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# IMPACT FEE STUDY

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**FINAL REPORT**

**September 13, 2011**



Prepared for:

**City of North Port**

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Tindale-Oliver & Associates, Inc.

Planning and Engineering

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September 13, 2011

Mr. Peter Lear  
Director of Finance  
City of North Port  
4970 City Hall Boulevard, Suite 128  
North Port, Florida 34286

RE: Impact Fee Update Study

Dear Mr. Lear:

Enclosed is the Final Technical Report for the City of North Port 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 out pleasure to have worked with the City staff on this important project.

Sincerely,

*Tindale-Oliver & Associates, Inc.*

Steven A. Tindale, P.E., AICP  
President

**CITY OF NORTH PORT  
IMPACT FEE STUDY**

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## I. Introduction and Methodology

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The last major update of the technical support document for City of North Port's Impact Fees was completed and adopted in 2006. To comply with the technical study update requirements of the impact fee ordinance and given the recent changes in variables affecting impact fees, the City of North Port (referred to hereafter as the City) retained Tindale-Oliver & Associates, Inc. (TOA) to update the following impact fee program areas:

*The last technical support document for the City's Impact Fees was completed in 2006.*

- Fire/EMS
- Government Buildings
- Law Enforcement
- Solid Waste
- Parks and Recreation
- Transportation

The methodology used to update the City's impact fee program is a consumption-based impact fee methodology, which has also been used to calculate the City's adopted impact fees as well as impact fees throughout Florida. A consumption-based impact fee charges new development based upon the burden placed on services from each land use (demand). The demand component is measured in terms of vehicle miles of travel per unit of land use in the case of transportation impact fee, waste generation units in the case of solid waste impact fee, and population per unit of land use in all other fees. A consumption-based impact fee is intended to charge new growth the proportionate share of the cost of providing additional infrastructure available for use by new growth. In addition, per the requirements of case law, a credit is subtracted from the total cost to account for contributions of the new development toward any capacity expansion projects through other revenue sources. Contributions used to calculate the credit component include non-impact fee revenues generated by the new development that are used toward capacity expansion projects. In other words, case law requires that the new development should not be charged twice for the same service.

*A consumption-based methodology has been used for this study.*

In this study, existing/achieved level of service (LOS) is used for all fee areas with the exception of the transportation impact fee. If the achieved LOS is higher than the adopted



LOS standard, the City needs to amend the Comprehensive Plan to reflect the commitment to this improved LOS. Alternatively, if the City desires to retain a lower LOS than achieved LOS, impact fee calculations should be revised to reflect this lower LOS. In the case of transportation impact fee, the adopted LOS standard is used.

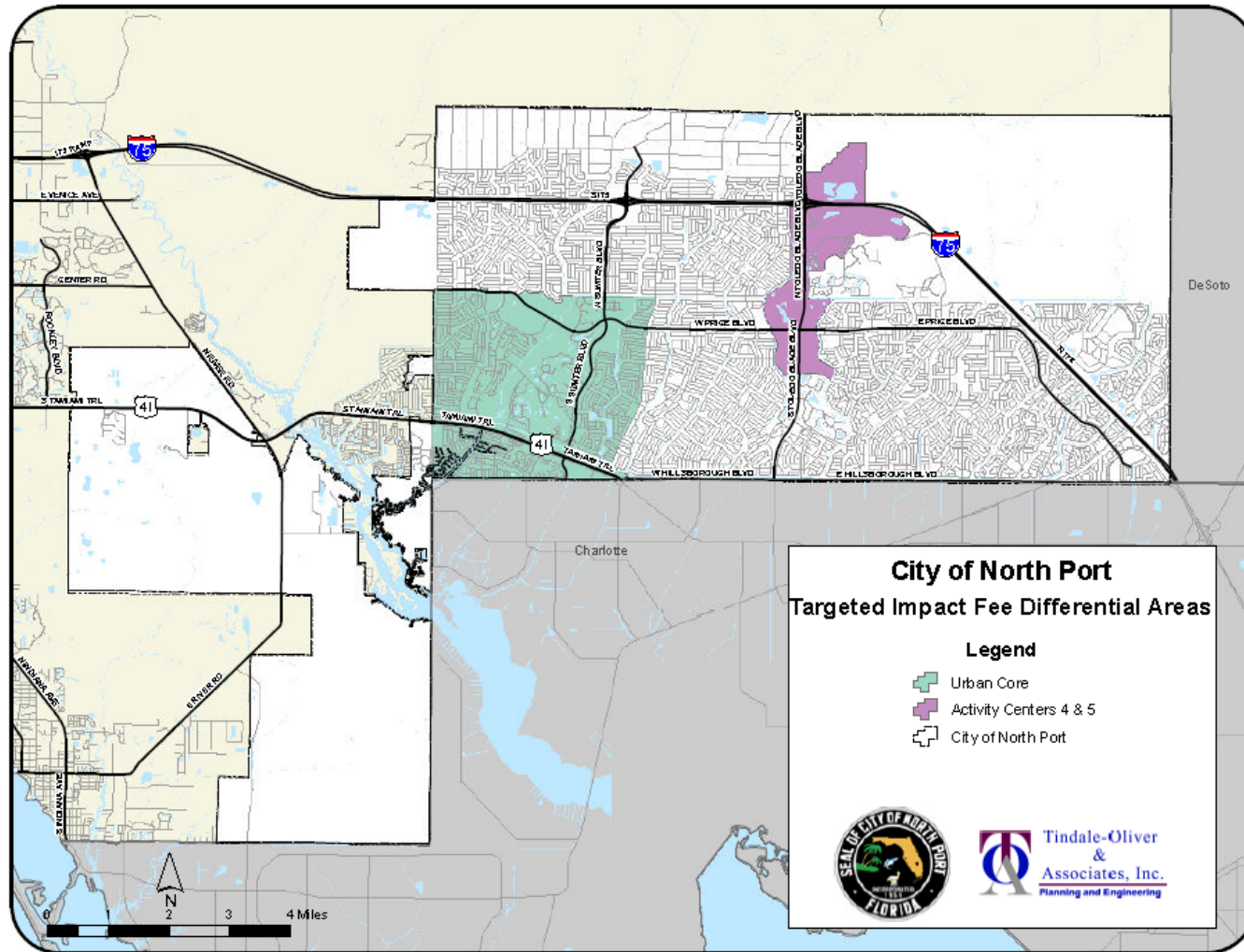
In addition to calculating the maximum legally acceptable fees, the study applies Smart Growth approach to the calculated impact fees for policy consideration. The calculated fees represent the maximum legally acceptable level of impact fees. Reductions shown under the “Smart Growth” approach are strictly for policy consideration, and the City has no legal obligation to provide these reductions.

TOA’s “Smart Growth” concept that has been advanced in other communities to address planning policy issues and provide flexibility in impact fee levels, develop incentives to encourage the right mix of desired land uses in targeted locations, and, from a regulatory perspective, establish an expedited development approval process. Current clients for whom these concepts are being developed or used include the Florida cities of Tampa and Orlando, and Pasco and Osceola Counties. Three components of the Smart Growth concept include a rate of growth analysis, fee buy-down by geographic area, and fee buy-down of “most favored” land uses.

- **Rate of Growth Analysis** – The rate of growth concept allows impact fees to be sensitive to the growth rate within the city. This approach reconciles the relationship between consumption-based and needs-based impact fee methodologies and generally reduces fees in built-up areas while maintaining the existing LOS.
- **Buy-down by Geographic Area and Geographic Goals** – This approach will allow the City to place a priority on select Activity Centers or the Urban Core to incentivize more efficient land use patterns as set forth in the City’s Comprehensive Plan. For example, the geographic area buy-down could be used to meet the goal of increasing density and creating a more diverse tax base in the Urban Core, identified by the City, by leveraging other revenues to offset impact fee costs while maintaining the current LOS. The City of North Port staff identified the Urban Core to include the area surrounding the Activity Centers 1 and 2. In addition, there is a desire to differentiate fees in Activity Centers 4 and 5. These areas are presented in Figure I-1.
- **Buy-down of “Most Favored Uses”** – This approach developed by TOA allows communities to establish policies for targeted land uses related to overall benefit and need for specific uses in targeted geographic areas of the city. These benefits also



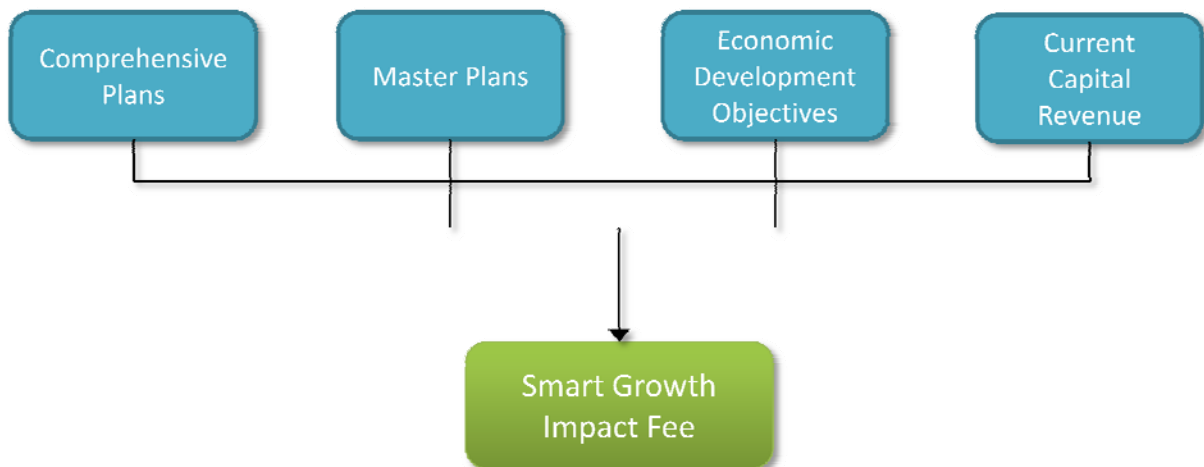
**Figure I-1**  
**Targeted Impact Fee Differential Areas**



may include improved revenue generation through a more diverse tax base that brings economic stability in the future. The City staff indicated an interest in encouraging multi-family development as well as several non-residential land uses, including mixed-use, office, light industrial/business park, and certain retail/commercial categories.

As presented in the chart below, the Smart Growth Impact Fee concept is driven by the communities' economic development and growth management goals, available funding, and the desired/acceptable LOS for various program areas. This approach provides the City with the necessary information to achieve a flexible program that supports the community's planning goals.

### **Smart Growth Approach to Impact Fees**



More specifically, the concept of Smart Growth incorporates the following thought process and analysis:

- Impact fees calculated under traditional methods are not sensitive to growth rates experienced in the community. For example, as explained previously, the consumption-based impact fees are based on the value of asset that is being consumed by the new development. These calculations are not affected by slow or high growth rates and do not consider the contributions of the existing development to maintain the current achieved LOS.





- Historically, many jurisdictions within Florida experienced high growth rates, which required a significant amount of investment in new infrastructure. With slower growth rate over the past two to three years, the burden of new growth has started to become more manageable. The City of North Port experienced an average annual growth rate of 9 percent between 2000 and 2011, which is estimated to decrease to approximately 3.5 percent over the next 20 years.
- Smart Growth incorporates the impact of the community's growth rate on the existing tax base's ability to absorb growth while maintaining the current/achieved LOS. Impact fees, if calculated correctly and adopted at the legally maximum level, would allow a community to maintain its LOS for a given infrastructure without any additional revenue contributions beyond what was contributed from the new development. When additional funds from existing development are also used toward the expansion of the same infrastructure, the LOS improves.

For example, a community that has 1 fire station per 12,000 people, will maintain this LOS through impact fee revenues if the fees are calculated based on this achieved LOS and are adopted at the maximum level. When additional funding, such as sales or ad valorem tax revenues are used toward building additional stations or buying additional vehicles, the LOS will improve. Table I-1 presents an example. Figures included in Table I-1 are based on the North Port Fire/EMS impact fee figures, but they are altered or rounded to simplify the example.

As shown in Table I-1, if adopted at the maximum legally allowable rate, fire/EMS impact fee revenues will be sufficient to maintain the existing LOS of 12,000 people per station without any other funding sources contributing toward capacity expansion projects. Alternatively, when additional funding is available, the LOS improves to 10,180 people per station. This is because per legal requirements, the credit component included in the impact fee calculations consists only of the non-impact fee contributions received from new development, and does not include the portion received from the existing population. This allows the City to decide if it wants to increase the LOS provided or maintain the existing LOS. The Smart Growth calculations quantify the choices of fees and projected LOS.





**Table I-1**  
**Changes in LOS -- Example**

| Variable  | Figure      |
|---|-------------|
| <b>Fire/EMS:</b>  |             |
| <b>LOS Calculations with Only Impact Fees:</b>              |             |
| Citywide Population   | 60,000      |
| Number of Existing Stations                                 | 5           |
| Exiting LOS (population per station)                        | 12,000      |
| Calculated Impact Fee per Person                            | \$360       |
| Population Growth Rate                                      | 3.5%        |
| Additional Population (2012-2016) <sup>(1)</sup>            | 11,261      |
| Total Population (2016) <sup>(2)</sup>                      | 71,261      |
| Impact Fee Revenue Collected <sup>(3)</sup>                 | \$4,053,960 |
| Cost per Fire Station <sup>(4)</sup>                        | \$4,000,000 |
| Additional Stations Built <sup>(5)</sup>                    | 1           |
| Total Stations <sup>(6)</sup>                               | 6           |
| LOS in 2016 <sup>(7)</sup>                                  | 11,850      |
| <b>LOS Calculations with Impact Fees and Other Funding:</b> |             |
| Additional Funding Available <sup>(8)</sup>                 | \$3,946,040 |
| Total Funding Available <sup>(9)</sup>                      | \$8,000,000 |
| Additional Stations Built <sup>(10)</sup>                   | 2           |
| Total Stations <sup>(11)</sup>                              | 7           |
| LOS in 2016 <sup>(12)</sup>                                 | 10,180      |

- (1) Based on population of 60,000 and 3.5% annual growth rate compounded over 5 years
- (2) Sum of 60,000 initial population and 11,261 additional population (Item 1)
- (3) Calculated impact fee per person multiplied by the additional population (Item 1)
- (4) Includes the cost of buildings, land, and equipment
- (5) Impact fee revenues (Item 3) divided by fire station cost (Item 4)
- (6) Sum of 5 existing stations and 1 new station
- (7) Total population in 2016 (Item 2) divided by total stations (Item 6)
- (8) Assumed additional funding (e.g., sales tax, general fund, etc.) over the 5-year period
- (9) Sum of impact fee revenues (Item 3) and additional funding available (Item 8)
- (10) Total funding available (Item 9) divided by fire station cost (Item 4)
- (11) Sum of 5 existing stations and 2 new stations (Item 10)
- (12) Total population in 2016 (Item 2) divided by total stations (Item 11)



- It is important to note that whether to fund capacity expansion projects solely with impact fee collections or supplement them with alternative funding sources is strictly a policy decision. The City is not legally bound to contribute or limit non-impact fee funding for any service areas. If the City desires to improve the LOS, there will be a need for supplemental funding in addition to impact fee revenues. Alternatively, if the City is satisfied with the existing LOS, there may be an opportunity to reduce the impact fee levels and maintain the existing LOS as long as there are other dedicated revenues sources, such as sales tax, ad valorem tax, etc. For example, in the case of programs that are critical to the safety and well-being of the residents (such as fire, police, etc.), the City may want to improve the LOS. Alternatively, a program area such as government buildings may not be as critical, and the City may decide to provide impact fee discounts in order to support planning and economic development goals and still maintain the existing LOS.

The study methodology components for each of the impact fee areas are documented in the following sections of this technical report, and include an evaluation of the inventory, service area, level of service, cost, credit and demand components. In addition, application of the Smart Growth approach is also included for each program area.

Information supporting this analysis was obtained from the City of North Port and other sources, as indicated.



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## II. Current and Projected Population

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This section identifies the assumptions and resulting population estimates and projections for the City of North Port. Population estimates for 2011 and projections through the year 2020 (in five-year increments) are presented and summarized in this section for use, as appropriate, within each of the impact fee program areas. Functional population estimates, as well as a discussion of what functional population is, also are provided in this section.

### Population Assumptions

All program areas being considered for impact fees in North Port, with the exception of transportation, require the use of population data in calculating current levels of service and performance standards. To accurately determine demand for services, this impact fee study considers not only the resident or permanent population of the City, but also the seasonal residents and visitors as well. **Therefore, for purposes of this technical analysis, the weighted average seasonal population will be used in all population estimates and projections, unless otherwise noted.** Detailed calculations of the City's weighted average seasonal population are included in Appendix A, Tables A-1 through A-3.

Table II-1 presents the population trends for the City of North Port. The projections indicate that the population of North Port is expected to increase by 35 percent between 2011 and 2020. The projections are provided by the City staff and incorporate the 2010 Census data as well as the recent decrease in growth rates.

*City of North Port  
population is  
projected to increase  
by 35% between  
2011 and 2020.*



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**Table II-1**  
**Weighted Average Seasonal Population Estimates & Projections**

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| Year | Weighted Average Seasonal Population |
|------|--------------------------------------|
| 2000 | 23,516                               |
| 2001 | 26,029                               |
| 2002 | 28,313                               |
| 2003 | 32,339                               |
| 2004 | 36,846                               |
| 2005 | 42,292                               |
| 2006 | 49,275                               |
| 2007 | 55,425                               |
| 2008 | 58,090                               |
| 2009 | 57,515                               |
| 2010 | 59,164                               |
| 2011 | 60,690                               |
| 2012 | 62,256                               |
| 2013 | 63,862                               |
| 2014 | 65,509                               |
| 2015 | 67,184                               |
| 2016 | 69,911                               |
| 2017 | 72,750                               |
| 2018 | 75,703                               |
| 2019 | 78,777                               |
| 2020 | 81,971                               |

Source: Table A-3



## Apportionment of Demand by Residential Unit Type and Size

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

- Single Family Detached
- Multi-Family
- Mobile Home
- Retirement Community/Age Restricted Single Family

Tables II-2 presents the number of residents per housing unit for the residential categories identified above in the City of North Port. This analysis includes all housing units, both occupied and vacant.

**Table II-2  
Residents per Housing Unit**

| Housing Type   | Population <sup>(1)</sup> | Housing Units <sup>(2)</sup> | Residents / Housing Units |
|--|---------------------------|------------------------------|---------------------------|
| Single Family Detached   | 21,459                    | 8,961                        | 2.39                      |
| Multi Family   | 793                       | 561                          | 1.41                      |
| Mobile Home  | 975                       | 835                          | 1.17                      |
| Retirement Community/Age-Restricted Single Family <sup>(4)</sup> | N/A                       | N/A                          | 1.41                      |
| <b>Weighed Average</b>   | <b>23,227</b>             | <b>10,357</b>                | <b>2.24</b>               |

(1) Source: 2000 Census, Table H-33, adjusted for seasonal population

(2) Source: 2000 Census, Table H-30

(3) Population divided by housing units

(4) Calculated using the residents per housing unit figure for single family land use and the ratio of residents that are 55 years old or older (59%), obtained from the National Household Travel Survey (2001)

Notes: Housing units exclude boats, RVs, vans, etc. Figures included in Table II-2 are extrapolated from a small sample and as such, the total population figure is slightly different than that shown in Appendix A, Table A-1.

It should be noted that 2010 Census population and housing units data by land use are not available. However, a comparison of the residents per housing units for all land uses



combined shown by Census 2000 and 2010 are within 0.02 people of each other. Given this, residents per housing unit figures for various land uses based on 2000 Census figures appear to be representative of the current conditions.

## Functional Population

Because the City's fire rescue, law enforcement, and government buildings serve all residents, workers, and visitors, population figures need to consider the portion of the time residents, visitors, and employees spend in North Port. Population is used as the basis of current and future demand for certain facilities. In these cases, the higher the nonresident daytime population is, the greater the need for services relative to the resident population. Moreover, it is not enough to simply add resident population to the number of employees, since the service-demand characteristics of employees can vary considerably by type of industry. Using unweighted population and employment data to estimate facility needs may result in substantial error.

Functional population is the equivalent number of people occupying space within a community on a 24-hours-per-day, 7-days-per-week basis (Nelson and Nicholas 1992). A person living and working in the community will have a 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 community 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 needing to be served. By estimating the functional and weighted seasonal population per unit of land use across all major land uses in a community, an estimate of the demand for certain facilities and services can be calculated. The following paragraphs explain how functional population is calculated for residential and nonresidential land uses.



## Residential Functional Population

Developing the residential component of functional population is simpler than developing the nonresidential 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 North Port functional population, an analysis of the City's population and employment characteristics was conducted. Based on this analysis, it was estimated that people, on average, spend 17.6 hours, or approximately 73 percent, of each 24-hour day at their place of residence and the other 27 percent away from home. This analysis is presented in Tables II-3 and II-4.

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**Table II-3**  
**City of North Port**  
**Population and Employment Characteristics (2009)**

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| Item/Calculation Step   | Figure |
|---|--------|
| Workers who live and work in North Port <sup>(1)</sup>            | 1,352  |
| Workers who live in North Port, but work elsewhere <sup>(2)</sup> | 11,322 |
| Total workers in North Port <sup>(3)</sup>                        | 12,674 |
| Population <sup>(4)</sup>   | 55,759 |
| Total workers as a percent of population <sup>(5)</sup>           | 22.7%  |
| School age population (5-17 years) <sup>(6)</sup>                 | 9,571  |
| Percent of total population <sup>(7)</sup>                        | 17.2%  |
| Population net of workers & school age population <sup>(8)</sup>  | 33,514 |
| Percent of total population <sup>(9)</sup>                        | 60.1%  |

(1), (2) Source: Bureau of Transportation Statistics, OnTheMap Application and LEHD Origin-Destination Employment Statistics, 2009

(3) Sum of the workers who live and work in North Port (Item 1) and workers who live in North Port but work elsewhere (Item 2)

(4) Source: City of North Port Planning Department

(5) Total workers living in North Port (Item 3) divided by total population (Item 4)

(6) Calculated based on the ratio of school age population in 2000. This figure is also consistent with 2009 estimates obtained from the American Community Survey

(7) School age population (Item 6) divided by total population (Item 4)





- (8) Total population (Item 4) less total workers living in North Port (Item 3) and school age population (Item 6)
- (9) Population net of workers and school age population (Item 8) divided by total population (Item 4)

**Table II-4**  
**Residential Coefficient for Functional Population**

| Population Group   | Hours at Residence <sup>(1)</sup> | Percent of Population <sup>(2)</sup> | Effective Hours <sup>(3)</sup> |
|--|-----------------------------------|--------------------------------------|--------------------------------|
| Workers  | 13                                | 22.7%                                | 3.0                            |
| Students   | 15                                | 17.2%                                | 2.6                            |
| Other  | 20                                | 60.1%                                | 12.0                           |
| Total Hours at Residence <sup>(4)</sup>                      |                                   |                                      | 17.6                           |
| Residential Functional Population Coefficient <sup>(5)</sup> |                                   |                                      | 73.3%                          |

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

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

**Nonresidential Functional Population**

Given the varying characteristics of nonresidential land uses, developing estimates of functional residents for nonresidential land uses is more complicated than developing estimates of functional residents for residential land uses. Nelson and Nicholas originally introduced a method for estimating functional resident population, now used widely.<sup>1</sup> This method uses trip generation data from the Institute of Transportation Engineers' (ITE) Trip Generation Manual and TOA's Trip Characteristics Database, information on passengers per vehicle, workers per vehicle, length of time spent at the land use, and other variables. Specific calculations include:

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



- 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 to seven days in a work week).
- Visitor hours per week per impact unit (visitors multiplied by number of hours per day times relevant days in 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 II-5 also shows the functional population coefficients for nonresidential uses/categories in North Port. The functional population coefficients in Table II-5 were used to estimate the City's functional population in Table II-6.



