009	Duval	Middle	Westview K-8	\$29,119,287	\$1,708,817	69			
2009	Hernando	Middle	Explorer K-8	\$41,212,410	\$1,200,000	39			
2009	Hillsborough	Middle	Barrington Middle School	\$16,315,050	\$1,368,167	89			
2009	Indian River	Middle	Storm Grove Middle School	\$34,106,673	\$6,629,160	199			
2009	Lake Middle East Ridge Middle School Osceola Middle Westside K-8 School			\$27,281,965	\$599,565	29			
2009			- Contract of the Contract of	\$23,051,370	\$2,162,558	99			
2009	Sarasota	Middle	Woodland Middle School	\$31,412,195	\$6,909,752	22%			
2010	Broward	Elem	Norcrest Elementary	\$22,286,245	\$37,949	0%			
2010	Collier	Elem	Palmetto Elementary	\$20,224,743	\$2,440,985	12% 0% 15%			
2010	Lake	Elem	Sorrento Elemenatry		\$48,712				
2010	Orange	Elem							
2010	Osceola	Elem	East Lake Elementary						
2010	Palm Beach	Elem	Everglades Elementary	\$15,940,134	\$1,255,467 \$2,286,725	11% 14% 6%			
2010	Palm Beach	Elem	Northboro Elementary	\$24,168,146	\$1,482,606				
2010	Palm Beach	Elem	Plumosa Elementary	\$21,038,789	\$1,967,540	9%			
2010	Clay	High	Oakleaf High	\$50,819,745	\$274,000	19			
2010	Duval	High	Atlantic Coast High	\$50,466,294	\$7,648,460	159			
2010	Sarasota	High	Riverview High	\$78,561,000	\$14,665,000	199			
2010	Collier	High	Lorenzo Walker Institute of Technology High	\$9,843,413	\$287,278	39			
2010	Orange	High	Apopka HS Replacement	\$70,267,621	\$9,439,283	139			
2010	Palm Beach	High	Palm Beach Gardens Community High	\$75,097,581	\$10,693,532	149			
2010	Palm Beach	High	Suncoast High	\$59,972,270	\$9,785,603	169			
	Volusia	High	University High	\$72,990,143	\$12,232,947	179			
2010		Elem	Meadow Park Elementary	\$12,696,116		149			
2011	Charlotte	Elem	Waterleaf Elementary	\$14,882,021	\$1,361,500	99			
		Elem	Global Learning Academy	\$17,019,155	\$200,000	19			
2011	Escambia	Elem	Highlands Elementary	\$14,534,309	\$1,293,639	99			
2011	Osceola		Connerton Elementary "R"	\$11,598,590		209			
2011	Pasco	Elem	Blountstown High	\$19,407,910		79			
2011	Calhoun	High	Charlotte High	\$61,755,842	\$7,904,370	139			
2011	Charlotte	High	Lanier James Education Center	\$8,889,147	\$918,943	109			
2011	Broward	High		\$5,499,975		05			
2011	Okeechobee	High	Okeechobee Achievement Academy Emerald Coast Middle	\$15,918,884	\$1,717,116	119			
2011	Walton	Middle		\$12,388,973	\$86,278	19			
2012	Alachua	Elem	Meadowbrook Elementary	\$17,243,103					
2012	Indian River	Elem	Vero Beach Elementary	\$16,021,554					
2012	Lee	Elem	Tortuga Preserve	\$10,031,097	\$1,296,632	13'			
2012	Orange	Elem	SunRidge Elementary	\$12,677,682					
2012	St. Johns	Elem	Palencia Elementary	\$13,854,183		3'			
2012	Volusia	Elem	Citrus Grove Elementary	\$5,538,155		9			
2012	Collier	Middle	Bethune Education Center	\$18,921,534					
2012	Dade	Middle	North Dade Middle	\$18,921,534					
2012	Lee Orange	Middle Middle	Hams Marsh Middle SunRidge Middle						
2012		Middle	I Sunwinge Middle	\$23,617,116	21,021,252	4			

Table C-5 (Continued) Site Development Cost Analysis

Brevard County and Other Florida Jurisdictions

Year	District	Туре	Facility Name	Construction Cost	Site Improv/Devel	Ratio of Site Development to Construction Cost
2012	Dade	High	Medical Academy or Science and Technology	\$9,303,705	\$0	09
2012	Orange	High	Evans High	\$55,507,691	\$2,151,931	49
2012	St. Lucie	High	Lincoln Park Academy	\$10,928,736	\$7,901,452	729
2013	Marion	Elem	Legacy Elementary	\$14,047,310	\$477,607	39
2013	Orange	Elem	Sun Blaze Elementary	\$10,269,207	\$658,487	69
2013	Orange	Elem	Hackney Prairies Road Area Elementary	\$11,261,094	\$657,635	69
2013	Palm Beach	Elem	Galaxy Elementary	\$19,780,288	\$1,929,530	109
2013	Palm Beach	Elem	Gove Elementary	\$23,540,256	\$1,284,903	59
2013	Monroe	Middle	Horace O'Bryant	\$30,596,297	\$2,740,572	99
2013	Lake	High	Lake Minneola High	\$46,974,201	\$13,992	09
2013	Martin	High	Martin County High	\$7,623,316	\$536,994	79
	ighted Average			\$3,163,588,459	\$307,453,330	109
		Brevard Co	unty Schools ONLY)	\$61,825,849	\$10,142,272	169
			revard County Schools)	\$3,101,762,610	\$297,311,059	109

Source: Florida Department of Education

Land Value Analysis

To estimate the current land value the following analysis is conducted:

- A review of current market value of land from the Property Appraiser database where the existing schools are located;
- An analysis of vacant land sales in Brevard County over the past three years for parcels of necessary size;
- An analysis of market value of all vacant land from the Property Appraiser database for parcels of necessary size and similar location;
- Discussions with the District's Facilities Management Services Division and its appraisers.

Results of this analysis suggested that the land values tend to vary significantly in Brevard County depending on location. Future land purchases of the District are likely to occur in central Brevard County/West Melbourne area. In addition, the District is likely to purchase property from existing Developments of Regional Impact (DRIs) such as the Viera Corporation or Sawgrass Development. Most recent land purchases (paid in terms of impact fees) from the Viera Corporation ranged from \$39,000 to \$127,000 per acre. Discussions with the appraisers who work with the District suggested that the future cost of land for new schools could easily reach up to \$120,000 per acre in the DRIs, while the estimates for land outside the DRIs in central Brevard County ranged from \$40,000 per acre to \$60,000 per acre. Given this information, a unit cost of \$50,000 per acre is found to be a reasonable estimate for impact fee calculation purposes.

APPENDIX D Transportation Impact Fee: Demand Component Calculations

Demand Component

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

Interstate & Toll Facility Discount Factor

Table D-1 presents the interstate and toll facility discount factor used in the calculation of the transportation impact fee. This variable is based on data from the Central Florida Regional Planning Model, specifically the 2035 projected vehicle miles of travel, accounting for roadway improvements included in the 2035 Long Range Transportation Plan. It should be noted that discount factor excludes external-to-external trips, which represent traffic that goes through Brevard County, but does not necessarily stop in the county. This traffic is excluded from the calculations since it does not come from development within the county. The I/T discount factor is used to reduce the VMT that the impact fee charges for each land use.

Table D-1
Interstate/Toll Facility Discount Factor

Roadway	VMT (2035)	% VMT
Interstate 95	3,418,783	17.3%
Other Roads	16,290,259	82.7%
Total (All Roads)	19,709,042	100.0%
Total (Interstate/Toll Roads)	3,418,783	17.3%

Source: Central Florida Regional Planning Model v5.01

Demand Variable Changes

Since the 2000 technical study, the trip generation rate, trip length, and percent new trips values have changed for several land uses. Land uses were updated based on additional data included in the Florida Studies Database since 2000 and the use of the ITE 9th Edition Trip Generation Reference Report. Table D-2 presents the percent changes in gross VMT (combination of trip generation, trip length, and percent new trips) for each land use in the transportation impact fee schedule as well as an explanation for the change.

Table D-2
Percent VMT Change for Transportation Impact Fee Land Uses

TE LUC	Land Use	Unit	Gross VMT 2000 Report	Gross VMT 2015 Report	% Change	Explanation
	RESIDENTIAL:				Name of Street	
210	Single Family (Detached)	ď	27.27	25.85	-5,2%	TGR decreased by 18% due to the use of FL Studies and TL increased by 16% due to new TCS data available since 2000
220	Multi-Family (Apartment): 1-2 Stories	du	16.80	16.83	0.2%	TGR increased by 0.2% due to rounding
222/223		du	14,94	10,56	-29.3%	TGR decreased by 29% due to the use of a blend of the ITE 9th Edition trip generation rates for mid-rise and high-rise apartments
231	Condo/Duplex/Townhouse; 1-2 Stories	dи	16,80	19.89	18.4%	This land use was not included in the 2000 study. Brevard County has been charging this land use using "Multi-Family, 1-2 stories" as a proxy. For this update, the TGR has been updated to reflect the ITE 9th Edition TGR for this specific land use category
232	Condo/Duplex/Townhouse; 3+ Stories	du	14,94	10.66	-28.6%	This land use was not included in the 2000 study. Brevard County has been charging this land use using "Multi-Family, 3+ stories" as a proxy, For this update, the TGR has been updated to reflect the ITE 9th Edition TGR for this specific land use category
240	Mobile Home Park	dυ	10.34	9,59	-7.3%	TGR decreased by 13% due to the use of FL Studies and TL increased by 7% due to new TCS data available since 2000
253	Congregate Care Facility/ALF	dυ	2.40	2.49	3.8%	TGR increased by 5% due to a blending analysis of the ITE 9th Edition and FL Studies data. TL decreased by 0.6% due to rounding
	LODGING:				A SOL	
310	Hotel	room	17.11	13,14	-23.2%	TGR decreased by 23% due to a blending analysis of the ITE 9th Edition and FL Studies data. TL decreased by 0.6% due to rounding
320	Motel	room	9,32	9.41	1.0%	TL increased by 1% due to rounding
	RECREATION:					
416	RV Park	site	10.34	3.73	-63.9%	The RV Park land use was previously grouped with the Mobile Home Park land use
420	Marina	boat berth	40,50	8.82	n/a	This land use was charged per "acre" in the 2000 study, but will be charged per "boat berth" moving forward. Therefore, a comparison of TGR is not applicable. TL increased by \$4% due to the use of the "Single Family" land use as a proxy
430	Golf Course	hole	72,37	106.47	47.1%	TL increased by 47% due to the use of the "Single Family" land use as a proxy
444	Movie Theater w/Matinee	screen	0.28	104,16	n/a	This land use was charged per "seat" in the 2000 study, but will be charged per "screen" moving forward. Therefore, a comparison of TGR is not applicable. TL increased by 1% and PNT decreased by 1% due to rounding
491	Racquet/Tennis Club	court	60,06	93,67	56.0%	TGR increased by 25% due to an update to the ITE 9th Edition Handbook. TL increased by 20% based on the use of the "Office" land use as a proxy. PNT increased by 4% due to the use of the "Health/Fitness Club" land use as a proxy
492	Health/Fitness Club	1,000 sf	36,25	79.71	119.9%	TGR increased by 92% due to an update to the ITE 9th Edition Handbook. TL increased by 14% based on the use of the "Office" land use as a proxy.
0.00 40.00 1	INSTITUTIONS:					
520	Elementary School (Private)	student	1,72	2,22	29.1%	TGR increased by 29% due to an update to the ITE 9th Edition Handbook.
522	Middle School (Private)	student	1,94	3.13	61.3%	TGR increased by 62% due to an update to the ITE 9th Edition Handbook.
530	High School (Private)	student	2.71	3.31	22.1%	TGR increased by 22% due to an update to the ITE 9th Edition Handbook
540	University/Jr College (7,500 or fewer students) (Private)	student	5.26	5.96	13.3%	TGR increased by 25% due to the use of an ITE regression analysis. TL decreased by 9%

Table D-2 (continued)
Percent VMT Change for Transportation Impact Fee Land Uses

TGR decreased by 0.4% due to the use of the ITE 9th Edition equation and an end-point analysis. TL increased by 21% and PNT decreased by 3% due to new TCS data available since 2000 TGR decreased by 13% due to the use of the ITE 9th Edition equation and an end-point analysis. TL increased by 26% and PNT increased by 11% due to new TCS data available since 2000					
TGR decreased by 0.4% due to t 16.3% analysis. TL increased by 21% since 2000	6 41.36	34.06	1,000 sfgla	Retail 100,001-300,000 sfgla	
	5 48,21	a 41.45	1,000 sfgla	Retail 50,001-100,000 sfgla	820
TGR decreased by 0,9% due to the use of the ITE 9th Edition equation and an end-point analysis. TL increased by 4% and PNT increased by 17% due to new TCS data available since 2000	2 45,32	a 37.72	1,000 sfgla	Retail 10,001-50,000 sfgla	
TGR decreased by 0,9% due to the use of the ITE 9th Edition equation and an end-point 4 -37,3% analysis. TL decreased by 29% and PNT decreased by 10% due to new TCS data available since 2000	2 23,64	a 37,72	1,000 sfgla	Retail 10,000 sfgla or less	
	102820	W 77 W	900	RETAIL:	
-1.5%	7 38.27	38.87	1,000 sf	Office Park	750
TGR decreased by 4% due to an analysis of the ITE 9th Edition data. TL increased by 7% and PNT increased by 2% due to the use of FL Studies data	3 85,75	81,73	1,000 sf	Medical Office/Clinic greater than 10,000 sf	720
-28.0%	3 58.85	81.73	1,000 sf	Medical Office/Clinic 10,000 sf or less	
-36,3%	4 20.23	31.74	1,000 sf	General Office greater than 400,000 sf	
-29.8%	4 22,29	31,74	1,000 sf	General Office 200,001-400,000 sf	
-17.0%	4 26.34	31.74	1,000 sf	General Office 100,001-200,000 sf	710
-2,0%	4 31,10	31,74	1,000 sf	General Office 50,001-100,000 sf	
TGR increased by 17% due to the use of the ITE 9th Edition equation and an end-point analysis. TL decreased by 1% due to rounding	4 36,72	31.74	1,000 sf	General Office 50,000 sf or less	
				OFFICE:	
-5.0% TL decreased by 5% due to roun	5 21,81	22,96	1,000 sf	Animal Hospital/Veterinary Clinic	640
5.3%	3,18	3,02	bed	Nursing Home	620
9 0.3% TGR decreased by 21% due to an update to the ITE 9th Edition Handbook. TL increased by 21% due to the use of the "Single Family" land use as a proxy	33,69	33.59	1,000 sf	Hospital	610
-29.2%	2 53,26	75,22	1,000 sf	Day Care Center	565
0.0%	15.99	15.99	1,000 sf	Church	560
-43,3% TGR decreased by 43% due to the use of an ITE regression analysis., TL decreased by 9% due to the use of the "Single Family" land use as a proxy	4,47	7.88	student	University/Jr College (more than 7,500 students) (Private)	550
				INSTITUTIONS:	N. N. S.
MT % Change Explanation	port 2015 Report	2000 Report	Unit	Land Use	LLE LUC

Table D-2 (continued)
Change for Transportation Impact Fee

	Percent \	'MT Char	nge for Tr	ansportat	tion Im	Percent VMT Change for Transportation Impact Fee Land Uses
ITE LUC	Land Use	Unit	Gross VMT 2000 Report	Gross VMT 2014 Report	% Change	Explanation
	RETAIL:		The state of the s			
	Retail 500,001-1,000,000 sfg/a	1,000 sfgla	37.40	41.03	9.7%	TGR decreased by 27% due to the use of the ITE 9th Edition equation and an end-point analysis. TL increased by 39% and PNT increased by 8% due to new TCS data available since 2000
820	Retail greater than 1,000,000 sfgla	1,000 sfg a	37.40	41.66	11.4%	TGR decreased by 32% due to the use of the ITE 9th Edition equation and an end-point analysis. TL increased by 49% and PNT increased by 9% due to new TC5 data available since 2000
841	New/Used Auto Sales	1,000 sf	68.74	51,33	-25.3%	TGR decreased by 25% due to a blending analysis of the ITE 9th Edition and FL Studies data. TL decreased by 2% based on an update to the FL Studies database weighted average TL calculation. PNT decreased by 1% due to rounding
850	Supermarket	1,000 sf	72.59	60.21	-17.1%	TGR decreased by 7% due to a blending analysis of the ITE 9th Edition and FL Studies data. TL decreased by 1% due to rounding. PNT decreased by 10% due to the use of FL Studies data
851	Convenience Market (24 hour)	1,000 sf	226.93	224.10	-1.2%	TGR decreased by 3% due to a blending analysis of the ITE 9th Edition and FL Studies data. TL increased by 1% due to rounding
853	Convenience Market w/Gasoline	1,000 sf	147.62	163.86	11.0%	TGR increased by 21% due to a blending analysis of the ITE 9th Edition and FL Studies data. TL decreased by 6% due to new TCS data available since 2000. PNT decreased by 3% due to rounding
880/881	Pharmacy/Drug Store with or w/o Drive-Thru	1,000 sf	40	31.94	0.1	The pharmacy land use was not included in the previous study
890	Furniture Store	1,000 sf	8.33	8.32	-0.1%	TL decreased by 0.2% due to rounding
911	Bank/Savings Walk-In	1,000 sf	88.25	68.63	-22.2%	TGR decreased by 23% due to an update to the ITE 9th Edition Handbook. TL increased by 3% based on the use of the "Bank w/Drive-In" land use as a proxy. PNT decreased by 2% due to rounding
912	Bank/Savings Drive-In	1,000 sf	149.58	90.15	-39.7%	TGR decreased by 40% due to a blending analysis of the ITE 9th Edition and FL Studies data. TL increased by 3% due to new TCS data available since 2000. PNT decreased by 2% due to rounding.
931	Quality Restaurant	1,000 sf	107.36	110.13	2.6%	TGR increased by 1% due to a blending analysis of the ITE 9th Edition and FL Studies data. TL increased by 1% due to rounding
932	High-Turnover Restaurant	1,000 sf	147.48	131.22	-11.0%	TGR decreased by 11% due to a blending analysis of the ITE 9th Edition and FL Studies data. TL increased by 2% and PNT decreased by 2% due to new TCS data available since 2000
934	Fast Food Rest. w/Drive-Thru	1,000 sf	234.17	303.79	29.7%	TGR increased by 3% due to a blending analysis of the ITE 9th Edition and FL Studies data. TL increased by 28% and PNT decreased by 2% due to new TCS data available since 2000
942	Automobile Care Center	1,000 sf	48.73	40.96	-15.9%	TGR decreased by 16% due to a blending analysis of the ITE 9th Edition and FL Studies data. TL increased by 1% due to rounding
944/946	Gasoline/Service Station with or w/o Car Wash	fuel pos.	28.11	34.38	22.3%	TGR decreased by 16% due to a blending analysis of the ITE 9th Edition for LUC 944 and LUC 946. TL increased by 31% based on an update to the FL Studies database weighted average TL calculation
947	Self-Service Car Wash	service bay	73.14	32.57	-55.5%	TGR decreased by 59% due to a blending analysis of the ITE 9th Edition and FL Studies data. TL increased by 9% and PNT decreased by 1% due to new TCS data available since 2000

Table D-2 (continued)

	Percent	VMT Cha	nge for Tr	ansportat	ion Im	Percent VMT Change for Transportation Impact Fee Land Uses
TE LUC	Land Use	Unit	Gross VMT 2000 Report	Gross VMT Gross VMT 2000 Report 2014 Report	% Change	Explanation
	INDUSTRIAL:			The second second		
110	General Light Industrial	1,000 sf	19,54	16.51	-15.5%	TL decreased by 18% and PNT increased by 3% based on the use of the "Office" land use as a proxy
120	General Heavy Industrial	1,000 sf	(6)	3.55		The heavy industrial land use was not included in the previous study
150	Warehousing	1,000 sf	13.91	8.43	-39.4%	TGR decreased by 28% due to an update to the ITE 9th Edition Handbook. TL decreased by 18% and PNT increased by 3% based on the use of the "Office" land use as a proxy
151	Wini-Warehouse	1,000 sf	3.45	3.07	-11.0%	TGR decreased by 14% due to a blending analysis of the ITE 9th Edition and FL Studies data. PNT increased by 3% based on the use of the "Office" land use as a proxy

TGR = Trip Generation Rate
TL = Trip Length
PNT = Percent New Trips
TCS = Trip Characteristics Studies (FL Studies)

Florida Studies Trip Characteristics Database

The Florida Studies Trip Characteristics Database includes over 200 studies on 40 different residential and non-residential land uses collected over the last 20 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 fees and the creation of land use plan category trip characteristics for communities throughout Florida and the U.S.

Tindale Oliver estimates trip generation rates for all land uses in a transportation impact fee schedule using data from studies in the Florida Studies Database and the Institute of Transportation Engineers' (ITE) *Trip Generation* reference report (9th edition). In instances, when both ITE *Trip Generation* reference report (9th edition) 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 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.