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

| Population/<br>Employment Category       | ITE LUC | Employee Hours<br>In-Place <sup>(1)</sup> | Trips per<br>Employee <sup>(2)</sup> | One-Way Trips<br>per<br>Employee <sup>(3)</sup> | Journey-to-Work<br>Occupants per<br>Trip <sup>(4)</sup> | Daily<br>Occupants per<br>Trip <sup>(5)</sup> | Visitors per<br>Employee <sup>(6)</sup> | Visitor Hours<br>per Trip <sup>(7)</sup> | Days per<br>Week <sup>(8)</sup> | Functional<br>Population<br>Coefficient <sup>(9)</sup> |
|--|---------|---|--------------------------------------|---|---|---|---|--|---------------------------------|--|
| Population                               |         |   |                                      |   |   |   |   |  | 7.00                            | 0.733  |
| 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  | 0.09                                    | 1.00                                     | 5.00                            | 0.271  |
| Manufacturing                            | 140     | 9.00                                      | 2.13                                 | 1.07  | 1.32  | 1.38  | 0.06                                    | 1.00                                     | 5.00                            | 0.270  |
| Transportation, Communication, Utilities | 110     | 9.00                                      | 3.02                                 | 1.51  | 1.32  | 1.38  | 0.09                                    | 1.00                                     | 5.00                            | 0.271  |
| Wholesale Trade                          | 150     | 9.00                                      | 3.89                                 | 1.95  | 1.32  | 1.38  | 0.12                                    | 1.00                                     | 5.00                            | 0.271  |
| Retail Trade                             | 820     | 9.00                                      | 67.72                                | 33.86   | 1.24  | 1.73  | 16.59                                   | 1.50                                     | 7.00                            | 1.412  |
| Finance, Insurance, Real Estate          | 710     | 9.00                                      | 3.32                                 | 1.66  | 1.24  | 1.73  | 0.81                                    | 1.00                                     | 5.00                            | 0.292  |
| Services <sup>(10)</sup>                 | N/A     | 9.00                                      | 0.00                                 | 0.00  | 1.24  | 1.73  | 0.00                                    | 1.00                                     | 6.00                            | 0.321  |
| Government <sup>(11)</sup>               | 730     | 9.00                                      | 11.95                                | 5.98  | 1.24  | 1.73  | 2.93                                    | 1.00                                     | 7.00                            | 0.497  |

(1), (7) Assumed

(2) Trips per employee represents all trips divided by the number of employees and is based on Trip Generation 8th Edition (Institute of Transportation Engineers 2008) as follows:

ITE Code 110 at 3.02 weekday trips per employee, page 90.

ITE Code 140 at 2.13 weekday trips per employee, page 161.

ITE Code 150 at 3.89 weekday trips per employee, page 190.

ITE Code 710 at 3.32 weekday trips per employee, page 1196.

ITE Code 730 at 11.95 weekday trips per employee, page 1248.

ITE Code 820 based on blended average of trips by retail center size calculated below, adapted from page 1500.

Trips per retail employee from the following table:

| <i>Retail Scale</i>            | <i>Assumed<br/>Center Size</i> | <i>Trip Rate<br/>per 1K sf</i> | <i>Trip Rate<br/>per 1 sf</i> | <i>Sq Ft per<br/>Employee<sup>(12)</sup></i> | <i>Trips per<br/>Employee</i> | <i>Share</i> | <i>Weighted<br/>Trips</i> |
|--------------------------------|--------------------------------|--------------------------------|-------------------------------|--|-------------------------------|--------------|---------------------------|
| Neighborhood <50k sq.ft.       | 25                             | 110.32                         | 0.110                         | 802  | 88.22                         | 45.0%        | 39.70                     |
| Community 50k - 250k sq.ft.    | 150                            | 58.93                          | 0.059                         | 975  | 57.53                         | 35.0%        | 20.14                     |
| Regional 250k - 500k sq.ft.    | 375                            | 42.76                          | 0.043                         | 1,043  | 44.85                         | 15.0%        | 6.73                      |
| Super Reg. 500k-1000k sq.ft.   | 750                            | 33.55                          | 0.034                         | 676  | 22.98                         | 5.0%         | 1.15                      |
| Sum of Weighted Trips/employee |                                |                                |                               |  |                               | 100.0%       | 67.72                     |

(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:

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

1.24 occupants per Retail Trade, FIRE, and Services trip

(5) Daily Occupants per Trip from 2001 Nationwide Household Travel Survey (FHWA 2001) as follows:

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

1.73 occupants per Retail Trade, FIRE, and Services 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))]

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

(9) The equation to determine the Functional Population Coefficient per Employee for all land-use categories except residential includes the following:

$$\frac{((\text{Days per Week} \times \text{Employee Hours in Place}) + (\text{Visitors per Employee} \times \text{Visitor Hours per Trip} \times \text{Days per Week}))}{(24 \text{ Hours per Day} \times 7 \text{ Days per Week})}$$

(10) 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, 8th ed., when available, or else derived from the square feet per employee for the appropriate land use category from the Energy Information Administration from Table B-1 of the Commercial Energy Building Survey (2003).

(11) Includes Federal Civilian Government, Federal Military Government, and State and Local Government categories.

(12) Square feet per retail employee from the Energy Information Administration from Table B-1 of the Commercial Energy Building Survey, 2003



**Table II-6**  
**Functional Population – Year 2011**

| Population Category                                    | 2011 North Port<br>Baseline<br>Population <sup>(1)</sup> | Functional<br>Resident<br>Coefficient <sup>(2)</sup> | Functional<br>Population |
|--|--|--|--------------------------|
| Total Weighted Population                              | 60,690   | 0.733  | 44,486                   |
| Employment by Category                                 |  |  |                          |
| Natural Resources                                      | 85   | 0.379  | 32                       |
| Construction   | 3,107  | 0.271  | 842                      |
| Manufacturing  | 1,557  | 0.270  | 420                      |
| Transportation, communication, and utilities           | 1,439  | 0.271  | 390                      |
| Wholesale Trade  | 590  | 0.271  | 160                      |
| Retail Trade   | 3,719  | 1.412  | 5,251                    |
| Finance, insurance, and real estate                    | 1,797  | 0.292  | 525                      |
| Services   | 9,664  | 0.321  | 3,102                    |
| Government Services                                    | 994  | 0.497  | 494                      |
| Total Employment by Category Population <sup>(3)</sup> | 22,952   |  | 11,216                   |
| <b>2011 Total Functional Population<sup>(4)</sup></b>  |  |  | <b>55,702</b>            |

(1) Source: Table II-1 for population figures and Bureau of Labor Economics for employment data

(2) Source: Table II-5

(3) The total employment population by category is the sum of the employment figures from the nine employment categories, i.e. construction, manufacturing, etc.

(4) The total functional population is the sum of the weighted population and total employment by category

### 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/Assisted/Group Land Uses*

The average number of persons per housing unit in the City of North Port was calculated for single family, multi family, mobile homes, and retirement/age-restricted housing based on information obtained from the 2000 Census. Transient/assisted/group land uses include hotels, motels, nursing homes, and adult living facilities (ALF). Secondary sources, such as Sarasota Convention and Visitors Bureau and the Florida Department of Elderly Affairs, are used to determine the persons per unit for hotels, motels, and nursing homes land uses. As mentioned before, different functional population coefficients must be developed for each of the impact fee areas to be analyzed. For residential land uses, these coefficients are displayed in Table II-7.

### *Nonresidential Land Uses*

A similar approach is used to estimate functional residents for nonresidential land uses. Table II-8 reports 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 nonresidential 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 fire/EMS, law enforcement, and government buildings program areas and will be used in the calculation of the impact fee per unit for each land use category in the fee schedule.



**Table II-7**  
**Functional Residents for Residential Land Uses**

| Residential Land Use  | Impact Unit | ITE LUC <sup>(1)</sup> | Residents Per Unit <sup>(2)</sup> | Occupancy Rate <sup>(3)</sup> | Adjusted Residents Per Unit <sup>(4)</sup> | Hours at Place <sup>(5)</sup> | Workers Per Unit <sup>(6)</sup> | Worker Hours per Day <sup>(7)</sup> | Days Per Week <sup>(8)</sup> | Work Week Residents Per Unit <sup>(9)</sup> |
|---|-------------|------------------------|-----------------------------------|-------------------------------|--|-------------------------------|---------------------------------|-------------------------------------|------------------------------|---|
| <b>Residential</b>  |             |                        |                                   |                               |  |                               |                                 |                                     |                              |   |
| Single Family Detached  | du          | 210                    | 2.39                              |                               |  |                               |                                 |                                     |                              | 1.75  |
| Multi Family  | du          | 221                    | 1.41                              |                               |  |                               |                                 |                                     |                              | 1.03  |
| Mobile Home/RV Park Site  | du          | 240                    | 1.17                              |                               |  |                               |                                 |                                     |                              | 0.86  |
| Retirement Community/Age-Restricted Single Family/Senior Adult Housing  | du          | 250                    | 1.41                              |                               |  |                               |                                 |                                     |                              | 1.03  |
| <b>Transient/Assisted, Group</b>  |             |                        |                                   |                               |  |                               |                                 |                                     |                              |   |
| Hotel / Motel   | room        | 310                    | 2.60                              | 63%                           | 1.64                                       | 12                            | 0.50                            | 9                                   | 7                            | 1.01  |
| Nursing Home  | bed         | 620                    | 1.00                              | 81%                           | 0.81                                       | 16                            | 0.36                            | 9                                   | 7                            | 0.68  |
| ALF/Congregate Care Facility  | du          | 253                    | 1.38                              | 81%                           | 1.12                                       | 16                            | 0.30                            | 9                                   | 7                            | 0.86  |
| <p>(1) Land use code from the Institute of Transportation Engineers, 8th Edition</p> <p>(2) For residential units, estimate from 2000 Census, verified against the 2010 data in terms of residents per unit for all home types combined. For hotel/motel, source is the Sarasota Convention and Visitors Bureau. For nursing homes, 1 person per bed is assumed. For ALF, weighted average residents per unit for single and multi family homes adjusted by the ratio of population 55 and over from the 2001 National Household Travel Survey, prepared by the US Department of Transportation.</p> <p>(3) Source: Sarasota Convention and Visitors Bureau for the average year-round hotel/motel occupancy rate for Sarasota County between 2005 and 2010. Source for nursing home occupancy is the Sarasota County 2010 Profile by the Department of Elderly Affairs.</p> <p>(4) Residents per unit times occupancy rate</p> <p>(5), (7), (8) Estimated</p> <p>(6) Adapted from ITE Trip Generation, 8th Edition.</p> <p>(9) For residential this is Residents Per Unit times 0.733. For Transient, Assisted, and Group it is:<br/> <math display="block">\frac{[(\text{Adjusted Residents per Unit} \times \text{Hours at Place} \times \text{Days per Week}) + (\text{Workers Per Unit} \times \text{Work Hours Per Day} \times \text{Days per Week})]}{(24 \text{ Hours per Day} \times 7 \text{ Days per Week})}</math> </p> |             |                        |                                   |                               |  |                               |                                 |                                     |                              |   |



**Table II-8**  
**Functional Residents for Non-Residential Land Uses**

| Land Use  | Impact Unit | ITE LUC <sup>(1)</sup> | Trips Per Unit <sup>(2)</sup> | Trips Per Employee <sup>(3)</sup> | Employees Per Unit <sup>(4)</sup> | One-Way Factor @ 50% <sup>(5)</sup> | Worker Hours <sup>(6)</sup> | Occupants Per Trip <sup>(7)</sup> | Visitors <sup>(8)</sup> | Visitor Hours Per Trip <sup>(9)</sup> | Days Per Week <sup>(10)</sup> | Functional Resident Coefficient <sup>(11)</sup> |
|---|-------------|------------------------|-------------------------------|-----------------------------------|-----------------------------------|-------------------------------------|-----------------------------|-----------------------------------|-------------------------|---------------------------------------|-------------------------------|---|
| <b>Recreational</b>                                     |             |                        |                               |                                   |                                   |                                     |                             |                                   |                         |                                       |                               |   |
| Marina  | berth       | 420                    | 2.96                          | 20.52                             | 0.14                              | 1.48                                | 9                           | 2.39                              | 3.40                    | 1.00                                  | 7                             | 0.19  |
| Golf Course   | acre        | 430                    | 5.04                          | 20.52                             | 0.25                              | 2.52                                | 9                           | 2.39                              | 5.77                    | 0.25                                  | 7                             | 0.15  |
| Movie Theater   | 1,000 sf    | 444                    | 30.00                         | 53.12                             | 0.56                              | 15                                  | 9                           | 2.39                              | 35.29                   | 1.00                                  | 7                             | 1.68  |
| Recreational/Community Center                           | 1,000 sf    | 495                    | 22.88                         | 27.25                             | 0.84                              | 11.44                               | 9                           | 2.39                              | 26.50                   | 1.00                                  | 7                             | 1.42  |
| <b>Institutions</b>                                     |             |                        |                               |                                   |                                   |                                     |                             |                                   |                         |                                       |                               |   |
| Elementary School (K-8)                                 | 1,000 sf    | 520                    | 13.78                         | 16.39                             | 0.84                              | 6.89                                | 9                           | 1.11                              | 6.81                    | 2.00                                  | 5                             | 0.63  |
| High School (9-12)                                      | 1,000 sf    | 530                    | 12.89                         | 19.74                             | 0.65                              | 6.45                                | 9                           | 1.11                              | 6.51                    | 2.00                                  | 5                             | 0.56  |
| University/Junior College with 7,500 or fewer students  | student     | 540                    | 2.00                          | 12.21                             | 0.16                              | 1.00                                | 9                           | 1.11                              | 0.95                    | 2.00                                  | 5                             | 0.10  |
| University/Junior College with more than 7,500 students | Student     | 550                    | 1.50                          | 12.21                             | 0.12                              | 0.75                                | 9                           | 1.11                              | 0.71                    | 2.00                                  | 5                             | 0.07  |
| Church  | 1,000 sf    | 560                    | 9.11                          | 20.64                             | 0.63                              | 4.56                                | 9                           | 1.90                              | 8.03                    | 1.00                                  | 7                             | 0.57  |
| Day Care Center   | 1,000 sf    | 565                    | 75.07                         | 28.13                             | 2.67                              | 37.54                               | 9                           | 1.11                              | 39.00                   | 0.15                                  | 5                             | 0.89  |
| Hospital  | 1,000 sf    | 610                    | 16.50                         | 5.20                              | 3.17                              | 8.25                                | 9                           | 1.42                              | 8.55                    | 1.00                                  | 7                             | 1.55  |
| <b>Office</b>   |             |                        |                               |                                   |                                   |                                     |                             |                                   |                         |                                       |                               |   |
| Office 50,000 SF or less <sup>(12)</sup>                | 1,000 sf    | 710                    | 15.65                         | 3.32                              | 4.71                              | 7.83                                | 9                           | 1.28                              | 5.31                    | 1.00                                  | 5                             | 1.42  |
| Office 50,001 - 100,000 sf <sup>(13)</sup>              | 1,000 sf    | 710                    | 13.34                         | 3.32                              | 4.02                              | 6.67                                | 9                           | 1.28                              | 4.52                    | 1.00                                  | 5                             | 1.21  |
| Office 100,001 - 200,000 sf <sup>(14)</sup>             | 1,000 sf    | 710                    | 11.37                         | 3.32                              | 3.42                              | 5.69                                | 9                           | 1.28                              | 3.86                    | 1.00                                  | 5                             | 1.03  |
| Office 200,001 - 400,000 sf <sup>(15)</sup>             | 1,000 sf    | 710                    | 9.70                          | 3.32                              | 2.92                              | 4.85                                | 9                           | 1.28                              | 3.29                    | 1.00                                  | 5                             | 0.88  |
| Office greater than 400,000 sf <sup>(16)</sup>          | 1,000 sf    | 710                    | 8.83                          | 3.32                              | 2.66                              | 4.42                                | 9                           | 1.28                              | 3.00                    | 1.00                                  | 5                             | 0.80  |
| Medical Office (0-10,000 sf)                            | 1,000 sf    | 720                    | 23.83                         | 8.91                              | 2.67                              | 11.92                               | 9                           | 1.42                              | 14.26                   | 1.00                                  | 5                             | 1.14  |
| Medical Office (>10,000 sf)                             | 1,000 sf    | 720                    | 35.95                         | 8.91                              | 4.03                              | 17.98                               | 9                           | 1.42                              | 21.50                   | 1.00                                  | 5                             | 1.72  |
| Business Park (Flex Space)                              | 1,000 sf    | 770                    | 12.98                         | 4.04                              | 3.21                              | 6.49                                | 9                           | 1.38                              | 5.75                    | 0.75                                  | 5                             | 0.99  |





**Table II-8 (continued)**  
**Functional Residents for Non-Residential Land Uses**

| Land Use  | Impact Unit | ITE LUC <sup>(1)</sup> | Trips Per Unit <sup>(2)</sup> | Trips Per Employee <sup>(3)</sup> | Employees Per Unit <sup>(4)</sup> | One-Way Factor @ 50% <sup>(5)</sup> | Worker Hours <sup>(6)</sup> | Occupants Per Trip <sup>(7)</sup> | Visitors <sup>(8)</sup> | Visitor Hours Per Trip <sup>(9)</sup> | Days Per Week <sup>(10)</sup> | Functional Resident Coefficient <sup>(11)</sup> |
|---|-------------|------------------------|-------------------------------|-----------------------------------|-----------------------------------|-------------------------------------|-----------------------------|-----------------------------------|-------------------------|---------------------------------------|-------------------------------|---|
| <b>Retail, Gross Square Feet</b>                          |             |                        |                               |                                   |                                   |                                     |                             |                                   |                         |                                       |                               |   |
| Building Materials/Lumber Store                           | 1,000 sf    | 812                    | 45.16                         | 32.12                             | 1.41                              | 22.58                               | 9                           | 1.52                              | 32.91                   | 0.50                                  | 7                             | 1.21  |
| Hardware/Paint Store                                      | 1,000 sf    | 816                    | 51.29                         | 53.21                             | 0.96                              | 25.65                               | 9                           | 1.52                              | 38.03                   | 0.50                                  | 7                             | 1.15  |
| Shopping Center 50,000 sfgla or less <sup>(12)</sup>      | 1,000 sfgla | 820                    | 86.56                         | N/A                               | 2.50                              | 43.28                               | 9                           | 1.73                              | 72.37                   | 0.50                                  | 7                             | 2.45  |
| Shopping Center greater than 50,000 sfgla <sup>(13)</sup> | 1,000 sfgla | 820                    | 36.27                         | N/A                               | 2.50                              | 18.14                               | 9                           | 1.73                              | 28.88                   | 1.00                                  | 7                             | 2.14  |
| New/Used Auto Sales                                       | 1,000 sf    | 841                    | 29.85                         | 21.14                             | 1.41                              | 14.93                               | 9                           | 1.73                              | 24.42                   | 1.00                                  | 7                             | 1.55  |
| Tire Store  | 1,000 sf    | 848                    | 24.87                         | 41.35                             | 0.60                              | 12.44                               | 9                           | 1.52                              | 18.31                   | 1.00                                  | 7                             | 0.99  |
| Supermarket   | 1,000 sf    | 850                    | 103.38                        | 87.82                             | 1.18                              | 51.69                               | 9                           | 1.52                              | 77.39                   | 0.50                                  | 7                             | 2.05  |
| Convenience Store w/Gas Pumps                             | 1,000 sf    | 853                    | 775.14                        | N/A                               | 2.50                              | 387.57                              | 9                           | 1.52                              | 586.61                  | 0.20                                  | 7                             | 5.83  |
| Home Improvement Superstore                               | 1,000 sf    | 862                    | 29.80                         | N/A                               | 2.50                              | 14.90                               | 9                           | 1.52                              | 20.15                   | 1.00                                  | 7                             | 1.78  |
| Pharmacy/Drug Store with and w/o Drive-Thru               | 1,000 sf    | 881                    | 92.88                         | N/A                               | 2.50                              | 46.44                               | 9                           | 1.52                              | 68.09                   | 0.35                                  | 7                             | 1.93  |
| Furniture Store   | 1,000 sf    | 890                    | 5.06                          | 12.19                             | 0.42                              | 2.53                                | 9                           | 1.52                              | 3.43                    | 0.50                                  | 7                             | 0.23  |
| Bank/Savings w/Drive-In                                   | 1,000 sf    | 912                    | 159.34                        | 30.94                             | 5.15                              | 79.67                               | 9                           | 1.52                              | 115.95                  | 0.15                                  | 6                             | 2.28  |
| Sit Down Restaurant                                       | 1,000 sf    | 931                    | 91.10                         | N/A                               | 9.92                              | 45.55                               | 9                           | 1.85                              | 74.35                   | 1.00                                  | 7                             | 6.82  |
| High-Turnover Restaurant                                  | 1,000 sf    | 932                    | 126.50                        | N/A                               | 9.92                              | 63.25                               | 9                           | 1.85                              | 107.09                  | 0.75                                  | 7                             | 7.07  |
| Fast Food Restaurant w/ Drive-Thru                        | 1,000 sf    | 934                    | 522.62                        | N/A                               | 10.90                             | 261.31                              | 9                           | 1.85                              | 472.52                  | 0.25                                  | 7                             | 9.01  |
| Quick Lube  | bays        | 941                    | 40.00                         | N/A                               | 1.50                              | 20.00                               | 9                           | 1.52                              | 28.90                   | 0.50                                  | 7                             | 1.16  |
| Automobile Repair Shop                                    | 1,000 sf    | 942                    | 34.12                         | N/A                               | 1.50                              | 17.06                               | 9                           | 1.52                              | 24.43                   | 1.00                                  | 7                             | 1.58  |
| Gasoline/Service Station/Conv. Mart                       | fuel pos.   | 945                    | 162.78                        | N/A                               | 2.50                              | 81.39                               | 9                           | 1.52                              | 121.21                  | 0.20                                  | 7                             | 1.95  |
| Self-Service Car Wash                                     | bays        | 947                    | 43.94                         | N/A                               | 0.50                              | 21.97                               | 9                           | 1.52                              | 32.89                   | 0.50                                  | 7                             | 0.87  |
| Convenience/Gasoline/Fast Food Store                      | 1,000 sf    | n/a                    | 984.59                        | N/A                               | 2.50                              | 492.30                              | 9                           | 1.52                              | 745.80                  | 0.20                                  | 7                             | 7.15  |



**Table II-8 (continued)**  
**Functional Residents for Non-Residential Land Uses**

| Land Use                                   | Impact Unit | ITE LUC <sup>(1)</sup> | Trips Per Unit <sup>(2)</sup> | Trips Per Employee <sup>(3)</sup> | Employees Per Unit <sup>(4)</sup> | One-Way Factor @ 50% <sup>(5)</sup> | Worker Hours <sup>(6)</sup> | Occupants Per Trip <sup>(7)</sup> | Visitors <sup>(8)</sup> | Visitor Hours Per Trip <sup>(9)</sup> | Days Per Week <sup>(10)</sup> | Functional Resident Coefficient <sup>(11)</sup> |
|--|-------------|------------------------|-------------------------------|-----------------------------------|-----------------------------------|-------------------------------------|-----------------------------|-----------------------------------|-------------------------|---------------------------------------|-------------------------------|---|
| <b>Industrial</b>                          |             |                        |                               |                                   |                                   |                                     |                             |                                   |                         |                                       |                               |   |
| General Light Industrial / Industrial Park | 1,000 sf    | 110/130                | 6.96                          | 3.02                              | 2.30                              | 3.48                                | 9                           | 1.38                              | 2.50                    | 1.00                                  | 5                             | 0.69  |
| General Heavy Industrial                   | 1,000 sf    | 120                    | 1.50                          | 0.82                              | 1.83                              | 0.75                                | 9                           | 1.38                              | 0.00                    | 1.00                                  | 5                             | 0.49  |
| Manufacturing                              | 1,000 sf    | 140                    | 3.82                          | 2.13                              | 1.79                              | 1.91                                | 9                           | 1.38                              | 0.85                    | 1.00                                  | 5                             | 0.50  |
| Warehousing                                | 1,000 sf    | 150                    | 3.56                          | 3.89                              | 0.92                              | 1.78                                | 9                           | 1.38                              | 1.54                    | 0.75                                  | 5                             | 0.28  |
| Mini-Warehouse/Storage                     | 1,000 sf    | 151                    | 2.50                          | 56.28                             | 0.04                              | 1.25                                | 9                           | 1.38                              | 1.69                    | 0.75                                  | 7                             | 0.07  |

Sources:

- (1) Land use code found in the Institute of Transportation Engineers (ITE) Trip Generation Handbook, 8th Edition
- (2) Land uses and trip generation rates consistent with those included in the 2008 Transportation Impact Fee Update Study
- (3) Trips per worker from ITE Trip Generation Handbook, 8th Edition, when available
- (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.
- (5) Trips per unit (Item 2) multiplied by 50 percent
- (6), (9), (10) Estimated
- (7) Nationwide Personal Transportation Survey
- (8) [(One-way Trips/Unit X Occupants/Trip) - Employees].
- (11) [(Workers X Hours/Day X Days/Week) + (Visitors X Hours/Visit X Days/Week)]/(24 Hours x 7 Days)
- (12) Trip rate is for 50,000 sf.
- (13) Trip rate is for 100,000 sf.
- (14) Trip rate is for 200,000 sf.
- (15) Trip rate is for 400,000 sf.
- (16) Trip rate is for 600,000 sf.



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### III. Fire/EMS

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The City of North Port provides fire/EMS services to all residents of the city. As such, this analysis will include all fire/EMS facilities located within the municipal boundaries of the City of North Port that are owned and operated by the City. This section summarizes the analysis used in the development of the proposed City of North Port fire/EMS impact fee schedule and includes the following sections:

- Capital Asset Inventory
- Service Area, Population and Benefit Districts
- Level of Service
- Cost Component
- Credit Component
- Net Fire Rescue Services Impact Cost
- Calculated Fire/EMS Fee Schedule
- Fire/EMS Impact Fee Schedule Comparison
- Smart Growth Application

These elements are summarized in the remainder of this section, with the result being the proposed fire/EMS impact fee schedule.

#### Capital Asset Inventory

Table III-1 presents the building and land inventory for the City of North Port Fire Rescue District (NPF RD). The City currently owns five fire stations, with Station #81 also housing the District's headquarters. The construction of the fifth station (Station 85) is estimated to start later this year or early next year, but because the funding for this stations is already secured, it is included in the inventory.

The station construction cost is estimated at \$200 per square foot based on recently built stations in North Port and other Florida jurisdictions as well as the insurance values of the existing stations.



**Table III-1  
Fire/EMS Land & Buildings Inventory**

| Facility Description                                       | Location                                    | Square Footage <sup>(1)</sup> | Number of Bays <sup>(2)</sup> | Total Square Footage on Site <sup>(3)</sup> | Total Acres <sup>(4)</sup> | Acres per 1,000 sf of Building Space <sup>(5)</sup> | Adjusted Acres <sup>(6)</sup> | Current Value            |                              |                      |             |
|--|---|-------------------------------|-------------------------------|---|----------------------------|---|-------------------------------|--------------------------|------------------------------|----------------------|-------------|
|  |   |                               |                               |   |                            |   |                               | Buildings <sup>(7)</sup> | Adjusted Land <sup>(8)</sup> | Total <sup>(9)</sup> |             |
| Station 81/Headquarters                                    | 4980 City Center Blvd, North Port, FL 34286 | 14,602                        | 3                             | 136,063                                     | 33.49                      | 0.25  | 3.65                          | \$2,920,400              | \$182,500                    | \$3,102,900          |             |
| Station 82   | 5650 North Port Blvd, North Port, FL 34287  | 11,961                        | 3                             | 28,713                                      | 17.10                      | 0.60  | 3.00                          | \$2,392,200              | \$150,000                    | \$2,542,200          |             |
| Station 83   | 3601 E. Price Blvd, North Port, FL 34288    | 9,160                         | 2                             | N/A   | 4.00                       | N/A   | 1.78                          | \$1,832,000              | \$89,000                     | \$1,921,000          |             |
| Station 84   | 1350 Citizens Parkway, North Port, FL 34286 | 11,961                        | 3                             | 11,961                                      | 3.00                       | 0.25  | 3.00                          | \$2,392,200              | \$150,000                    | \$2,542,200          |             |
| Station 85   | N/A   | N/A                           | N/A                           | N/A   | N/A                        | N/A   | N/A                           | \$2,391,900              | \$150,000                    | \$2,541,900          |             |
| <b>Total (All Buildings)</b>                               |   | <b>47,684</b>                 |                               | <b>176,737</b>                              | <b>57.59</b>               |   | <b>11.43</b>                  | <b>\$11,928,700</b>      | <b>\$721,500</b>             | <b>\$12,650,200</b>  |             |
| Weighted Average Acreage per 1,000 Square Feet of Building |   |                               |                               |   |                            |   | 0.240                         |                          |                              |                      |             |
| Building Cost per Square Foot                              |   |                               |                               |   |                            |   |                               | \$200                    |                              |                      |             |
| Land Value per Acre  |   |                               |                               |   |                            |   |                               |                          | \$50,000                     |                      |             |
| Number of Stations   |   |                               |                               |   |                            |   |                               |                          |                              | 5                    |             |
| Total Building and Land Replacement Cost per Station       |   |                               |                               |   |                            |   |                               |                          |                              |                      | \$2,530,040 |

(1) Source: City of North Port Fire Rescue District

(2) Source: City of North Port Fire Rescue District

(3) Source: City of North Port Planning & Zoning Department

(4) Source: City of North Port Planning & Zoning Department

(5) Total acres (Item 4) divided by total square footage on site (Item 3) multiplied by 1,000

(6) Acres per 1,000 sf of building space (Item 5) multiplied by square footage of fire stations (Item 1) divided by 1,000. In the case of Stations 82 and 83, the acreage associated with the fire station is provided by the City staff.

(7) Square footage multiplied by a construction cost of \$200 per square foot for Stations 81 thru 84. In the case of Station 85, programmed funding is included.

(8) Adjusted acres (Item 6) multiplied by land value of \$50,000 per acre

(9) Sum of building and land value (Items 7 and 8)



Land value of \$50,000 per acre is estimated based on the value of parcels where the existing fire/EMS stations are located as well as vacant land sales and value analysis for parcels of similar size based on the data obtained from the Sarasota County Property Appraiser, and the characteristics of fire station locations (e.g., major intersections with easy access, etc.). More specifically, the following analysis was conducted:

- The value of parcels (as reported by the Property Appraiser) where the current stations are located ranges from \$14,000 to \$161,000 per acre. At the high end, the parcel with a value of \$161,000 per acre, is in a commercial area.
- A citywide vacant land value analysis for 1- to 5-acre parcels as well as 2- to 3-acre parcels resulted in an assessed value of approximately \$20,000 per acre in residential areas and \$150,000 per acre in commercial areas.
- It is our understanding that of the future stations, Station 85 is likely to be located in an area that is considered residential/commercial, and Station 86 in a commercial area. (The location of Station 87 is not known at this time). Many times fire stations are located at major intersections to allow easy access, which limits potential parcels. As such, it is expected that in the future, some of the stations will be located in commercial areas.
- Using an average land value of \$20,000 per acre for residential areas and an average value of \$150,000 per acre for non-residential areas, and assuming one out of every four station is likely to be located in a commercial area, the weighted average land value is estimated at \$52,500 per acre for fire/EMS stations ( $[(3 \times \$50,000) + (1 \times \$150,000)]/4 = \$52,500$ ). This figure was rounded down to \$50,000 per acre.

In addition to the five fire stations, the NPFRD inventory includes the necessary vehicles and equipment required to perform its fire/EMS duties. As presented in Table III-2, the total vehicle and equipment cost is \$7.4 million. The unit costs of the City's vehicles and other equipment are based on the information provided by the District and compared to costs observed in other jurisdictions to verify consistency.



**Table III-2**  
**Fire Vehicle & Equipment Inventory**

| Description  | Units <sup>(1)</sup> | Unit Cost <sup>(2)</sup> | Total Asset Value <sup>(3)</sup> |
|--|----------------------|--------------------------|----------------------------------|
| <b>Equipment</b>                                     |                      |                          |                                  |
| LP-15  | 10                   | \$36,000                 | \$360,000                        |
| Stretchers   | 4                    | \$11,200                 | \$44,800                         |
| Air Packs  | 48                   | \$8,000                  | \$384,000                        |
| Extrication Tools                                    | 4                    | \$15,500                 | \$62,000                         |
| Thermal Imaging Camera                               | 4                    | \$8,500                  | \$34,000                         |
| Cascade Systems                                      | 3                    | \$34,000                 | \$102,000                        |
|  |                      |                          |                                  |
| <b>Total Equipment Cost</b>                          |                      |                          | <b>\$986,800</b>                 |
| <b>Vehicles</b>                                      |                      |                          |                                  |
| ALS Engines  | 1                    | \$600,000                | \$600,000                        |
| Rescues  | 6                    | \$200,000                | \$1,200,000                      |
| Engines  | 3                    | \$550,000                | \$1,650,000                      |
| Aerials  | 2                    | \$950,000                | \$1,900,000                      |
| Tanker   | 1                    | \$300,000                | \$300,000                        |
| Brush Trucks   | 4                    | \$50,000                 | \$200,000                        |
| TRT Trailer  | 1                    | \$150,000                | \$150,000                        |
| Command Vehicles                                     | 5                    | \$55,000                 | \$275,000                        |
| Staff Vehicles                                       | 6                    | \$30,000                 | \$180,000                        |
|  |                      |                          |                                  |
| <b>Total Vehicle Cost</b>                            |                      |                          | <b>\$6,455,000</b>               |
|  |                      |                          |                                  |
| <b>Total Vehicle and Equipment Value</b>             |                      |                          | <b>\$7,441,800</b>               |
| <b>Number of Owned Stations<sup>(4)</sup></b>        |                      |                          | <b>5</b>                         |
| <b>Total Vehicle and Equipment Value per Station</b> |                      |                          | <b>\$1,488,360</b>               |

(1) & (2) Source: City of North Port Fire Rescue District

(3) Number of units multiplied by the respective unit cost (Item 2)



## Service Area, Population and Benefit Districts

The NPFRD provides all residents, workers, and visitors fire protection and EMS services. As such, the service area is the entire city, which will continue to be included in a single citywide benefit district.

In terms of population figures, the citywide 24-hour functional population estimate for year 2011 is used, which is provided in Section II, Table II-6.

## Level of Service

Typically, when population is used as the basis for demand, the level of service (LOS) for fire/EMS is expressed in terms of stations per resident. Using this method, the current LOS for the NPFRD is 1 station per 12,138 weighted residents or 0.000082 stations per weighted resident. As mentioned previously, for the City's fire/EMS impact fee analysis, the LOS must be measured using functional population to capture workers, visitors, and residents to calculate the fire impact fee. In terms of functional population, the current LOS is 0.000090 stations per functional residents. Table III-3 summarizes the calculation of the achieved LOS for the NPFRD using both weighted and functional population.





**Table III-3**  
**Achieved/Current Level of Service (2011)**

| Calculation Step   | Year 2011           |                       |
|--|---------------------|-----------------------|
|  | Weighted Population | Functional Population |
| Population <sup>(1)</sup>                                | 60,690              | 55,702                |
| Number of Stations <sup>(2)</sup>                        | 5                   | 5                     |
| Population per Station <sup>(3)</sup>                    | 12,138              | 11,140                |
| Current LOS (Owned Stations per Resident) <sup>(4)</sup> | 0.000082            | 0.000090              |

- (1) Source: Table II-1 for weighted population figure and Table II-6 for functional population figure
- (2) Source: Table III-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), multiplied by 1,000

Table III-4 summarizes a LOS comparison between the City of North Port and surrounding/select jurisdictions. The LOS is displayed in terms of permanent population for all jurisdictions because a functional population analysis has not been completed for these entities. The LOS comparison is based on the permanent population for 2010, as this is the most recent population data available for all jurisdictions. As presented in this table, the City of North Port’s LOS is within the range of these other communities.

In reviewing comparisons such as that included in Table III-3, it is important to note that the size and density of the service area can affect response time significantly, which in turn determines the necessary number of stations. However, based on the previous impact fee studies, overall average throughout the state is approximately 10,000 people per station.



**Table III-4**  
**2010 Level of Service Comparison**

| Jurisdiction              | Population <sup>(1)</sup> | Number of Stations <sup>(2)</sup> | Residents per Station <sup>(3)</sup> |
|---------------------------|---------------------------|-----------------------------------|--------------------------------------|
| City of Punta Gorda       | 16,641                    | 3                                 | 5,547                                |
| City of Venice            | 20,748                    | 3                                 | 6,916                                |
| Charlotte County          | 143,337                   | 16                                | 8,959                                |
| Sarasota County           | 259,225                   | 28                                | 9,258                                |
| <b>City of North Port</b> | <b>57,357</b>             | <b>5</b>                          | <b>11,471</b>                        |
| City of Lakeland          | 97,422                    | 6                                 | 16,237                               |

(1) Source: Census 2010

(2) Source: Table III-1 for the City of North Port, individual departments for all other

(3) Population (Item 1) divided by stations (Item 2)

### Cost Component

Table III-5 summarizes the total current value of land, buildings, and equipment for fire services, including:

- five stations with a total asset value of \$12.7 million for buildings and land and \$7.4 million for vehicles and equipment, for a total asset value of \$20 million; and
- an average value of \$4 million per station.

In addition, Table III-5 presents the total impact cost per functional resident for fire/EMS in the City of North Port, 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. The total impact cost for fire services provided by the City's Fire District is \$362 per functional resident.



**Table III-5**  
**Total Impact Cost per Functional Resident**

| Description  | Value              |
|--|--------------------|
| Building Value per Station <sup>(1)</sup>                      | \$2,385,740        |
| Land Value per Station <sup>(2)</sup>                          | \$144,300          |
| Vehicle & Equipment Value per Station <sup>(3)</sup>           | <u>\$1,488,360</u> |
| <b>Total Asset Value per Station<sup>(4)</sup></b>             | <b>\$4,018,400</b> |
| LOS (Stations/Functional Resident) <sup>(5)</sup>              | 0.000090           |
| <b>Total Impact Cost per Functional Resident<sup>(6)</sup></b> | <b>\$361.66</b>    |

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

(3) Source: Table III-2

(4) Sum of building, land, vehicle and equipment values

(5) Source: Table III-3

(6) Total asset value per station multiplied by the LOS (Item 5) and divided by 1,000

### **Credit Component**

To avoid overcharging new development for the fire/EMS impact fee, a review of the capital financing program for fire/EMS 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 capital expansion projects programmed in the CIP are reviewed. Historically, the City has used primarily fire district funds and sales tax revenues to fund fire/EMS capital expansion projects. The Capital Improvements Plan (CIP) includes one capacity expansion project that is programmed to be funded with sales tax revenues. Although historically, the Fire District received a larger annual amount of non-impact fee funding for the capacity expansion projects, because of the reductions in available funding, the CIP period is



determined to be more representative of future funding the NPF RD is likely to receive towards capacity expansion projects. As such, the credit for new development is based on this period. The annual capital expansion expenditures were divided by the average functional residents for the same period in order to calculate the average capital expansion cost per functional resident.

As presented in Table III-6, the result is an average annual expansion cost of \$5 per functional resident.

**Table III-6**  
**Capital Expansion Expenditures Credit<sup>(1)</sup>**

| Capital Expansion Expenditures  | FY 2012 | FY 2013 | FY 2014     | FY 2015 | FY 2016 | Total       |
|---|---------|---------|-------------|---------|---------|-------------|
| <i>Sales Surtax 3 Funding</i>   |         |         |             |         |         |             |
| Construction of Station 87  |         |         | \$1,456,600 |         |         | \$1,456,600 |
| Functional Population <sup>(2)</sup>  | 57,150  | 58,636  | 60,161      | 61,725  | 64,256  |             |
| Average Annual Capacity Expansion Expenditures <sup>(3)</sup>                         |         |         |             |         |         | \$291,320   |
| Average Functional Population <sup>(4)</sup>  |         |         |             |         |         | 60,386      |
| Average Annual Capacity Expansion Expenditures per Functional Resident <sup>(5)</sup> |         |         |             |         |         | \$4.82      |

(1) Source: City of North Port Finance Department

(2) Source: Appendix A, Table A-4

(3) Average capital expenditures over the 5-year period

(4) Average functional population over the 5-year period

(5) Average annual capital expansion expenditures (Item 3) divided by average functional population (Item 4)

### Net Fire/EMS Impact Cost

The net impact fee per functional resident is the difference between the cost component and the credit component. Table III-7 summarizes the calculation of the net fire/EMS impact cost per functional resident.

The first section of this table identifies the total impact cost as \$362 per functional resident. The second section of the table identifies the revenue credits for the fire/EMS impact fee totaling approximately \$84 per functional resident which is equal to the net present value of the capital expansion credit per functional resident.



The net impact cost per functional resident is the difference between the total impact cost and the total revenue credit. This results in a net impact cost of \$278 per functional resident.

**Table III-7**  
**Net Impact Cost per Functional Resident**

| Impact Cost / Credit Element  | Impact Cost | Revenue Credit |
|---|-------------|----------------|
| <i>Impact Cost</i>  |             |                |
| Capital Cost per Functional Resident <sup>(1)</sup>                     | \$361.66    |                |
| <i>Impact Credit</i>  |             |                |
| Total Capital Improvement Credit per Functional Resident <sup>(2)</sup> |             | (\$4.82)       |
| Capitalization Period (in years)  |             | 25             |
| Capitalization Rate   |             | 3%             |
| Total Revenue Credit <sup>(3)</sup>                                     |             | (\$83.93)      |
| <i>Net Impact Cost</i>  |             |                |
| Net Impact Cost per Functional Resident <sup>(4)</sup>                  | \$277.73    |                |

(1) Source: Table III-5

(2) Source: Table III-6

(3) The present value of the capital improvement credit per functional resident (Item 2) at a discount rate of 3 percent with a capitalization period of 25 years. The capitalization rate is based on the interest rate of the City is expecting to pay for an upcoming bond issue.

(4) Total impact cost per functional resident (Item 1) less then capital improvement credit per functional resident (Item 3)



## Calculated Fire/EMS Impact Fee Schedule

Table III-8 presents the calculated fire impact fee schedule developed for the City of North Port for both residential and non-residential land uses, based on the net impact cost per functional resident previously presented in Table III-7. The table also includes a comparison to the current/adopted fees.

**Table III-8**  
**Calculated Fire/EMS Impact Fee Schedule**

| Land Use   | Impact Unit | Functional Population Coefficient <sup>(1)</sup> | Net Impact Cost per Functional Resident <sup>(2)</sup> | Current Fee | Percent Change |
|--|-------------|--|--|-------------|----------------|
| <b>Residential</b>   |             |  |  |             |                |
| Single Family Detached   | du          | 1.75   | \$486.03   | \$240.00    | 103%           |
| Multi-Family   | du          | 1.03   | \$286.06   | \$177.00    | 62%            |
| Mobile Home / RV Park Site   | du          | 0.86   | \$238.85   | \$157.00    | 52%            |
| Retirement Community/Age Restricted Single Family/Senior Adult Housing | du          | 1.03   | \$286.06   | \$240.00    | 19%            |
| <b>Transient, Assisted, Group</b>                                      |             |  |  |             |                |
| Hotel/Motel  | room        | 1.01   | \$280.51   | \$169.50    | 66%            |
| Nursing Home   | bed         | 0.68   | \$188.86   | \$387.50    | -51%           |
| Assisted Living Facility (ALF)/Congregate Care Facility                | du          | 0.86   | \$238.85   | N/A         | N/A            |
| <b>Recreational</b>  |             |  |  |             |                |
| Marina   | berth       | 0.19   | \$52.77  | \$672.00    | -92%           |
| Golf Course  | acre        | 0.15   | \$41.66  | \$672.00    | -94%           |
| Movie Theater with Matinee   | 1,000 sf    | 1.68   | \$466.59   | \$672.00    | -31%           |
| Recreational/Community Center  | 1,000 sf    | 1.42   | \$394.38   | \$672.00    | -41%           |
| <b>Institutions</b>  |             |  |  |             |                |
| Elementary School(K-8)   | 1,000 sf    | 0.63   | \$174.97   | \$387.50    | -55%           |
| High School (9-12)   | 1,000 sf    | 0.56   | \$155.53   | \$387.50    | -60%           |
| University/Junior College with 7,500 or fewer students                 | student     | 0.10   | \$27.77  | N/A         | N/A            |
| University/Junior College with more than 7,500 students                | student     | 0.07   | \$19.44  | N/A         | N/A            |
| Church   | 1,000 sf    | 0.57   | \$158.31   | \$387.50    | -59%           |
| Day Care   | 1,000 sf    | 0.89   | \$247.18   | \$387.50    | -36%           |
| Hospital   | 1,000 sf    | 1.55   | \$430.48   | \$387.50    | 11%            |
| <b>Office and Financial</b>  |             |  |  |             |                |
| Office 50,000 SF or less   | 1,000 sf    | 1.42   | \$394.38   | \$387.50    | 2%             |
| Office 50,001 - 100,000 SF   | 1,000 sf    | 1.21   | \$336.05   | \$387.50    | -13%           |
| Office 100,001 - 200,000 SF  | 1,000 sf    | 1.03   | \$286.06   | \$387.50    | -26%           |
| Office 200,001 - 400,000 SF  | 1,000 sf    | 0.88   | \$244.40   | \$387.50    | -37%           |
| Office greater than 400,000 SF   | 1,000 sf    | 0.80   | \$222.18   | \$387.50    | -43%           |
| Medical Office (1 to 10,000 SF)  | 1,000 sf    | 1.14   | \$316.61   | \$387.50    | -18%           |
| Medical Office (Greater than 10,000 SF)                                | 1,000 sf    | 1.72   | \$477.70   | \$387.50    | 23%            |
| Business Park (Flex space)   | 1,000 sf    | 0.99   | \$274.95   | \$238.50    | 15%            |



**Table III-8 (Continued)**  
**Calculated Fire/EMS Impact Fee Schedule**

| Land Use  | Impact Unit | Functional Population Coefficient <sup>(1)</sup> | Net Impact Cost per Functional Resident <sup>(2)</sup> | Current Fee | Percent Change |
|---|-------------|--|--|-------------|----------------|
| <b>Retail, Gross Square Feet</b>                |             |  |  |             |                |
| Building Materials/Lumber                       | 1,000 sf    | 1.21   | \$336.05   | \$672.00    | -50%           |
| Hardware/Paint                                  | 1,000 sf    | 1.15   | \$319.39   | \$672.00    | -53%           |
| Shopping Center 50,000 sfgla or less            | 1,000 sfgla | 2.45   | \$680.44   | \$672.00    | 1%             |
| Shopping Center greater than 50,000 sfgla       | 1,000 sfgla | 2.14   | \$594.34   | \$672.00    | -12%           |
| New and Used Auto Sales                         | 1,000 sf    | 1.55   | \$430.48   | \$672.00    | -36%           |
| Tire Store                                      | 1,000 sf    | 0.99   | \$274.95   | \$672.00    | -59%           |
| Supermarket                                     | 1,000 sf    | 2.05   | \$569.35   | \$672.00    | -15%           |
| Convenience Store with Gas Pumps                | 1,000 sf    | 5.83   | \$1,619.17   | \$672.00    | 141%           |
| Home Improvement Superstore                     | 1,000 sf    | 1.78   | \$494.36   | \$672.00    | -26%           |
| Pharmacy/Drug Store with and without drive thru | 1,000 sf    | 1.93   | \$536.02   | \$672.00    | -20%           |
| Furniture Store                                 | 1,000 sf    | 0.23   | \$63.88  | \$672.00    | -91%           |
| Bank/Savings Drive-in                           | 1,000 sf    | 2.28   | \$633.22   | \$672.00    | -6%            |
| Sit-down Restaurant                             | 1,000 sf    | 6.82   | \$1,894.12   | \$672.00    | 182%           |
| High-Turnover Restaurant                        | 1,000 sf    | 7.07   | \$1,963.55   | \$672.00    | 192%           |
| Fast Food Rest w/ Drive-Thru                    | 1,000 sf    | 9.01   | \$2,502.35   | \$672.00    | 272%           |
| Quick Lube                                      | service bay | 1.16   | \$322.17   | N/A         | N/A            |
| Auto Repair Shop                                | 1,000 sf    | 1.58   | \$438.81   | \$672.00    | -35%           |
| Gasoline/Service Station/Convenience Mart       | fuel pos.   | 1.95   | \$541.57   | \$672.00    | -19%           |
| Self Service Car Wash                           | service bay | 0.87   | \$241.63   | N/A         | N/A            |
| Convenience/Gasoline/Fast Food Store            | 1,000 sf    | 7.15   | \$1,985.77   | \$672.00    | 196%           |
| <b>Industrial</b>                               |             |  |  |             |                |
| Light Industrial / Industrial Park              | 1,000 sf    | 0.69   | \$191.63   | \$238.50    | -20%           |
| General Heavy Industrial                        | 1,000 sf    | 0.49   | \$136.09   | \$238.50    | -43%           |
| Manufacturing                                   | 1,000 sf    | 0.50   | \$138.87   | \$238.50    | -42%           |
| Warehousing                                     | 1,000 sf    | 0.28   | \$77.76  | \$151.50    | -49%           |
| Mini-Warehouse/Storage                          | 1,000 sf    | 0.07   | \$19.44  | \$151.50    | -87%           |

GLA = Gross Leasable Area

- (1) Source: Table II-7 for residential land uses and Table II-8 for nonresidential land uses
- (2) Calculated impact fee determined by multiplying the net impact cost per functional resident (\$277.73) by the functional resident coefficient for each land use
- (3) Source: City of North Port Impact Fee Schedule

### Fire/EMS Impact Fee Schedule Comparison

As part of the work effort in updating the City of North Port's fire/EMS impact fee schedule, the City's calculated and adopted impact fee schedules were compared to those in similar or nearby jurisdictions. Table III-9 presents this comparison.