Mini-Warehouse (ITE LUC 151)

Location	Size (1,000 sf)	Date	Total # Interviews	#Trip Length Interviews	Trip Gen Rate	Time Period	Trip Length	Percent New Trips	VMT	Source
Orange Co., FL	107.0	7.6.1		*0	1.45				*	Orange County
Orange Co. FL	89.6	- 4			1.23			-		Orange County
Orange Co. FL	84.7				1.39		-	- 3	\$	Orange County
Orange Co. FL	93.0	140	-	•	1.51		Gen.	- 3		Orange County
Orange Co. FL	77.0	200		*1	2.18					Orange County
Total Size			5		Avera	ge Trip Length:	n/a			
ITE	784.0	1	4		Weighted Avera	ge Trip Length:	n/a			
Blended total					Weighte	Percent New	Trip Average:			

Weighted Average Trip Generation Rate: ITE Average Trip Generation Rate: Blend of FL Studies and ITE Average Trip Generation Rate: 1,53 2,50 2,15

Single-Family Detached Housing (ITE LUC 210)

Location	Size / Units	Date	Total # Interviews	#Trip Length Interviews	Trip Gen Rate	Time Period	Trip Length	Percent New Trips	VMT	Source
Gwinnett Co, GA		12/13-18/92			5.80	-	5.40	N/A	31.32	Street Smarts
Gwinnett Co, GA		12/13-18/92			5.40	- 2	6.10	N/A	32.94	Street Smarts
Sarasota Co. FL	76	Jun-93	70	70	10.03	- 2	6.00	N/A	60.18	Sarasota County
Sarasota Co, FL	79	Jun-93	86	86	9.77	- 8	4.40	N/A	42.99	Sarasota County
Sarasota Co, FL	135	Jun-93	75	75	8.05	-	5.90	N/A	47.50	Sarasota County
Sarasota Co, FL	152	Jun-93	63	63	8.55	2	7.30	N/A	62.42	Sarasota County
Sarasota Co, FL	193	Jun-93	123	123	6.85	(4)	4.60	N/A	31.51	Sarasota County
Sarasota Co, FL	97	Jun-93	33	33	13.20	*	3.00	N/A	39.60	Sarasota County
Sarasota Co, FL	282	Jun-93	146	146	6.61		8.40	N/A	55.52	Sarasota County
Sarasota Co, FL	393	Jun-93	207	207	7.76	×	5.40	N/A	41.90	Sarasota County
Hernando Co. FL	76	May-96	148	148	10.01	9a-6p	4.85	N/A	48.55	Tindale-Oliver & Associate
Hernando Co. FL	128	May-96	205	205	8.17	9а-бр	6.03	N/A	49.27	Tindale-Oliver & Associate
Hernando Co. FL	232	May-96	182	182	7,24	9a-6p	5.04	N/A	36,49	Tindale-Oliver & Associate
Hernando Co. FL	301	May-96	264	264	8.93	9a-6p	3.28	N/A	29.29	Tindale-Oliver & Associate
Charlotte Co. FL	135	Oct-97	230		5.30	9a-5p	7,90	N/A	41.87	Tindale-Oliver & Associate
Charlotte Co. FL	142	Oct-97	245	*:	5.20	9a-5p	4.10	N/A	21.32	Tindale-Oliver & Associate
Charlotte Co. FL	150	Oct-97	160		5.00	9a-5p	10.80	N/A	\$4.00	Tindale-Oliver & Associate
Charlotte Co. FL	215	Oct-97	158		7.60	9a-5p	4,60	N/A	34.95	Tindale-Oliver & Associate
Charlotte Co. FL	257	Oct-97	225	2.	7.60	9a-5p	7,40	N/A	56.24	Tindale-Oliver & Associate
Charlotte Co. FL	345	Oct-97	161		7.00	9a-5p	6.60	N/A	46.20	Tindale-Oliver & Associate
Charlotte Co. FL	368	Oct-97	152		6,60	9a-5p	5.70	N/A	37.62	Tindale-Oliver & Associate
Charlotte Co. FL	383	Oct-97	516		8.40	9a-5p	5.00	N/A	42.00	Tindale-Oliver & Associate
Charlotte Co. FL	441	Oct-97	195	- 2:	8.20	9a-5p	4,70	N/A	38.54	Tindale-Oliver & Associate
Charlotte Co. FL	1.169	Oct-97	348		6.10	9a-5p	8.00	N/A	48.80	Tindale-Oliver & Associati
	90	Dec-99	91		12.80	8a-6p	11.40	N/A	145,92	Tindale-Oliver & Associate
Collier Co, FL					7,80	8a-6p	6.40	N/A	49.92	Tindale-Oliver & Associate
Collier Co, FL	400	Dec-99	389				10.20	N/A	68.34	Tindale-Oliver & Associate
Lake Co, FL	49	Apr-02	170		6,70	7a-6p			76.00	Tindale-Oliver & Associate
Lake Co, FL	52	Apr-02	212		10.00	7a-6p	7.60	N/A		Tindale-Oliver & Associate
Lake Co, FL	126	Apr-02	217	- 8	8.50	7a-6p	8.30	N/A	70.55 55.22	Tindale-Oliver & Associati
Pasco Co, FL	55	Apr-02	133	- 80	6.80	8a-6p	8.12	N/A		
Pasco Co. FL	60	Apr-02	106		7,73	8a-6p	8.75	N/A	67_64	Tindale-Oliver & Associate
Pasco Co. FL	70	Apr-02	188	- 8	7.80	Ва-бр	6.03	N/A	47_03	Tindale-Oliver & Associate
Pasco Co. FL	74	Apr-02	188	45	8.18	Ba-6p	5.95	N/A	48 67	Tindale-Oliver & Associate
Pasco Co, FL	189	Apr-D2	261	*	7.46	8a-6p	8.99	N/A	67,07	Tindale-Oliver & Associate
Marion Co, FL	102	Apr-02	167		8.02	7a-6p	5.10	N/A	40.90	Kimley-Horn & Associate
Marion Co, FL	105	Apr-02	169		7,23	7a-6p	7.22	N/A	52.20	Kimley-Horn & Associate
Marion Co, FL	124	Apr-02	170	+:	6.04	7a-6p	7.29	N/A	44.03	Kimley-Horn & Associate
Marion Co, FL	132	Apr-02	171	*	7.87	7a-5p	7.00	N/A	55,09	Kimley-Horn & Associate
Marion Co, FL	133	Apr-02	209		8.04	7a-6p	4,92	N/A	39,56	Kimley-Horn & Associate
Citrus Co, FL	111	Oct-03	273		B.66	7a-6p	7.70	N/A	66.68	Tindale-Oliver & Associate
Citrus Co. FL	231	Oct-03	155	- 1	5.71	7a-6p	4 82	N/A	27.52	Tindale-Oliver & Associate
Citrus Co. FL	306	Oct-03	146	h .	8.40	7a-5p	3.94	N/A	33,10	Tindale-Oliver & Associate
Citrus Co., FL	364	Oct-03	345		7.20	7a-6p	9.14	N/A	65.81	Tindale-Oliver & Associate
Citrus Co. FL	374	Oct-03	248	- 2	12.30	7a-6p	6.88	N/A	84.62	Tindale-Oliver & Associate
Lake Co., FL	42	Dec-06	122	- 93	11.26	(A)	5.56	N/A	62 61	Tindale-Oliver & Associate
take Co. FL	51	Dec-06	346	-	18.22		9.46	N/A	172.36	Tindale-Oliver & Associate
Lake Co, FL	59	Dec-06	144	-	12.07	-	10.79	N/A	130 24	Tindale-Oliver & Associate
Lake Co., FL	90	Dec-06	194		9.12		5.78	N/A	52.71	Tindale-Oliver & Associate
Lake Co., FL	239	Dec-06	385	*5	7.58		8.93	N/A	67,69	Tindale-Oliver & Associate
Hernando Co. FL	232	Apr-07	516		8.02	7a-6p	8.16	N/A	65.44	Tindale-Oliver & Associate
Hernando Co., FL	95	Apr-07	256		8.08	7a-6p	5.88	N/A	47,51	Tindale-Oliver & Associate
Hernando Co. FL	90	Арг-07	338		7.13	7a-6p	5.86	N/A	41.78	Tindale-Oliver & Associate
Hernando Co. FL	58	Арг-07	153	¥:	6.16	7a-6p	8.39	N/A	51 68	Tindale-Oliver & Associat
Collier Co, FL	74	Mar-08	503		12,81	7a-6p	3.05	N/A	39.07	Tindale-Oliver & Associate
CollierCo, FL	97	Mar-08	512		8,78	7a-6p	11.29	N/A	99.13	Tindale-Oliver & Associate
	315	Mar-08	1,347		6.97	7a-6p	6.55	N/A	45,65	Tindale-Oliver & Associate
Collier Co, FL	313						10.98	N/A	104.86	Tindale-Oliver & Associate

Note: Georgia studies are not included in summary statistics,

Weighted Average Trip Length: 6.52
Weighted Average Trip Generation Rate:

7.81

Multi-Family/Apartment and Residential Condo/Townhouse (ITE LUC 220/230)

Location	Size / Units	Date	Total # Interviews	#Trip Length Interviews	Trip Gen Rate	Time Period	Trip Length	Percent New Trips	VMT	Source
Sarasota Co. FL	212	Jun-93	42	42	5.78		5.20	N/A	30.06	Sarasota County
Sarasota Co., FL	243	Jun-93	36	36	5.84	19	- F	N/A	1	Sarasota County
Marion Co. FL	214	Арг-02	175	175	6 84	290.1	4.61	N/A	31.53	Kimley-Horn & Associates
Marion Co. FL	240	Apr-02	174	174	6.96		3.43	N/A	23 87	Kimley-Horn & Associates
Marion Co. FL	288	Apr-02	175	175	5.66		5.55	N/A	31_41	Kimley-Horn & Associates
Marion Co. FL	480	Apr-02	175	175	5.73	- 4	6.88	N/A	39 42	Kimley-Horn & Associates
Marion Co. FL	500	Apr-02	170	170	5,46	140	5.94	N/A	32.43	Kimley-Horn & Associates
Lake Co. FL	250	Dec-06	135	135	6,71		5.33	N/A	35.76	Tindale-Oliver & Associate:
Lake Co. FL	157	Dec-06	265	265	13.97		2.62	N/A	36.60	Tindale-Oliver & Associate
Lake Co. FL	169	Dec-06	212		8.09	- 3	6.00	N/A	48.54	Tindale-Oliver & Associate
Lake Co. FL	226	Dec-06	301		6.74	30	2.17	N/A	14.63	Tindale-Oliver & Associate
Hernando Co., FL	312	Apr-07	456		4.09		5.95	N/A	24_34	Tindale-Oliver & Associate
Hernando Co. FL	176	Apr-07	332		5.38	- 4	5.24	N/A	28.19	Tindale-Oliver & Associate
Hernando Co., FL	31	May-96	31	31	6.12	94-6р	4.98	N/A	30.48	Tindale-Oliver & Associate
Hernando Co. FL	128	May-96	12B	128	6.47	9a-6p	5.18	N/A	33.51	Tindale-Oliver & Associate
Pasco Co. FL	229	Apr-02	198	198	4.77	9a-6p		N/A	-	Tindale-Oliver & Associate
Pasco Co. FL	248	Apr-02	353	353	4.24	9a-6p	3.53	N/A	14.97	Tindale-Oliver & Associate

Total Size (TL) 3,631 erage Trip Length:

LUC 220: Multi-Family Weighted Average Trip Generation Rate: 6.31 Total Size 3,467 13 ITE Average Trip Generation Rate:
Blend of FL Studies and ITE Average Trip Generation Rate: 6.65 18,480 21,947 6,60 Blended total

LUC 230: Condo/Townhouse LUC 230 Studies are highlighted 636 Weighted Average Trip Generation Rate: 4 97 Total Size ITE Average Trip Generation Rate: 10,024 10,660 5.B1 Blended total Blend of FL Studies and ITE Average Trip Generation Rate: 5.76

Multi-Family/Apartment; 3+ Stories (ITE LUC 222/223)

High-Rise Apartment: 4.20 435 ITE Mid-Rise Apartment:
Blend of ITE Average Trip Generation Rate for High-Rise and Mid-Rise Apts: 3.90 4.14 120 555

Mobile Home Park (ITE LUC 240)

Location	Size / Units	Date	Total # Interviews	#Trip Length Interviews	Trip Gen Rate	Time Period	Trip Length	Percent New Trips	VMT	Source
Marion Co. FL	67	Jul-91	22	22	5.40	48hrs	2.29	N/A	12.37	Tindale-Oliver & Associates
Marion Co. FL	82	Jul-91	58	58	10.80	24hr	3.72	N/A	40.1B	Tindale-Oliver & Associates
Marion Co. FL	137	Jul-91	22	22	3.10	24hr	4.88	N/A	15.13	Tindale-Oliver & Associates
Marion Co. FL	188	Apr-02	147	- 2	3.51	24hr	5.48	N/A	19.23	Kimley-Horn & Associates
Marion Co. FL	227	Apr-02	173	¥0	2.76	24hr.	8.80	N/A	24.29	Kimley-Horn & Associates
Sarasota Co, FL	235	Jun-93	100	100	3.51		5.10	N/A	17.90	Sarasota County
Marion Co. FL	297	Apr-02	175	12	4.78	24hr.	4.76	N/A	22.75	Kimley-Horn & Associates
Sarasota Co. FL	996	Jun-93	181	181	4.19	- 2	4.40	N/A	18.44	Sarasota County
Hernando Co. FL	1,892	May-96	425	425	4.13	9a-6p	4.13	N/A	17.06	Tindale-Oliver & Associates
Total Size	4,121	9	1,303		Avera	e Trip Length:	4.84			
	5-04 W 200 F				Weighted Avera	er Trin Length	4.60			

4.17

2.02

684

Weighted Average Trip Generation Rate:

ITE Average Trip Generation Rate:
Blend of FL Studies and ITE Average Trip Generation Rate:

			C	ongregate	Care Facil	ity (ITE L	UC 253)			
Location	Size / Units	Date	Total # Interviews	#Trip Length Interviews	Trip Gen Rate	Time Period	Trip Length	Percent New Trips	VMT	Source
Pinelias Park, FL	72	Aug-89	25	19	3,50	9am-Spm	2.20	79.D	7,70	Tindale-Oliver & Associates
Palm Harbor, FL	200	Oct-89	58	40		9am-5pm	3.4D	69.0	2	Tindale-Oliver & Associates
Total Size	272	2	83	DESTRUCTION OF	Averag	ge Trip Length:	2.80			
ITE	388	2			Weighted Averag	ge Trip Length:	3.08			
Blended total	660				Weighter	Percent New	Trip Average:	71,6		
	460						Weighte	d Average Trip Ger	eration Rate:	3,50

Hotel (ITE LUC 310)

Location	Size (Rooms)	Date	Total # Interviews	#Trip Length Interviews	Trip Gen Rate	Time Period	Trip Length	Percent New Trips	VMT	Source
Pinellas Co. FL	174	Aug-89	134	106	12.50	7-11a/3-7p	6.30	79.0	62.21	Tindale-Oliver & Associates
Pinellas Co. FL	114	Oct 89	30	14	7,30	12-7p	6.20	47.0	21.27	Tindale-Oliver & Associates
Orange Co. FL	70				1.85	7.63	12		- 20	Orange County
Orange Co. FL	211	===	22	136	2.23	16	- 64	£6	:•:	Orange County
Orange Co. FL	112		*(2.78	-			(*/	Orange County
Orange Co. FL	1,495				3,50			- •	-35	Orange County
Orange Co, FL	123	-		78	3.70				153	Orange County
Orange Co. FL	130	- 1		392	4.29	160		*	100	Orange County
Orange Co. FL	1,499	72		792	4.69					Orange County
Orange Co. FL	190				4.71		-	•		Orange County
Orange Co. FL	123			- 3	4.81		-	4	- 28	Orange County
Orange Co. FL	105	- 1	2	(%)	5.25		- 34	*	(e)	Orange County
Orange Co. FL	120)*	×:	7.00	5,27					Orange County
Orange Co. FL	1.584		,		5.88	-				Orange County
Orange Co. FL	128	- :		- 15	6.10		12		- 65	Orange County
Orange Co. FL	174			242	7,03	E:	39	•	1.82	Orange County
Orange Co. FL	144			140	7.32	-			7.50	Orange County
Orange Co. FL	98				7.32				120	Orange County
Orange Co. FL	106	-		73	7.34	27	- 12	¥	- 33	Orange County
Orange Co. FL	100	- 1	2		7.37	- E	5.		100	Orange County
Orange Co. FL	144	-	· ·	(6)	7.66	-				Orange County
Total Siz		2:	164	131000	Avera	e Trip Length:	6.25			
IT		10			Weighted Avera	e Trip Length:	6.26			

Weighted Average Trip Generation Rate: ITE Average Trip Generation Rate: Blend of FL Studies and ITE Average Trip Generation Rate: 5 12 8 17 6.36

Motel (ITE LUC 320)

Location	Size (Rooms)	Date	Total # Interviews	# Trip Length Interviews	Trip Gen Rate	Time Period	Trip Length	Percent New Trips	VMT	Source
Pinellas Co. FL	48	Oct-89	46	24		10a-2p	2.80	65.0	27	Tindale-Oliver & Associate:
Pinellas Co. FL	54	Oct-89	32	22		12p-7p	3.80	69.0	+1	Tindale-Oliver & Associates
Pinellas Co, FL	120	Oct-89	26	22	000	2p-7p	5.20	84.6		Tindale-Oliver & Associates
Total Size	222	3	104		Avera	ge Trip Length:	3.93			
		40			THE COURSE OF THE PARTY OF THE	- Yell- Laurence	4.34			

Weighted Percent New Trip Average:

5.63 ITE Average Trip Generation Rate:

Resort Hotel (ITE LUC 330)

				110001						
Location	Size (Rooms)	Date	Total # Interviews	#Trip Length Interviews	Trip Gen Rate	Time Period	Trip Length	Percent New Trips	VMT	Source
Pinellas Co. FL	207	Sep 89	118	110		9a-7p	2.70	93.3	0.00	Tindale-Oliver & Associates
Pinellas Co. FL	390	Sep-89	116	90		10a-7p	7.90	78.0		Tindale-Oliver & Associates
Total Size	597		234		Avera	ge Trip Length:	5.30			
ITE	495	10)		Weighted Avera	ge Trip Length:	6.10			

Weighted Percent New Trip Average: 83.3 ITE Average Trip Generation Rate (adjusted):

Movie Theater with Matinee (ITE LUC 444)

Location	Size (Screens)	Date	Total # Interviews	#Trip Length Interviews	Trip Gen Rate	Time Period	Trip Length	Percent New Trips	VMT	Source
Pinellas Co. FL	8	Oct-89	151	116	113.10	2p-8p	2.70	77.0	235.13	Tindale-Oliver & Associates
Pinellas Co. FL	12	Sep-89	122	115	63.40	2p-8p	1.90	95.0	114.44	Tindale-Oliver & Associates
Total Siz	ze 20		273		Avera	ge Trip Length:	2.30			
	TE 10	estimated			Weighted Avera	ge Trip Length:	2.22			
	30				Weighter	d Percent New	Trip Average:	87.8		

Weighted Average Trip Generation Rate: ITE Average Trip Generation Rate (6th): 83.28 153.33 106.63 Blend of FL Studies and ITE Average Trip Generation Rate:

685

Health/Fitness Club (ITE LUC 492)

Location	Size (1,000 sf)	Date	Total # Interviews	# Trip Length Interviews	Trip Gen Rate	Time Period	Trip Length	Percent New Trips	VMT	Source
Tampa, FL	(4)	Mar-86	33	31	39		7.90	94.0	39.6	Kimley-Horn & Associates
Total Si	ze		33		Avera	ge Trip Length;	n/a			
	TE 15	- 1				Percent New	Trip Average:	94.0		
							IT.	E Average Trip Gen	eration Rate:	32.93

Day Care Center (ITE LUC 565)

Location	Size (1,000 sf)	Date	Total # Interviews	#Trip Length Interviews	Trip Gen Rate	Time Period	Trip Length	Percent New Trips	VMT	Source
Pinellas Co. FL	5.6	Aug 89	94	. 66	66,99	7а-бр	1.90	70.0	89,10	Tindale-Oliver & Associates
Pinellas Co. FL	10.0	Sep-89	179	134	66,99	7a-6p	2.10	75.0	105.51	Tindale-Oliver & Associates
Tampa, FL		Mar-86	28	25			2.60	89.0		Kimley-Horn & Associates
Total Size	15.6		301		Avera	e Trip Length:	2.20			
ITT	35.0	- 3			Weighted Avera	e Trip Length:	2.03			
Blended tota	50.6				Weighte	Percent New	Trip Average:	73.2		

Weighted Average Trip Generation Rate:
ITE Average Trip Generation Rate:
Blend of FL Studies and ITE Average Trip Generation Rate: 66,99 74.06 **71.88**