**Table III-9**  
**Fire/EMS Impact Fee Schedule Comparison**

| Land Use                          | Impact Fee Unit | City of North Port Calculated | City of North Port Adopted | Sarasota County | Charlotte County | City of Punta Gorda | City of Lakeland | City of Bradenton |
|-----------------------------------|-----------------|-------------------------------|----------------------------|-----------------|------------------|---------------------|------------------|-------------------|
| <b>Residential:</b>               |                 |                               |                            |                 |                  |                     |                  |                   |
| Single Family (2,000 sf)          | du              | \$486                         | \$240                      | \$339           | \$198            | \$146               | \$349            | \$210             |
| <b>Non-Residential:</b>           |                 |                               |                            |                 |                  |                     |                  |                   |
| Office (50,000 sf)                | 1,000 sf        | \$394                         | \$388                      | \$178           | \$124            | \$80                | \$207            | \$247             |
| General Light Industrial          | 1,000 sf        | \$192                         | \$239                      | \$106           | \$69             | \$30                | \$100            | \$247             |
| Fast Food Restaurant w/Drive-Thru | 1,000 sf        | \$2,502                       | \$672                      | \$442           | \$773            | \$280               | \$491            | \$247             |
| Retail (100,000 sf)               | 1,000 sf        | \$594                         | \$672                      | \$442           | \$191            | \$230               | \$491            | \$247             |

Source: City of North Port figures are from Table III-8. Figures for all other jurisdictions are from their respective impact fee schedules. Please note that the Cities of Bradenton and Punta Gorda and Charlotte County are currently under moratorium and are not charging fees.

### Smart Growth Application

As discussed in Section I, the Smart Growth approach takes into consideration revenues received from the existing development that are used toward capacity expansion projects. It calculates what the impact fee level needs to be to maintain the existing/achieved LOS given a certain level of non-impact fee funding and estimated growth rate.

In the case of Fire/EMS services, the CIP indicates a contribution of approximately \$300,000 per year from the sales tax. Over the next 20 years, the City is expected to grow at an annual rate of 3.5 percent. Figure III-1 presents how impact fee levels would change over time with different growth rates. As shown, the maximum impact fee level is compared investment needed to maintain the current LOS. Although the City has the legal right to charge the Fire/EMS impact fee at the maximum level, approximately 85 percent of this fee is needed to maintain the current/achieved LOS due to non-impact fee contributions from the existing development and relatively lower rate of population growth.

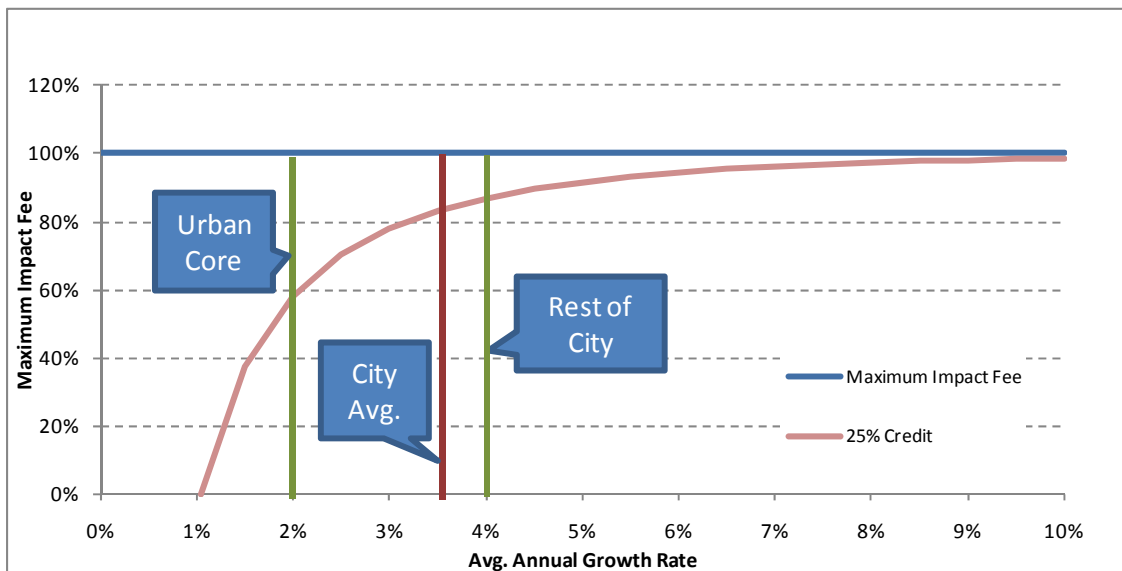
If the City is interested in lowering fees only in the urban core area and continue to charge the full rate in the rest of the city, because the urban core is projected to grow at a lower rate of 2 percent, the City could lower the impact fee in this area by 40% (or adopt the fee at 60%) as long as a minimum of 90 percent of the calculated fire/EMS impact fee is adopted in the rest of the city to maintain the existing LOS.





Similarly, the level of flexibility extends to targeted land uses. In other words, if the City wants to continue to charge the impact fee for certain land uses, such as single family, etc., and eliminate or reduce the impact fee on non-residential land uses, it can do so. If the City adopts the single family home fee at 100 percent, it is able to reduce the fee for non-residential land uses by approximately 60 percent (or adopt the fee for non-residential land uses at 40 percent). These revenues along with non-impact fee funding available will enable the City to maintain its existing LOS. This is based on the assumption that over the next ten to 20 years, on average, approximately 75 percent of the impact fee revenues will be obtained from residential land uses and the remainder from non-residential land uses.

**Figure III-1  
Fire/EMS Impact Fee vs. Average Annual Growth Rate**



Calculations shown in this study establish the legally maximum level of impact fee that can be charged for fire/EMS services (shown in Table III-8), and shows the flexibility the City has in terms of either reducing the impact fee levels or sales tax contributions to maintain the current LOS given the relatively low growth rate.



Given this information, the City has the following options:

- Collect the fire/EMS impact fee at the maximum legally acceptable level and continue to contribute sales tax revenues to improve the existing LOS, which is shown in Figure III-2. As presented, with the current sales tax contribution levels, collection of fire/EMS impact fees at 100 percent level will improve the LOS by approximately 5 percent when the population doubles.

It is important to note that aside from population per station, other factors such as the location of stations, ISO ratings, etc. are also important in determining the additional number of stations needed, which benefit the community by reducing response time and/or insurance premiums.

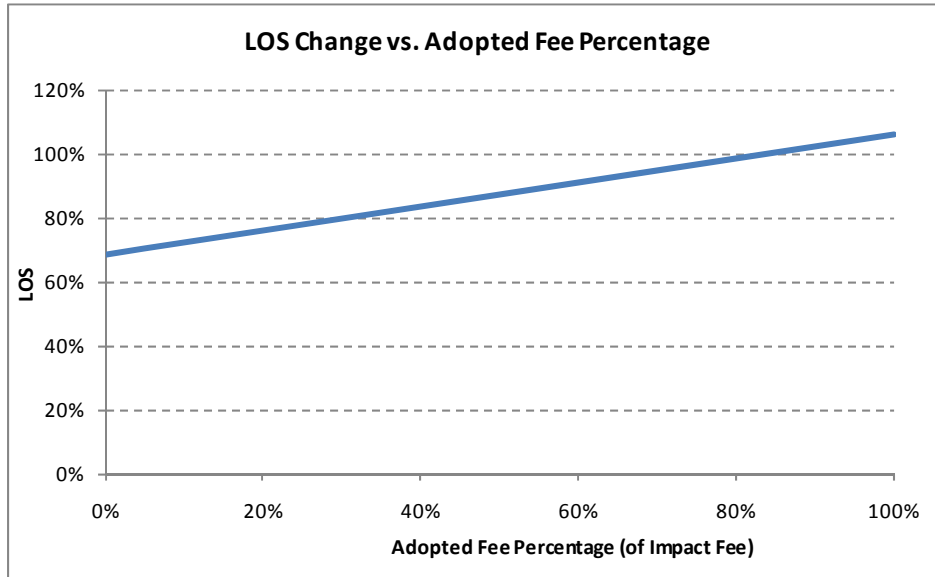
- Adopt the fire/EMS impact fee with a discount either citywide or in certain areas and/or for targeted land uses. This will enable the City to provide incentives for the targeted development in desired locations and still maintain or even improve the LOS.
- Collect the impact fee at 100 percent and use the sales tax revenues for other infrastructure/projects as needed. This will allow the City to maintain the current LOS for fire/EMS capital facilities and provide some flexibility with non-impact funds.



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**Figure III-2**  
**Fire/EMS LOS Improvement**

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## IV. Law Enforcement

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Law enforcement impact fees are used to fund the capital construction and expansion of police service related land, facilities and capital equipment required to support the additional police service demand created by new growth. This report presents the results of the law enforcement impact fee study for the City of North Port and will serve as the technical support document for the calculated law enforcement impact fee schedule.

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

- Capital Asset Inventory
- Service Area and Population
- Facility Service Delivery
- Cost Component
- Credit Component
- Calculated Law Enforcement Impact Fee Schedule
- Law Enforcement Impact Fee Schedule Comparison
- Smart Growth Application

### Inventory and Value of Capital Assets

According to information provided by the City of North Port Police Department (NPPD), the City has approximately 32,500 square feet of building space at the Police Headquarters used to provide law enforcement facilities. Table IV-1 shows a summary of the building and land inventory. It is our understanding that the future police substations will be located in fire stations. As such, the current building value of \$200 per square foot is used, which was also the unit cost figure used for future fire stations. Similarly, for land value \$50,000 per acre that was used for fire stations was used in the case of law enforcement facilities as well.



**Table IV-1  
Building and Land Inventory**

| Facility Description                   | Location                             | Square Footage <sup>(1)</sup> | Total Square Footage on Site <sup>(2)</sup> | Total Acres <sup>(3)</sup> | Acres per 1,000 sf of Building Space <sup>(4)</sup> | Adjusted Acres <sup>(5)</sup> | Current Value            |                     |                      |
|--|--------------------------------------|-------------------------------|---|----------------------------|---|-------------------------------|--------------------------|---------------------|----------------------|
|  |                                      |                               |   |                            |   |                               | Buildings <sup>(6)</sup> | Land <sup>(7)</sup> | Total <sup>(8)</sup> |
| Police Headquarters                    | 4980 City Hall Blvd., North Port, FL | 32,484                        | 136,063                                     | 33.49                      | 0.25  | 8.12                          | \$6,496,800              | \$406,000           | \$6,902,800          |
| Average Building Value per Square Foot |                                      |                               |   |                            |   |                               | \$200                    |                     |                      |
| Average Land Value per Acre            |                                      |                               |   |                            |   |                               |                          | \$50,000            |                      |

(1), (2), (3) Source: City of North Port Planning & Zoning Department

(4) Total acres (Item 3) divided by total square footage on site (Item 4) multiplied by 1,000

(5) Acres per 1,000 sf of building space (Item 4) multiplied by square footage (Item 1) divided by 1,000

(6) Square footage (Item 1) multiplied by the average building value per square foot

(7) Adjusted acres (Item 5) multiplied by the average land value per acre

(8) Sum of the buildings value (Item 6) and land value (Item 7)



In addition to the land and buildings inventory, the NPPD also has the vehicles and equipment to perform its law enforcement duties. Table IV-2 summarizes the vehicle inventory.

**Table IV-2  
Vehicle Inventory**

| Description                                   | Units <sup>(1)</sup> | Unit Cost <sup>(2)</sup> | Total Cost <sup>(3)</sup> |
|---|----------------------|--------------------------|---------------------------|
| Marked Police Units                           | 67                   | \$48,000                 | \$3,216,000               |
| Unmarked Police Units                         | 28                   | \$41,589                 | \$1,164,500               |
| Van / Pickup / Utility Vehicles               | 22                   | \$45,545                 | \$1,002,000               |
| ATVs and Trailers                             | 7                    | \$11,429                 | \$80,000                  |
| <b>Total Vehicle Value</b>                    | <b>124</b>           |                          | <b>\$5,462,500</b>        |
| <b>Number of Sworn Officers<sup>(4)</sup></b> |                      |                          | <b>103</b>                |
| <b>Total Vehicle Value per Officer</b>        |                      |                          | <b>\$53,034</b>           |

(1) & (2) Source: City of North Port Police Department, represents the value of fully equipped vehicles

(3) Unit cost (Item 2) multiplied by units (Item 1)

(4) Source: Table IV-3

### Service Area, Population and Benefit Districts

The City of North Port Police Department provides all residents, workers, and visitors law enforcement services. As such, the service area is the entire city, which will continue to be included in a single citywide benefit district.

As previously stated, police services are provided to the entire City of North Port. Therefore, the citywide 24-hour functional population estimate for year 2011 is used, which is provided in Section II, Table II-6.



## Level of Service

Based on the information provided by the City, the City of North Port's 2011 level of service (LOS) is 1.70 sworn law enforcement officers per 1,000 weighted residents. Table IV-3 presents the calculation of the existing LOS.

While the 2011 LOS is 1.70 officers per 1,000 weighted residents, in order to calculate the law enforcement facilities impact fee, the LOS needs to be calculated in terms of officers per 1,000 functional residents. Table IV-3 also illustrates the calculation of the current LOS using the total functional residents within the service area. The current LOS of law enforcement facilities is 1.85 officers per 1,000 functional residents.

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**Table IV-3**  
**Level of Service**

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| Component                                     | 2011   |
|---|--------|
| Number of Sworn Officers <sup>(1)</sup>       | 103    |
| Weighted Population <sup>(2)</sup>            | 60,690 |
| LOS (Officers per 1,000 Weighted Residents)   | 1.70   |
| Functional Population <sup>(3)</sup>          | 55,702 |
| LOS (Officers per 1,000 Functional Residents) | 1.85   |

(1) Source: City of North Port Police Department

(2) Source: Section II, Table II-1

(3) Source: Appendix A, Table A-4

Table IV-4 summarizes a LOS comparison between the North Port and cities and counties near or similar to North Port.



**Table IV-4**  
**Level of Service Comparison (2010)**

| Jurisdiction                | Population <sup>(1)</sup> | Number of Officers <sup>(2)</sup> | Residents per Officer <sup>(3)</sup> | LOS (Officers per 1,000 Residents) <sup>(4)</sup> |
|-----------------------------|---------------------------|-----------------------------------|--------------------------------------|---|
| Charlotte County (Unincorp) | 143,337                   | 199                               | 720                                  | 1.388   |
| Sarasota County (Unincorp)  | 207,308                   | 322                               | 644                                  | 1.553   |
| City of North Port          | 57,357                    | 103                               | 557                                  | 1.796   |
| City of Punta Gorda         | 16,641                    | 34                                | 489                                  | 2.043   |
| City of Lakeland            | 97,422                    | 220                               | 443                                  | 2.258   |
| City of Venice              | 20,748                    | 51                                | 407                                  | 2.458   |
| City of Sarasota            | 51,917                    | 172                               | 302                                  | 3.313   |

(1) Source: 2010 Census

(2) Source: Table IV-3 for City of North Port, Florida Department of Law Enforcement Criminal Agency Profile Report for all other jurisdictions.

(3) Population (Item 1) divided by number of officers (Item 2)

(4) Number of officers (Item 2) divided by population (Item 1) multiplied by 1,000

### Cost Component

The cost component of the study evaluates the cost of capital items, including buildings, land, vehicles, and equipment. Table IV-5 provides a summary of all capital costs, which amounts to approximately \$120,000 per sworn law enforcement officer.

Table IV-5 also presents the cost per functional resident for the impact fee analysis. This cost was calculated as the total capital cost of \$120,000 per officer multiplied by the LOS of 1.85 officers per 1,000 functional residents divided by 1,000. As shown in the following table, the total impact cost per resident is \$222 for law enforcement facilities.





**Table IV-5  
Asset Value per Officer**

| Item   | Figure             | Percent of Total <sup>(9)</sup> |
|--|--------------------|---------------------------------|
| Total Land Value <sup>(1)</sup>  | \$406,000          | 3%                              |
| Total Building Value <sup>(2)</sup>                                    | \$6,496,800        | 53%                             |
| Total Vehicle Value <sup>(3)</sup>                                     | <u>\$5,462,500</u> | <u>44%</u>                      |
| Total Capital Asset Value <sup>(4)</sup>                               | \$12,365,300       | 100%                            |
| Number of Sworn Police Officers <sup>(5)</sup>                         | 103                |                                 |
| <b>Total Capital Asset Value per Officer<sup>(6)</sup></b>             | <b>\$120,051</b>   |                                 |
| LOS (Officers per 1,000 Functional Residents) <sup>(7)</sup>           | 1.85               |                                 |
| <b>Total Capital Asset Value per Functional Resident<sup>(8)</sup></b> | <b>\$222.09</b>    |                                 |

- (1) Source: Table IV-1
- (2) Source: Table IV-1
- (3) Source: Table IV-2
- (4) Sum of the land value (Item 1), building value (Item 2), and equipment value (Item 3)
- (5) Source: Table IV-3
- (6) Total capital asset value (Item 4) divided by number of sworn police officers (Item 5)
- (7) Source: Table IV-3
- (8) Total capital asset value per officer (Item 6) multiplied by the LOS (Item 7) divided by 1,000
- (9) Respective asset value divided by the total capital asset value per office (Item 4)

### Credit Component

To avoid overcharging development for the law enforcement impact fee, a review of the capital financing program for law enforcement services was completed. The purpose of this review was to determine any potential revenue credits that should be considered for revenues generated by new development that could be used for capital facilities, land, and equipment expansion for the law enforcement program.

The review of the capital expansion expenditures for the 10-year period from FY 2007 to FY 2016 indicated that capacity expansion projects are fully funded with impact fee revenues. As such, it is not necessary to give credit against the impact cost and the net impact cost is \$222 per resident as shown previously in Table IV-5.

*Impact fee revenue is the sole funding source used toward law enforcement capacity expansion projects.*



## Law Enforcement Calculated Impact Fee Schedule

The law enforcement impact fee schedule was developed for residential and nonresidential land uses and is provided in Table IV-6. The percent change from the current fee to the new calculated fee is also provided.

**Table IV-6**  
**Law Enforcement Impact Fee Schedule**

| Land Use   | Impact Unit | Functional Population Coefficient <sup>(1)</sup> | Net Impact Cost per Functional Resident <sup>(2)</sup> | Current Fee | Percent Change |
|--|-------------|--|--|-------------|----------------|
| <b>Residential</b>   |             |  |  |             |                |
| Single Family Detached   | du          | 1.75   | \$388.66   | \$80.50     | 383%           |
| Multi-Family   | du          | 1.03   | \$228.75   | \$59.50     | 285%           |
| Mobile Home / RV Park Site   | du          | 0.86   | \$191.00   | \$53.00     | 260%           |
| Retirement Community/Age Restricted Single Family/Senior Adult Housing | du          | 1.03   | \$228.75   | \$80.50     | 184%           |
| <b>Transient, Assisted, Group</b>                                      |             |  |  |             |                |
| Hotel/Motel  | room        | 1.01   | \$224.31   | \$56.00     | 301%           |
| Nursing Home   | bed         | 0.68   | \$151.02   | \$130.00    | 16%            |
| Assisted Living Facility (ALF)/Congregate Care Facility                | du          | 0.86   | \$191.00   | N/A         | N/A            |
| <b>Recreational</b>  |             |  |  |             |                |
| Marina   | berth       | 0.19   | \$42.20  | \$225.50    | -81%           |
| Golf Course  | acre        | 0.15   | \$33.31  | \$225.50    | -85%           |
| Movie Theater with Matinee   | 1,000 sf    | 1.68   | \$373.11   | \$225.50    | 66%            |
| Recreational/Community Center  | 1,000 sf    | 1.42   | \$315.37   | \$225.50    | 40%            |
| <b>Institutions</b>  |             |  |  |             |                |
| Elementary School(K-8)   | 1,000 sf    | 0.63   | \$139.92   | \$130.00    | 8%             |
| High School (9-12)   | 1,000 sf    | 0.56   | \$124.37   | \$130.00    | -4%            |
| University/Junior College with 7,500 or fewer students                 | student     | 0.10   | \$22.21  | N/A         | N/A            |
| University/Junior College with more than 7,500 students                | student     | 0.07   | \$15.55  | N/A         | N/A            |
| Church   | 1,000 sf    | 0.57   | \$126.59   | \$130.00    | -3%            |
| Day Care   | 1,000 sf    | 0.89   | \$197.66   | \$130.00    | 52%            |
| Hospital   | 1,000 sf    | 1.55   | \$344.24   | \$130.00    | 165%           |
| <b>Office and Financial</b>  |             |  |  |             |                |
| Office 50,000 SF or less   | 1,000 sf    | 1.42   | \$315.37   | \$130.00    | 143%           |
| Office 50,001 - 100,000 SF   | 1,000 sf    | 1.21   | \$268.73   | \$130.00    | 107%           |
| Office 100,001 - 200,000 SF  | 1,000 sf    | 1.03   | \$228.75   | \$130.00    | 76%            |
| Office 200,001 - 400,000 SF  | 1,000 sf    | 0.88   | \$195.44   | \$130.00    | 50%            |
| Office greater than 400,000 SF   | 1,000 sf    | 0.80   | \$177.67   | \$130.00    | 37%            |
| Medical Office (1 to 10,000 SF)  | 1,000 sf    | 1.14   | \$253.18   | \$130.00    | 95%            |
| Medical Office (Greater than 10,000 SF)                                | 1,000 sf    | 1.72   | \$381.99   | \$130.00    | 194%           |
| Business Park (Flex space)   | 1,000 sf    | 0.99   | \$219.87   | \$80.50     | 173%           |



**Table IV-6  
Law Enforcement Impact Fee Schedule (Continued)**

| Land Use  | Impact Unit | Functional Population Coefficient <sup>(1)</sup> | Net Impact Cost per Functional Resident <sup>(2)</sup> | Current Fee | Percent Change |
|---|-------------|--|--|-------------|----------------|
| <b>Retail, Gross Square Feet</b>                |             |  |  |             |                |
| Building Materials/Lumber                       | 1,000 sf    | 1.21   | \$268.73   | \$225.50    | 19%            |
| Hardware/Paint                                  | 1,000 sf    | 1.15   | \$255.40   | \$225.50    | 13%            |
| Shopping Center 50,000 sfgla or less            | 1,000 sfgla | 2.45   | \$544.12   | \$225.50    | 141%           |
| Shopping Center greater than 50,000 sfgla       | 1,000 sfgla | 2.14   | \$475.27   | \$225.50    | 111%           |
| New and Used Auto Sales                         | 1,000 sf    | 1.55   | \$344.24   | \$225.50    | 53%            |
| Tire Store                                      | 1,000 sf    | 0.99   | \$219.87   | \$225.50    | -3%            |
| Supermarket                                     | 1,000 sf    | 2.05   | \$455.28   | \$225.50    | 102%           |
| Convenience Store with Gas Pumps                | 1,000 sf    | 5.83   | \$1,294.78   | \$225.50    | 474%           |
| Home Improvement Superstore                     | 1,000 sf    | 1.78   | \$395.32   | \$225.50    | 75%            |
| Pharmacy/Drug Store with and without drive thru | 1,000 sf    | 1.93   | \$428.63   | \$225.50    | 90%            |
| Furniture Store                                 | 1,000 sf    | 0.23   | \$51.08  | \$225.50    | -77%           |
| Bank/Savings Drive-in                           | 1,000 sf    | 2.28   | \$506.37   | \$225.50    | 125%           |
| Sit-down Restaurant                             | 1,000 sf    | 6.82   | \$1,514.65   | \$225.50    | N/A            |
| High-Turnover Restaurant                        | 1,000 sf    | 7.07   | \$1,570.18   | \$225.50    | N/A            |
| Fast Food Rest w/ Drive-Thru                    | 1,000 sf    | 9.01   | \$2,001.03   | \$225.50    | 787%           |
| Quick Lube                                      | service bay | 1.16   | \$257.62   | N/A         | N/A            |
| Auto Repair Shop                                | 1,000 sf    | 1.58   | \$350.90   | \$225.50    | 56%            |
| Gasoline/Service Station/Convenience Mart       | fuel pos.   | 1.95   | \$433.08   | N/A         | N/A            |
| Self Service Car Wash                           | service bay | 0.87   | \$193.22   | N/A         | N/A            |
| Convenience/Gasoline/Fast Food Store            | 1,000 sf    | 7.15   | \$1,587.94   | \$225.50    | 604%           |
| <b>Industrial</b>                               |             |  |  |             |                |
| Light Industrial / Industrial Park              | 1,000 sf    | 0.69   | \$153.24   | \$80.50     | 90%            |
| Heavy Industrial                                | 1,000 sf    | 0.49   | \$108.82   | \$80.50     | 35%            |
| Manufacturing                                   | 1,000 sf    | 0.50   | \$111.05   | \$80.50     | 38%            |
| Warehousing                                     | 1,000 sf    | 0.28   | \$62.19  | \$51.00     | 22%            |
| Mini-Warehouse/Storage                          | 1,000 sf    | 0.07   | \$15.55  | \$51.00     | -70%           |

GLA = Gross Leasable Area

(1) Source: Table II-7 for residential land uses and Table II-8 for nonresidential land uses

(2) Net impact cost from Table IV-7 (\$222.09) multiplied by the functional population coefficient (Item 1)

### Law Enforcement Impact Fee Schedule Comparison

As part of the work effort in updating the City of North Port's law enforcement impact fee schedule, the City's calculated impact fee schedule was compared to the adopted fee schedule and those in similar or nearby jurisdictions. Table IV-7 presents this comparison.



**Table IV-7**  
**Law Enforcement Impact Fee Schedule Comparison**

| Land Use                          | Impact Fee Unit | City of North Port (Calculated) | City of North Port (Adopted) | Sarasota County | Charlotte County | City of Punta Gorda | City of Lakeland | City of Bradenton |
|-----------------------------------|-----------------|---------------------------------|------------------------------|-----------------|------------------|---------------------|------------------|-------------------|
| <b>Residential:</b>               |                 |                                 |                              |                 |                  |                     |                  |                   |
| Single Family                     | du              | \$389                           | \$81                         | \$195           | \$89             | \$199               | \$591            | \$310             |
| <b>Non-Residential:</b>           |                 |                                 |                              |                 |                  |                     |                  |                   |
| Office (50,000 sf)                | 1,000 sf        | \$315                           | \$130                        | \$102           | \$57             | \$30                | \$350            | \$155             |
| General Light Industrial          | 1,000 sf        | \$153                           | \$81                         | \$61            | \$32             | \$10                | \$170            | \$155             |
| Fast Food Restaurant w/Drive-Thru | 1,000 sf        | \$2,001                         | \$226                        | \$254           | \$351            | \$120               | \$832            | \$155             |
| Retail (100,000 sf)               | 1,000 sf        | \$475                           | \$226                        | \$254           | \$87             | \$100               | \$781            | \$155             |

**Note:**

-Cities of Bradenton and Punta Gorda and Charlotte County implemented a moratorium on the law enforcement impact fee.

**Smart Growth Application**

As mentioned previously, the Smart Growth approach takes into consideration revenues received from the existing development that are used toward capacity expansion projects. It calculates what the impact fee level needs to be to maintain the existing/achieved LOS given a certain level of non-impact fee funding and estimated growth rate.

In the case of law enforcement services, the City expects to fund all capacity expansion projects with impact fee revenues. In other words, no other revenue sources are available to fund additional capacity. As such, if the City does not adopt the law enforcement impact fees at the maximum amount calculated in this study, the LOS for law enforcement service is likely to deteriorate over time.



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## V. Parks and Recreation

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The City of North Port provides parks and recreation services to all residents of the City of North Port. As such, this analysis will include all parks and recreation facilities located within the municipal boundaries of the City of North Port. This section summarizes the analysis used in the development of the proposed City of North Port parks and recreation impact fee schedule and includes the following sections:

- Capital Asset Inventory
- Service Area and Population
- Facility Service Delivery
- Cost Component
- Credit Component
- Net Parks and Recreation Impact Cost
- Calculated Parks and Recreation Impact Fee Schedule
- Parks and Recreation Impact Fee Schedule Comparison
- Smart Growth Application

Information supporting this analysis was obtained from the City of North Port Parks and Recreation Department and other sources as indicated.

### Inventory of Capital Assets

City of North Port parks and recreation facilities are classified into four different types of parks: neighborhood, special, community and undeveloped parks, based on the information provided by the City. The impact fee inventory does not contain any parks or portions thereof that are located in wetlands and are unable to be developed.

Table V-1 provides an inventory of all parks and recreation facilities that are owned by City of North Port and included in the impact fee analysis, along with the facilities that are available at each park location. The parks and recreation inventory used as the basis for the impact fee analysis includes 23 parks, including seven neighborhood parks, seven special parks, five community parks and four undeveloped parks.



**Table V-1  
Parks and Recreation Inventory<sup>(1)</sup>**

| Park/Facility Name                            | Total Acreage | Park Class | Baseball Complex | Basketball Court | Benches  | Boat Ramp / Dock | Fence     | Flag Pole | Fountain | Handball Court | Maintenance Bldg / Shed / Office (sf) | Monument | Multipurpose Center | Observation Area / Walkways | Picnic Pavilion/ Shelter/Area | Picnic Table | Playground | Restroom (sq ft) | Shuffleboard Court | Skate Park/ BMX Park | Softball Field | Sports Complex | Tennis Court |
|---|---------------|------------|------------------|------------------|----------|------------------|-----------|-----------|----------|----------------|---------------------------------------|----------|---------------------|-----------------------------|-------------------------------|--------------|------------|------------------|--------------------|----------------------|----------------|----------------|--------------|
| Atwater Park                                  | 25.00         | C          | 1                |                  |          |                  |           |           |          |                |                                       |          |                     |                             |                               |              |            |                  |                    |                      |                |                |              |
| Blue Ridge Park                               | 6.10          | N          |                  |                  |          |                  | 2         |           |          |                |                                       |          |                     |                             | 1                             |              | 1          | 180              |                    |                      |                |                |              |
| Butler Park                                   | 40.00         | C          |                  |                  |          |                  | 1         |           |          |                | 1,856                                 |          | 1                   |                             | 1                             |              |            | 114              |                    |                      |                | 1              |              |
| Dallas White Park                             | 17.10         | C          |                  |                  |          |                  | 1         |           |          |                | 520                                   |          |                     |                             | 1                             |              | 1          | 355              |                    |                      | 1              |                |              |
| Garden of the Five Senses                     | 16.36         | S          |                  |                  |          |                  |           |           |          |                |                                       |          |                     |                             |                               |              |            |                  |                    |                      |                |                |              |
| George Mullen Activity Center                 | 4.76          | C          |                  |                  |          |                  | 1         |           |          |                |                                       |          | 1                   |                             |                               | 1            |            |                  |                    |                      |                |                |              |
| Highland Ridge Park                           | 8.00          | N          |                  | 2                |          |                  | 2         |           |          | 1              | 240                                   |          |                     |                             |                               |              | 1          | 273              |                    | 1                    |                |                | 1            |
| Mt. Hope Park                                 | 1.90          | N          |                  |                  |          |                  |           |           |          |                |                                       |          |                     |                             | 1                             |              | 1          |                  |                    |                      |                |                |              |
| Kirk Park                                     | 1.90          | N          |                  | 1                |          |                  | 1         |           |          |                |                                       |          |                     |                             | 1                             |              | 1          |                  | 8                  |                      |                |                |              |
| LaBrea Park                                   | 2.70          | N          |                  | 1                |          |                  | 1         |           |          |                |                                       |          |                     |                             | 1                             |              |            |                  |                    |                      |                |                |              |
| Marina Park - Boat Ramp                       | 1.04          | S          |                  |                  |          | 1                |           |           |          |                |                                       |          |                     |                             | 1                             |              |            |                  |                    |                      |                |                |              |
| McKibben Park                                 | 3.50          | N          |                  | 1                |          |                  | 2         |           |          |                |                                       |          |                     |                             | 1                             |              | 1          | 180              | 2                  |                      |                |                | 1            |
| Myakkahatchee Park                            | 10.00         | S          |                  |                  |          |                  | 1         | 1         |          |                |                                       |          |                     | 2                           | 1                             |              |            | 49               |                    |                      |                |                |              |
| Narramore Sports Complex                      | 24.70         | C          |                  |                  |          |                  | 1         | 1         |          |                |                                       |          |                     |                             |                               |              |            |                  |                    |                      |                |                | 1            |
| Oaks Park (Undeveloped)                       | 8.23          | U          |                  |                  |          |                  |           |           |          |                |                                       |          |                     |                             |                               |              |            |                  |                    |                      |                |                |              |
| Paw Park                                      | 3.77          | S          |                  |                  |          |                  |           |           |          |                |                                       |          |                     |                             | 1                             |              |            |                  |                    |                      |                |                |              |
| Pine Park                                     | 2.60          | N          |                  |                  |          |                  |           |           |          |                |                                       |          |                     |                             | 1                             |              | 1          |                  |                    |                      |                |                |              |
| North Port Skate Park                         | 0.85          | S          |                  |                  |          |                  | 1         |           |          |                |                                       |          |                     |                             |                               |              |            | 480              |                    | 1                    |                |                |              |
| Veterans Park                                 | 2.90          | S          |                  |                  | 1        |                  |           | 1         | 1        |                |                                       | 1        |                     |                             |                               |              |            |                  |                    |                      |                |                |              |
| Greenway (Myakkahatchee Creek & Boca Chica)   | 42.21         | S          |                  |                  |          |                  |           |           |          |                |                                       |          |                     |                             |                               |              |            |                  |                    |                      |                |                |              |
| West Villages Park (Undeveloped)              | 63.00         | U          |                  |                  |          |                  |           |           |          |                |                                       |          |                     |                             |                               |              |            |                  |                    |                      |                |                |              |
| Tract BJ, CK & BH 47th Addition (Undeveloped) | 60.69         | U          |                  |                  |          |                  |           |           |          |                |                                       |          |                     |                             |                               |              |            |                  |                    |                      |                |                |              |
| Tract A, 21st Addition (Undeveloped)          | 47.24         | U          |                  |                  |          |                  |           |           |          |                |                                       |          |                     |                             |                               |              |            |                  |                    |                      |                |                |              |
| Summary                                       | Acreage       |            | Baseball Complex | Basketball Court | Benches  | Boat Ramp / Dock | Fence     | Flag Pole | Fountain | Handball Court | Maintenance Bldg / Shed / Office (sf) | Monument | Multipurpose Center | Observation Area / Walkways | Picnic Pavilion/ Shelter/Area | Picnic Table | Playground | Restroom (sq ft) | Shuffleboard Court | Skate Park/ BMX Park | Softball Field | Sports Complex | Tennis Court |
| Neighborhood Park (N)                         | 26.70         |            | 0                | 5                | 0        | 0                | 8         | 0         | 0        | 1              | 240                                   | 0        | 0                   | 0                           | 6                             | 0            | 6          | 633              | 10                 | 1                    | 0              | 0              | 2            |
| Special Park (S)                              | 77.13         |            | 0                | 0                | 1        | 1                | 2         | 2         | 1        | 0              | 0                                     | 1        | 0                   | 2                           | 3                             | 0            | 0          | 529              | 0                  | 1                    | 0              | 0              | 0            |
| Community Park (C)                            | 111.56        |            | 1                | 0                | 0        | 0                | 4         | 1         | 0        | 0              | 2,376                                 | 0        | 2                   | 0                           | 2                             | 1            | 1          | 469              | 0                  | 0                    | 1              | 2              | 0            |
| Undeveloped Park Land (U)                     | 179.16        |            | 0                | 0                | 0        | 0                | 0         | 0         | 0        | 0              | 0                                     | 0        | 0                   | 0                           | 0                             | 0            | 0          | 0                | 0                  | 0                    | 0              | 0              | 0            |
| <b>Total</b>                                  | <b>394.55</b> |            | <b>1</b>         | <b>5</b>         | <b>1</b> | <b>1</b>         | <b>14</b> | <b>3</b>  | <b>1</b> | <b>1</b>       | <b>2,616</b>                          | <b>1</b> | <b>2</b>            | <b>2</b>                    | <b>11</b>                     | <b>1</b>     | <b>7</b>   | <b>1,631</b>     | <b>10</b>          | <b>2</b>             | <b>1</b>       | <b>2</b>       | <b>2</b>     |

(1) Source: City of North



## Service Area, Population and Benefit Districts

The City of North Port provides community recreation and parks facilities and services to all city residents. Although neighborhood parks tend to serve smaller geographic areas, in terms of future improvements to these types of parks, it is the intent of the City to build types of facilities that would serve the entire city. In addition, the City will continue to develop community parks. As such, the service area for the parks included in the impact fee calculations is the entire citywide population. However, due to an agreement that involves the West Villages, it is recommended to maintain the current benefit districts: one that includes the West Villages, and the other that includes the rest of the city. In other words, the parks and recreation impact fee will be the same for the entire city; however, there will be two benefit districts that determine where the impact fee revenues will be spent. Section II, Tables II-1 and II-2 provide the estimated population for 2011, the projected population through 2020, and people per housing unit by land use for use in the recreation and parks impact fee analysis.

## Level of Service

Based on the information provided by the City, North Port's 2011 level of service (LOS) for developed parks is 3.55 acres per 1,000 residents and the undeveloped land LOS is 2.95 acres per 1,000 residents, for a total of 6.50 acres per 1,000 residents.

*The current parks and recreation level of service is 6.50 acres of parks per 1,000 residents.*

Table V-2 presents the calculation of the current LOS for each park type included in the inventory, as well as the City's adopted LOS standards included in the City's Comprehensive Plan. It is recommended that the City amend the adopted LOS standard to be consistent with the achieved LOS included in the impact fee calculations.



**Table V-2**  
**Current Level of Service**

| Calculation Step  | 2011 Population <sup>(1)</sup> | Park Acreage <sup>(2)</sup> | Current LOS <sup>(3)</sup> | Adopted LOS <sup>(4)</sup> |
|---|--------------------------------|-----------------------------|----------------------------|----------------------------|
| City of North Port  | 60,690                         |                             |                            |                            |
| <i>Parks and Recreation Level of Service (Acres per 1,000 Residents):</i> |                                |                             |                            |                            |
| Neighborhood Park   |                                | 26.70                       | 0.44                       | N/A                        |
| Special Park  |                                | 77.13                       | 1.27                       | N/A                        |
| Community Park  |                                | 111.56                      | 1.84                       | 1.50                       |
| <b>Developed Park Acreage / LOS</b>                                       |                                | <b>215.39</b>               | <b>3.55</b>                | <b>1.50</b>                |
| Undeveloped Land  |                                | 179.16                      | 2.95                       | N/A                        |
| <b>Total Park Acreage/LOS</b>   |                                | <b>394.55</b>               | <b>6.50</b>                | <b>1.50</b>                |

(1) Source: Section II, Table II-1

(2) Source: Table V-1

(3) Park acreage (Item 2) divided by 2011 population (Item 1) multiplied by 1,000

(4) Source: City of North Port Comprehensive Plan

Table V-3 presents a comparison of the parks and recreation adopted LOS standards of surrounding counties and municipalities to the City of North Port's adopted standards and achieved LOS. Based on this comparison, the City of North Port's achieved LOS is within the range of the surround communities' adopted standards.





**Table V-3**  
**Level of Service Comparison**

| Jurisdiction                                 | LOS Standard<br>(Acres per 1,000<br>Residents) |
|--|--|
| City of North Port (adopted) <sup>(1)</sup>  | 1.50   |
| City of Punta Gorda <sup>(2)</sup>           | 5.00   |
| City of Lakeland <sup>(3)</sup>              | 5.98   |
| Charlotte County <sup>(4)</sup>              | 6.00   |
| City of North Port (achieved) <sup>(5)</sup> | 6.50   |
| City of Venice <sup>(6)</sup>                | 7.00   |
| Sarasota County <sup>(7)</sup>               | 7.00   |
| City of Sarasota <sup>(8)</sup>              | 10.00  |

- (1) Source: Table V-2
- (2) Source: City of Punta Gorda 2025 Comprehensive Plan
- (3) Source: City of Lakeland Comprehensive Plan
- (4) Source: Charlotte County Comprehensive Plan
- (5) Source: Table V-2
- (6) City of Venice Comprehensive Plan
- (7) Source: Sarasota Comprehensive Plan; Sarasota County's desired LOS is higher than currently adopted.
- (8) Source: City of Sarasota Comprehensive Plan

### **Cost Component**

The total cost per resident for parks and recreation facilities consists of two components: the cost of purchasing and developing land for each park and the cost of facilities and equipment located at each park.

*The cost of parks and recreation services includes building, facilities, and land cost.*

### **Facility and Equipment Cost**

The first step in calculating the total cost for parks and recreation services in North Port involves estimating the current value of the facility and equipment cost of the total inventory.



As presented in Table V-4, the total park facilities and equipment value is \$20.1 million, or approximately \$51,000 of facility value per acre, including facilities, equipment, and architecture and engineering costs. When available, the current value for the parks facilities and equipment is estimated based on recent bids or purchases made by the City for its park facilities. When recent bid/purchase information was not available, unit costs from the City's insurance reports and recent costs for similar facilities from other jurisdictions were used.



**Table V-4**  
**Parks and Recreation Facilities and Equipment Cost**

| Facility Description <sup>(1)</sup>                                  | Unit          | Unit Current Value <sup>(2)</sup> | All Parks            |                            |
|--|---------------|-----------------------------------|----------------------|----------------------------|
|  |               |                                   | Count <sup>(3)</sup> | Total Value <sup>(4)</sup> |
| Baseball Complex   | complex       | \$4,000,000                       | 1                    | \$4,000,000                |
| Basketball Court   | court         | \$5,000                           | 5                    | \$25,000                   |
| Benches  | bench         | \$2,500                           | 1                    | \$2,500                    |
| Boat Ramp / Dock   | ramp          | \$15,800                          | 1                    | \$15,800                   |
| Fence  | fence         | \$25,000                          | 14                   | \$350,000                  |
| Flag Pole  | pole          | \$4,500                           | 3                    | \$13,500                   |
| Fountain   | fountain      | \$32,600                          | 1                    | \$32,600                   |
| Handball Court   | court         | \$21,100                          | 1                    | \$21,100                   |
| Maintenance Building   | square foot   | \$55                              | 2,616                | \$143,880                  |
| Monument   | monument      | \$23,900                          | 1                    | \$23,900                   |
| Multipurpose Center  | center        | \$5,000,000                       | 2                    | \$10,000,000               |
| Observation Area / Walkways  | walkway       | \$40,250                          | 2                    | \$80,500                   |
| Picnic Pavilion/Shelter/Area   | pavilion/area | \$25,000                          | 11                   | \$275,000                  |
| Picnic Table   | table         | \$2,100                           | 1                    | \$2,100                    |
| Playground   | playground    | \$52,500                          | 7                    | \$367,500                  |
| Restroom   | square foot   | \$185                             | 1,631                | \$301,735                  |
| Shuffleboard Court   | court         | \$2,500                           | 10                   | \$25,000                   |
| Skate/BMX Park   | park          | \$430,000                         | 2                    | \$860,000                  |
| Softball Field   | field         | \$75,000                          | 1                    | \$75,000                   |
| Sports Complex   | complex       | \$775,000                         | 2                    | \$1,550,000                |
| Tennis Court   | court         | \$60,000                          | 2                    | \$120,000                  |
| <b>Facilities and Equipment Value</b>                                |               |                                   |                      | <b>\$18,285,115</b>        |
| <b>Architecture, Engineering, and Inspection @ 10%<sup>(5)</sup></b> |               |                                   |                      | <b>\$1,828,512</b>         |
| <b>Total Facilities and Equipment Value<sup>(6)</sup></b>            |               |                                   |                      | <b>\$20,113,627</b>        |
| <b>Total Number of Acres<sup>(7)</sup></b>                           |               |                                   |                      | <b>394.55</b>              |
| <b>Total Facilities and Equipment Value per Acre<sup>(8)</sup></b>   |               |                                   |                      | <b>\$50,979</b>            |

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

(2) Source: City of North Port insurance reports and recent construction information

(4) Unit value (Item 2) multiplied by unit count (Item 3)

(5) Facilities and equipment value multiplied by 10 percent, based on information from other jurisdictions and discussions with City staff

(6) Sum of the facilities and equipment value and the architecture, engineering and inspection costs (Item 5)

(7) Source: Table V-1

(8) Total facilities and equipment value (Item 6) divided by number of acres (Item 7)



## Land Value

Because of recent fluctuations in land values statewide, a detailed analysis of the land values was conducted. This analysis takes into consideration recent purchase information provided by North Port staff, an analysis of recent sales of vacant land similar in size and location to North Port's parks, and information provided by the Sarasota County Property Appraiser. More specifically, the following analysis was conducted:

- A review of City's park land purchases between 2006 and 2010, which indicated that park land in many areas of the city can be obtained only by assembling residential lots, which tend to be small parcels of 0.25 acres.
- A review of the current value of existing park land base on information included in the Sarasota County Property Appraiser database.
- A review of vacant land sales between 2008 and 2011.
- A review of just market value for each parcel-size group from the Property Appraiser database and a comparison of the results to the sales data.