Nursing Home (ITE LUC 620)

				ITUISII	5 HOHIC (IL LOCUL	-01			
Location	Size (Beds)	Date	Total # Interviews	# Trip Length Interviews	Trip Gen Rate	Time Period	Trip Length	Percent New Trips	VMT	Source
Lakeland, FL	120	Mar-90	74	66	2,86	11a-4p	2.59	89.0	6.59	Tindale-Oliver & Associates
Total Size	120	1	74		Avera	ge Trip Longth:	2.59			
ITE	714	6			Weighted Avera	ge Trip Length:	2.59			
Blended total	834				Weighte	d Percent New	Trip Average:	89.0		
ITE	<u>714</u>	6	74		Weighted Avera	ge Trip Length:	2.59			

2.74 **2.76**

Weighted Percent New Trip Average: 89,0
Weighted Average Trip Generation Rate:
ITE Average Trip Generation Rate:
Blend of FL Studies and ITE Average Trip Generation Rate:

Clinic (ITE LUC 630)

Location	Size (1,000 sf)	Date	Total # Interviews	# Trip Length Interviews	Trip Gen Rate	Time Period	Trip Length	Percent New Trips	VMT	Source
Largo, FL	103.9	Aug-89	614	572	37,03	7a-430p	5.10	93.0	175,63	Tindale-Oliver & Associates
St. Petersburg, FL		Oct-89	280	252		9a-5p	4.10	90.0	-	Tindale-Oliver & Associates
Total Size	103.9	1	894		Avera	ge Trip Length:	4.60			
IΠ	224.0	2			Weighted Avera	ge Trip Langth:	5.10			
	327.9				Weighter	d Percent New	Trip Average:	93.0		

General Office Building (ITE LUC 710)

Location	Size (1,000 sf)	Date	Total # Interviews	#Trip Length Interviews	Trip Gen Rate	Time Period	Trip Length	Percent New Trips	VMT	Source
Sarasota Co., FL.	14.3	Jun-93	14	14	46.85	e5.	11.30		529.41	Sarasota County
Gwinnett Co. GA	98.0	Dec-92	- 6	: *:	4,30		5.40			Street Smarts
Gwinnett Co. GA	180.0	Dec-92			3.60	-	5.90		-2-	Street Smarts
Pinellas Co. FL	187.0	Oct-89	431	388	18.49	7a-5p	6.30	90.0	104.84	Tindale-Oliver & Associate:
St. Petersburg, FL	262 B	Sep-89	291	274	(4.7	7a-5p	3.40	94.0	*:	Tindale-Oliver & Associates
Total Size	742.1	5	736	ame and	Avera	ge Trip Length:	5.45			
ITE	15,522.0	78	1		Weighted Avera	ge Trip Length:	5.15			ITE Trip Generation Formula

Medical-Dental Office Building (ITE LUC 720): 10,000 sf or Less

Site	Size (1,000 sf)	Tues., Jan 11		Wedn., Jan 12		Thur., Jan 13		TOTAL		AVERAGE		AVERAGE (per 1,000 sf)		
		IN	OUT	IN	оит	IN	OUT	IN	OUT	IN	OUT	IN	OUT	TOTAL
Collier Co, FL - Site 1	2.100	35	35	22	22	13	13	70	70	23.33	23.33	11.11	11.11	22,22
Collier Co. FL - Site 2	3.000	40	40	52	52	53	53	145	145	48.33	48.33	16.11	16.11	32.22
Collier Co. FL - Site 3	2.000	28	28	19	21	24	26	71	75	23.67	25.00	11.84	12.50	24.34
Collier Co. FL - Site 4	1.000	30	30	52	52	57	57	139	139	46.33	46.33	46.33	46.33	92.66
Collier Co. FL - Site 5	3.024	31	32	43	43	24	24	98	99	32.67	33.00	10.80	10.91	21.71
Collier Co. FL - 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 (excluding 5it	te 4)											11.84	11.99	23.83

Ln(T) = 0.76 Ln(X) + 3.68

Medical-Dental Office Building (ITE LUC 720)

Location	Size (1,000 sf)	Date	Total # Interviews	#Trip Length Interviews	Trip Gen Rate	Time Period	Trip Length	Percent New Trips	VMT	Source
Tampa, FL		Mar-86	33	26		37	6,00	79.0	-	Kimley-Horn & Associates
Palm Harbor, FL	14.6	Oct-89	104	76	33.98	9a-5p	6.30	73.0	156.27	Tindale-Oliver & Associates
St. Petersburg, FL		Nov-89	34	30	57.20	9a-4p	1.20	86.0	2	Tindale-Oliver & Associates
Hernando Co., FL	58.4	May-96	390	349	28.52	9a-6p	6,47	89.5	165.09	Tindale-Oliver & Associates
Hernando Co., FL	28.0	May-96	202	189	49.75	9a-6p	6.06	93.8	282.64	Tindale-Oliver & Associates
Charlotte Co. FL	11.0	Oct-97		186	49.50	9a-5p	4,60	92.1	209.67	Tindale-Oliver & Associates
Charlotte Co. FL	28.0	Oct-97		186	31.00	9a-5p	3,60	81,6	91.04	Tindale-Oliver & Associates
Charlotte Co. FL	30.4	Oct-97	1 1	324	39.80	9a-5p	3.30	83.5	109.68	Tindale-Oliver & Associates
Citrus Co. FL	38.9	Oct-03		168	32.26	8-6p	6.80	97.1	213.03	Tindale-Oliver & Associates
Citrus Co. FL	10.0	Nov-03		340	40.56	8-630p	6,20	92.4	232.33	Tindale-Oliver & Associates
Citrus Co. FL	5.3	Dec-03		20	29.36	8-5p	5.25	95.2	146.78	Tindale-Oliver & Associates
Orange Co. FL	50.6				26.72	14			*	Orange County
Orange Co. FL	23.5	47	-		16.58					Orange County
Total Size		1:	763			ge Trip Length:	5.07			

Average Trip Generation Rate: 32,59
ITE Average Trip Generation Rate: 36,13
Blend of FL Studies and ITE Average Trip Generation Rate: 34,72

Office Park (ITE LUC 750)

Location	Size (1,000 sf)	Date	Total #	#Trip Length Interviews	Trip Gen Rate	Time Period	Trip Length	Percent New Trips	VMT	Source
Sarasota Co, FL	30	Jun-93	10	10	9.10		9.00		81.90	Sarasota County
Sarasota Co, FL	36	Jun-93	17	17	20.50	- 3	8.30	- 4	170.15	Sarasota County
Sarasota Co, FL	45	Jun-93	42	42	37.00	1.5	4.90	-	181 30	Sarasota County
Total Size	111.0		69		Avera	ge Trip Length:	7.40			
					AND DESCRIPTION OF THE PARTY OF	THE PERSON NAMED IN COLUMN				

Weighted Average Trip Length: 7.11

Weighted Percent New Trip Average:

Weighted Average Trip Generation Rate: 24.11

ITE Average Trip Generation Rate: 11.42

Blend of FL Studles and ITE Average Trip Generation Rate: 11.70

Shopping Center (ITE LUC 820)

Location	Size (1,000 sf)	Date	Total #	#Trip Length Interviews	Trip Gen Rate	Time Period	Trip Length	Percent New Trips	VMT	Source
Tampa, FL		Mar-86	527	348				66.0	,	Kimley-Horn & Associates
Tampa, FL		Mar-86	170				1,70			Kimley-Horn & Associates
Tampa, FL		Mar-86	354	269				76.0	12	Kimley-Horn & Associates
Tampa, FL		Mar-86	144	-			2.50	741	1 6	Kimley-Horn & Associates
St. Petersburg, FL	1.192.0	Aug-89	384	298		11a-7p	3,60	78.0	34	Tindale-Oliver & Associates
St. Petersburg, FL	132.3	Sep-89	400	368	77.00	10a-7p	1.80	92.0	127.51	Tindale-Oliver & Associates
Largo, FL	425.0	Aug-89	160	120	26.73	10a-6p	2.30	75.0	46.11	Tindale-Oliver & Associates
Dunedin, FL	80.5	Sep-89	276	210	81.48	9a-5p	1.40	76.0	86.69	Tindale-Oliver & Associates
Pinellas Park, FL	696.0	Sep-89	485	388	1 8	9а-бр	3,20	80.0		Tindale-Oliver & Associates
Seminole, FL	425.0	Oct-89	674	586		(A)		87.0	- 1-	Tindale-Oliver & Associates
Hillsborough Co. FL	134.0	Jul-91	001				1,30	74.0		Tindale-Oliver & Associates
Hillsborough Co, FL	151.0	Jul-91	- 30				1,30	73,0		Tindale-Oliver & Associates
Collier Co, FL	3	Aug-91	68	64			3.33	94.1		Tindale-Oliver & Associates
Collier Co. FL		Aug-91	208	154			2.64	74.0		Tindale-Oliver & Associates
arasota/Bradenton, FL	109.0	Sep-92	300	185		12a-6p		61.6		King Engineering Associates, Inc
Ocala, FL	133.4	Sep-92	300	192		12a-6p	2	64.0		King Engineering Associates, Inc
Gwinnett Co. GA	99.1	Dec-92		70	46.00	(2)	3.20	70.0	103.04	Street Smarts
Gwinnett Co, GA	314.7	Dec-92		- 3	27.00	557	8.50	84.0	192.78	Street Smarts
Sarasota Co. FL	110.0	Jun-93	58	58	122.14	- 3	3.20	100	-	Sarasota County
Sarasota Co. FL	146.1	Jun-93	65	65	51.53	- 24	2.80	7.87	- 2	Sarasota County
Sarasota Co. FL	157.5	Jun-93	57	57	79.79	547	3,40		3.0	Sarasota County
Sarasota Co, FL	191.0	Jun-93	62	62	66.79		5.90	86	-4	Sarasota County
Hernando Co, FL	107 B	May-96	608	331	77.60	9a-6p	4.68	54.5	197.85	Tindale-Oliver & Associates
Charlotte Co. FL	88.0	Oct-97			73.50	9a-5p	1.80	57.1	75.56	Tindale-Oliver & Associates
Charlotte Co, FL	191.9	Oct-97			72.00	9a-5p	2.40	50.9	87,97	Tindale-Oliver & Associates
Charlotte Co, FL	51.3	Oct-97		- 4	43.00	9a-5p	2.70	51.8	60.08	Tindale-Oliver & Associates
Lake Co. FL	67.8	Apr-01	246	177	102.60		3.40	71.2	248,37	Tindale-Oliver & Associates
Lake Co. FL	72.3	Apr-01	444	376	65.30		4.50	59.0	173,37	Tindale-Oliver & Associates
Pasco Co, FL	65.6	Apr-02	222		145.64	9a-5p	1.46	46.9	99.62	Tindale-Oliver & Associates
Pasco Co, FL	75.8	Apr-02	134	12	38.23	9a-5p	2.36	58.2	52.52	Tindale-Oliver & Associates
Citrus Co, FL	185.0	Oct-03		784	55.84	8a-6p	2.40	88.1	118.05	Tindale-Oliver & Associates
Citrus Co, FL	91.3	Nov-03	747	390	54.50	Ba-6p	1.60	88.0	76,77	Tindale-Oliver & Associates
Bozeman, MT	104.3	Dec-06	359	359	46.96	-	3,35	49.0	77,08	Tindale-Oliver & Associates
Bozeman, MT	159.9	Dec-06	502	502	56.49	797	1.56	54.0	47.59	Tindale-Oliver & Associates
Bozeman, MT	35.9	Dec-06	329	329	69.30		1.39	74.0	71.28	Tindale-Oliver & Associates
Total Size		DEC-00	7,536	JES .		ge Trip Length:				ITE Trip Generation Formula:
10181 5126	3,131,3		,,330		Weighted Avera					Ln(T) = 0.65 Ln(X) + 5.83

4.00 3.50 3.00 Trip Length (Miles) 2.50 2.00 1.50 1.00 0.50 0.00 600 800 1000 1200 1400 1600 0 200 400 **Square Footage**

Figure D-1
Shopping Center (LUC 820) – Florida Curve Trip Length Regression

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

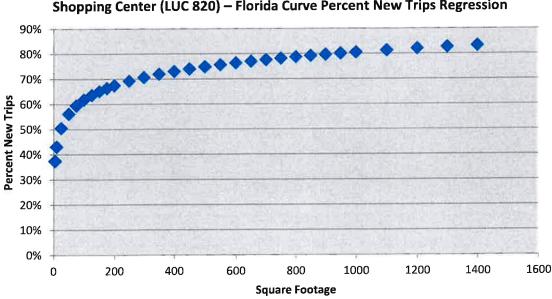


Figure D-2
Shopping Center (LUC 820) – Florida Curve Percent New Trips Regression

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

New/Used Auto Sales (ITE LUC 841)

Location	Size (1,000 sf)	Date	Total # interviews	#Trip Length Interviews	Trip Gen Rate	Time Period	Trip Length	Percent New Trips	VMT	Source
St.Petersburg, FL	43.0	Oct-89	152	120	-	9a-5p	4,70	79.0		Tindale-Oliver & Associates
Clearwater, FL	43.0	Oct-89	136	105	29,40	9a-5p	4.50	78.0	103.19	Tindale-Oliver & Associates
Orange Co. FL	116.7				22.18	17			- 12	Orange County
Orange Co, FL	99.8	2)			13.45	- 3	- 8		54	Orange County
Orange Co. FL	39.1	÷:		- 3	10.48	38		- 3	*	Orange County
Orange Co. FL	66.3	**			28.50			-		Orange County
Orange Co. FL	46.7				40.34					Orange County
Orange Co, FL	34.4	- 1		- 2	23.45	- 5	- 2		- 74	Orange County
Orange Co, FL	13.8	23	- 5		35.75) ×	-		- 6e	Orange County
Total Siz		9	288		Avera	ge Trip Length:	4.60			
ıT		15			Weighted Averag	ge Trip Length:	4.60			

Blended total

1.029.7

Weighted Average Trip Length: 4.60
Weighted Percent New Trip Average:

Weighted Average Trip Generation Rate: ITE Average Trip Generation Rate: 23,22 Blend of FL Studies and ITE Average Trip Generation Rate: 2B.25

Supermarket (ITE LUC 850)

Location	Size (1,000 sf)	Date	Total # Interviews	#Trip Length Interviews	Trip Gen Rate	Time Period	Trip Length	Percent New Trips	VMT	Source
Palm Harbor, FL	62.0	Aug-89	163	62	106,26	9a-4p	2.08	56.0	123,77	Tindale-Oliver & Associates
Total Size	62.0	1	163		Avera	ge Trip Length:	2.08			
ITE	156 0	4			Weighted Avera	ge Trip Length:	2.08			
Blended total					Weighte	d Percent New	Trip Average:	56.0		

Weighted Average Trip Generation Rate: ITE Average Trip Generation Rate: Blend of FL Studies and ITE Average Trip Generation Rate: 106,26 102.24 103.38

Convenience Market - 24hrs. (ITE LUC 851)

Location	Size (1,000 sf)	Date	Total # Interviews	#Trip Length Interviews	Trip Gen Rate	Time Period	Trip Length	Percent New Trips	VMT	Source
Tampa, FL		Mar-86	80				1,10	-		Kimley-Horn & Associates
Largo, FL	2.5	8/15,25/89	171	116	634.80	761	1,20	68.0	518.00	Tindale-Oliver & Associates
Clearwater, FL	2.5	Aug-89	237	64	690.80	59.1	1.60	27.0	298.43	Tindale-Oliver & Associates
Clearwater, FL	2.1	Nov-89	143	50	635,24	24hr.	1.60	35.0	355.73	Tindale-Oliver & Associates
Marion Co. FL	2.5	Jun-91	.94	43	787,20	48hrs.	1.52	46.2	552.80	Tindale-Oliver & Associates
Marion Co. FL	2.5	Jun-91	74	20	714.00	48hrs.	0.75	27.0	144,59	Tindale-Oliver & Associates
Collier Co. FL		Aug-91	146	36	7.4	54.	2.53	24.7		Tindale-Oliver & Associates
Collier Co. FL	12	Aug-91	148	38			1.08	25.7		Tindale-Oliver & Associates
Gwinnett Co, GA	2.9	12/13-18/92					2.30	48.D		Street Smarts
Gwinnett Co. GA	3.2	12/13-18/92		701	72	G./		37.0	- 84	Street Smarts
Total Size	18.2	7	1,093		Avera	ge Trip Length:	1.52			
ITE	16.0	8		Exercise of	Weighted Avera	ge Trip Length:	1.52			
Blended total					Weighte	d Percent New	Trip Average:	41.3		

Average: 413 Weighted Average Trip Generation Rate: ITE Average Trip Generation Rate: Weighted Percent New Trip Average: 694.30 737.99 **719.18** Blend of FL Studies and ITE Average Trip Generation Rate:

Convenience Market w/Gasoline (ITE LUC 853)

Location	Size (1,000 sf)	Date	Total # Interviews	# Trip Length Interviews	Trip Gen Rate	Time Period	Trip Length	Percent New Trips	VMT	Source
Tampa, FL		Mar-86	72				2.00			Kimley-Horn & Associates
Marion Co. FL	1.1	Jun-91	77	20	544.80	24hr.	0.89	26.0	126.07	Tindale-Oliver & Associates
Marion Co. FL	2.1	Jun-91	65	24	997.60	24hr.	1,67	36.4	606.42	Tindale-Oliver & Associates
Marion Co. FL	4.4	Jun-91	.85	25	485.70	48hrs.	1.06	29.4	151.68	Tindale-Oliver & Associates
Collier Co. FL		Aug-91	96	38	-		1.19	39.6	-	Tindale-Oliver & Associates
Collier Co. FL		Aug-91	78	16	. 2	16	1.06	20.5	8	Tindale-Oliver & Associates
Tampa, FL	2.3	10/13-15/92	239	74		24hr.	1.06	31.1		Tindale-Oliver & Associate:
Ellenton, FL	3.3	10/20-22/92	124	44		24hr.	0.96	35.3		Tindale-Oliver & Associates
Tampa, FL	3.8	11/10-12/92	142	23		24hr.	3.13	16.4	•	Tindale-Oliver & Associate:
Marion Co, FL	2.5	Apr-02	87	(2	719.79	24hr.	1.62	32.8	322.19	Kimley-Horn & Associates
Marion Co. Ft	2.5	Apr-02	23		610.46	24hr.	1.77	11.7	126.61	Kimley-Horn & Associates
Marion Co. FL	3.0	Apr-02	.59		606.02	24hr.	0.83	32.6	195.00	Kimley-Horn & Associates
Total Size	25.1	9	1,148		Avera	ge Trip Length:	1.44			
ITE		10		De la constitución de la constit	Weighted Avera	ge Trip Length:	1.51			
Blended Total					Weighte	d Percent New	Trip Average:	27.7		
									41 D-4	C30 C0

Average Trip Generation Rate: ITE Average Trip Generation Rate: 639.68 845.60 Blend of FL Studies and ITE Average Trip Generation Rate: 775.14

689

Pharmacy/Drugstore w/Drive-Thru (ITE LUC 880 & 881)

		Interviews	Interviews	IIIp Gen total	Time Period	Trip Length	Trips	VMT	Source
11.1	Арг-02	138	38	88,97	-	2,05	27,5	50.23	Tindale-Oliver & Associates
	Apr-02	212	90	122 16	_ 2	2.04	42.5	105.79	Tindale-Oliver & Associates
15.1	Apr-02	1192	54	97.96		2,13	28.1	58.69	Tindale-Oliver & Associates
38.2	3	1,542		Avera	ge Trip Length:	2.07			
196.0	16			Weighted Avera	ge Trip Length:	2.08			
234.2				Weighter	Percent New	Trìp Average:	32,5		
	12 0 15.1 38.2 196.0	12.0 Apr-02 15.1 Apr-02 38.2 3 196.0 16	11.1 Apr-02 138 12.0 Apr-02 212 15.1 Apr-02 1192 38.2 3 1,542 196.0 16	11.1 Apr-02 138 38 12.0 Apr-02 212 90 15.1 Apr-02 1192 54 38.2 38.2 3 1,542	11.1 Apr-02 138 38 88.97 12.0 Apr-02 212 90 122.16 15.1 Apr-02 1192 54 97.56 38.2 3 1,542 Avera 196.0 16 Weighted Avera	11.1 Apr-02 138 38 88.97 - 12.0 Apr-02 212 90 122.16 - 15.1 Apr-02 1192 54 97.96 18.2 3 1,542 Average Trip Length: 196.0 16 Weighted Average Trip Length:	11.1 Apr-02 138 38 88.97 - 2.05 12.0 Apr-02 212 90 122.16 - 2.04 15.1 Apr-02 1192 54 97.96 - 2.13 38.2 3 1,542 Average Trip Length: 2.07 196.0 16 Weighted Average Trip Length: 2.08	11.1 Apr-02 138 38 88.97 - 2.05 27,5 12.0 Apr-02 212 90 122.16 - 2.04 42.5 15.1 Apr-02 1192 54 97.96 2.13 28.1 38.2 3 1,542 Average Trip Length: 2.08 196.0 16 Weighted Average Trip Length: 2.08 Weighted Percent New Trip Average: 32.5	11.1 Apr-02 138 38 88.97 - 2.05 27.5 50.23 12.0 Apr-02 212 90 122.16 - 2.04 42.5 105.79 15.1 Apr-02 1192 54 97.96 - 2.13 28.1 58.69 38.2 3 1,542 Average Tdp Length: 2.07 196.0 16 Weighted Average Tdp Length: 2.07