Based on this analysis and information, a unit cost of \$50,000 per acre was found to be a reasonable estimate.

The cost of land for parks and recreation facilities includes more than just the purchase cost of the land. Landscaping/site improvement and utilities/paving costs also are considered. These costs can vary greatly, depending on the type of services offered at each park. Based on information from other jurisdictions and discussions with City staff, basic landscaping, site preparation, and irrigation costs were determined and are presented in Table V-5.

## Total Impact Cost per Resident

The first section of Table V-5 identifies the total land cost as \$60,000 per acre. The second section of the table shows the total land and facility cost of \$110,979 per acre. The net impact cost per person (third section of the table) presents the resulting total impact cost per functional resident of \$721 per resident.



**Table V-5**  
**Total Impact Cost per Resident**

| Component   | Value            |
|---|------------------|
| Land Purchase Cost per Acre <sup>(1)</sup>                                    | \$50,000         |
| Landscaping, Site Preparation, and Irrigation Costs (per acre) <sup>(2)</sup> | \$10,000         |
| <b>Total Land Cost per Acre<sup>(3)</sup></b>                                 | <b>\$60,000</b>  |
| Facility & Equipment Cost per Acre <sup>(4)</sup>                             | \$50,979         |
| <b>Total Land &amp; Facility Cost per Acre<sup>(5)</sup></b>                  | <b>\$110,979</b> |
| Parks LOS (acres per 1,000 Residents) <sup>(6)</sup>                          | 6.50             |
| <b>Parks and Recreation Total Cost per Resident<sup>(7)</sup></b>             | <b>\$721.36</b>  |

- (1) Based on an evaluation of recent purchases, value of existing park land, vacant land sales and value analysis
- (2) Based on information obtained from other jurisdictions and discussions with the City of North Port staff
- (3) Sum of the land cost per acre (Item 1) and the landscaping, site preparation, and irrigation cost per acre (Item 2)
- (4) Source: Table V-4
- (5) Sum of the total land cost per acre (Item 3) and the facility & equipment cost per acre (Item 4)
- (6) Source: Table V-2
- (7) Total land & facility cost per acre (Item 5) divided by the parks LOS (Item 6)

### Credit Component

To avoid overcharging new development for the capital cost of providing parks and recreation services, a review of the capital financing program for the parks and recreation program was completed. The purpose of this review was to determine any potential revenues generated by new development, other than impact fees, that have been used within the last five years and are programmed to fund over the next five years the expansion of capital facilities, land, and equipment related to North Port's parks and recreation program. Based on this review and discussions with the City staff, it is determined that the funding sources that were used over the past five years are not representatives of the funding sources and levels that will be available over the next five years. As such, the credit calculations are based on the funding sources of the capacity expansion projects included in the CIP, which includes impact fees and sales tax revenues.



## Capital Expansion Expenditures Credit

Capital expenditure credits per resident were calculated based on the non-impact fee revenue expenditures planned for capital expansion projects for 2012 through 2016. To calculate the capital expenditure per resident, the average capital expansion expenditures divided by the average residents for the same period.

Over the next five years, North Port plans to spend a total of \$3.2 millions of sales tax revenue on capital expansion, resulting in an average annual capital expansion expenditure of \$647,000. As presented in Table V-6, the average capital expansion expenditure per resident, based on this five year period, is almost \$10 per resident.

**Table V-6**  
**Capital Expansion Credit per Resident<sup>(1)</sup>**

| Capital Expansion Expenditures  | Fiscal Year |           |           |           |           | Total              |
|---|-------------|-----------|-----------|-----------|-----------|--------------------|
|   | 2012        | 2013      | 2014      | 2015      | 2016      |                    |
| <i>Sales Tax</i>  |             |           |           |           |           |                    |
| Atwater Park  | \$150,000   | \$250,000 | \$250,000 | \$300,000 | \$300,000 | \$1,250,000        |
| Garden of the Five Senses   |             | \$435,000 | \$350,000 | \$200,000 |           | \$985,000          |
| Myakkahatchee Creek Greenway  | \$150,000   | \$200,000 | \$200,000 | \$200,000 |           | \$750,000          |
| Park Land Acquisition   | \$50,000    | \$50,000  | \$50,000  | \$50,000  | \$50,000  | \$250,000          |
| <b>Total Capital Expansion Expenditures</b>                                   |             |           |           |           |           | <b>\$3,235,000</b> |
| Average Annual Capital Expansion Expenditures <sup>(2)</sup>                  |             |           |           |           |           | \$647,000          |
| Average Annual Population <sup>(3)</sup>                                      |             |           |           |           |           | 65,744             |
| <b>Average Annual Capital Expansion Expenditures per Person<sup>(4)</sup></b> |             |           |           |           |           | <b>\$9.84</b>      |

(1) Source: City of North Port Finance Department

(2) Total capital expansion expenditures divided by 5 years

(3) Source: Section II, Table II-1 (2012 through 2016)

(4) Average annual capacity expansion expenditures (Item 2) divided by average annual population (Item 3)

## **Net Parks and Recreation Impact Cost**

The net impact fee per functional resident is the difference between the Cost Component and the Credit Component. Table V-7 summarizes the calculation of the net parks and recreation impact cost per resident of \$550.



**Table V-7**  
**Net Impact Cost per Resident**

| Calculation Step  | Impact Cost |
|---|-------------|
| Impact Cost   |             |
| Total Impact Cost per Resident <sup>(1)</sup>                       | \$721.36    |
| Impact Credit   |             |
| <i>Capital Expansion Expenditure Credit</i>                         |             |
| Average Annual Capital Expansion Credit per Resident <sup>(2)</sup> | (\$9.84)    |
| Capitalization Rate   | 3.0%        |
| Capitalization Period (in years)                                    | 25          |
| Capital Expansion Credit per Resident <sup>(3)</sup>                | (\$171.35)  |
| Net Impact Cost   |             |
| Net Impact Cost per Resident <sup>(4)</sup>                         | \$550.01    |

(1) Source: Table V-5

(2) Source: Table V-6

(3) The present value of the capital improvement credit per functional resident (Item 2) at a discount rate of 3 percent with a capitalization period of 25 years. The capitalization rate is based on the estimated interest rate of an upcoming bond issue as provided by the City Finance Department.

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

### Calculated Parks and Recreation Impact Fee Schedule

An updated parks and recreation impact fee schedule was developed for residential land uses and is illustrated in Table V-8. Table V-8 also presents the difference between the current and calculated fees.



**Table V-8**  
**Calculated Parks and Recreation Impact Fee Schedule**

| Land Use  | Impact Unit | Citywide Residents per Unit <sup>(1)</sup> | Net Cost per Resident <sup>(2)</sup> | Calculated Impact Fee <sup>(3)</sup> | Adopted Impact Fee <sup>(4)</sup> | % Change <sup>(5)</sup> |
|---|-------------|--|--------------------------------------|--------------------------------------|-----------------------------------|-------------------------|
| Single Family Detached                            | du          | 2.39                                       | \$550.01                             | \$1,314.52                           | \$2,040.00                        | -36%                    |
| Multi-family                                      | du          | 1.41                                       | \$550.01                             | \$775.51                             | \$1,432.00                        | -46%                    |
| Mobile Home/RV (Tied Down)                        | du          | 1.17                                       | \$550.01                             | \$643.51                             | \$1,328.00                        | -52%                    |
| Retirement Community/Age-Restricted Single Family | du          | 1.41                                       | \$550.01                             | \$775.51                             | \$2,040.00                        | -62%                    |

(1) Source: Section II, Table II-2

(2) Source: Table V-7

(3) Residents per unit (Item 1) multiplied by the net cost per resident (Item 2)

(4) Source: City of North Port

(5) Percent change from the calculated impact fee compared to the currently adopted fee

### Parks and Recreation Impact Fee Schedule Comparison

As part of the work effort in updating the City of North Port parks and recreation impact fee program, a comparison of parks and recreation impact fee schedules was completed for nearby/similar jurisdictions. Table V-9 presents the comparison of parks and recreation impact fees in North Port and other selected jurisdictions.

**Table V-9**  
**Parks and Recreation Impact Fee Schedule Comparison**

| Land Use      | Impact Fee Unit | City of North Port (Calculated) | City of North Port (Adopted) | Sarasota County | Charlotte County | City of Punta Gorda | City of Lakeland | City of Bradenton |
|---------------|-----------------|---------------------------------|------------------------------|-----------------|------------------|---------------------|------------------|-------------------|
| Single Family | du              | \$1,315                         | \$2,040                      | \$2,348         | \$776            | \$290               | \$2,707          | \$720             |
| Multi-Family  | du              | \$776                           | \$1,432                      | \$2,348         | \$519            | \$290               | \$2,123          | \$540             |
| Mobile Home   | du              | \$644                           | \$1,328                      | \$1,559         | \$549            | \$290               | \$1,317          | \$360             |

Notes:

- Charlotte County and the City of Bradenton implemented a moratorium on the parks and recreation impact fee.





## Smart Growth Application

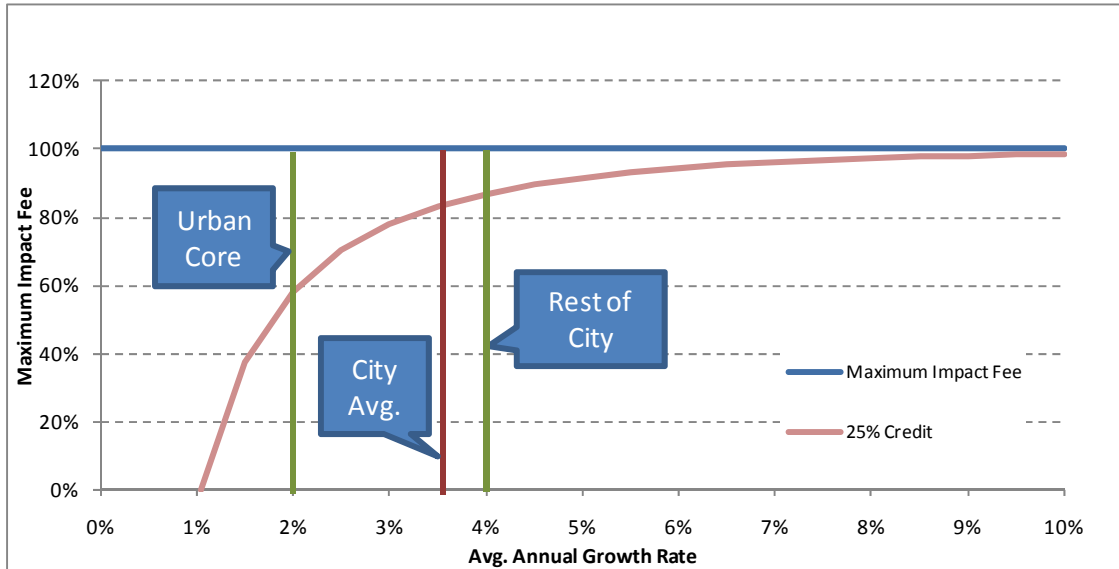
As mentioned previously, the Smart Growth approach takes into consideration revenues received from the existing development that are used toward capacity expansion projects. It calculates what the impact fee level needs to be to maintain the existing/achieved LOS given a certain level of non-impact fee funding and estimated growth rate.

In the case of parks and recreation services, the CIP indicates a contribution of approximately \$647,000 per year from the sales tax. During the next 20 years, the City is expected to grow at an annual rate of 3.5 percent. Figure V-1 presents how impact fee levels would change over time with different growth rates. As shown, the horizontal line represents the maximum legally acceptable level of impact fee. This level is compared investment needed to maintain the current LOS. Although the City has the legal right to charge the maximum amount of parks and recreation impact fee calculated, only 85 percent of this amount is needed to maintain the current/achieved LOS citywide due to non-impact fee contributions from the existing development and lower rate of population growth.

If the City is interested in lower impact fees only in the urban core, which is growing at a slower rate than the entire city, the fees could be adopted at 60 percent in the urban core and a minimum of 87 percent in the rest of the city to maintain the LOS.



**Figure V-1**  
**Parks and Recreation Impact Fee vs. Average Annual Growth Rate**



Similarly, the level of flexibility extends to targeted land uses. In other words, if the City wants to continue to charge an impact fee for certain land uses, such as single family, etc., and eliminate or reduce the impact fee on multi-family development, it has the flexibility to do so. To eliminate impact fees for multi-family land use, the fee for single family homes needs to be adopted at a minimum of approximately 90 percent to maintain the LOS. This is based on the assumption that over the next ten to 20 years, on average, approximately 90 percent of the impact fee revenues will be obtained from single family land use and the remainder from other residential land uses.

Calculations in this study establish the legally maximum level of impact fee that can be charged for parks and recreation services (shown in Table V-8). This section of the report shows the flexibility the City has in terms of either reducing the impact fee levels or sales tax contributions to maintain the current LOS given the relatively low growth rate. As such, impact fee revenues need to cover the remaining amount.

Given this information, the City has the following options:

- Collect the parks and recreation impact fee at 100 percent level and continue to contribute sales tax revenues to improve the existing LOS, which is shown in Figure V-2. As presented, with the current sales tax contribution levels, collection of parks and recreation impact fees at 100 percent level will improve



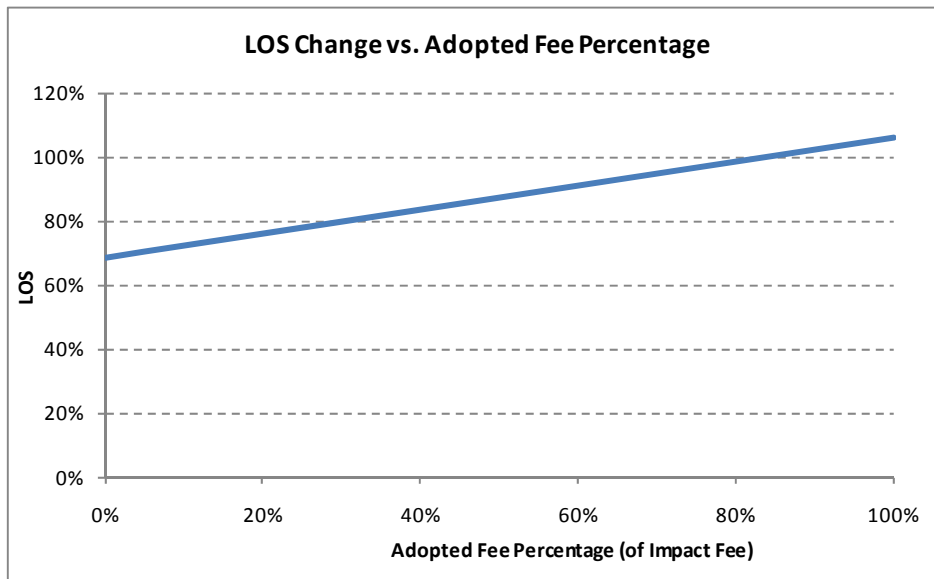
the LOS by approximately five percent when the population doubles, based on the estimated annual growth rate of 3.5 percent.

- Adopt the parks and recreation impact fee with a discount either citywide or in certain areas and/or for targeted land uses. This will enable the City to provide incentives for the targeted development in desired locations.
- Collect the impact fee at 100 percent and allow the sales tax revenues to be used for other infrastructure/projects. This will allow the City to maintain the existing LOS and provide some flexibility with non-impact fee funds.

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**Figure V-2**  
**Parks and Recreation LOS Improvement**

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## VI. General Government Buildings

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Government buildings impact fees are used to fund the capital construction and expansion of government services related to land, facilities and capital equipment required to support the additional government service demand created by growth.

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

- Capital Asset Inventory
- Service Area and Population
- Facility Service Delivery
- Cost Component
- Credit Component
- Net Government Buildings Impact Cost
- Calculated Government Buildings Impact Fee Schedule
- Government Buildings Impact Fee Schedule Comparison
- Smart Growth Application

### Inventory and Value of Capital Assets

The government buildings inventory includes facilities that are primarily for the provision of essential city services and do not include any of the buildings included in the calculation of other impact fees or buildings that were funded with user fees.

According to information provided by the City of North Port, the City has approximately 148,000 square feet of general government building space. This includes the square footage of both primary and support buildings. Support facilities are defined as trailers, facilities without air-conditioning, or facilities that are unlikely to be occupied by personnel.

Table VI-1 shows a summary of the government buildings inventory and the current value of buildings and land. As presented, the inventory includes a total of 124,737 square feet of primary building space and 23,278 square feet of support space.



**Table VI-1  
Government Buildings Inventory<sup>(1)</sup>**

| Facility Description  | Location                            | Square Footage <sup>(2)</sup> | Total Square Footage on Site <sup>(3)</sup> | Total Acres <sup>(4)</sup> | Acres per 1,000 sf of Building Space <sup>(5)</sup> | Adjusted Acres <sup>(6)</sup> | Current Value            |                     |                      |
|---|-------------------------------------|-------------------------------|---|----------------------------|---|-------------------------------|--------------------------|---------------------|----------------------|
|   |                                     |                               |   |                            |   |                               | Buildings <sup>(7)</sup> | Land <sup>(8)</sup> | Total <sup>(9)</sup> |
| <b>Primary Buildings:</b>   |                                     |                               |   |                            |   |                               |                          |                     |                      |
| Planning & Building Department (Art Center)                       | 5950 Sam Shapos Way, North Port     | 4,500                         | 16,752                                      | 14.10                      | 0.84  | 3.78                          | \$787,500                | \$113,400           | \$900,900            |
| Family Services Center  | 6919 Outreach Way, North Port       | 15,599                        | 33,948                                      | 5.10                       | 0.15  | 2.34                          | \$2,729,825              | \$70,200            | \$2,800,025          |
| New City Hall   | 4970 City Hall Blvd., North Port    | 67,138                        | 136,063                                     | 33.49                      | 0.25  | 16.78                         | \$11,749,150             | \$503,400           | \$12,252,550         |
| Fleet Maintenance Facility (under construction)                   | 1890 West Price Blvd., North Port   | <u>37,500</u>                 | 38,060                                      | 9.75                       | 0.26  | 9.60                          | <u>\$6,562,500</u>       | <u>\$288,000</u>    | <u>\$6,850,500</u>   |
| <b>Subtotal -- Primary Buildings</b>                              |                                     | <b>124,737</b>                |   |                            |   | <b>32.50</b>                  | <b>\$21,828,975</b>      | <b>\$975,000</b>    | <b>\$22,803,975</b>  |
| <b>Support Buildings:</b>   |                                     |                               |   |                            |   |                               |                          |                     |                      |
| Public Works Administration                                       | 1850 West Price Blvd., North Port   | 2,426                         | 4,176                                       | 5.07                       | 1.21  | 2.94                          | \$121,300                | \$88,200            | \$209,500            |
| Tool Shed   | 1850 West Price Blvd., North Port   | 168                           |   |                            |   | 0.20                          | \$8,400                  | \$6,000             | \$14,400             |
| Wash Shed   | 1850 West Price Blvd., North Port   | 192                           |   |                            |   | 0.23                          | \$9,600                  | \$6,900             | \$16,500             |
| Chemical Shed   | 1850 West Price Blvd., North Port   | 80                            |   |                            |   | 0.10                          | \$4,000                  | \$3,000             | \$7,000              |
| Storage Shed  | 1850 West Price Blvd., North Port   | 288                           |   |                            |   | 0.35                          | \$14,400                 | \$10,500            | \$24,900             |
| Fleet Garage #1   | 5455 Pan American Blvd., North Port | 5,556                         | 19,564                                      | 2.68                       | 0.14  | 0.78                          | \$277,800                | \$23,400            | \$301,200            |
| Fleet Garage #2   | 5455 Pan American Blvd., North Port | 5,760                         |   |                            |   | 0.81                          | \$288,000                | \$24,300            | \$312,300            |
| Facilities Maintenance  | 5455 Pan American Blvd., North Port | 1,200                         |   |                            |   | 0.17                          | \$60,000                 | \$5,100             | \$65,100             |
| Vehicle Storage   | 5455 Pan American Blvd., North Port | 6,000                         |   |                            |   | 0.84                          | \$300,000                | \$25,200            | \$325,200            |
| Wash Station Storage  | 5455 Pan American Blvd., North Port | 48                            |   |                            |   | 0.01                          | \$2,400                  | \$300               | \$2,700              |
| Tire Shed   | 5455 Pan American Blvd., North Port | 1,000                         |   |                            |   | 0.14                          | \$50,000                 | \$4,200             | \$54,200             |
| Sign Shop   | 1890 West Price Blvd., North Port   | 560                           |   |                            |   | 0.26                          | \$28,000                 | \$4,500             | \$32,500             |
| <b>Subtotal -- Support Buildings</b>                              |                                     | <b>23,278</b>                 |   |                            |   |                               |                          |                     | <b>6.72</b>          |
| <b>Total (All Buildings)</b>                                      |                                     | <b>148,015</b>                | <b>248,563</b>                              | <b>70.19</b>               |   | <b>39.22</b>                  | <b>\$22,992,875</b>      | <b>\$1,176,600</b>  | <b>\$24,169,475</b>  |
| <b>Weighted Average Acreage per 1,000 Square Feet of Building</b> |                                     |                               |   |                            |   | <b>0.265</b>                  |                          |                     |                      |
| Building Value per Square Foot (Primary Buildings)                |                                     |                               |   |                            |   |                               | \$175                    |                     |                      |
| Building Value per Square Foot (Support Buildings)                |                                     |                               |   |                            |   |                               | \$50                     |                     |                      |
| <b>Building Value per Square Foot (Weighted Average)</b>          |                                     |                               |   |                            |   |                               | <b>\$155</b>             |                     |                      |
| Land Value per Acre   |                                     |                               |   |                            |   |                               |                          | \$30,000            |                      |



- (1), (2), (3), (4) Source: City of North Port. (Total square footage and acreage for the Planning & Building Department excludes square footage and acreage associated with Fire Station 82 located on the same parcel).
- (5) Total acres (Item 4) divided by total square footage on site (Item 3) multiplied by 1,000
- (6) Acres per 1,000 sf of building space (Item 5) multiplied by square footage (Item 2) divided by 1,000
- (7) Square footage (Item 2) multiplied by value per square foot (\$175 per square foot for primary buildings and \$50 per square foot for support buildings). The construction cost is determined from the insurance value of existing buildings as well as information from other jurisdictions.
- (8) Adjusted acres (Item 6) multiplied by \$30,000 per acre; Land value per acre is determined through an evaluation of the land values where existing facilities are located as well as vacant land sales and value analysis for similar sized parcels in residential areas.
- (9) Sum of building value (Item 7) and land value (Item 8)



## Service Area, Population and Benefit Districts

The City of North Port provides all residents, workers, and visitors the benefit of government services. As such the service area and associated benefit district are determined to be the entire city.

Because simply using population does not fully address all of the benefactors of the City's government services, the "functional" population approach is used to establish a common unit of demand across different land uses.

As previously mentioned, government buildings provide municipal services to the entire City. Therefore, the current citywide functional population estimate for year 2011 is used, which is provided in Section II, Table II-6.

## Level of Service

Based on the information provided by the City, North Port's 2011 level of service (LOS) is 2.06 square feet of primary government buildings per weighted population. Table VI-2 presents the calculation of the existing LOS.