32,5 Weighted Percent New Trip Average: Average Trip Generation Rate: ITE Average Trip Generation Rate (LUC 880 / 881): 103,03 90.06 / 96.91 95.96 Blend of FL Studies and ITE Average Trip Generation Rate:

Furniture Store (ITE LUC 890)

Location	Size (1,000 sf)	Date	Total # Interviews	#Trip Length Interviews	Trip Gen Rate	Time Period	Trip Length	Percent New Trips	VMT	Source
Largo, FL	15.0	7/28-30/92	64	34	- 2	**	4,63	52.5	29	Tindale-Oliver & Associates
Tampa, FL	16.9	Jul-92	68	39			7,38	55.7		Tindale-Oliver & Associates
Total Size	31.9	2	132		Avera	ge Trip Length:	6.01			
000		42			The state of the state of		6.00			

Weighted Percent New Trip Average: 54.2

ITE Average Trip Generation Rate:

Drive In Book (ITE LUC 012)

Location	Size (1,000 sf)	Date	Total # Interviews	# Trip Length Interviews	Trip Gen Rate	Time Period	Trip Length	Percent New Trips	VMT	Source
Tampa, FL	25	Mar-86	77	- 8	:40	*:	2.40			Kimley-Horn & Associates
Tampa, FL	*/	Mar-86	211	-				54.0		Kimley-Horn & Associates
Clearwater, FL	0.4	Aug-89	113	52		9а-бр	5.20	46.0	× .	Tindale-Oliver & Associate
Largo, FL	2.0	Sep-89	129	94	7e.	*3	1.60	73.0	80	TIndale-Oliver & Associate
Seminole, FL	4.5	Oct-89		-	300					TIndale-Oliver & Associate
Marion Co., FL	2.3	Jun-91	69	29		24hr.	1.33	42.0		Tindale-Oliver & Associate
Marion Co. FL	3.1	Jun-91	47	32		24hr.	1.75	68.1	*	Tindale-Oliver & Associate
Marion Co. FL	2.5	Jul-91	57	26	265	48hrs.	2.70	45.6		Tindale-Oliver & Associate
Collier Co., FL		Aug-91	162	96	540	24hr.	0.88	59.3		Tindale-Oliver & Associate
Collier Co. FL		Aug 91	116	54			1.58	46.6	- 2 - 1	Tindale-Oliver & Associate
Collier Co. FL		Aug 91	142	68	201		2.08	47.9	40	Tindale-Oliver & Associate
Hernando Co. FL	5.4	May-96	164	41	245	9a-6p	2.77	24.7	- 8	Tindale-Oliver & Associate
Marion Co. FL	2.4	Apr-02	70			24hr	3.55	54.6		Kimley-Horn & Associate
Marion Co. FL	2.7	May-02	50		246.66	24hr.	2.66	40.5	265.44	Kimley-Horn & Associate

Average Trip Length: Weighted Average Trip Length: 21.0 46.2 ITE Blended total

23.7

143.0

Weighted Percent New Trip Average: 46.2 Weighted Average Trip Generation Rate: 246,66 148,15 159,34

ITE Average Trip Generation Rate:
Blend of FL Studies and ITE Average Trip Generation Rate:

Quality Restaurant (ITE LUC 931)

Location	Size (1,000 sf)	Date	Total # Interviews	# Trip Length Interviews	Trip Gen Rate	Time Period	Trip Length	Percent New Trips	VMT	Source
Tampa, FL	7.5	Mar-86	76	62) *		2,10	82.0		Kimley-Horn & Associates
St. Petersburg, FL	7.5	Oct-89	177	154		11a-2p/4-8p	3,50	87.0	•	Tindale-Oliver & Associates
Clearwater, FL	8.0	Oct-89	60	40	110.63	10a-2p/5-9p	2.80	67.0	207.54	Tindale-Oliver & Associates
Total Size	15.5	2	313		Avera	ge Trip Length:	2.80			
ITE	135.0	15		- 11	Weighted Avera	ge Trip Length:	3.14			
Blended total					Weighter	Percent New	Trip Average:	76.7		

Weighted Average Trip Generation Rate: ITE Average Trip Generation Rate: 89.95 91.10 Blend of FL Studies and ITE Average Trip Generation Rate:

110.63

High-Turnover Restaurant (ITE LUC 932)

th Percent New VMT	Source
72.5 375.00 Tindale	ndale-Oliver & Associate
60.2 256.43 Tindale	ndale-Oliver & Associate
92.0 243.98 Tindale	ndale-Oliver & Associate
75.0 220.59 Tindale	ndale-Oliver & Associati
77_2 236 81 Tindale	ndale-Oliver & Associate
56.0 228.77 Tindale	ndale-Oliver & Associate
0	Orange County
0	Orange County
	Orange County
	Orange County
0	Orange County
242 (46) (0	Orange County
0	Orange County
, , , ,	Orange County
- A 0	Orange County
- O	Orange County
- 0	Orange County
- 0	Orange County
	Orange County
	Orange County
- 0	Orange County

Weighted Percent New Trip Average: 70.8
Weighted Average Trip Generation Rate:
ITE Average Trip Generation Rate:
Blend of FL Studies and ITE Average Trip Generation Rate: 109 B4 127 15

Fast Food Restaurant w/Drive Thru (ITE LUC 934)

144.6 107.5

Blended total

Location	Size (1,000 sf)	Date	Total # Interviews	#Trip Length Interviews	Trip Gen Rate	Time Period	Trip Length	Percent New Trips	VMT	Source
Tampa, FL		Mar-86	61				2.70			Kimley-Horn & Associates
Tampa, FL		Mar-86	306	- 2	-	- 4	-	65.0	3.8	Kimley-Horn & Associates
Pinellas Co. FL	2.20	Aug-89	81	48	502.80	11a-2p	1.70	59.0	504.31	Tindale-Oliver & Associates
Pinellas Co. FL	4.30	Oct-89	456	260	660.40	1 day	2.30	57.0	865.78	Tindale-Oliver & Associates
Tarpon Springs, FL		Oct-89	233	114		7a-7p	3.60	49.0	(A)	Tindale-Oliver & Associates
Marion Co. FL	1.60	Jun-91	60	32	962.50	48hts.	0.91	53.3	466.84	Tindale-Oliver & Associates
Marion Co. FL	4.00	Jun-91	75	46	625.00	48hrs.	1.54	61.3	590.01	Tindale-Oliver & Associates
Collier Co. FL		Aug-91	66	44			1.91	66.7		Tindale-Oliver & Associates
Collier Co. FL		Aug-91	118	40			1.17	33.9	_ 😘	Tindale-Oliver & Associates
Hernando Co, FL	5.43	May-96	136	82	311.83	9a-6p	1.68	60.2	315.27	Tindale-Oliver & Associates
Hernando Co, FL	3.13	May-96	168	82	547.34	9a-6p	1.59	4B B	425.04	Tindale-Oliver & Associates
Lake Co. FL	2.20	Apr-01	376	252	934.30		2.50	74.6	1742 47	Tindale-Oliver & Associate:
Lake Co. FL	3.20	Apr-01	171	182	654.90		4.10	47.8	7.8	Tindale-Oliver & Associates
Lake Co. FL	3.80	Apr-01	188	137	353.70	(A)	3.30	70.8	826.38	Tindale-Oliver & Associates
Pasco Co. FL	2.66	Apr-02	100	46	283.12	9a-6p	5.10	46.0		Tindale-Oliver & Associates
Pasco Co. FL	2.96	Apr-02	486	164	515.32	9a-6p	2.72	33.7	472.92	Tindale-Oliver & Associates
Pasco Co., FL	4.42	Apr-02	168	120	759.24	9a-6p	1.89	71.4	1024.99	Tindale-Oliver & Associates
Orange Co. FL	8 93	2			377.00			11	(44)	Orange County
Total Size	48.8	13	4,463		Avera	ge Trip Length:	2.42			
ITE	<u>63.0</u>	21			Weighted Averag	ge Trip Length:	2.05			
Blended total	111.8				Weighter	d Percent New	Trip Average:	57.9		
	34.0						Weighter	Average Trip Ger	neration Rate:	530.19

Weighted Percent New Trip Average: 57.9
Weighted Average Trip Generation Rate: 530.19 496.12 **511.00** ITE Average Trip Generation Rate: Blend of FL Studies and ITE Average Trip Generation Rate:

Automobile Care Center (ITE LUC 942)

Location	Size (1,000 sf)	Date	Total # Interviews	#Trip Length Interviews	Trip Gen Rate	Time Period	Trip Length	Percent New Trips	VMT	Source
Jacksonville, FL	2.3	2/3-4/90	124	94		9a-5p	3.07	76.0		Tindale-Oliver & Associates
Jacksonville, FL	2.3	2/3-4/90	110	74	- 2	9a-5p	2.96	67.0	- 68	Tindale-Oliver & Associates
Jacksonville, FL	2.4	2/3-4/90	132	87	- 54	9a-5p	2.32	66.0	2.00	Tindale-Oliver & Associates
Lakeland, FL	5.2	Mar-90	24	14		9a-4p	1.36	59.0	7.5	Tindale-Oliver & Associates
Largo, FL	5.5	Sep-89	34	30	37.64	9u-5p	2.40	88.0	79.50	Tindale-Oliver & Associates
Orange Co. FL	25.0	Nov-92	41	39	72	2-60	4.60	*	- 283	LCE, Inc.
Lakeland, FL	1 1	Mar-90	54	42	- F	9a-4p	2.44	78.D	7.82	Tindale-Oliver & Associates
Total Size	42.6	6	519		Averag	ge Trip Length:	2.74			
ITE	102.0	. 6			Weighted Avera	e Trip Length:	3.62			

Weighted Percent New Trip Average:

Weighted Average Trip Generation Rate:
ITE Average Trip Generation Rate:
Blend of FL Studies and ITE Average Trip Generation Rate: 37.64 31.10 31.43

72 2

Service Station with and w/o Car Wash (ITE LUC 944 & 946)

Size (1,000 sf)	Date	Total #	#Trip Length	Trip Gen Rate	Time Period	Trip Length	Percent New	VMT	Source
0.6	Nov-89		14	-	Ram-5pm	1.90			Tindale-Oliver & Associates
9.9			40			1.01	23,8		Tindale-Oliver & Associates
0.6	1	238		Avera	ge Trip Length:	1.46			
48.0	6		1 1 1 2 2	Weighted Avera	ge Trip Length:	1.90			
120.0	10			Weighter	d Percent New	Trip Average:	23,0		
	0.6 0.6 48.0	0,6 Nov-89 - Aug-91 0,6 1 48,0 6	Date Interviews O.6 Nov-89 70	Size (1,000 sf) Date Interviews Interviews 0.6 Nov-89 70 14 - Aug-91 166 40 - 0.6 1 238 40 48.0 6 6 6 6	Date Interviews Interview	Size (1,000 sf) Date Interviews Inte	Size (1,000 sf) Date Interviews Inte	Size (1,000 sf) Date Interviews Inte	Size (1,000 sf) Date Interviews Interviews Trip Gen Rate Time Period Trip Length Trips VMT

Weighted Percent New Trip Average: 23.0
ITE Average Trip Generation Rate - per fuel position (LUC 944): 168.56
ITE Average Trip Generation Rate - per fuel position (LUC 946): 152.84
Blended ITE Average Trip Generation Rate - per fuel position: 157.33

Self-Service Car Wash (ITE LUC 947)

				SCII-SCI AIC	C Cui TTUS	11 (11 = =0	00411			
Location	Size (Bays)	Date	Total # Interviews	#Trip Length Interviews	Trip Gen Rate	Time Period	Trip Length	Percent New Trips	VMT	Source
Largo, FL	10	Nov-89	111	84		8am-5pm	2.00	76.0	÷:	Tindale-Oliver & Associates
Clearwater, FL	2.8	Nov-89	177	108		10am-5pm	1.30	61.0		Tindale-Oliver & Associates
Collier, FL	11	Dec-09	304		30.24		2.50	57.0		Tindale-Oliver & Associates
Collier, FL	8	Jan-09	186		22.75		1.96	72.0		Tindale-Oliver & Associates
Total Size	29		778		Avera	ge Trip Length:	1.94			
Total Size (TGR)	19	1	2	6 I S/d I	Weighted Avera	ge Trip Length:	2.15			
ITE	5		i		Weighted	Percent New	Trip Average:	67.7		
Blended total	24						Weighter	d Average Trip Gen	eration Rate:	27,09

Weighted Average Trip Generation Rate: 27,09
ITE Average Trip Generation Rate: 108.00
Blend of FL Studies and ITE Average Trip Generation Rate: 43,94

APPENDIX E Transportation Impact Fee: Cost Component Calculations

Cost Component

This appendix presents the detailed calculations for the cost component of the transportation impact fee update. Backup data and assumptions are provided for all cost variables (for county and state roads), including:

- Design
- Right-of-Way
- Construction
- Construction Engineering/Inspection
- Roadway Capacity

Urban Design vs. Rural Design

Due to a lack of roadway construction data for rural-design roadways, the cost per lane mile for these types of roads was calculated using an adjustment factor. This factor was based on the rural-to-urban design cost ratio from the most recent District 7 Long Range Estimates (LRE) provided by FDOT. Based on the LRE, the cost for rural-design roadway capacity expansion (new road construction or lane addition) is approximately 81 percent of the cost of urban-design roadway improvements. For all subsequent tables (for county and state roadways), costs are presented for urban-design roadways, with the rural-design roadway costs being calculated using the cost ratio from Table E-1.

Table E-1
Urban / Rural Design Cost Factor

Cibali / Karai Design Cost (acco.						
Improvement	Cost per Lane Mile					
Improvement	Rural Design	Urban Design	Ratio			
0-2 Lanes	\$2,534,872	\$3,660,722	69%			
0-4 Lanes	\$2,060,744	\$2,583,635	80%			
0-6 Lanes	\$1,750,755	\$2,105,746	83%			
2-4 Lanes	\$2,946,063	\$3,386,132	87%			
4-6 Lanes	\$3,300,893	\$3,782,969	87%			
Average	\$2,518,665	\$3,103,841	81%			

Source: FDOT District 7 Long Range Estimates, 2014

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 through a review of the design-to-construction cost ratios from recently completed and bid improvements in Brevard County and from previously completed impact fee studies throughout Florida. For county roadways, the design factors ranged from 6 percent to 19 percent, with a weighted average of 10 percent from recent studies and 16 percent from local studies. For purposes of this update study, the design cost for county roads was calculated at 12 percent of the construction cost per lane mile based on a review of the available data (see Tables E-10 and E-11 for additional information).

Table E-2
Design Cost Adjustment – County Roads

Road Type	Design Cost per Lane Mile ⁽¹⁾	Section Design Distribution ⁽²⁾	Weighted Design Cost per Lane Mile (3)
Urban Design	\$253,000	78%	\$197,000
Rural Design	\$205,000	22%	\$45,000
Weighted Average De	\$242,000		

- (1) Design cost is estimated at 12% of construction cost based on recent local projects (Table E-10) and recent TIF studies (Table E-11, Item a); construction cost is shown in Table E-14
- (2) Source: Appendix E, Table E-17 (Items c and d)
- (3) Design cost per lane mile (Item 1) multiplied by the associated section design weight (Item 2) for each design type and added together

All figures rounded to nearest \$1,000

State Roadways

The design cost factor for state roads was estimated as a percentage of the construction cost per lane mile. This factor was determined through a review of the design-to-construction cost ratios for state road unit costs in previously completed impact fee studies throughout Florida. For state roadways, the design factors ranged from 10 percent to 14 percent, with a weighted average of 11 percent. For purposes of this update study, the design cost for state roads was calculated at 11 percent of the construction cost per lane mile. See Table E-11 for additional information.

Table E-3
Design Cost Adjustment – State Roads

Road Type	Design Cost per Lane Mile ⁽¹⁾	Section Design Distribution ⁽²⁾	Weighted Design Cost per Lane Mile ⁽³⁾
Urban Design	\$330,000	78%	\$257,000
Rural Design	\$267,000	22%	\$59,000
Weighted Average Des	\$316,000		

- (1) Design cost is estimated at 11% of construction cost based on recent TIF studies in Table E-11 (Item b); construction cost is shown in Table E-15
- (2) Source: Appendix E, Table E-17 (Items c and d)
- (3) Design cost per lane mile (Item 1) multiplied by the associated section design weight (Item 2) for each design type and added together
- All figures rounded to nearest \$1,000

Right-of-Way

The ROW cost reflects the total cost of the acquisitions along a corridor that was 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

To determine a ROW acquisition cost per lane mile for county roads, Tindale Oliver conducted a review of recently completed ROW acquisitions and current ROW estimates along capacity expansion projects in Brevard County and also reviewed ROW estimates from recent transportation impact fee studies from other counties in Florida. For impact fee purposes, the ROW cost for county roads was estimated as a percentage of the construction cost per lane mile. This factor was determined through a review of the ROW-to-construction cost ratios for county road unit costs from recent local projects and in previously completed impact fee studies throughout Florida. For county roadways in Brevard County, the ROW factors ranged from 32 percent to 39 percent, with a weighted average of 35 percent, as shown in Table E-12. For purposes of this update study, the ROW cost for county roads was calculated at 35 percent of the construction cost per lane mile, which is slightly lower than the average ROW-to-construction cost ratio of 40 percent observed in other Florida jurisdictions.

Table E-4
Right-of-Way Cost Adjustment – County Roads

Road Type	ROW Cost per Lane Mile ⁽¹⁾	Section Design Distribution ⁽²⁾	Weighted ROW Cost per Lane Mile ⁽³⁾
Urban Design	\$739,000	78%	\$576,000
Rural Design	\$599,000	22%	\$132,000
Weighted Average RO\	\$708,000		

- (1) ROW cost is estimated at 35% of construction cost based on recent Brevard County improvements in Table E-12; construction cost is shown in Table E-14
- (2) Source: Appendix E, Table E-17 (Items c and d)
- (3) ROW cost per lane mile (Item 1) multiplied by the associated section design weight (Item 2) for each design type and added together

All figures rounded to nearest \$1,000

State Roadways

Similar to county roads, the ROW cost for state roads was estimated as a percentage of the construction cost per lane mile. Given the limited data on ROW costs for state roads in Brevard County and based on experience in other jurisdictions, the ROW cost ratio calculated for county roads was also applied to state roads. Using this ROW-to-construction ratio of 35 percent, the weighted average ROW cost for state roadways is approximately \$1.01 million per lane mile.

Table E-5
Right-of-Way Cost Adjustment – State Roads

Road Type	ROW Cost per Lane Mile ⁽¹⁾	Section Design Distribution ⁽²⁾	Weighted ROW Cost per Lane Mile ⁽³⁾
Urban Design	\$1,050,000	78%	\$819,000
Rural Design	\$851,000	22%	\$187,000
Weighted Average R	\$1,006,000		

- (1) ROW cost is estimated at 35% of construction cost based on recent local county roadway improvements in Table E-12; construction cost is shown in Table E-15
- (2) Source: Appendix E, Table E-17 (Items c and d)
- (3) ROW cost per lane mile (Item 1) multiplied by the associated section design weight (Item 2) for each design type and added together.

All figures rounded to nearest \$1,000

Construction

County Roadways

A review of construction cost data for recent local county roadway capacity expansion projects identified three recent improvements in Brevard County.

These improvements had a weighted average construction cost of approximately \$2.28 million per lane mile.

- Pineda Causeway Extension from I-95 to West of Wickham Road
- Babcock Street from South of Foundation Road to Malabar Road
- St. Johns Heritage Pkwy from Southeast of I-95 Intersection to US 192 (Space Coast Parkway)

In addition to local data, a review of recently bid projects throughout the state of Florida was conducted. As shown in Table E-14, a total of 81 additional projects from 16 different counties provided a weighted average cost per lane mile of \$2.10 million per lane mile. When combined with the three local improvements, the weighted average cost per lane mile is approximately \$2.11 million per lane mile. Based on this data, a construction cost of \$2.11 million per lane mile for county roadways with urban design characteristics urban (curb & gutter) was used to calculate the transportation impact fee for Brevard County.

Table E-6
Construction Cost Adjustment – County Roads

construction cost Adjustment County Needs						
Road Type	Construction Cost per Lane Mile ⁽¹⁾	Section Design Distribution ⁽²⁾	Weighted Constr. Cost per Lane Mile ⁽³⁾			
Urban Design	\$2,112,000	78%	\$1,647,000			
Rural Design	\$1,711,000	22%	\$376,000			
Weighted Average C	\$2,023,000					

⁽¹⁾ Source: Table E-14. Rural design is estimated at 81% of urban design costs (see Table E-1)

- (2) Source: Appendix E, Table E-17 (Items c and d)
- (3) Construction cost per lane mile (Item 1) multiplied by the associated section design weight (Item 2) for each design type and added together.