While the 2011 LOS for all buildings is 2.06 square feet per weighted resident, in order to calculate the government buildings facilities impact fee, the LOS needs to be calculated in term of square feet per functional resident. Table VI-2 also illustrates the calculation of the current achieved LOS using the total functional residents within the city. The current LOS of primary government building space is 2.24 square feet per functional resident.

*The current government buildings level of service is 2.24 square feet of primary building space per functional resident.*



**Table VI-2**  
**Current Level of Service**

| Description  | Figure  |
|--|---------|
| Total Square Feet of Primary Buildings <sup>(1)</sup>    | 124,737 |
| 2011 Weighted Population <sup>(2)</sup>                  | 60,690  |
| LOS (Square Feet per Weighted Resident) <sup>(3)</sup>   | 2.06    |
| 2011 Functional Population <sup>(4)</sup>                | 55,702  |
| LOS (Square Feet per Functional Resident) <sup>(5)</sup> | 2.24    |

(1) Source: Table VI-1

(2) Source: Section II, Table II-4

(3) Total square feet of primary buildings (Item 1) divided by 2011 weighted population (Item 2)

(4) Source: Section II, Table II-6

(5) Total square feet of primary buildings (Item 1) divided by 2011 functional population (Item 4)

### Cost Component

The cost component of the study evaluates the cost of capital items, including buildings and land. The equipment value is excluded to provide a more conservative approach.

Table VI-3 provides a summary of all capital costs, which amounts to \$194 per square foot of government buildings, and \$434 per functional resident.

*The cost of government buildings includes building and land cost.*





**Table VI-3**  
**Total Capital Asset Value**

| Capital Asset Component   | Figure              |
|---|---------------------|
| Total Building Value <sup>(1)</sup>                                     | \$22,992,875        |
| Total Land Value <sup>(2)</sup>   | \$1,176,600         |
| <i>Total Asset Value</i> <sup>(3)</sup>                                 | <i>\$24,169,475</i> |
| Square Footage of Primary Buildings <sup>(4)</sup>                      | 124,737             |
| <b>Total Asset Value per Square Foot</b> <sup>(5)</sup>                 | <b>\$193.76</b>     |
| LOS (Square Feet per Functional Resident) <sup>(6)</sup>                | 2.24                |
| <b>Total Capital Asset Value per Functional Resident</b> <sup>(7)</sup> | <b>\$434.02</b>     |

(1) , (2) , (4) Source: Table VI-1

(3) Sum of total building value (Item 1) and total land value (Item 2)

(5) Total asset value (Item 3) divided by square footage of primary buildings (Item 4)

(6) Source: Table VI-2

(7) Total asset value per square foot (Item 5) multiplied by the LOS (Item 6)

### Credit Component

To avoid overcharging development for the government buildings impact fee, a review of the capital financing program for government buildings was conducted. The purpose of this review was to determine any potential revenue credits that should be considered for revenues generated by new development that could be used for capital facilities and land expansion for government buildings.

It should be noted that the investment in government buildings can be lumpy since it is difficult to building these buildings in small increments. This results in high expenditure levels in certain periods and none in others. To overcome these fluctuations, a review of funding sources for capital projects for a 20-year period, from 2007 thru 2026, was conducted. Based on this review, the primary funding sources for government buildings, other than impact fees, include the general fund, grants, and the special assessment funds. As presented in Table VI-4, the City plans to use an average of \$708,000 per year of non-impact fee funds for capital expansion expenditures.



This annual expenditure of approximately \$708,000 is divided by the average annual functional population over the same period, which results in average annual capital expansion expenditures of \$10 per functional resident. These results are presented in below table VI-4.

**Table VI-4**  
**Capital Expansion Credit per Functional Resident<sup>(1)</sup>**

| Capital Expansion Expenditures                                    | 2007-2016   | 2017-2026   | Total               |
|---|-------------|-------------|---------------------|
| <i>Non-Impact Fee Funding</i>                                     |             |             |                     |
| Family Services Center  | \$2,545,406 |             | \$2,545,406         |
| Fleet Maintenance Facility  | \$7,155,950 |             | \$7,155,950         |
| Government Annex  |             | \$831,000   | \$831,000           |
| Fleet Maintenance Facility Expansion                              |             | \$1,136,000 | \$1,136,000         |
| Public Works Administration                                       |             | \$2,493,000 | \$2,493,000         |
| <b>Total</b>  |             |             | <b>\$14,161,356</b> |
| Average Annual Capacity Expansion Expenditures <sup>(2)</sup>     |             |             | \$708,068           |
| Average Annual Functional Population <sup>(3)</sup>               |             |             | 67,884              |
| <b>Average Annual Capacity Expansion per Person<sup>(4)</sup></b> |             |             | <b>\$10.43</b>      |

(1) Source: City of North Port

(2) Total capital expansion expenditures divided by 20 years

(3) Source: Appendix A, Table A-4

(4) Average annual capacity expansion expenditures (Item 2) divided by average annual functional population (Item 3)

In addition, the City is paying debt service on the bond issue used to fund the City Hall. However, because the debt service will be paid off in 2013 and the funding for the payment is already secured, an additional debt service credit is not calculated.

### Net Government Buildings Impact Cost

The net impact fee per functional resident is the difference between the Cost Component and the Credit Component. Table VI-5 presents the calculation of the net government buildings impact cost per functional resident.



The first section of Table VI-5 identifies the total impact cost as \$434 per functional resident. The second section of the table identifies the capital expansion expenditure credits for the government buildings impact fee.

The net impact cost per person (third section of the table) is the difference between the total impact cost per functional resident of \$434 and the total revenue credit of \$182 per functional resident. The result is a net impact cost of \$252 per functional resident.

**Table VI-5**  
**Net Impact Cost per Functional Resident**

| Cost Component  | Figure          |
|---|-----------------|
| Total Government Buildings Asset Value per Functional Resident <sup>(1)</sup>     | \$434.02        |
| Average Annual Revenue Credit for Capacity Expansion Expenditures <sup>(2)</sup>  | \$10.43         |
| Capitalization Period (in years)  | 25              |
| Capitalization Rate   | 3%              |
| Future Credit per Functional Resident <sup>(3)</sup>                              | \$181.62        |
| <i>Net Government Buildings Asset Value per Functional Resident<sup>(4)</sup></i> | <i>\$252.40</i> |

(1) Source: Table VI-3

(2) Source: Table VI-4

(3) The present value of the capital improvement credit per functional resident (Item 2) at a discount rate of 3.0 percent with a capitalization period of 25 years. The capitalization rate is based on the estimated interest rate for an upcoming bond issue as provided by the City's Finance Department.

(4) Total government buildings asset value per person (Item 1) less future credit (Item 3)

### Calculated Government Buildings Impact Fee Schedule

An updated government buildings impact fee schedule was developed for residential and nonresidential land uses and is illustrated in Table VI-6. Table VI-6 also presents the difference between the current and calculated fees.



**Table VI-6**  
**Calculated Government Buildings Impact Fee Schedule**

| Land Use   | Impact Unit | Functional Population Coefficient <sup>(1)</sup> | Net Impact Cost per Functional Resident <sup>(2)</sup> | Current Fee | Percent Change |
|--|-------------|--|--|-------------|----------------|
| <b>Residential</b>   |             |  |  |             |                |
| Single Family Detached   | du          | 1.75   | \$441.70   | \$54.50     | 710%           |
| Multi-Family   | du          | 1.03   | \$259.97   | \$38.50     | 575%           |
| Mobile Home / RV Park Site   | du          | 0.86   | \$217.06   | \$35.50     | 511%           |
| Retirement Community/Age Restricted Single Family/Senior Adult Housing | du          | 1.03   | \$259.97   | \$54.50     | 377%           |
| <b>Transient, Assisted, Group</b>                                      |             |  |  |             |                |
| Hotel/Motel  | room        | 1.01   | \$254.92   | \$29.00     | 779%           |
| Nursing Home   | bed         | 0.68   | \$171.63   | \$79.00     | 117%           |
| Assisted Living Facility (ALF)/Congregate Care Facility                | du          | 0.86   | \$217.06   | N/A         | N/A            |
| <b>Recreational</b>  |             |  |  |             |                |
| Marina   | berth       | 0.19   | \$47.96  | \$150.50    | -68%           |
| Golf Course  | acre        | 0.15   | \$37.86  | \$150.50    | -75%           |
| Movie Theater with Matinee   | 1,000 sf    | 1.68   | \$424.03   | \$150.50    | 182%           |
| Recreational/Community Center  | 1,000 sf    | 1.42   | \$358.41   | \$150.50    | 138%           |
| <b>Institutions</b>  |             |  |  |             |                |
| Elementary School(K-8)   | 1,000 sf    | 0.63   | \$159.01   | \$79.00     | 101%           |
| High School (9-12)   | 1,000 sf    | 0.56   | \$141.34   | \$79.00     | 79%            |
| University/Junior College with 7,500 or fewer students                 | student     | 0.10   | \$25.24  | N/A         | N/A            |
| University/Junior College with more than 7,500 students                | student     | 0.07   | \$17.67  | N/A         | N/A            |
| Church   | 1,000 sf    | 0.57   | \$143.87   | \$79.00     | 82%            |
| Day Care   | 1,000 sf    | 0.89   | \$224.64   | \$79.00     | 184%           |
| Hospital   | 1,000 sf    | 1.55   | \$391.22   | \$79.00     | 395%           |
| <b>Office and Financial</b>  |             |  |  |             |                |
| Office 50,000 SF or less   | 1,000 sf    | 1.42   | \$358.41   | \$79.00     | 354%           |
| Office 50,001 - 100,000 SF   | 1,000 sf    | 1.21   | \$305.40   | \$79.00     | 287%           |
| Office 100,001 - 200,000 SF  | 1,000 sf    | 1.03   | \$259.97   | \$79.00     | 229%           |
| Office 200,001 - 400,000 SF  | 1,000 sf    | 0.88   | \$222.11   | \$79.00     | 181%           |
| Office greater than 400,000 SF   | 1,000 sf    | 0.80   | \$201.92   | \$79.00     | 156%           |
| Medical Office (1 to 10,000 SF)  | 1,000 sf    | 1.14   | \$287.74   | \$79.00     | 264%           |
| Medical Office (Greater than 10,000 SF)                                | 1,000 sf    | 1.72   | \$434.13   | \$79.00     | 450%           |
| Business Park (Flex space)   | 1,000 sf    | 0.99   | \$249.88   | \$49.50     | 405%           |



**Table VI-6**  
**Calculated Government Buildings Impact Fee Schedule (Continued)**

| Land Use  | Impact Unit | Functional Population Coefficient <sup>(1)</sup> | Net Impact Cost per Functional Resident <sup>(2)</sup> | Current Fee | Percent Change |
|---|-------------|--|--|-------------|----------------|
| <b>Retail, Gross Square Feet</b>                |             |  |  |             |                |
| Building Materials/Lumber                       | 1,000 sf    | 1.21   | \$305.40   | \$150.50    | 103%           |
| Hardware/Paint                                  | 1,000 sf    | 1.15   | \$290.26   | \$150.50    | 93%            |
| Shopping Center 50,000 sfgla or less            | 1,000 sfgla | 2.45   | \$618.38   | \$150.50    | 311%           |
| Shopping Center greater than 50,000 sfgla       | 1,000 sfgla | 2.14   | \$540.14   | \$150.50    | 259%           |
| New and Used Auto Sales                         | 1,000 sf    | 1.55   | \$391.22   | \$150.50    | 160%           |
| Tire Store                                      | 1,000 sf    | 0.99   | \$249.88   | \$150.50    | 66%            |
| Supermarket                                     | 1,000 sf    | 2.05   | \$517.42   | \$150.50    | 244%           |
| Convenience Store with Gas Pumps                | 1,000 sf    | 5.83   | \$1,471.49   | \$150.50    | 878%           |
| Home Improvement Superstore                     | 1,000 sf    | 1.78   | \$449.27   | \$150.50    | 199%           |
| Pharmacy/Drug Store with and without drive thru | 1,000 sf    | 1.93   | \$487.13   | \$150.50    | 224%           |
| Furniture Store                                 | 1,000 sf    | 0.23   | \$58.05  | \$150.50    | -61%           |
| Bank/Savings Drive-in                           | 1,000 sf    | 2.28   | \$575.47   | \$150.50    | 282%           |
| Sit-down Restaurant                             | 1,000 sf    | 6.82   | \$1,721.37   | \$150.50    | 1044%          |
| High-Turnover Restaurant                        | 1,000 sf    | 7.07   | \$1,784.47   | \$150.50    | 1086%          |
| Fast Food Rest w/ Drive-Thru                    | 1,000 sf    | 9.01   | \$2,274.12   | \$150.50    | 1411%          |
| Quick Lube                                      | service bay | 1.16   | \$292.78   | N/A         | N/A            |
| Auto Repair Shop                                | 1,000 sf    | 1.58   | \$398.79   | \$150.50    | 165%           |
| Gasoline/Service Station/Convenience Mart       | fuel pos.   | 1.95   | \$492.18   | N/A         | N/A            |
| Self Service Car Wash                           | service bay | 0.87   | \$219.59   | N/A         | N/A            |
| Convenience/Gasoline/Fast Food Store            | 1,000 sf    | 7.15   | \$1,804.66   | \$150.50    | 1099%          |
| <b>Industrial</b>                               |             |  |  |             |                |
| Light Industrial / Industrial Park              | 1,000 sf    | 0.69   | \$174.16   | \$49.50     | 252%           |
| Heavy Industrial                                | 1,000 sf    | 0.49   | \$123.68   | \$49.50     | 150%           |
| Manufacturing                                   | 1,000 sf    | 0.50   | \$126.20   | \$49.50     | 155%           |
| Warehousing                                     | 1,000 sf    | 0.28   | \$70.67  | \$31.50     | 124%           |
| Mini-Warehouse/Storage                          | 1,000 sf    | 0.07   | \$17.67  | \$31.50     | -44%           |

GLA = Gross Leasable Area

(1) Source: Table II-7 for residential land uses and Table II-8 for nonresidential land uses

(2) Net impact cost from Table VI-5 (\$252.40) multiplied by the functional population coefficient (Item 1)



## Government Buildings Impact Fee Schedule Comparison

As part of the work effort in updating the City of North Port government buildings impact fee program, a comparison of government building impact fee schedules was completed for similar jurisdictions. Table VI-7 presents the comparison of government building impact fees in North Port and other selected jurisdictions.

**Table VI-7**  
**Government Buildings Impact Fee Schedule Comparison**

| Land Use                          | Impact Fee Unit | City of North Port (Calculated) | City of North Port (Adopted) | Sarasota County | Charlotte County | City of Punta Gorda |
|-----------------------------------|-----------------|---------------------------------|------------------------------|-----------------|------------------|---------------------|
| <b>Residential:</b>               |                 |                                 |                              |                 |                  |                     |
| Single Family                     | du              | \$442                           | \$55                         | \$339           | \$437            | \$345               |
| <b>Non-Residential:</b>           |                 |                                 |                              |                 |                  |                     |
| Office (50,000 sf)                | 1,000 sf        | \$358                           | \$79                         | \$177           | \$274            | \$230               |
| General Light Industrial          | 1,000 sf        | \$174                           | \$50                         | \$106           | \$151            | \$130               |
| Fast Food Restaurant w/Drive-Thru | 1,000 sf        | \$2,274                         | \$151                        | \$441           | \$1,703          | \$160               |
| Retail (100,000 sf)               | 1,000 sf        | \$540                           | \$151                        | \$441           | \$422            | \$140               |

**Notes:**

-City of Punta Gorda and Charlotte County implemented a moratorium on the government buildings impact fee.

## Smart Growth Application

As mentioned previously, the Smart Growth approach takes into consideration revenues received from the existing development that are used toward capacity expansion projects. It calculates what the impact fee level needs to be to maintain the existing/achieved LOS given a certain level of non-impact fee funding and estimated growth rate.

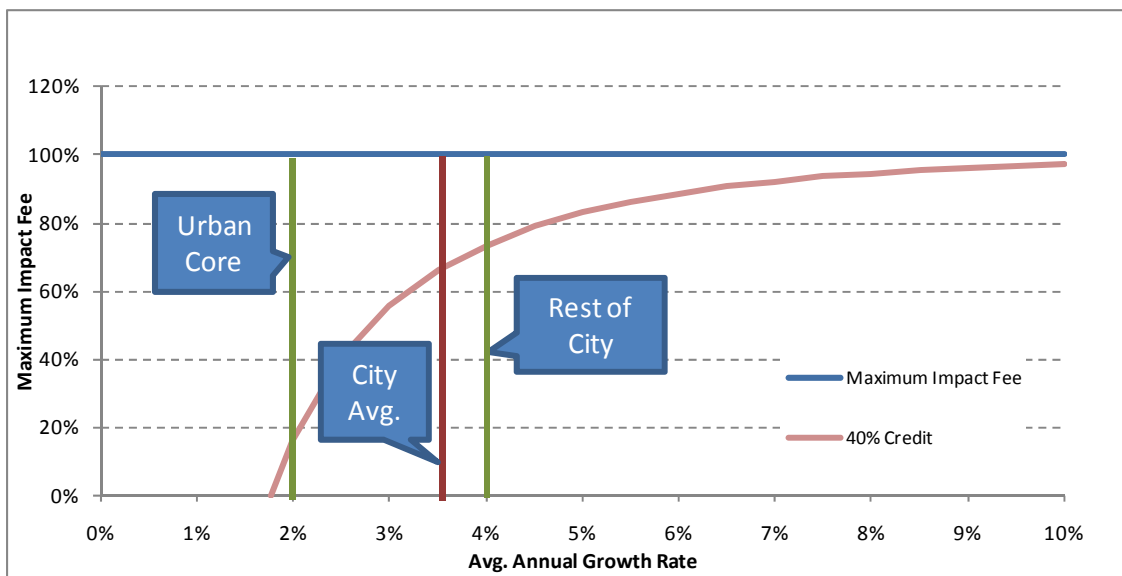
In the case of government buildings, the historical expenditures and CIP indicate a contribution of approximately \$708,000 per year from non-impact fee funds. During the next 20 years, the City is expected to grow at an annual rate of 3.5 percent. Figure VI-1 presents how impact fee levels would change over time with different growth rates. As shown, the horizontal line represents the maximum legally acceptable fee. This level is compared investment needed to maintain the current LOS. Although the City has the legal right to charge the maximum amount of government buildings impact fee



calculated, only 65 percent of this amount is needed to maintain the current/achieved LOS citywide due to non-impact fee contributions from the existing development and low rate of population growth. If the impact fee is adopted at a level less than 65 percent, the LOS for government buildings is likely to deteriorate, and if it is adopted at a level higher than 65 percent, it is likely to improve.

If the City is interested in lower impact fees only in the urban core, which is growing at a slower rate than the entire city, the fee could be adopted at 15 percent (a reduction of 85 percent) as long as a minimum of 75 percent of the maximum impact fee is adopted in the rest of the city to maintain the LOS.

**Figure VI-1  
Government Buildings Impact Fee vs. Average Annual Growth Rate**



Similarly, the level of flexibility extends to targeted land uses. In other words, if the City wants to continue to charge an impact fee for certain land uses, such as single family, etc., and eliminate or reduce the impact fee on other land uses mentioned previously, it has the flexibility to do so. To eliminate impact fees for non-residential land uses, the fee for the residential fees need to be adopted at a minimum of 90 percent, instead of 65 percent to maintain the LOS. This calculation is based on the assumption that over the next ten to 20 years, approximately 75 percent of the impact fee collections will be from residential land uses, with the remainder coming from non-residential land uses.



Calculations shown in this study establish the legally maximum level of impact fee that can be charged for government buildings, and shows the flexibility the City has in terms of either reducing the impact fee levels or sales tax contributions to maintain the current LOS given the relatively low growth rate.

Given this information, the City has the following options:

- Collect the government buildings impact fee at 100 percent level and continue to contribute from other revenue sources to improve the existing LOS, which is shown in Figure VI-2. As presented, with the current non-impact fee contribution levels, collection of government buildings impact fee at 100 percent level will improve the LOS by approximately 10 percent when the population doubles.
- Adopt the government buildings impact fee with a discount either citywide or in certain areas and/or for targeted land uses. This will enable the City to provide incentives for the targeted development in desired locations and still maintain or even improve the LOS.
- Collect the impact fees at 100 percent and allow the sales tax revenues to be used for other infrastructure/projects.

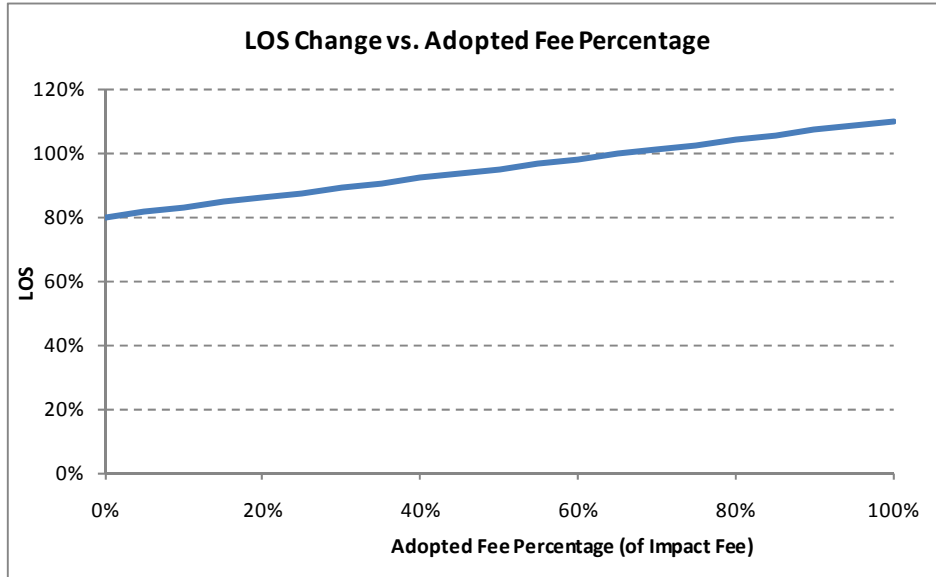




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**Figure VI-2**  
**Government Buildings LOS Improvement**

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## VII. Solid Waste

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The City of North Port Solid Waste Division provides solid waste services to all residents of the city. As such, this analysis will include all solid waste facilities and vehicles located within the municipal boundaries of the City of North Port. This section summarizes the analysis used in the update of the solid waste impact fee schedule and includes the following sections:

- Capital Asset Inventory
- Service Area, Population and Benefit Districts
- Level of Service
- Cost Component
- Credit Component
- Net Solid Waste Impact Cost
- Calculated Solid Waste Impact Fee Schedule
- Solid Waste Impact Fee Schedule Comparison
- Smart Growth Application

These elements are summarized in the remainder of this section, with the result being the updated solid waste impact fee schedule.

### **Inventory and Value of Capital Assets**

In terms of buildings, the Solid Waste Division operates through one solid waste operations center, which is part of the Public Works Administration. Table VII-1 provides the portion of this building and land used for solid waste administration along with the land and building values.



**Table VII-1**  
**Solid Waste Building Inventory<sup>(1)</sup>**

| Facility Description          | Location                           | Square Footage <sup>(2)</sup> | Total Square Footage on Site <sup>(3)</sup> | Total Acres <sup>(4)</sup> | Acres per 1,000 sf of Building Space <sup>(5)</sup> | Adjusted Acres <sup>(6)</sup> | Current Value            |                              |                      |
|-------------------------------|------------------------------------|-------------------------------|---|----------------------------|---|-------------------------------|--------------------------|------------------------------|----------------------|
|                               |                                    |                               |   |                            |   |                               | Buildings <sup>(7)</sup> | Adjusted Land <sup>(8)</sup> | Total <sup>(9)</sup> |
| Public Works Administration   | 1850 W. Price Blvd, North Port, FL | 1,022                         | 4,176                                       | 5.07                       | 1.21  | 1.24                          | \$51,100                 | \$37,200                     | \$88,300             |
| Building Cost per Square Foot |                                    |                               |   |                            |   |                               | \$50                     |                              |                      |
| Land Value per Acre           |                                    |                               |   |                            |   |                               |                          | \$30,000                     |                      |

(1), (2), (3), (4) Source: City of North Port Solid Waste Division and Planning & Zoning Department

(5) Total acres (Item 4) divided by total square footage on site (Item 3)

(6) The acreage for the building on the parcel is apportioned by the ratio of building square footage to the total square feet of all buildings on the parcel; Square footage (Item 2) multiplied by the acres per 1,000 sf of building space (Item 5) divided by 1,000

(7) Square footage (Item 2) multiplied by \$50 cost per square foot, which is based on the insurance value of the building. This figure is consistent with cost figures observed in other jurisdictions for similar buildings.