All figures rounded to nearest \$1,000

State Roadways

A review of construction cost data for recent local state roadway capacity expansion projects identified two improvements with an average construction cost of approximately \$3.93 million per lane mile.

- SR 5 (US 1) from North of Pine Street to North of Cidco Road
- SR 507 (Babcock Street) from Melbourne Avenue to Fee Avenue

In addition to looking at local data, a review of recently bid projects located throughout the state of Florida was conducted. As shown in Table E-15, a total of 58 projects (including the two projects in Brevard County) from 31 different counties estimated a weighted average cost per lane mile of \$2.72 million per lane mile.

Based on the local and statewide data, a cost per lane mile of \$3.00 million for state roads with urban design characteristics was used in the transportation impact fee calculation. This cost reflects the higher costs observed in Brevard County and District 5, but also considers the lower costs observed throughout the state. The use of \$3.00 million per lane mile is a conservative approach that still reflects local characteristics.

Table E-7
Construction Cost Adjustment – State Roads

Road Type	Construction Cost per Lane Mile ⁽¹⁾	Section Design Distribution ⁽²⁾	Weighted Constr. Cost per Lane Mile ⁽³⁾
Urban Design	\$3,000,000	78%	\$2,340,000
Rural Design	\$2,430,000	22%	\$535,000
Weighted Average C	\$2,875,000		

- (1) Source: Table E-15. Rural design is estimated at 81% of urban design costs
- (2) Source: Appendix E, Table E-17 (Items c and d)
- (3) Construction cost per lane mile (Item 1) multiplied by the associated section design weight (Item 2) for each design type and added together.

All figures rounded to nearest \$1,000

Construction Engineering/Inspection

County Roadways

The CEI cost factor for county roads was estimated as a percentage of the construction cost per lane mile. Based on a discussion with County Staff, a CEI-to-construction cost factor of 17 percent was used for purposes of this impact fee update study. This figure is higher than factors observed in other Florida jurisdictions, but is representative of local conditions

based on input from County staff. As shown in Table E-8, this resulted is a weighted average CEI cost of approximately \$0.34 million per lane mile for county roadways.

Table E-8
CEI Cost Adjustment – County Roads

	Li cost riajastinant	outling mount	
Road Type	CEI Cost per Lane Mile ⁽¹⁾	Section Design Distribution ⁽²⁾	Weighted CEI Cost per Lane Mile ⁽³⁾
Urban Design	\$359,000	78%	\$280,000
Rural Design	\$291,000	22%	\$64,000
Weighted Average	\$344,000		

- (1) CEI cost is estimated at 17% of construction cost based on discussions with County Staff; construction cost is shown in Table E-14
- (2) Source: Appendix E, Table E-17 (Items c and d)
- (3) CEI cost per lane mile (Item 1) multiplied by the associated section design weight (Item 2) for each design type and added together.

All figures rounded to nearest \$1,000

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 through a review of the CEI-to-construction cost ratios for state road unit costs in previously completed impact fee studies throughout Florida. For state roadways, the CEI factors ranged from 8 percent to 17 percent, with a weighted average of 11 percent. For purposes of this update study, the CEI cost for state roads was calculated at 11 percent of the construction cost per lane mile (see Table E-16 for additional information).

Table E-9
CEI Cost Adjustment – State Roads

Road Type	CEI Cost per Lane Mile ⁽¹⁾	Section Design Distribution ⁽²⁾	Weighted CEI Cost per Lane Mile ⁽³⁾		
Urban Design	\$330,000	78%	\$257,000		
Rural Design	\$267,000	22%	\$59,000		
Weighted Average CE	I Cost per Lane Mile		\$316,000		

- (1) CEI cost is estimated at 11% of construction cost based on recent TIF studies in Table B-16 (Item b); construction cost is shown in Table E-15
- (2) Source: Appendix E, Table E-17 (Items c and d)
- (3) CEI cost per lane mile (Item 1) multiplied by the associated section design weight (Item 2) for each design type and added together.

All figures rounded to nearest \$1,000

16.2%	\$34,002,432	\$375,645	\$5,491,924							Total
19.4%	\$16,763,567	\$524,024	\$3,259,432	bid 0 to 2 Suburban	0 to 2		2014	US 192 (Space Cost Pkwy)	SE of I-95 Intersection	St. Johns Heritage Pkwy SE of I-95 Intersection US 192 (Space Cost Pkwy)
13.0%	\$17,238,865	\$265,773	\$2,232,492	0 to 4 Urban	0 to 4	bid	2010	W. of Wickham Rd		Pineda Cswy Extension I-95
Design / Construction	_	Design Cost Construction per Lane Mile Cost	Design	Section Design	Bid Year Status Feature	Status	Bid Year	То	From	Description

Source: Brevard County Public Works Department

Tindale Oliver March 2015

Table E-11

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

(b)			(a)				
11%	\$2,767,938	\$309,268	10%	\$2,330,406	\$234,663	Average	
11%	\$1,776,000	\$196,000	10%	\$1,598,000	\$159,000	Indian River	2014
10%	\$2,400,000	\$240,000	10%	\$2,200,000	\$220,000	Charlotte	2013
11%	\$2,024,000	\$222,640	10%	\$1,980,000	\$198,000	Hernando	2013
11%	\$2,600,000	\$286,000	10%	\$2,400,000	\$240,000	City of Sarasota	2012
11%	\$2,900,000	\$319,000	12%	\$2,400,000	\$288,000	City of Orlando	2012
n/a		•	11%	\$2,400,000	\$264,000	Orange	2012
11%	\$2,847,800	\$313,258	14%	\$2,651,400	\$371,196	Osceola	2012
10%	\$2,000,000	\$200,000	10%	\$2,400,000	\$240,000	Sarasota/North Port	2011
10%	\$2,418,000	\$241,800	7%	\$1,708,000	\$119,560	Collier	2010
12%	\$3,500,000	\$420,000	11%	\$2,800,000	\$308,000	Hillsborough/Tampa	2009
10%	\$2,170,000	\$217,000	6%	\$1,590,000	\$95,400	Polk	2009
10%	\$3,200,000	\$320,000	7%	\$3,100,000	\$217,000	Collier	2009
10%	\$2,380,000	\$238,000	8%	\$2,237,000	\$178,960	Sumter	2008
11%	\$3,383,000	\$372,130	8%	\$2,660,000	\$212,800	Leon	2008
10%	\$3,095,258	\$309,526	11%	\$2,651,778	\$291,696	Volusia	2007
n/a	ï		10%	\$1,740,000	\$174,000	Flagler	2007
10%	\$3,184,125	\$318,412	8%	\$2,911,021	\$232,882	Lake	2007
14%	\$3,050,799	\$427,112	8%	\$3,079,051	\$246,324	Pasco	2007
11%	\$1,430,919	\$154,643	10%	\$1,941,244	\$185,333	Marion	2006
14%	\$2,480,900	\$347,326	14%	\$1,678,785	\$235,030	Highlands	2006
14%	\$2,860,227	\$400,432	14%	\$2,584,099	\$361,774	Citrus	2006
10%	\$3,385,978	\$349,643	13%	\$2,558,546	\$323,639	Collier	2006
Design Ratio	Constr.	Design	Design Ratio	Constr.	Design	County	Tedi
ane Mile)	ways (Cost per Lane Mile)	State Roadw	Lane Mile)	County Roadways (Cost per Lane Mile)	County Road	Comety	V
				,			

Source: Recent impact fee studies constructed throughout Florida Note: Letter references (i.e., "a") are used to assist with footnotes and sourcing

Brevard County Impact Fee Update Study Tindale Oliver March 2015

Table E-12
Right-of-Way Factor – Recent County Road Improvements in Brevard County

35.4%	\$822,367 \$34,002,432	\$822,367	\$12,023,003							Total
38.9%	\$16,763,567	\$1,047,275	\$6,514,051	Suburban	0 to 2	bid	2014	St. Johns Heritage Pkwy SE of I-95 Intersection US 192 (Space Cost Pkwy) 2014 bid 0 to 2 Suburban \$6,514,05	SE of I-95 Intersection	St. Johns Heritage Pkwy
32.0%	\$17,238,865	\$655,828	\$5,508,952	bid 0 to 4 Urban	0 to 4	bid	2010	W. of Wickham Rd		Pineda Cswy Extension I-95
Right-of-Way / Construction	Construction Right-of-Way Cost Construction	Right-of-Way Cost per Lane Mile	Right-of-Way	Section Design	Bid Year Status Feature	Status	Bid Year	То	From	Description
		- Country			7	4 1100		ingline of realy success section of the property section in the section of the se	in Singini	

Source: Brevard County Public Works Department

March 2015 **Tindale Oliver**

Table E-13

Right-of-Way Factor for County & State Roads – Recent Impact Fee Studies

)																									
,		2014	2013	2013	2012	2012	2012	2012	2011	2010	2009	2009	2009	2008	2008	2007	2007	2007	2007	2006	2006	2006	2006	g	Voor
	Average	Indian River	Charlotte	Hernando	City of Sarasota	City of Orlando	Orange	Osceola	Sarasota/North Port	Collier	Hillsborough/Tampa	Polk	Collier	Sumter	Leon	Volusia	Flagler	Lake	Pasco	Marion	Highlands	Citrus	Collier	county	County
	\$947,502	\$656,000	\$1,034,000	\$811,800	\$620,000	\$1,080,000	\$1,080,000	\$1,087,074	\$620,000	\$901,000	\$1,500,000	\$1,491,000	\$1,300,000	\$802,000	\$1,120,000	\$858,109	\$460,000	\$599,185	\$814,517	\$1,005,123	\$468,853	\$784,599	\$1,751,790	ROW	County Road
<u>1</u>	\$2,330,406	\$1,598,000	\$2,200,000	\$1,980,000	\$2,400,000	\$2,400,000	\$2,400,000	\$2,651,400	\$2,400,000	\$1,708,000	\$2,800,000	\$1,590,000	\$3,100,000	\$2,237,000	\$2,660,000	\$2,651,778	\$1,740,000	\$2,911,021	\$3,079,051	\$1,941,244	\$1,678,785	\$2,584,099	\$2,558,546	Constr.	County Roadways (Cost per Lane Mile)
(a)	41%	41%	47%	41%	26%	45%	45%	41%	26%	53%	54%	94%	42%	36%	42%	32%	26%	21%	26%	52%	28%	30%	68%	Design Ratio	ane Mile)
	\$1,164,286	\$781,000	\$1,128,000	\$890,560	\$1,144,000	\$1,305,000		\$1,167,598	\$800,000	\$901,000	\$2,500,000	\$550,000	\$1,300,000	\$1,400,000	\$1,363,000	\$954,543		\$1,462,133	\$1,560,714	\$868,908	\$507,500	\$949,979	\$1,751,790	ROW	State Roady
	\$2,654,350	\$1,776,000	\$2,400,000	\$2,024,000	\$2,600,000	\$2,900,000	1	\$2,847,800	\$2,000,000	\$2,418,000	\$3,500,000	\$2,170,000	\$3,200,000	\$2,380,000	\$3,383,000	\$3,095,258	ı	\$3,184,125	\$3,050,799	\$1,430,919	\$2,480,900	\$2,860,227	\$3,385,978	Constr.	State Roadways (Cost per Lane Mile)
(b)	44%	44%	47%	44%	44%	45%	n/a	41%	40%	37%	71%	25%	41%	59%	40%	31%	n/a	46%	51%	61%	20%	33%	52%	Design Ratio	ane Mile)

Source: Recent impact fee studies constructed throughout Florida Note: Letter references (i.e., "a") are used to assist with footnotes and sourcing

E-11

March 2015 Findale Olive

alm Beach alm Beach alm Beach

Alafaya Tr Boyette Rd (Ph. III)

S. of C. Stanley Weaver Canal Avaion Park Blvd McMullen Rd

N. of C. Stanley Weaver Canal Mark Twain Blvd Bell Shoals Rd

2009 2009 2010 2010

Urban Urban Urban Urban Urban

Santa Barbara Blvd Extension Poinciana Blvd (Ph. II)
Old Lake Wilson Rd (Ph. I) Taft-Vineland Road Extension CR 535 (Segments C and E) Ernie Caldwell Blvd Ph. I and IIA County Line Rd Ph. I and II Crescent Lakes
Livingston Rd
Palm Springs Blvd
Douglas Rd
Tatum Rd A&W Bulb Rd FDC Grove Rd Deltona Blvd SR 60 Rattlesnake Hammock Rd Construction Cost – County Road Improvements from Brevard County and Other Jurisdictions throughout Florida Coburn Rd Hood Rd W. of Lyons Rd Royal Palm Beach High School Entr. US 192 Hiawassee Rd 45th St Ocoee Apopka Rd Ficquette Rd Douglas Rd River Pines Apts S. of Sabal Creek Blvd US 301 Old Dixie Hwy FL Turnpike Central Florida Pkwy President's Dr Yamato Rd North Part Pine Ridge Rd E.F. Griffin Rd S. of SR 50 From 20th Ave 17th Lane SW W. of Hagen Ranch Rd E. of Florida's Turnpike N. of Moody Bridge Hillsborough Ave Debrecen Rd SR 417 FL Mall Orange Co. Line Pine Tree Trai W. Pipkin Rd **86 SN** Davis Blvd Challenger Pkwy N. of NPBWCD EPB-10 Canal A&W Bulb Rd Tradeshow Blvd Butler Ridge Dr Humphrey St Pace Rd Orange Co. Line Clark 64th Dr N Clint Moore Rd Winkler Rd Linebaugh Ave John Young Pkwy Buenaventura Blvd inclair Rd Year 2009 2009 2009 2008 Status Bid Bid Bid Bid Bid Bid Bid Bid Feature 0/1 to 2 2 to 4/6 4 to 6 2 to 4 2 to 4 2 to 4 2 to 4 2 to 4 2 to 4 2 to 4 2 to 5 2 to 4 2 to 4 2 to 4 2 to 6 2 to 4 2 to 4 0 to 2 0 to 6 2 to 4 Sub-Urb Design Urban Length 7.40 1.57 2.50 2.30 7.20 0.56 0.72 0.70 0.65 0.50 0.40 0.85 1.02 1.20 0.52 0.52 3.00 4.70 100 2.50 1.80 194 1.10 2.00 1.00 1.01 1.80 1.86 1.91

\$1,886,715 \$15,294,751 \$30,529,591

\$1,322,855 \$1,009,615 \$1,814,149 \$2,549,125 \$3,247,829

\$2,050,830

\$10,182,738

\$4,088,942 \$4,630,327 \$2,396,040 \$6,748,642 \$13,971,509

\$2,568,292

Osceola

John Young Pkwy

Race Track Rd Ph. I CR 466 (Segment A) Berkley Rd Ph. II and III

llsborough

Orange

Orange

Osceola

sceola

Osceola Pkwy (Ph. I) Narcoossee Rd

arasota

illsharaugh

Bruce B. Downs
Race Track Rd (Ph. IV)
Fruitville Rd (Ph. I)
Fruitville Rd (Ph. II)

Colonial Blvd (CR 884)

College Lane Rd

sborough

ıdian River

16th St

66th Ave

Ernie Caldwell Blvd Extension IRSC

CR 54/Reagan Pkwy 74th Ave

2009 2009

> 0 to 2 0 to 2

> > Urban Urban Urban

> > > 0.50

\$14,720,000 \$40,575,305 \$4,397,412

\$1,900,000 \$3,200,000 \$3,200,000 \$1,408,865 \$1,963,130 \$3,024,858

\$4,355,

\$16,000,000 \$47,360,000

\$5,966,000 \$4,462,535 \$6,020,755

\$3,187,525 \$3,200,000

\$3,010,378 \$3,145,340 \$2,036,548 \$1,286,202 \$1,198,020 \$1,367,220

Urban Urban Urban Urban

> 3.01 1.40 1.27

\$13,603,672

\$2,259,746 \$723,198

\$1,229,404 \$1,224,142 \$1,700,000 \$2,699,332 \$3,395,994

\$5,967,464 \$6,364,139 \$3,442,332 \$3,109,321 \$1,700,000 \$8,557,904

\$1,657,629

2009 2009 2009 2009 2009 2009

1.80 2.00 0.20 3.83 2.60

\$4,054,386 \$1,051,680 \$18,918,599 \$23,184,354

\$2,469,791

\$1,013,597

56th Ave Tatum Rd

ian River

ilm Beach

Lyons Rd

takeland Highlands Rd

Hypoluxo Rd Alt. A1A Pine Tree Trail

Jog Rd

Glades Rd S. of Frederick Small Rd

Yamato Rd CR 540A

Military Tr enter St

awrence Rd

Orange

Sand Lake Rd Woodbury Rd Clarcona-Ocoee Rd log Rd/Donald Ross Rd Haverhill Rd

range

alm Beach

Palm Beach Palm Beach

log Rd

alm Beach

Okeechobee Blvd

17th Lane SW 20th Ave SW

laledo-Blade Corridor Gladiolus Dr Ph. II Gladiolus Dr Ph. I Destination Pkwy Clarcona-Ocoee Rd

arlotte Ian Kiver

Lane Miles Construction Cost
Added

Construction Cost per Lane Mile

\$12,035,894

\$1,002,991

\$10,827,839 \$13,951,130 \$25,910,148 \$7,405,914 \$11,109,225 \$4,062,660

\$1,453,243 \$1,769,819 \$2,012,477 \$2,908,174 \$2,908,174 \$2,031,330 \$2,713,085

\$10,099,911

\$5,154,862

\$3,693,616

\$2,803,484 \$3,230,000

\$3,017,443

\$2,124,960 \$3,504,359 \$1,678,91 \$1,900,000 \$2,499,97 County

District

Description

Table E-14 (continued)
Construction Cost – County Road Improvements from Brevard County and Other Jurisdictions throughout Florida

23 100 000											Used in Impact Fee Calculation	moad Fee C	liked in
\$2,283,167		39.42	w	Count:							Y	Brevard County ONLY	Brevard
\$2,095,081		399.66	81	Count:							unty	Excluding Brevard County	Excludin
\$2,603,497		116.44	23	Count							ents ONLY	District 5 Improvements ONLY	District !
\$2,111,967	S	439.08	84	Count:									Total
\$2,695,107	\$16,763,567	6.22	2	311	Sub-Urb	0 to 2	Bid	2014	US 192 (Space Coast Pkwy)	SE of 1-95 Intersection	St. Johns Heritage Pkwy	5	Brevard
\$4,501,065		11.42	2	5.71	Urban	2 to 4	Bid	2014	Desoto Blvd	Wilson Blvd	Golden Gate Blvd	-	Collier
\$3,860,789	\$21,157,124	5.48	2	2.74	Urban	4 to 6	Bid	2014	Green Blvd	Golden Gate Blvd	Collier Blvd (CR 951)	1	Collier
\$2,258,065	\$56,000,000	24.80	2	12.40	Urban	2 to 4	PIB	2013	Malabar Rd	S. of Foundation Park Blvd	Babcock St	57	Brevard
\$1,273,801		3.00	2	1.50	Urban	0 to 2	Bid	2012	SR 7	E. of Royal Palm Beach Blvd	60th St N & SR 7 Ext.	4	Palm Beach
\$5,511,704		1.60	2	0.80	Urban	2 to 4	Bid	2012	Starkey Rd	W. of Lyons Rd	West Atlantic Ave	4	Palm Beach
\$1,219,241	\$3,413,874	2.80	4	0.70	Urban	0 to 4	Bid	2012	N. of Florida's Turnpike	N. of SR 710	Jog Rd	4	Palm Beach
\$3,517,371	\$5,276,057	1.50	2	0.75	Urban	2 to 4	Bid	2012	Peruvian Ln	SR 40	Tymber Creek Rd	5	Volusia
\$1,406,967		8.00	4	2.00	Urban	0 to 4	Bid	2012	US 17	US 98	Bartow Northern Connector Ph. I	4	Palk
\$2,968,948		6.00	2	3.00	Urban	2 to 4	Bid	2012	Duff Rd	Galloway Rd	Kathleen Rd (CR35A) Ph. II	-	Polk
\$3,405,474		6.10	2	3.05	Urban	2 to 4	Bid	2012	49th St	SR 60	66th Ave	4	Indian River
\$1,657,479	\$3,812,202	2.30	2	1.15	Urban	2 to 4	Bid	2012	58th Ave	43rd Ave	Oslo Rd Ph. III	4	Indian River
\$1,258,839	\$4,531,822	3.60	ω	1.20	Urban	2 to 40	Bid	2011	27th Ave	43rd Ave	Oslo Rd Ph. II	4	Indian River
\$2,815,082	s	4.80	2	2.40	Urban	2 to 4	Bid	2011	Notre Dame Blvd	US 41	Burnt Store Rd (Ph. I)	#	Charlotte
\$832,712		6.40	2	3.20	Urban	0 to 2	Bid	2011	5. of Boynton Beach Blvd	N. of West Atlantic Ave	Lyons Rd	4	Palm Beach
\$1,106,381	\$4,646,801	4.20	2	2.10	Urban	2 to 4	Bid	2011	Ken Austin Pkwy	SR 50	Sunshine Grove Rd	7	Hernando
\$1,813,896	\$2,684,566	1.48	2	0.74	Urban	2 to 4	Bid	2011	East 3900'	Mariner Blvd	Elgin Blvd	7	Hernando
\$3,512,715	\$10,327,383	2,94	2	1.47	Urban	4 to 6	Bid	2011	72nd St	Starkey Rd (CR 1)	Bryan Dairy Rd	1	Pinellas
\$1,000,000		7.06	2	3.53	Urban	0 to 2	Bid	2011	Sand Mine Rd	Tri-County	Goodman Rd	5	Osceola
\$3,062,252		2.74	2	1.37	Urban	2 to 4	Bid	2011	SR 429	Magnolia Park Ct	CR 535 Seg. A	5	Orange
\$5,650,048	s	5.20	2	2.60	Urban	2 to 4	Bid	2011	Corporate Blvd	SR 50	Rouse Rd	5	Orange
\$708,915		4.10	2	2,05	Urban	4 to 6	Bid	2011	Gateway Blvd	Chamberlin Pkwy	Daniels Pkwy	-	Lee
\$2,383,056	\$12,153,584	5,10	2	2,55	Urban	2 to 4	Bid	2011	Desoto Rd	Richardson Rd	North Cattlemen Rd	1	Sarasota
\$2,052,246	\$17,238,865	8 40	4.	2.10	Urban	0 to 4	Bid	2010	W. of Wickham Rd	1-95	Pineda Cswy Extension	5	Brevard
\$2,112,239	\$26,614,211	12.60	2	6.30	Urban	2 to 4	Bid	2010	Forest Ridge Blvd	SR 44	CR 486	7	Citrus
\$1,007,461	\$2,820,892	2.80	2	1.40	Urban	2 to 4	Bid	2010	S. of Orange Blvd	S. of M Canal	Seminole Pratt Whitney Rd	4	Palm Beach
\$1,182,198	\$9,930,460	8.40	2	4.20	Urban	2 to 4	Bid	2010	Sycamore Dr	SR 80	Seminole Pratt Whitney Rd	4	Palm Beach
\$2,357,961	\$6,130,698	2.60	2	1.30	Urban	4 to 6	Bid	2010	Melaluca Un	Lantana Rd	Congress Ave	4	Palm Beach
\$2,480,200	\$4,960,399	2.00	4	0.50	Urban	0 to 4	Bid	2010	N. of 45th St	S. of 45th St	log Rd	4	Palm Beach
\$4,141,034	\$12,423,103	3.00	2	1.50	Urban	2 to 4	Bid	2010	E. of Haverhill Rd	log Rd	45th St	4	Palm Beach
\$3,802,997	\$7,605,993	2.00	4	0.50	Urban	0 to 4	Bid	2010	Indian River Blvd	Lateral H Canal	53rd St	4	Indian River
\$857,843	\$7,000,000	8.16	4	2.04	Urban	0 to 4	Bid	2010	Lateral H Canal	Kings Hwy	53rd St	4	Indian River
\$2,054,239	\$8,627,803	4.20	2	2.10	Sub-Urb	2 to 4	Bid	2010	Jones Loop Rd	Henry St	Piper Rd	1	Charlotte
\$1,085,961	\$6,711,242	6,18	2	3.09	Urban	2 to 4	Bid	2010	S, of Winkler Rd Ext.	Daniels Pkwy	Six Mile Cypress Pkwy	1	Lee
\$840,878	\$15,875,782	18.88	4	4.72	Urban	2 to 6	Bid	2010	W. of Camp Keais Rd	W. of Oil Well Grade Rd	Oil Well Rd (Segment 4A)	1	Callier
\$1,381,966	\$15,091,068	10.92	2/4	5.05	Urban	2 to 4/6	Bid	2010	E. of Everglades Blvd	immokalee Rd	Oil Well Rd (Segment 2)	1	Collier
\$1,582,574	\$6,330,297	4.00	2	2.00	Urban	2 to 4	Bid	2010	SR 7 (US 441)	NW 64th Ave / SW 81st Ave	Bailey Rd	4	Broward
per Lane Mile	Construction Cost	Added	Added	Length	Design	Feature	Status	Year	То	From	Description	District	County
Construction Cost		Lane Miles	Lanes	1				Ī		.1			

Source: Brevard County Public Works Department and roadway bids from recent impact fee studies throughout Florida as well as recent bids from the Tindale Oliver Cost Database, with information having been provided by each respective County

Brevard County Impact Fee Update Study

Table E-15 Construction Cost – State Road Improvements from Brevard County and Other Jurisdictions throughout Florida

\$2,225,456	\$14,242,918	6.40	2	3.20	Urban	4 to 6	Bid	2012	S. of Barry Rd	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	116 77		D-11.
\$7,255,674	\$12,189,533	1,68	2	0.84	Urban	2 to 4	Bid	2012	W. of Australian Ave	W. of Congress Ave	SR 710/Beeline Hwy	4	Palm Beach
\$2,808,704	\$10,111,333	3.60	2	1.80	Urban	4 to 6	Bid	2012	Rangeline Rd	1-4	SR 434	ភ	Seminole
\$1,744,519	\$14,025,932	8.04	6	1.34	Urban	0 to 6	Bid	2012	Hanson St	Winkler Ave	SR 739	1	lee
\$1,399,489	\$8,117,039	5,80	2	2.90	Urban	2 to 4	Bid	2012	US 27	CR 833	SR 80	1	Hendry
\$1,285,509	\$12,855,092	10,00	2	5.00	Urban	2 to 4	Bid	2012	Dalton lane	Birchwood Pkwy	SR 80	_	Hendry
\$2,106,865	\$13,231,111	6.28	2	3.14	Urban	0 to 2	Bid	2012	Old Jennings	Oakleaf Plantation Pkwy	SR 23	2	Clay
\$9,660,5	\$8,694,472	0.90	2	0.45	Urban	4 to 6	Bid	2012	W. of Good Homes Rd	E. of West Oaks Mall	SR 50	ιπ	Orange
\$3,276,098	\$39,444,222	12.04	2	6.02	Urban	4 to 6	Bid	2012	W. of CR 587/Mariner Blvd	US 19 (SR 55)	SR 50 (Cartez Blvd)	7	Hernando
\$4,757,149	\$14,081,161	2.96	2	1.48	Urban	4 to 6	Bid	2012	W. 46th St	W. 23rd St	SR 823/NW 57th Ave	6	Miami-Dade
\$2,442,621	\$17,196,050	7.04	4	1.76	Urban	6 to 10	Bid	2012	S. of Countryside Blvd	N. of CR 576/Sunset Pnt	US 19 (SR 55)	7	Pinellas
\$1,815,286	\$18,388,845	10,13	2	5.07	Urban	2 to 4	Bid	2012	0.3 miles N. of Acorn Lake	Reed Ellis Rd	SR 415	5	Volusia
\$4,132,149	\$18,718,637	4.53	2	2.26	Urban	2 to 4	Bid	2012	Reed Ellis Rd	Seminole Co. Line	5R 415	ъ	Volusia
\$1,547,4	\$10,956,198	7.08	4	1.77	Urban	2 to 6	Bid	2012	W. of Radio Rd	E. of Santa Barbara Blvd	SR 84 (Davis Blvd)	1	Collier
\$3,927,203	\$7,147,510	1.82	2	0.91	Urban	3 to 5	Bid	2011	E. of Parsons Ave	W. of Highview Rd	SR 574 (MLK Blvd)	7	Hillsborough
\$2,504,444	\$16,278,889	6.50	2	3.25	Urban	4 to 6	Bid	2011	Lake Ella Rd	Martin Luther King Jr. Blvd	SR 500 (US 441)	'n	lake
\$5,546,787	\$9,540,473	1.72	2	0.86	Urban	2 to 4	Bid	2011	W. of US 17 (SR 555)	W. of US 98/Broadway	SR 60 (Van Fleet)	_	Palk
\$5,636,310	\$16,908,929	3.00	2	1.50	Urban	4 to 6	Bid	2011	W. of Seminole Bypass	E. of 119th St	SR 688 (Ulmerton Rd)	7	Pinellas
\$1,158,532	\$14,782,862	12.76	4	3.19	Urban	0 to 4	Bid	2011	N. of Knights Griffin	N. of I-4	CR 39/Alexander St	7	Hillsborough
\$3,015,220	\$4,341,917	1.44	2	0.72	Urban	4 to 6	Bid	2011	Edgewood Dr	Brooks St	US 98 (Bartow Hwy)	1	Polk
\$1,599,883	\$18,782,630	11.74	2	5.87	Urban	2 to 4	Bid	2010	MP 5.871	Okeechobee County Line	SR 70	4	St. Lucie
\$1,670,619	\$11,092,909	6.64	2	3,32	Urban	4 to 6	Bid	2010	N. of CR 540A	S. of Manor Dr	86 ST	1	Palk
\$1,431,102	\$12,822,677	8.96	2	4.48	Urban	4 to 6	Bid	2010	San Carlos Blvd	Corkscrew Rd	US 41	ш	ee
\$2,413,923	\$7,145,212	2.96	2	1.48	Urban	2 to 4	Bid	2010	N. of CSX R/R Bridge	S. of Moor's Lodge	SR 281 (Avaion Blvd)	ω	anta Rosa
\$3,163,662	\$5,378,226	1.70	2	28.0	Urban	2 to 4	Bid	2010	S. of Moor's Lodge	SR 8 (I-10)	SR 281 (Avaion Blvd)	ш	Santa Rosa
\$1,993,907	\$2,751,592	1.38	2	0.69	Urban	0 to 2	Bid	2010	Derby Ave	SR 655 (Recker Hwy)	SR 559 Extension	1	Polk
\$1,803,705	\$4,689,633	2.60	2	1,30	Urban	4 to 6	Bid	2010	W. of Hancock Rd	E. of Grand Hwy	5R 50	и	ake
\$2,580,617	\$8,877,323	3.44	2	1,72	Urban	2 to 4	Bid	2009	Strickland Rd	N. Environmental Rd	SR 79	ω	Nashington
\$1,277,049	\$3,856,688	3.02	2	1,51	Urban	2 to 4	Bid	2009	Marion County Line	N. of CR 204	SR 35 (US 301)	Ş	umter
\$1,425,002	\$12,426,020	8.72	2	4.36	Urban	2 to 4	Bid	2009	MP 10.216	MP 5.860	SR 70	4	t. Lucie
\$2,570,388	\$9,150,583	3.56	2	1.78	Urban	2 to 4	Bid	2009	SR 10 (US 90)	Gulf Rd	SR 281 (Avaion Blvd)	3	anta Rosa
\$2,867,860	\$5,621,006	1,96	2	0.98	Urban	2 to 4	Bid	2009	S. of Commerce Rd	N. of CSX R/R Bridge	SR 281 (Avalon Blvd)	ш	anta Rosa
\$1,314,125	\$4,100,069	3.12	2	1.56	Urban	2 to 4	Bid	2009	S. of SR 544	N. of CR 546	US 27	_	olk
\$2,127,762	\$6,383,286	3.00	2	1.50	Urban	2 to 4	Bid	2009	NW 57 Avenue	NW 72 Avenue	Perimeter Rd	60	Aiami-Dade
\$1,284,286	\$3,596,000	2.80	2	1.40	Urban	2 to 4	Bid	2009	529' S. of CR 42	Sumter County Line	SR 35 (US 301)	5	Marion
\$2,565,854	\$21,040,000	8.20	2	4.10	Urban	4 to 6	Bid	2009	CR 675	Erie Rd	US 301	1	Vianatee
\$1,243,317	\$20,663,929	16.62	6	2.77	Urban	0 to 6	Bid	2009	Six Mile Cypress Pkwy	US 41 (S. of Alico)	SR 739	1	ee
\$2,233,279	\$12,685,027	5.68	2	2.84	Urban	2 to 4	Bid	2009	Ridge Rd	Tower Rd	US 41 (SR 45)	7	Pasco
\$4,146,636	\$8,293,271	2.00	2	1.00	Urban	4 to 6	Bid	2009	Desoto Rd	Myrtle Ave	US 301	1	Sarasota
\$3,533,087	\$18,372,050	5.20	2	2.60	Urban	4 to 6	Bid	2009	Myrtle Ave	Wood St	US 301	1	arasota
\$1,199,765	\$7,366,557	6.14	2	3.07	Urban	4 to 6	Bid	2009	W of 82nd Ave/CR 609	W. of I-95	SR 60 (Osceola Blvd)	4	ndian River
\$2,916,695	\$18,083,510	6.20	2	3.10	Urban	2 to 4	Bid	2009	Walden Rd	Dempsey Mayo Rd	SR 10 (Mahan Drive)	3	eon
\$4,949,024	\$35,929,914	7.26	2	3.63	Urban	4 to 6	Bid	2008	Pine Hills Rd	Good Homes Rd	SR 50	5	Orange
\$4,301,580	\$18,496,793	4,30	2	2.15	Urban	4 to 6	Bid	2008	66th Ave/CR 505	W. of 82 Ave	SR 60/Osceola Blvd	4	ndian River
\$4,398,106	\$14,953,562	3.40	2	1.70	Urban	4 to 6	Bid	2008	S. of Indian River Bend	5. of Oslo Rd	SR 5 (US 1)	4	ndian River
\$2,309,402	\$55,702,777	24.12	4	6.03	Urban	2 to 6	Bid	2008	N. of Gibsonton Rd	S_ of Balm Rd	US 301 (SR 43)	7	Hillsborough
\$2,800,328	\$11,649,363	4,16	2	2.08	Urban	2 to 4	Bid	2008	S. end of Choctaw Bridge	SR 30 (US 98)	SR 83 (US 331)	a	Walton
per Lane Mile		Added	Added	d							action priori	Diakine.	County
Construction Cost	Construction Cost	ĭ	Lanes	Length	Design	Feature	Status	Year	Ĭo	From	Description	District	Collety

Construction Cost - State Road Improvements from Brevard County and Other Jurisdiction	interior (continued)
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County	District	Description	from	То	Year	Status	Feature	Design	Length	Lanes Added	Lane Miles Added	Construction Cost	Construction Cost per Lane Mile
Polk	1	US 98 (SR 35/SR 700)	N. of CR 540A	SR 540	2012	Bid	4 to 6	Urban	3.45	2	6.90	\$18,004,051	\$2,609,283
Brevard	5	SR 5 (US 1)	N. of Pine St	N. of Cidco Rd	2012	8id	4 to 6	Urban	3.84	2	7,68	\$29,360,536	\$3,822,986
Brevard	5	SR 507 (Babcock St)	Melbourne.Ave	Fee Ave	2013	8id	2 to 4	Urban	0.55	2	1.10	\$5,167,891	\$4,698,083
Hillsborough	7	SR 41 (US 301)	S, of Tampa Bypass Canal	N. of Fowler Ave	2013	8id	2 to 4	Sub-Urb	1.81	2	3,61	\$15,758,965	\$4,365,364
lee	4.1	US 41 Business	Littleton Rd	SR 739	2013	Bid	2 to 4	Urban	1.23	2	2.46	\$8,488,393	\$3,450,566
Orange	5	SR 50 (Colonial Dr)	E. of CR 425 (Dean Rd)	E. of Old Cheney Hwy	2013	Bid	4 to 6	Urban	4.91	2	9.82	\$66,201,688	\$6,741,516
Okeechobee	1	SR 70	NE 34th Ave	NE 80th Ave	2014	Bid	2 to 4	Urban	3,60	2	7.20	\$23,707,065	\$3,292,648
Martin	4	CR 714/Indian St	Turnpike/Martin Downs Blvd	W. of Mapp Rd	2014	Bid	2 to 4	Urban	1.87	2	3.74	\$14,935,957	\$3,993,571
Broward	4	SR 7	N. of Hallendale 8ch	N. of Fillmore St.	2014	Bid	4 to 6	Urban	1.79	2	3.57	\$30,674,813	\$8,592,385
Broward	4	Andrews Ave Ext.	Pompano Park Place	S. of Atlantic Blvd	2014	Bid	2 to 4	Urban	0.36	2	0.72	\$3,177,530	\$4,413,236
Charlotte	1	US 41 (SR 45)	Enterprise Dr	Sarasota County Line	2014	Bid	4 to 6	Urban	3.62	2	7.24	\$31,131,016	\$4,299,864
Total		200	The state of the s				011		Count:	58	326.64	\$887,771,634	\$2,717,890
District 5	District 5 Improvements ONLY	ents ONLY							Count:	12	59.94	\$220,994,525	\$3,686,929
Excluding	Excluding Brevard County	ounty							Count:	56	317.86	\$853,243,207	\$2,684,337
Brevard (Brevard County ONLY	Y							Count:	2	8.78	\$34,528,427	\$3,932,623
Used in Ir	Used in Impact Fee Calculation	alculation											000 000 65

Tindale Oliver March 2015

Construction Engineering/Inspection Factor – County & State Roads Table E-16

		N	N	N	N	N	N	N	2	2	2	2	2	2	2	2	2	2	2	N.1		<
		2014	2013	2013	2012	2012	2012	2011	2010	2009	2009	2009	2008	2008	2007	2007	2007	2007	2006	200	Tedi	2
	Average	Indian River	Charlotte	Hernando	City of Sarasota	City of Orlando	Osceola	Sarasota/North Port	Collier	Hillsborough/Tampa	Polk	Collier	Sumter	Leon	Volusia	Flagler	Lake	Pasco	Citrus	Collier	County	Campbu
	\$213,260	\$159,000	\$220,000	\$198,000	\$240,000	1	\$265,140	\$216,000	\$119,560	\$308,000	\$111,300	\$186,000	\$223,700	\$372,400	\$238,660	\$174,000	\$116,441	\$215,534	\$180,887	\$294,054	CEI	County Road
1	\$2,380,494	\$1,598,000	\$2,200,000	\$1,980,000	\$2,400,000	\$2,400,000	\$2,651,400	\$2,400,000	\$1,708,000	\$2,800,000	\$1,590,000	\$3,100,000	\$2,237,000	\$2,660,000	\$2,651,778	\$1,740,000	\$2,911,021	\$3,079,051	\$2,584,099	\$2,558,546	Constr.	County Roadways (Cost per Lane Mile)
(a)	9%	10%	10%	10%	10%	n/a	10%	9%	7%	11%	7%	6%	10%	14%	9%	10%	4%	7%	7%	11%	CEI Ratio	Lane Mile)
	\$4,940,031	\$196,000	\$240,000	\$222,640	\$286,000	1	\$313,258	\$180,000	\$241,800	\$315,000	\$217,000	\$320,000	\$238,000	\$270,640	\$309,526	ï	\$318,412	\$442,849	\$474,464	\$354,442	CEI	State Roadw
	\$46,275,187	\$1,776,000	\$2,400,000	\$2,024,000	\$2,600,000	\$2,900,000	\$2,847,800	\$2,000,000	\$2,418,000	\$3,500,000	\$2,170,000	\$3,200,000	\$2,380,000	\$3,383,000	\$3,095,258	1	\$3,184,125	\$3,050,799	\$2,860,227	\$3,385,978	Constr.	vays (Cost per Lane Mile)
(b)	11%	n/a	n/a	n/a	n/a	n/a	11%	9%	10%	9%	10%	10%	10%	8%	10%	n/a	10%	15%	17%	10%	CEI Ratio	ane Mile)

Source: Recent impact fee studies constructed throughout Florida Note: Letter references (i.e., "a") are used to assist with footnotes and sourcing

Roadway Capacity

As shown in Table E-17, the average capacity per lane mile was based on the planned improvements projects in the 2035 Long Range Transportation Plan's Cost Feasible Plan. This listing of projects reflects the mix of improvements that will yield the vehicle miles of capacity (VMC) that will be built in Brevard County.

Table E-17 ard County 2035 Long Range Transportation Pla

			DIEVALO COUNTY ZO	prevaru county 2000 cong nange iransportation Fian							
Jurisdiction	Description	From	То	Improvement	Length	Lanes Added	Lane Miles Added	Initial Capacity	Future Capacity	Added Capacity	Vehicle Miles of Capacity Added
Regional Roads	ds		Contractor of the last						STATE OF	THE PERSON NAMED IN	
County	Babcock St	Malabar Rd	Foundation Park	Widen Road (2 to 4 Lanes)	1.24	2	2.48	16,830	37,350	20,520	25,445
	Babcock St	Foundation Park	Micco Rd	Widen Road (2 to 4 Lanes)	6.80	2	13.60	16,830	37,350	20,520	139,536
	Babcock St	Micco Rd	Indian River County	Widen Road (2 to 4 Lanes)	4.20	2	8.40	15,120	34,110	18,990	
	Ellis Rd	John Rodes Blvd	Wickham Rd	Widen Road (2 to 4 Lanes)	1.68	2	3.36	16,830		20,520	34,474
	Malabar Rd	Babcock St	US 1	Widen Road (2 to 4 Lanes)	2.99	2	5.98	18,700	41,500	22,800	68,172
`	Malabar Rd	Bridge	St. Johns Heritage Pkwy	Widen Road (2 to 4 Lanes)	1.02	2	2.04	14,040		16,380	16,708
	South St (SR 405)	Existing 4 lane section	SR 50	Widen Road (2 to 4 Lanes)	4.51	2	9.02	18,700		22,800	
	SR 524	1-95 Interchange (South)	Industry Rd	Widen Road (2 to 4 Lanes)	2.98	2	5.96	18,700	41,500	22,800	67,944
`	St. Johns Heritage Pkwy	John Rodes Blvd	US 192	New 2 Lane Road	3.15	2	6.30	0	21,780	21,780	68,607
	St. Johns Heritage Pkwy	US 192	Palm Bay City Limits	New 2 Lane Road	3.02	2	6.04	0	21,780	21,780	65,776
	US 1	Eyster Blvd	Pineda Causeway	Widen Road (4 to 6 Lanes)	8.96	2	17.92	32,400	50,000	17,600	157,696
	US 192	St. Johns Heritage Pkwy	Wickham Rd	Widen Road (4 to 6 Lanes)	2.98	2	5.96	39,800	59,900	20,100	59,898
ride	7/5							A CONTRACTOR		The state of the s	100
State	Clearlake Rd	Michigan Ave	Industry Rd	Widen Road (2 to 4 Lanes)	1.10	2	2.20	16,400	35,700	19,300	21,230
County	Hollywood Blvd	US 192	Paim Bay Rd	Widen Road (2 to 4 Lanes)	3.11	2	6.21	16,830	37,350	20,520	63,725
	Powerline Rd	St. Johns Heritage Pkwy	Minton Rd	New 2 Lane Road	3.49	2	6.98	0	16,830	16,830	58,737
City	Powerline Rd	Minton Rd	Hollywood Dr	New 2 Lane Road	1.02	2	2,04	0	16,830	16,830	
~	St. Andrews	Judge Fran Jamison	Stadium Pkwy	New 4 Lane Road	1.21	4	4.84		30,420	30,420	36,808
	Stadium Parkway	Fiske Blvd	Viera Blvd	Widen Road (2 to 4 Lanes)	1.50	2	3.00	16,830	37,350	20,520	30,780
	Viera Blvd	Herons Landing	Schenck Rd	Widen Road (2 to 4 Lanes)	0.94	2	1,88	16,830			
	Washingtonia Ext	Wickham Rd	St. Johns Heritage Pkwy	New 2 Lane Road (ROW for 4 Lan	9.28	2	18.56	0	16,830	16,830	156,182
ន្ល័	ids):						132.77				1,290,760
County/City Roads:	Roads:						85.73	65% (a)	(a)		812,992
State Roads:							47.04	35% (b)	(b)		477,768
Urban Section Design:	n Design:						103.77	78% (c)	(c)		1,038,112
Rural Section Design:	Table 1						29.00	22% (d)	(d)		252,648

Source: Brevard County 2035 Long Range Transportation Plan; Plan includes adjustments based on discussions with County Staff Note: Letter references (i.e., "a") are used to assist with footnotes and sourcing

APPENDIX F Transportation Impact Fee: Credit Component Calculations

Credit Component

This appendix presents the detailed calculations for the credit component of the transportation impact fee update. Currently, in addition to the capital support that ultimately results from State fuel tax revenues, Brevard County also receives financial benefit from several other funding sources. Of these, County fuel taxes that are collected in Brevard 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¢/gallon)

- 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. 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.

Brevard County does not levy ninth-cent fuel tax on motor fuel and the 2nd Option Fuel Tax, which are the other local fuel taxes available.

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 2013-14 data represent projected fuel tax distributions to Brevard County for the current fiscal year. In the table, the fuel tax revenue data are used to calculate the value per penny (per gallon of fuel) that should be used to estimate the "equivalent pennies" of other revenue sources. Table F-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 gas tax revenues. The weighted average figure of approximately \$3.09 million estimates the annual revenue that one penny of gas tax generates in Brevard County.

Table F-1
Estimated Fuel Tax Distribution Allocated to Capital Programs for Brevard County & Municipalities, FY 2013-14⁽¹⁾

<u></u>	Amount of Levy	Total	Distribution
Тах	per Gallon	Distribution	Per Penny
Constitutional Fuel Tax	\$0.02	\$5,934,228	\$2,967,114
County Fuel Tax	\$0.01	\$2,615,696	\$2,615,696
1st Local Option (1-6 cents)	\$0.06	\$19,280,398	\$3,213,400
Total	\$0.09	\$27,830,322	=
Weighted Average per Penn	y ⁽²⁾		\$3,092,258

⁽¹⁾ Source: Florida Legislature's Office of Economic and Demographic Research, http://edr.state.fl.us/content/local-government/reports/

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⁽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).

Gas Tax Credit

A revenue credit for the annual gas tax equivalent expenditures on roadway capacity expansion projects in Brevard County is presented below. The two components of the credit are as follows:

- County gas tax equivalent pennies
- State gas tax expenditures

County Gas Tax Equivalent Pennies

A review of the County's historical roadway financing program and the Capital Improvement Plan (CIP) for FY 2014-2018 indicates that a combination of transportation impact fees, fuel tax bonds, fuel tax revenues, and grants are used to fund roadway capacity expansion projects. As shown in Table F-2, Brevard County receives a credit of 1.5 pennies for the portion of non-impact fee revenues dedicated to capacity expansion projects such as new road construction, lane additions, and intersection improvements.

Table F-2
County Gas Tax Equivalent Pennies

Source	Cost of Projects	Number of Years	Revenue from 1 Penny ⁽³⁾	Equivalent Pennies ⁽⁴⁾
Historical County Expenditures (FY 2008-2013) ⁽¹⁾	\$13,510,743	6	\$3,092,258	\$0.007
Projected CIP Expenditures (FY 2014-2018) ⁽²⁾	\$37,504,023	<u>5</u>	\$3,092,258	\$0.024
Total	\$51,014,766	11	\$3,092,258	\$0.015

(1) Source: Table F-5(2) Source: Table F-5(3) Source: Table F-1

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

Additionally, the County is currently using gas tax revenues to retire debt on the 2007 and 2014 local option fuel tax revenue bonds that were used to help capacity expansion improvements. As show in Table F-3, a credit of 1.8 pennies is given for outstanding debt service in Brevard County.

Table F-3
County Gas Tax Equivalent Pennies for Debt Service

Source	Total Payment Remaining	Number of Years	Revenue from 1 Penny ⁽³⁾	Equivalent Pennies ⁽⁴⁾
Series 2007 LOFT Refunding Revenue Bond ⁽¹⁾	\$71,076,036	23	\$3,092,258	\$0.010
Series 2014 LOFT Refunding Revenue Bond ⁽²⁾	\$30,466,287	12	\$3,092,258	\$0.008
Total	\$101,542,323		\$3,092,258	\$0.018

(1) Source: Table F-6(2) Source: Table F-7(3) Source: Table F-1

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

State Gas Tax Expenditures

In the calculation of the equivalent pennies of gas tax from the State funded capacity expansion projects for the 18-year period (from FY 2003 to FY 2020) were reviewed. For calculation purposes, the 18-year period was broken into three increments; two historical (FY 2003-2008 and FY 2009-2014) and one future (FY 2015-2020). Information on historical projects' funding and the future year estimates was obtained from the FDOT Work Programs. The use of an 18-year period, for purposes of developing a State credit for roadway 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 capacity-adding projects for the 12-year "historical" period and projected in the six-year "future" time period are as follows:

- FY 2003-2008 work plan equates to 7.1 pennies
- FY 2009-2014 work plan equates to 9.0 pennies
- FY 2015-2020 work plan equates to 4.4 pennies

The combined weighted average over the 18-year period of state expenditure for capacity-adding roadway projects results in a total of 6.8. Table F-4 documents this calculation. The specific projects that were used in the equivalent penny calculations are summarized in Table F-8.

Table F-4
Equivalent Penny Calculation for State Portion

Equitarion and	.,			
Source	Cost of Projects	Number of Years	Revenue from 1 Penny ⁽⁴⁾	Equivalent Pennies ⁽⁵⁾
Historical Work Program (FY 2003-2008) ⁽¹⁾	\$131,119,772	6	\$3,092,258	\$0.071
Historical Work Program (FY 2009-2014) ⁽²⁾	\$166,587,117	6	\$3,092,258	\$0.090
Projected Work Program (FY 2015-2020) ⁽³⁾	<u>\$81,817,043</u>	<u>6</u>	\$3,092,258	\$0.044
Total	\$379,523,932	18	\$3,092,258	\$0.068

(1) Source: Table F-8
 (2) Source: Table F-8
 (3) Source: Table F-8
 (4) Source: Table F-1

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

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Project Title	Description	FY 2008-2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	Total
Capacity Improvement	Hall Rd at SR 3	\$271,605	\$0	\$0	\$0	\$0	90\$	\$0)	\$271,605
Capacity Improvement	Wickham Rd ITS	\$721,049	\$0	\$0	50	\$0	\$0	\$0	\$721,049
Capacity Improvement	Pineda Cswy Extension & I-95 Interchange	\$11,588,585	\$0	\$0	\$0	\$0	\$0	\$0	\$11,588,589
Road Improvements	Palm Bay Rd from Robert J. Conlan Blvd to Minton Rd	\$0	\$0	\$58,254	\$0	\$0	\$0	\$0 <u> </u>	\$58,25
Road Widening	S. Wickham Rd from US 192 to NASA Blvd	\$0	\$531,075	\$0	<u>(</u> 0\$	\$0	\$0	\$0]	\$531,07
ntersection Improvements	Hollywood Blvd and Fell Rd	\$0	\$0	\$2,087,216	\$0	\$0	\$0	\$0	\$2,087,21
ntersection Improvements	Fortenberry Rd and Plumosa St	\$0	\$0	\$263,706	\$0	\$0	\$o	\$0	\$263,70
ntersection Improvements	N. Banana River Dr and Martin Blvd	\$0	\$0	\$540,000	\$0	\$0	\$0	\$0	\$540,00
ntersection Improvements	Grissom Rd and Bridge St	\$0	\$9,106	\$0	\$0	\$o	\$a	\$0	\$9,10
Add Right Turn Lane	Murrell Rd at Holiday Springs	\$0	\$0	\$16,931	\$0	\$0	\$0	\$0	\$16,93
Road Improvements	Pineda Cswy at the FEC Railroad Crossing	\$0	\$389,323	\$3,695,233	\$1,813,393	\$14,231,813	\$6,030,238	\$0	\$26,160,00
Road Construction	St. Johns Pkwy from Northern City Limits of Palm Bay to Ellis Rd	<u>\$0</u>	\$o	\$6,850,359	\$1.916,880	50	\$a	50	\$8,767,239
Total		\$12,581,239	\$929,504	\$13,511,699	\$3,730,273	\$14,231,813	\$6,030,238	\$0	\$51,014,76

Total
Source: Brevard County Public Works Department and the FY 2014-2018 Capital Improvement Program

Table F-6
Debt Service Schedule – Series 2007 Local Option Fuel Tax

			zotal o peron	
Bond Yr Ending Aug. 1	Series 2007 Principal	Series 2007 Coupon	Series 2007 Interest	Series 2007 Debt Service
2007	NOVE EL TOTAL	THE CONTRACTOR	\$228,721	\$228,721
2008		5.00%	\$2,421,750	\$2,421,750
2009	。	5.00%	\$2,421,750	\$2,421,750
2010	A TANK CAN THE	5.00%	\$2,421,750	\$2,421,750
2011	A DE LET WE DOG	5.00%	\$2,421,750	\$2,421,750
2012		5.00%	\$2,421,750	\$2,421,750
2013		5.00%	\$2,421,750	\$2,421,750
2014		5.00%	\$2,421,750	\$2,421,750
2015		5.00%	\$2,421,750	\$2,421,750
2016		5.00%	\$2,421,750	\$2,421,750
2017		5.00%	\$2,421,750	\$2,421,750
2018		5.00%	\$2,421,750	\$2,421,750
2019		5.00%	\$2,421,750	\$2,421,750
2020		5.00%	\$2,421,750	\$2,421,750
2021		5.00%	\$2,421,750	\$2,421,750
2022		5.00%	\$2,421,750	\$2,421,750
2023		5.00%	\$2,421,750	\$2,421,750
2024		5.00%	\$2,421,750	\$2,421,750
2025		5.00%	\$2,421,750	\$2,421,750
2026		5.00%	\$2,421,750	\$2,421,750
2027	\$3,410,000	5.00%	\$2,421,750	\$5,831,750
2028	\$3,580,000	5.00%	\$2,251,250	\$5,831,250
2029	\$3,760,000	5.00%	\$2,072,250	\$5,832,250
2030	\$3,945,000	5.00%	\$1,884,250	\$5,829,250
2031	\$4,145,000	5.00%	\$1,687,000	\$5,832,000
2032	\$4,350,000	5.00%	\$1,479,750	\$5,829,750
2033	\$4,570,000	5.00%	\$1,262,250	\$5,832,250
2034	\$4,795,000	5.00%	\$1,033,750	\$5,828,750
2035	\$5,035,000	5.00%	\$794,000	\$5,829,000
2036	\$5,290,000	5.00%	\$542,250	\$5,832,250
2037	\$5,555,000	5.00%	\$277,750	\$5,832,750
Totals	\$48,435,000	5.00%	\$61,948,221	\$110,383,221
	aining (2015-2037			\$93,202,250
	Roadway Capacity		ts	76.26%
	ted to Roadway Ca			\$71,076,036
	rs of Remaining Pa			23
	6 . D. L.P. 144			

Source: Brevard County Public Works Department

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Table F-7
Debt Service Schedule – Series 2014 Local Option Fuel Tax

	ept service se	illedaic sei	ICS EUT TOUG	option i es	
Period Ending	Series 2014 Principal	Series 2014 Coupon	Series 2014 Interest	Series 2014 Debt Service	Annual Debt Service
Aug-14	\$65,000	2,77%	\$137,992	\$202,992	\$202,992
Feb-15			\$442,646	\$442,646	
Aug-15	\$325,000	2.77%	\$442,646	\$767,646	\$1,210,292
Feb-16			\$438,145	\$438,145	
Aug-16	\$2,500,000	2.77%	\$438,145	\$2,938,145	\$3,376,290
Feb-17			\$403,520	\$403,520	
Aug-17	\$2,570,000	2.77%	\$403,520	\$2,973,520	\$3,377,040
Feb-18			\$367,925	\$367,925	
Aug-18	\$2,640,000	2.77%	\$367,925	\$3,007,925	\$3,375,851
Feb-19			\$331,361	\$331,361	
Aug-19	\$2,710,000	2.77%	\$331,361	\$3,041,361	\$3,372,723
Feb-20			\$293,828	\$293,828	
Aug-20	\$2,790,000	2.77%	\$293,828	\$3,083,828	\$3,377,656
Feb-21			\$255,186	\$255,186	
Aug-21	\$2,865,000	2.77%	\$255,186	\$3,120,186	\$3,375,373
Feb-22			\$215,506	\$215,506	
Aug-22	\$2,945,000	2.77%	\$215,506	\$3,160,506	\$3,376,012
Feb-23			\$174,718	\$174,718	
Aug-23	\$3,025,000	2.77%	\$174,718	\$3,199,718	\$3,374,436
Feb-24	7 1 1		\$132,822	\$132,822	
Aug-24	\$3,110,000	2.77%	\$132,822	\$3,242,822	\$3,375,643
Feb-25			\$89,748	\$89,748	
Aug-25	\$3,200,000	2.77%	\$89,748	\$3,289,748	\$3,379,496
Feb-26			\$45,428	\$45,428	
Aug-26	\$3,280,000	2.77%	\$45,428	\$3,325,428	\$3,370,856
Totals	\$32,025,000	2.77%	\$6,519,657	\$38,544,657	\$38,544,657
	maining (2015-2				\$38,341,665
	to Roadway Capa		Projects		79.46%
	cated to Roadwa				\$30,466,287
	ears of Remainin				12

Source: Brevard County Public Works Department

Table F-8 FY 2003 - FY 2020 Brevard County FDOT Work Program - Capacity-Expansion Projects

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F-9

Table F-8 (continued)

FY 2003 - FY 2020 Brevard County FDOT Work Program - Capacity-Expansion Projects

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	Add Right Turn (arrols)	Bathe Signals	Add Turn Lane(s)	Add Turn Larretts)	PDM/Tree study	PORT/Emp shudy	Corridor/Subares Planning	intersection improvement	Traffic Signal Update	Intersection Improvement	Traffic Signals	Traffic Signals	Instrovenent
	S# 5 (VS 1) at Saroo Rd	Weekham Rd at Stadium Plays	SALSODATE 192 STROTHWOOD BID	SR 500/US 192 at Wickham Rd	SR 501 from Nuchigan Ave to ladiatry Rd	SR 404/Proeds Cswy to Park Avenue	Brevard Co Transportation Alternative Capacity Projects	Banana River Or St Martin Stvd	SW 406 W of Singleton Aveto 6 at Singleton Ave	[S4 500 (US 193) at timings on St. Intersection	\$4.520 from Delenger Ave to 5 Beneral Or	SR 530 From Erik Ci to Banana Alver III	Project Centription
JAIOTIE LIS	×	50	\$0	50	36	30	50	50	50	30	50	56	1005 K#
1 \$26,360,A39	8	50	5	50				30	50	2	So	Sa	1002 44
\$11.607.821	0\$	30	10	50			So	\$0	50	\$0	50	20	17 JOSS
\$15,127,254	So	5.0	50	50	50	So	50	50	50	50	50	50	17 3004
\$40,626,127	50	50	8	0.5	50	50	So	50	50	50	50	50	1 TOO 3
\$24,077,651	50	50	50	\$0	50	50	50	50	\$0	20	55	\$0	FY 700E
212721213	15	50	50	50	So	50	50	So	501	\$0	So	50	\$005 A.S
\$15.552.299 5	50	Se	Sa	50	50	50	25	20	50	8	\$6	S	22000
\$11,210,440 51	50	50	SO	501	50	50	So	50	50	50	50	50)	1100
3.156,681 54	50	50	50	50	50	50	50	50	50	\$9	26	50	12/01/21
7.947.902 51	50	śa	56	50	50	50	\$0	Ī	50	\$82,000	\$257,148	50 5	1011
1,168,282 51	50	50	50	SD	50 51	50	02	\$761,995	\$336,557	30	\$3,712	335,744	1010
120,650 521	2377,000	50	50	as	\$1,191,000	50	50	167.75	\$4,156	50	\$16,000 31	206,027	1015
603,347 51	SO	\$552,626	50	50	50	50	50	50	5449,590	50	1.145541	20	N STORES
006,609 515	50	50	50 3	\$ 00	50	50	35 05	50	50	So	50	30	THE PROPERTY
655,595 524.	50	50	\$629,240	\$721,720	50 52	\$0 51.	\$5.546.552 \$5.5	50	50	\$0	50	50	110
112,542 54.	8	50	50	50	\$2,401,025	763,000	\$5,546,358	50	50	50	50	30	ALC: NO.
312,000 5379.5	15 05	\$5 05	50 54	50 57	\$0 53.5	50 51.7	50 5112	50 57	50 57	\$ 05	\$0 51.4	\$0 \$1.7	101
119,912	77,000	\$57,626	1211.240	721,720	154,525	263,000	01016	61.326	THE DEC	\$7,000	126,401	141,777	

Table F-9

Average Motor Vehicle Fuel Efficiency – Excluding Interstate Travel

2,210,471,000,000	160,225,000,000	2,050,246,000,000	Total
1,490,022,000,000	81,065,000,000	1,408,957,000,000	Other Urban
353,410,000,000	32,277,000,000	321,133,000,000	Other Rural
367,039,000,000	46,883,000,000	320,156,000,000	Other Arterial Rural
	6.4	21.6	
	ravel (VMT) @	Vehicle Miles of Travel (VMT) @	
		Travel	

93%	95%	91%	87%	@ 21.6 mpg
7%	5%	9%	13%	@ 6.4 mpg

Percent VMT

	Fuel Consumed	umed	
	Gallons @ 21.6 mpg	Gallons @ 6.4 mpg	
Other Arterial Rural	14,822,037,037	7,325,468,750	22,147,505,787
Other Rural	14,867,268,519	5,043,281,250	19,910,549,769
Other Urban	65,229,490,741	12,666,406,250	77,895,896,991
Total	94,918,796,297	25,035,156,250	119,953,952,547

119,9	2,210,4	Total
54 gallons (milli	71 miles (million	Total Mileage and Fuel
	119,954 gallons (millions)	2,210,471 miles (millions) 119,954 gallons (million

Annual Vehicle Distance Traveled in Miles and Related Data - 2012 by Highway Category and Vehicle Type Source: U.S. Department of Transportation, Federal Highway Administration, Highway Statistics 2012, Section V, Table VM-1

http://www.fhwa.dot.gov/policyinformation/statistics.cfm

Source: See Table F-10

Annual Vehicle Distance Traveled in Miles and Related Data (2012) - By Highway Category and Vehicle Type 1/ Table F-10

Published January 2014	ary 2014							BUS	SUBTOTALS	TABLE VM-1
YEAR	ITEM	LIGHT DUTY VEHICLES SHORT WB ⁽²⁾	MOTOR- CYCLES	BUSES	VEHICLES LONG WB ⁽²⁾	SINGLE-UNIT TRUCKS ⁽³⁾	COMBINATION TRUCKS	ALL LIGHT VEHICLES ⁽²⁾	SINGLE-UNIT 2-AXLE 6-TIRE OR MORE AND COMBINATION TRUCKS	ALL MOTOR VEHICLES
	Motor-Vehicle Travel									
2012	(millions of vehicle-mites) Interstate Rural	141,090	1,279	1,674	43,889	9,249	48,691	184,979	57,940	245,872
2012	Other Arterial Rural	231,314	2,880	2,036	88,842	17,194	29,689	320,156	46,883	371,954
2012	Other Rural	226,777	3,358	2,031	94,356	17,961	14,316	321,133	32,277	358,799
2012	All Rural	599,181	7,516	5,741	227,086	44,403	92,696	826,268	137,100	976,624
2012	Interstate Urban	345,091	2,815	2,359	84,130	14,539	35,614	429,220	50,153	484,547
2012	Other Urban	1,119,085	10,967	6,654	289,872	46,018	35,047	1,408,957	81,065	1,507,643
2012	All Urban	1,464,176	13,782	9,013	374,001	60,557	70,662	1,838,177	131,219	1,992,191
2012	Total Rural and Urban ⁽⁵⁾	2,063,357	21,298	14,755	601,088	104,960	163,358	2,664,445	268,318	2,968,815
2012	Number of motor vehicles	183,171,882	8,454,939	764,509	50,588,676	8,190,286	2,469,094	233,760,558	10,659,380	253,639,386
2012	Average miles traveled per vehicle	11,265	2,519	19,299	11,882	12,815	66,161	11,398	25,172	11,705
2012	Person-miles of travel ⁽⁴⁾ (millions)	2,866,797	22,940	312,797	803,023	104,960	163,358	3,669,821	268,318	4,273,876
2012	Fuel consumed (thousand gallons)	88,541,453	489,115	2,059,305	35,093,224	14,286,505	27,925,585	123,634,677	42,212,090	168,395,187
2012	Average fuel consumption per vehicle (gallons)	483	58	2,694	694	1,744	11,310	529	3,960	664
2012	Average miles traveled per gallon of fuel consumed	23.3	43.5	7,2	17.1	7.3	5.8	21.6	6.4	17.6
(1) The FHWA MV-9, and M\	(1) The FHWA estimates national trends by using State reported Highway Performance and Monitoring System (HPMS) data, fuel consumption data (MF-21 and MF-27), vehicle registration data (MV-1, MV-2, and MV-10), other data such as the R.L. Polk vehicle data, and a host of modeling techniques. Starting with the 2009 VM-1, an enhanced methodology was used to provide timely indicators on	State reported Hi vehicle data, and	ghway Perfor d a host of m	mance and I	Monitoring Syste	em (HPMS) data, g with the 2009	fuel consumption	n data (MF-21 and d methodology wa	MF-27), vehicle registr s used to provide time	ation data (MV-1 ely indicators on
both travel au	both travel and travel behavior changes. (3) Light Duty Vehicles Short WR, passenger care light trucks wans and snort utility vehicles with a wheelhase (WM) equal to or less than 171 inches. Light Duty Vehicles long WR, large passenger.	light trucks vans	and short lit	ility vehicles	s with a wheelh:	ese (M/M) equal	to or less than 1:	21 inches light Du	ty Vahidas lang WA -	arge nassenger
(1)			111111111111111111111111111111111111111	and the second				The state of the s	and a control of control of control	in Pr barren Pri

cars, vans, pickup trucks, and sport/utility vehicles with wheelbases (WB) larger than 121 inches. All Light Duty Vehicles - passenger cars, light trucks, vans and sport utility vehicles regardless of

⁽³⁾ Single-Unit - single frame trucks that have 2-Axles and at least 6 tires or a gross vehicle weight rating exceeding 10,000 lbs. (4) Vehicle occupancy is estimated by the FHWA from the 2009 National Household Travel Survey (NHTS); For single unit truck and heavy trucks, 1 motor vehicle mile travelled = 1 person-mile traveled. (5) VMT data are based on the latest HPMS data available; it may not match previous published results.

AppENDIX G Transportation Impact Fee: Calculated Transportation Impact Fee Schedule

Transportation Impact Fee Schedule

This appendix presents the detailed impact fee calculations for each land use in Brevard County's transportation impact fee schedule. Given the changes in impact fee variables since the last update study in 2000, the calculated fees are significantly higher than the adopted fees. Approximately 80 to 85 percent of the increase is due to the updated cost and credit components, while the remaining change can be attributed to the changes in the demand component (updated trip generation rate, trip length, and percent new trips figures). A detailed description of specific changes in the demand component for each land use is provided in Appendix D, Table D-2.

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Brevard County Impact Fee Update Study

Table G-1
Calculated Transportation Impact Fee Schedule

				,	מורחומונים	n Indenie	carcalated Hallshottanion Impact 1 of Stillegel	100								
g.	Gasoline Tax \$\$ per gallon to capital: Facity life (years): Interest rate	\$0,101 25 3.00%		County Revenues: State Revenues:	\$0,033		Unit Const Capacity p Fu Effectived	Unit Construction Cost: Capacity per lane mile: Fuel Efficiency: Effectivedays per year:	\$3,735,000 9,722 18,43 mpg 365	Эdu	Interstate/Tol	Interstate/Toll Facility Adjustment Factor: Cost per VMC:	Cost per VMC:	17,3% \$384.18		
TELUC	Land Use	Unik	Trip Rate	Trip Rate Source	Assessable Trip Length	Total Trip Length	Trip Length Source		% New Trips Source	Net VMT ¹³	Total Impact Cost	Annual Gas Tax	Gas Tax Credit	Net Impact Fee	Current Impact Fee	% Change
	RESIDENTIAL	The second					STATE OF THE PERSON	S Joseph	THE REAL PROPERTY.	THE REAL PROPERTY.	The same	The same of				
210		qn	7.81	FL Studies (NHTS, AHS, Census)	6.62	7.12	FL Studies	100%	n/a	21.38	\$8,213	\$56	\$76\$	\$7,238	\$4,353	%99
220	Multi-Family (Apartment): 1-2 Stories	du	6.60	Blend ITE 9th & FL Studies	5.10	2,60	FL Studies (LUC 220/230)	100%	n/a	13,92	\$5,347	\$37	\$644	\$4,703	52,677	76%
222/	Multi-Family (Apartment); 3+ Stories	np	4.14	ITE 9th Edition	5.10	2,60	Same as LUC 220	100%	e/u	8.73	\$3.354	\$23	\$401	\$2,953	\$2,381	24%
231	Conda/Duplex/Townhouse; 1-2 Stories	np	7.80	ITE 9th Edition	5.10	5.60	Same as LUC 220	7001	e/u	16.45	\$6,319	\$44	\$766	\$5,553	\$2,677	107%
232	Condo/Duplex/Townhouse; 3+ Stories	du	4.18	ITE 9th Edition	5.10	5.60	Same as LUC 220	100%	e/u	8 81	53.387	\$23	\$401	\$2,986	\$2,381	25%
240		qn	4.17	Florida Studies	4.60	5,10	FLStudies	100%	n/a	7.93	\$3,047	\$21	\$366	\$2,681	\$1,642	63%
253		np	2.25	Blend ITE 9th & FL Studies	3.08	3.58	FL Studies	72%	FL Studies	2.06	\$793	95	\$104	5689	\$378	82%
310	LODGING:	800	98 9	Blend ITE 9th & FL Studies	929	92.9	FL Studies	%99	FLStudies	10.87	\$4.174	\$28	\$488	\$3,686	\$2,735	35%
320		room	5.63	ITE 9th Edition	P. 34	4.84	FL Studies	77%	Ft.Studies	7.78	52,989	125	\$366	\$2,623	\$1,480	77%
	RECREATION:															
416	RV Park ^{O)}	site	1.62	ITE 9th Edition	4.60	5,10	Same as LUC 240	100%	FL Schedules	3.08	\$1,184	85	\$139	\$1,045	\$1,642	-36%
420		boatberth	2.96	ITE 9th Edition	6.62	7.12	Same as LUC 210	%06	FLSchedules	7.29	\$2,802	\$19	\$331	52,471	\$6,430	n/a
430	Golf Course	hole	35,74	ITE 9th Edition	299	7,12	Same as LUC 210	%06	FL Schedules	88.05	\$33,827	\$229	\$3,988	\$29,839	\$11,501	159%
444	Movie Theater w/Matinee	screen	106.63	Blend ITE 6th & FL Studies	27.22	27.2	FL Studies	%88%	EL Studies	86.14	\$33,092	\$255	\$4,440	\$28,652	\$ 4	n/a
491	Racque (/Tennis Club	court	38.70	ITE 9th Edition	5.15	5.65	Same as LUC 710	94%	Same as LUC 492	77.47	\$29,762	\$206	\$3,587	\$26,175	\$9,535	175%
492		1,000 sf	32,93	ITE 9th Edition	5.15	5.65	Same as LUC 710	94%	Ft Studies	65.92	\$25,324	\$115	\$3,047	m:'05	55,761	287%
	INSTITUTIONS:						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								THE STATE OF	
520	Elementary School (Private)	student	1.29	ITE 9th Edition	4.30	4.80	Ft. Schedules	80%	FL Schedules	1,83	\$705	ss	685	\$618	\$273	126%
522	Middle School (Private)	student	1.62	ITE 9th Edition	4.30	4.80	FL Schedules	%06	FL Schedules	2.59	\$996	25	\$122	\$1.85	\$307	185%
530		student	1,71	ITE 9th Edition	4.30	4,80	FL Schedules	%06	FL Schedules	2.74	\$1,051	57	\$122	\$929	\$430	116%
\$		student	2.00	ITE Regression Analysis	6.62	7.12	Same as LUC 210	%06	FL Schedules	4.93	\$1,893	513	\$226	\$1,667	\$842	%86
	1															

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Brevard County Impact Fee Update Study

	Schedule
G-1 (continued)	ortation Impact Fee
Table	culated Transpo

				,	Calculated	Transport	Calculated Transportation Impact Fee Schedule	Schedule	4)							
TELLIC	. Land Use	Unit	Trip Rate	Trip Rate Source	Assessable Trip Length	Total Trip Length	Trip Length Source	Percent New Trips	% New Trips Source	Net VMT ⁽¹⁾	Total Impact Cost	Annual Gas Tax	Gas Tax Credit	Net Impact Fee	Current Impact Fee	% Change
	INSTITUTIONS:			CALL WILLIAM				W. 10055					Name of Street			
550	University/Junior College (more than 7,500 students) (Private)	student	1.50	ITE Regression Analysis	6.62	7.12	Same as LUC 210	%06	FL Schedules	3.70	\$1,420	\$10	\$174	51,246	\$1,236	1%
260	Church	1,000 sf	9,11	ITE 9th Edition	3.90	4.40	FLSchedules	%06	FL Schedules	13.22	\$5,080	\$36	\$627	\$4,453	\$2,532	76%
565	Day Care Center	1,000 sf	71.88	Blend ITE 9th & FL Studies	2.03	2.53	FLStudies	73%	Ft Studies	44 05	\$16,921	\$133	\$2,316	\$14,605	\$11,769	24%
610	Hospital	1,000 sf	13,22	ITE 9th Edition	6,62	7.12	Same as LUC 210	77%	FL Schedules	27.86	\$10,705	572	\$1,254	\$9,451	\$5,354	77%
620		bed	2,76	Blend ITE 9th & FL Studies	2.59	3.09	FL Studies	89%	FL Studies	2.63	\$1,011	\$8	\$139	\$872	\$472	85%
640		1,000 sf	32.80	FL Studies (Pinellas County)	1.90	2.40	FL Studies (Pinellas County)	70%	FL Studies (Pinellas County)	18.04	\$6,930	\$55	\$958	55,972	\$3,552	%89
			The series				NIN THE NAME									B
	General Office 50,000 sf or less ⁱ³⁾	1,000 sf	15.50	ITE 9th equation	5.15	5.65	FL Studies	87%	FL Studies	30.37	\$11,666	\$81	\$1,410	\$10,256	\$5,058	103%
	General Office 50,001-100,000 sf ⁽³⁾	1,000 sf	13,13	ITE 9th equation	5.15	5,65	FLStudies	92%	FL Studies	25.72	\$9,883	\$68	\$1,184	\$8,699	\$5,058	72%
710		1,000 sf	11,12	ITE 9th equation	5.15	5.65	FL Studies	95%	FL Studies	21.79	\$8,370	\$58	\$1,010	57,360	\$5,058	46%
	General Office 200,001-400,000 sf ³¹	1,000 sf	9.41	ITE 9th equation	\$115	5.65	Ft Studies	92%	FL Studies	18 44	\$7,083	\$49	\$853	\$6,230	\$5,058	23%
	General Office greater than 400,000 st ⁽³⁾	1,000 sf	8 54	ITE 9th equation	5.15	5,65	FLStudies	92%	FLStudies	16.73	\$6,428	\$44	\$766	\$5,662	\$5,058	12%
Ę		1,000 sf	23 83	FL Studies	5.55	6,05	FL Studies	89%	FL Studies	48 67	\$18,699	\$128	\$2,229	\$16,470	\$13,024	27%
750	_	1,000 sf	34,72	Blend ITE 9th & FL Studies	5.55	6.05	FL Studies	89%	FL Studies	70.92	\$27,244	\$187	\$3,256	\$23,988	\$13,024	84%
750		1,000 sf	11.70	Blend ITE 9th & FL Studies	7.11	7,61	FL Studies	92%	Same as LUC 710	31.65	\$12,158	\$82	\$1,428	\$10,730	\$6,228	72%
	RETAIL		3/0	THE RESERVED TO SERVED TO				1/1						TOS SECTION		9
	Retail 10,000 sfgla or less ⁽³⁾	1,000 sfgla	96.56	ITE 9th equation	1.27	1.77	Fl.Curve	43%	Fl. Curve	19.55	\$7,509	\$66	\$1,149	56,360	\$5,804	10%
	Retail 10,001-50,000 sfgla ⁽³⁾	1,000 sfgla	86.56	ITE 9th equation	1.87	2.37	FLCurve	26%	FLCurve	37,48	\$14,400	\$115	\$2,003	\$12,397	\$5,804	114%
	Retail 50,001-100,000 sfgla ⁽³⁾	1,000 sfgla	67.91	ITE 9th equation	2.29	2,79	FLCurve	%29	FLCurve	39.87	\$15,317	5117	\$2,037	\$13,280	\$6,396	108%
820		1,000 sfgla	46.23	ITE 9th equation	2.52	3.02	FLCurve	71%	FLCurve	34.20	\$13,140	\$99	\$1,724	\$11,416	\$5,270	117%
_	Retail 300,001-500,000 sfgla ⁽³⁾	1,000 sfgla	38 66	ITE 9th equation	2.75	3.25	FLCurve	75%	FLCurve	32.97	\$12,667	\$94	\$1,637	\$11,030	\$5,833	89%
_	Retail 500,001-1,000,000 sfela ⁽³⁾	1,000 sfgla	30,33	ITE 9th equation	3,34	3.84	FL Curve	81%	FL Curve	33,93	\$13,035	\$94	\$1,637	\$11,398	\$5,834	%56
	Retail greater than 1,000,000 sfgla ⁽³⁾	1,000 sfgla	28 46	ITE 9th equation	3.57	4.07	FLCurve	82%	FI. Curve	34.45	\$13,235	\$95	\$1,654	\$11,581	\$5,834	%66

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Salculated Transportation Impact Fee Schedule Table G-1 (continued)

.52% n/a 133% 120% 76% 97% n/a 75% 38% 81% 27% 48% e/u n/a 0/9 31% 47% 7% \$10,933 \$13,766 \$23,213 \$11,530 \$11,258 \$23,331 \$16,898 \$35,791 \$34,542 \$22,563 \$7,703 \$4,269 n/a n/a n/a n/a Net Impact Fee \$30,550 \$83,355 \$14,323 \$44,471 \$8,770 \$18,932 \$24,865 \$36,395 \$11,395 \$9,407 \$8,955 \$4,619 \$2,349 \$16,534 \$60,821 \$2,330 2990 \$825 Gas Tax Credit \$13,164 \$1,619 \$1,515 \$1,985 \$2,595 \$10,378 \$7,592 \$1,376 \$3,779 \$4,440 \$1,393 \$2,873 \$5,294 5627 \$139 \$331 \$313 Annual Gas Tax \$114 \$149 \$596 \$436 \$18 \$165 5217 \$255 \$304 \$756 593 88 88 536 \$8 \$19 579 Total Impact Cost \$10,146 \$21,805 \$28,644 \$34,990 \$41,689 \$96,519 \$10,922 \$10,348 \$16,308 \$13,014 \$1,129 \$2,680 \$19,129 \$71,199 \$52,063 \$5,246 \$2,643 \$974 % New Trips Source Net VMT⁽¹⁾ 108.52 251.23 185,33 135.52 13.66 91.08 33.87 28.43 26.93 2.94 6,97 42.45 49.79 26.41 56,76 74.56 88 Same as LUC 710 Same as LUC 912 Same as LUC 710 Same as LUC 710 Same as LUC 710 FL Studies FL Studies FL Studies FL Studies FL Studies FL Studies FL Studies Fl. Studies FL Studies FL Studies Ft. Studies FL Studies Percent New Trips 92% %76 95% 77% 71% 72% 23% 88% 95% %67 %95 41% 28% 32% 54% 46% 46% 28% Trip Length Source Same as LUC 912 Same as LUC 710 Same as LUC 710 Same as LUC 710 FL Schedules FL Studies FL Studies FL Studies FL Studies **FL Studies** FL Studies FL Studies FL Studies FL Studies FL Studies FL Studies FL Studies Assessable Total Trip Trip Length Length 4.12 2.40 2.68 \$ 65 9.65 5,65 3,60 2.96 3.64 3.67 2.55 5.10 5.59 2.96 2.58 202 2.01 2 58 5.15 5.15 5,15 3.10 3.14 3,17 190 2.18 4.60 2.08 1.52 1.51 2.0B 9.09 2,46 2.46 2.05 3.62 Blend ITE 9th & FL Studies Blend ITE 9th & FL Blend ITE 9th & FL Blend ITE 9th & FL Blend ITE 9th & FL Blend ITE 9th & FL Blend ITE 9th & FL Blend ITE 9th & FL Blend ITE 9th & FL Blend ITE 9th & FL Blend ITE 9th & FL Blend ITE 9th & FL (944 & 946 Blend) Trip Rate Source ITE 9th Edition ITE 9th Edition ITE 9th Edition ITE 9th Edition ITE 9th Edition ITE 9th Editlor Studies Studies Studies Studies Studies Studies Trip Rate 121.30 116.60 \$11.00 157.33 103 38 719 18 775 14 159 34 91.10 31.43 43.94 S 3.56 28.25 95,96 6.97 5.06 service bay 1,000 sf 1,000 sf 1,000 sf JS 000"1 1,000 sf 1,000 sf 1,000 sf fuel pos. 1,000 sf 1,000 sf 1,000 sf 1,000 sf 1,000 sf 1,000 sf 1,000 sf 1,000 sf 1,000 sf soline/Service Station with or w/o Car Wash armacy/Drug Store with or w/o Drive-Thru nvenience Market w/Gasoline Land Use nience Market (24 hour) Fast Food Rest. w/Drive-Thru High-Turnover Restaurant General Heavy Industrial ank/Savings Walk-In(4) utomobile Care Center General Light Industrial ank/Savings Drive-In Self-Service Car Wash New/Used Auto Sales Quality Restaurant Warehousing INDUSTRIAL TELUC 931 932 934 942 944/ 947 110 22 120 151 841 820 880/ 881 830 911 912 851 853

Source: Net VMT calculated as ((Trip Generation Rate* Trip Length* % New Trips)*(1-Interstate/Toil Facility Adjustment Factor)/2). This reflects the unit of vehicle miles of capacity consumed per unit of development and is multiplied by the Cost per vehicle. The ITE 9" Edition trip generation rate was adjusted to reflect the average occupancy rate of 60 percent based on data provided by the Florida Association of RV Parks and Campgrounds; Peak hour of adjacent street traffic, one hour between 4 and 6pm. multiplied by 10 5 E

(£)

The trip generation rate recommended for the office and shopping center uses the end-point regression value Walk-in Bank was added back into the 9th Edition; Peak hour of adjacent street traffic (one hr between 4 and 6pm) multiplied by 10

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