(8) Adjusted acres (Item 6) multiplied by the land value per acre of \$30,000; Land value based on a review of vacant land values and value of existing parcels.

(9) Sum of building and land values (Items 7 and 8)

The City of North Port has not recently constructed any new solid waste facilities. Based on the insurance values and costs observed in other jurisdictions, a current value of \$50 per square foot is used for the operations center.

Similarly, land values are based on the value of existing parcels as well as vacant land values of similarly sized parcels.

In addition to land and buildings, the City's Solid Waste Division owns the necessary vehicles to provide solid waste disposal services to city residents. As presented, the Solid Waste Division has 37 vehicles with a total value of \$8.6 million, and additional equipment valued at \$215,000.

**Table VII-2**  
**Solid Waste Vehicle and Equipment Inventory**

| Description  | Units <sup>(1)</sup> | Unit Cost <sup>(2)</sup> | Total Value <sup>(3)</sup> |
|--|----------------------|--------------------------|----------------------------|
| <b>Vehicles</b>  |                      |                          |                            |
| Garbage Truck -- Sideload                              | 5                    | \$281,143                | \$1,405,715                |
| Garbage Truck -- Frontload                             | 9                    | \$265,329                | \$2,387,961                |
| Garbage Truck -- Rearload                              | 3                    | \$227,590                | \$682,770                  |
| Recycling Truck  | 11                   | \$288,780                | \$3,176,580                |
| Claw Truck   | 2                    | \$200,443                | \$400,886                  |
| Roll Off Truck   | 2                    | \$185,287                | \$370,574                  |
| Pickup Truck -- Ford F150 4x4                          | 2                    | \$18,768                 | \$37,536                   |
| Pickup Truck with Lift Gate                            | 2                    | \$47,373                 | \$94,746                   |
| Pickup Truck -- Freightliner KPAC                      | 1                    | \$74,470                 | \$74,470                   |
| <b>Subtotal -- Vehicles</b>                            | <b>37</b>            |                          | <b>\$8,631,238</b>         |
| <b>Equipment</b>                                       |                      |                          |                            |
| Power Washer   | 1                    | \$2,204                  | \$2,204                    |
| Garbage -- Curotto Can                                 | 10                   | \$21,150                 | \$211,500                  |
| <b>Subtotal -- Equipment</b>                           | <b>11</b>            |                          | <b>\$213,704</b>           |
| <b>Total Vehicle and Equipment Value<sup>(4)</sup></b> |                      |                          | <b>\$8,844,942</b>         |

(1), (2) Source: City of North Port Solid Waste Division

(3) Current value per item (Item 1) multiplied by the number of units (Item 2)

(4) Sum of the vehicles total value and equipment value



## Level of Service

Based on the information provided by the City, the current level of service (LOS) for solid waste in the City of North Port is 0.49 tons of debris per person, per year. This LOS includes 0.38 tons of garbage per person, per year, as well as 0.03 tons of yard waste debris per person, per year and 0.08 tons of recycling per person, per year.

*The current solid waste level of service is 0.49 tons per person per year.*

Table VII-3 shows the calculation of the current achieved LOS, which is based on the current LOS calculated for garbage, yard waste, and recycling.

**Table VII-3  
Level of Service**

| Description                     | Population <sup>(1)</sup> | Annual Solid Waste Generation <sup>(2)</sup> (tons) | Level of Service <sup>(3)</sup> (tons/person/year) |
|---------------------------------|---------------------------|---|--|
| 2011 Weighted Population        | 60,690                    |   |  |
| Garbage                         |                           | 23,096  | 0.38   |
| Yard Waste                      |                           | 1,534   | 0.03   |
| Recycling                       |                           | 4,730   | 0.08   |
| 2011 Current LOS <sup>(4)</sup> |                           |   | 0.49   |

(1) Source: Section II, Table II-1

(2) Source: City of North Port Solid Waste Division

(3) Annual solid waste generation in tons (Item 2) divided by population (Item 1) for each class of debris

(4) Sum of the level of service for garbage, yard waste, and recycling

## Cost Component

Table VII-4 summarizes the capital value for land, buildings, and vehicles for solid waste disposal services. As previously mentioned, the City's Solid Waste Division operates from one main building with a total cost of \$8.9 million, including buildings, land and vehicles. In addition, the following table presents the total impact cost per resident for solid waste disposal service in the City of North Port, which is calculated by dividing the total cost for all Solid Waste Division assets by the annual tonnage of all debris types and multiplying that figure by the City's current LOS (tons of debris/person/year). The



resulting total impact cost for solid waste disposal services in the City of North Port is \$149 per resident.

**Table VII-4  
Total Impact Cost per Resident**

| Capital Asset Component   | Figure             |
|---|--------------------|
| Total Building Value <sup>(1)</sup>                               | \$51,100           |
| Total Land Value <sup>(2)</sup>                                   | \$37,200           |
| Total Vehicle and Equipment Value <sup>(3)</sup>                  | <u>\$8,844,942</u> |
| <i>Total Asset Value<sup>(4)</sup></i>                            | <i>\$8,933,242</i> |
| Debris (Tons per Year) <sup>(5)</sup>                             | 29,360             |
| <i>Asset Value per Ton of Solid Waste Debris<sup>(6)</sup></i>    | <i>\$304.27</i>    |
| Current Level of Service (Tons/Person/Year) <sup>(7)</sup>        | 0.49               |
| <b>Total Solid Waste Generation Cost per Person<sup>(8)</sup></b> | <b>\$149.09</b>    |

(1) & (2) Source: Table VII-1

(3) Source: Table VII-2

(4) Sum of total building value (Item 1), total land value (Item 2), and total vehicle and equipment value (Item 3)

(5) & (7) Source: Table VII-3

(6) Total asset value (Item 4) divided by tons of debris per year (Item 5)

(8) Asset value per ton of solid waste debris (Item 6) multiplied by the LOS (Item 7)

### Credit Component

Based on discussions with the City's Finance Department and Solid Waste Division, it is our understanding that the City is planning to fund all future capacity expansion for solid waste collection services with impact fee revenues. As such, a revenue credit is not necessary.

### Net Solid Waste Impact Cost

To determine the solid waste impact cost per household, the residential percentage of the net solid waste generation cost per resident must be determined. According to the City's Solid Waste Department, 84 percent of the solid waste generation is from the residential development, while the remaining 16 percent is from nonresidential development. Therefore, the net solid waste generation cost by resident is adjusted



to account only for the portion of waste generated by residential development. The resulting residential solid waste generation cost per resident is multiplied by the residents per housing unit for the single family land use. Table VII-5 presents the calculation of the net solid waste impact cost of \$149 per resident and \$299 per household.

**Table VII-5**  
**Net Impact Cost per Household**

| Cost Component   | Figure          |
|--|-----------------|
| Total Solid Waste Services Asset Value per Person <sup>(1)</sup>                 | \$149.09        |
| Average Annual Revenue Credit for Capacity Expansion Expenditures <sup>(2)</sup> | \$0.00          |
| <i>Net Solid Waste Services Asset Value per Person<sup>(3)</sup></i>             | <i>\$149.09</i> |
| Percent Residential <sup>(4)</sup>   | 84%             |
| Residential Solid Waste Services Value per Person <sup>(5)</sup>                 | \$125.24        |
| Persons per Single Family Housing Unit <sup>(6)</sup>                            | 2.39            |
| <b>Net Solid Waste Cost per Household<sup>(7)</sup></b>                          | <b>\$299.32</b> |

(1) Source: Table VII-4

(2) No credit is applied

(3) Asset value per person (Item 1) less the average annual revenue credit (Item 2)

(4) Source: City of North Port Solid Waste Division

(5) Net solid waste services asset value per person (Item 3) multiplied by the percent residential (Item 4)

(6) Source: Section II, Table II-2

(7) Residential solid waste services value per person (Item 5) multiplied by the persons per single family housing unit (Item 6)

### Calculated Solid Waste Impact Fee Schedule

Table VII-6 presents the calculated solid waste impact fee schedule developed for both the residential and nonresidential land uses, based on the net impact cost per household presented in Table VII-5.

For the City of North Port, the amount of residential waste is 0.42 tons per resident, per year. This is calculated by multiplying the current LOS of 0.49 tons per person per year by the percent of waste attributed to residential development, which is 84 percent of all waste. To calculate the demand component, measured in waste generation units



(WGU) for the residential land uses, the 0.42 tons per resident per year figure is then multiplied by the persons per household for each respective residential land use, which are presented in Section II, Table II-2.

The nonresidential percentage of solid waste collection (16 percent) is applied to net asset value and distributed over the existing non-residential square footage to determine cost per 1,000 square feet. This unit cost is distributed among the land uses based on the ratio of the waste generation level of each land use to the average of the all non-residential land waste generation.

For the nonresidential land uses, the City of North Port did not have local information on the amount of waste generated by nonresidential land use type that would be suitable to use for the demand component of the impact fee schedule. Therefore, the demand component used to develop the City's solid waste schedule is based on data derived from a study calculating commercial generation by various commercial land use types, prepared for the Solid Waste Authority of Palm Beach County. Additional information to calculate the demand component for the nonresidential land uses is derived from the Indian River County Comprehensive Plan Solid Waste Sub-Element, Schedule of Solid Waste Generation Units.





**Table VII-6  
Calculated Solid Waste Impact Fee Schedule**

| Land Use   | Impact Unit | WGU  | Net Impact Cost | Current Fee | Percent Change |
|--|-------------|------|-----------------|-------------|----------------|
| <b>Residential</b>   |             |      |                 |             |                |
| Single Family Detached   | du          | 0.98 | \$299.32        | \$17.50     | 1610%          |
| Multi-Family   | du          | 0.58 | \$177.15        | \$12.00     | 1376%          |
| Mobile Home / RV Park Site   | du          | 0.48 | \$146.53        | \$11.50     | 1174%          |
| Retirement Community/Age-Restricted Single Family/Senior Adult Housing | du          | 0.58 | \$177.15        | \$17.50     | 912%           |
| <b>Transient, Assisted, Group</b>                                      |             |      |                 |             |                |
| Hotel/Motel  | room        | 0.68 | \$58.40         | N/A         | N/A            |
| Nursing Home   | 1,000 sf    | 0.98 | \$84.17         | N/A         | N/A            |
| Assisted Living Facility (ALF)/Congregate Care Facility                | 1,000 sf    | 0.98 | \$84.17         | N/A         | N/A            |
| <b>Recreational</b>  |             |      |                 |             |                |
| Marina   | 1,000 sf    | 2.50 | \$214.72        | N/A         | N/A            |
| Golf Course  | 1,000 sf    | 2.50 | \$214.72        | N/A         | N/A            |
| Movie Theater with Matinee   | 1,000 sf    | 3.84 | \$329.82        | N/A         | N/A            |
| Recreational/Community Center  | 1,000 sf    | 2.21 | \$189.82        | N/A         | N/A            |
| <b>Institutions</b>  |             |      |                 |             |                |
| Elementary School (K-8)  | 1,000 sf    | 3.48 | \$298.90        | N/A         | N/A            |
| High School (9-12)   | 1,000 sf    | 3.48 | \$298.90        | N/A         | N/A            |
| University/Junior College with 7,500 or fewer students                 | 1,000 sf    | 3.48 | \$298.90        | N/A         | N/A            |
| University/Junior College with more than 7,500 students                | 1,000 sf    | 3.48 | \$298.90        | N/A         | N/A            |
| Church   | 1,000 sf    | 0.47 | \$40.37         | N/A         | N/A            |
| Day Care   | 1,000 sf    | 2.55 | \$219.02        | N/A         | N/A            |
| Hospital   | 1,000 sf    | 0.99 | \$85.03         | N/A         | N/A            |
| <b>Office and Financial</b>  |             |      |                 |             |                |
| Office 50,000 SF or less   | 1,000 sf    | 1.14 | \$97.91         | N/A         | N/A            |
| Office 50,001 - 100,000 SF   | 1,000 sf    | 1.14 | \$97.91         | N/A         | N/A            |
| Office 100,001 - 200,000 SF  | 1,000 sf    | 1.14 | \$97.91         | N/A         | N/A            |
| Office 200,001 - 400,000 SF  | 1,000 sf    | 1.14 | \$97.91         | N/A         | N/A            |
| Office greater than 400,000 SF   | 1,000 sf    | 1.14 | \$97.91         | N/A         | N/A            |
| Medical Office (1 to 10,000 SF)  | 1,000 sf    | 1.35 | \$115.95        | N/A         | N/A            |
| Medical Office (Greater than 10,000 SF)                                | 1,000 sf    | 1.35 | \$115.95        | N/A         | N/A            |
| Business Park (Flex Space)   | 1,000 sf    | 1.14 | \$97.91         | N/A         | N/A            |



**Table VII-6**  
**Calculated Solid Waste Impact Fee Schedule (Continued)**

| Land Use                                       | Impact Unit | WGU   | Net Impact Cost | Current Fee | Percent Change |
|--|-------------|-------|-----------------|-------------|----------------|
| <b>Retail, Gross Square Feet</b>               |             |       |                 |             |                |
| Building Materials/Lumber                      | 1,000 sf    | 0.78  | \$66.99         | N/A         | N/A            |
| Hardware/Paint                                 | 1,000 sf    | 3.39  | \$291.17        | N/A         | N/A            |
| Retail 50,000 SF or less                       | 1,000 sfgla | 2.42  | \$207.85        | N/A         | N/A            |
| Retail greater than 50,000 SF                  | 1,000 sfgla | 2.42  | \$207.85        | N/A         | N/A            |
| New and Used Auto Sales                        | 1,000 sf    | 1.75  | \$150.31        | N/A         | N/A            |
| Tire Store                                     | 1,000 sf    | 3.06  | \$262.82        | N/A         | N/A            |
| Supermarket                                    | 1,000 sf    | 7.42  | \$637.30        | N/A         | N/A            |
| Convenience Store with Gas Pumps               | 1,000 sf    | 9.68  | \$831.41        | N/A         | N/A            |
| Home Improvement Superstore                    | 1,000 sf    | 0.78  | \$66.99         | N/A         | N/A            |
| Pharmacy/Drug Store with or without drive thru | 1,000 sf    | 3.39  | \$291.17        | N/A         | N/A            |
| Furniture Store                                | 1,000 sf    | 3.39  | \$291.17        | N/A         | N/A            |
| Bank/Savings Drive-in                          | 1,000 sf    | 1.49  | \$127.98        | N/A         | N/A            |
| Sit-down Restaurant                            | 1,000 sf    | 11.60 | \$996.32        | N/A         | N/A            |
| High-Turnover Restaurant                       | 1,000 sf    | 11.60 | \$996.32        | N/A         | N/A            |
| Fast Food Rest w/ Drive-Thru                   | 1,000 sf    | 18.16 | \$1,559.75      | N/A         | N/A            |
| Quick Lube                                     | service bay | 1.38  | \$118.53        | N/A         | N/A            |
| Auto Repair Shop                               | 1,000 sf    | 3.06  | \$262.82        | N/A         | N/A            |
| Gas/Service Station                            | fuel pos.   | 0.61  | \$52.39         | N/A         | N/A            |
| Gasoline/Service Station/Conv. Mart            | fuel pos.   | 9.68  | \$831.41        | N/A         | N/A            |
| Self-Service Car Wash                          | service bay | 1.62  | \$139.14        | N/A         | N/A            |
| Convenience/Gasoline/Fast Food Store           | 1,000 sf    | 9.68  | \$831.41        | N/A         | N/A            |
| <b>Industrial</b>                              |             |       |                 |             |                |
| Light Industrial/Industrial Park               | 1,000 sf    | 2.08  | \$178.65        | N/A         | N/A            |
| Heavy Industrial                               | 1,000 sf    | 0.68  | \$58.40         | N/A         | N/A            |
| Manufacturing                                  | 1,000 sf    | 2.08  | \$178.65        | N/A         | N/A            |
| Warehousing                                    | 1,000 sf    | 2.36  | \$202.70        | N/A         | N/A            |
| Mini-Warehouse/Storage                         | 1,000 sf    | 0.83  | \$71.29         | N/A         | N/A            |



## Solid Waste Impact Fee Schedule Comparison

As part of the work effort in implementing the City of North Port solid waste impact fee program, a comparison of solid waste impact fee schedules was completed for select jurisdictions. It should be noted that solid waste impact fees are not as commonly implemented as some of the other program areas. As such, Table VII-7 presents the comparison of solid waste impact fees in several jurisdictions that implemented a solid waste impact fee.

**Table VII-7**  
**Solid Waste Impact Fee Schedule Comparison**

| Land Use                          | Impact Fee Unit | City of North Port (Calculated) | City of North Port (Adopted) | City of Fort Pierce <sup>(1)</sup> | Brevard County | Indian River County <sup>(3)</sup> |
|-----------------------------------|-----------------|---------------------------------|------------------------------|------------------------------------|----------------|------------------------------------|
| <b>Residential:</b>               |                 |                                 |                              |                                    |                |                                    |
| Single Family                     | du              | \$299                           | \$18                         | \$136                              | \$160          | \$82                               |
| <b>Non-Residential:</b>           |                 |                                 |                              |                                    |                |                                    |
| Office (50,000 sf)                | 1,000 sf        | \$98                            | N/A                          | \$87                               | (2)            | \$16                               |
| General Light Industrial          | 1,000 sf        | \$179                           | N/A                          | \$159                              | (2)            | \$41                               |
| Fast Food Restaurant w/Drive-Thru | 1,000 sf        | \$1,560                         | N/A                          | \$1,387                            | (2)            | \$106                              |
| Retail (100,000 sf)               | 1,000 sf        | \$208                           | N/A                          | \$185                              | (2)            | \$41                               |

- (1) The City of Fort Pierce is currently charging 60% of total calculated fee.
- (2) For Brevard County, solid waste fees for nonresidential land uses are determined through a comparison of the solid waste generation of three existing structures similar to the proposed development. For example, the solid waste fee for a new bank with drive-thru would be determined by reviewing the solid waste generated from three existing similar bank sites. As such, a comparison is not available because the nonresidential solid waste fee is dependent on the specific structure and is not a flat fee per unit by land use type.
- (3) Indian River County impact fees are currently on moratorium.

## Smart Growth Application

As mentioned previously, the Smart Growth approach takes into consideration revenues received from the existing development that are used toward capacity expansion projects. It calculates what the impact fee level needs to be to maintain the existing/achieved LOS given a certain level of non-impact fee funding and estimated growth rate.



In the case of solid waste facilities and equipment, the City expects to fund all capacity expansion projects with impact fee revenues. In other words, no other revenue sources are available to fund additional capacity. As such, if the City does not adopt the solid waste impact fees at the maximum amount calculated in this study, the LOS for solid waste facilities and service is likely to deteriorate over time.



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## VIII. Transportation

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This section of the report includes the transportation impact fee. The study methodology is documented in the following sections of this technical report:

- Service Area and Benefit Districts
- Demand Component
- Cost Component
- Credit Component
- Calculated Transportation Impact Fee Schedule
- Smart Growth Credit Application

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

$$[\text{Demand} \times \text{Cost}] - \text{Credit} = \text{Fee}$$

The demand for travel placed on the transportation system is expressed in units of vehicle miles of travel (daily trip generation rate times the trip length times the percent new trips (of total trips)) for each land use contained in the impact fee schedule. It should be noted that trip generation is expressed in average daily rates since new development consumes trips on a daily basis. 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 future non-impact fee revenues generated by new development that are allocated to roadway 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 the future tax revenues generated by the development.

It should be noted that the information used to develop the impact fee schedule was based upon the most recent, reliable and localized data available.

There are 10 input variables use in the fee equation:



*Demand Variables:*

- Trip generation rate
- Trip length
- Percent new trips
- Interstate adjustment 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 sections.

## **Service Area and Benefit Districts**

The City provides transportation facilities throughout citywide. Given the relatively small geographic area and lack of major manmade or natural barriers, it is appropriate to continue to keep a single benefit district for transportation impact fees.

## **Demand Component**

### **Travel Demand**

The amount of road system consumed by a unit of new land development is calculated using the following variables and is a measure of the vehicle miles of new travel that a unit of development places on the existing road system:

- Number of daily trips generated;



- Length of those trips; and
- Proportion of travel that is new travel, rather than travel that is already traveling on the road system.

As part of this update, the trip characteristic variables were obtained primarily from two sources: (1) similar studies previously conducted throughout Florida (Florida Studies Database), and (2) the Institute of Transportation Engineers' (ITE) *Trip Generation* reference report (8<sup>th</sup> edition).

The Florida Trip Characteristics Studies Database (included in Appendix E) was used to determine vehicle miles of travel which is developed from trip rate, trip length, and percent new trips for most land uses. In addition, trip generation rate data from the ITE 8<sup>th</sup> edition report was also used. In all instances where trip generation rate data was available from both the ITE reference report and the Florida Studies Database, a blend calculation was used to increase the sample size.

### Interstate Adjustment Factor

This variable is used to recognize that interstate highway improvements are funded by the State using earmarked State and Federal funds. Typically, impact fees are not used to pay for these improvements and the portion of travel generated by new development in the City of North Port occurring on the interstate system was eliminated from the total travel calculated for each use. Currently, I-75 is the only interstate running through the City of North Port.

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**Table VIII-1**  
**Interstate Adjustment Factor**

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| Facility         | 2007 Model<br>VMT |
|------------------|-------------------|
| Interstate 75    | 184,341           |
| Other Roads      | 487,983           |
| All Roads        | 672,324           |
| % Travel on I-75 | 27.4%             |

Note: Excludes external-to-external travel



## **Cost Component**

### **Recent Cost Trends**

This section provides a framework for evaluating the recent changes in right-of-way (ROW) and construction costs for city, county, and state roadways in the City of North Port and Sarasota County, as well as the entire state of Florida. The cost trends will show the need for updating these costs in the transportation impact fee equation to ensure that new development is being charged at a rate that reflects current market costs for the consumption of roadway assets.

Construction costs increased significantly in Florida and in Sarasota County 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) cost over the last several years. In early 2008, costs started to stabilize, and recently, many communities have experienced a decrease in costs. Information from the City of North Port, Sarasota County, roadway cost information from other counties in Florida, and data from the Florida Department of Transportation (FDOT) was used to develop a unit cost for all phases involved in the construction of one lane mile of roadway capacity. The following subsections summarize the methodology and findings of the total unit cost analysis for city, county, and state roads. Appendix B provides the data and other support information utilized in these analyses.

### **City Roadway Costs**

This section examines the ROW, construction, and other cost components associated with city roads with respect to transportation capacity improvements in the City of North Port. For this purpose, recent bid data for ongoing projects provided by the city was used to identify and provide supporting cost data for city improvements. The cost for each roadway capacity project was separated into four phases: ROW, construction, design, and construction engineering/inspection (CEI).

Based on a review of recently completed projects in the City of North Port, Sarasota County, and other counties in Florida, design costs were estimated at 10 percent of





construction costs, and CEI costs were estimated at 9 percent of construction costs for city roadways.

### *Right-of-Way*

The ROW cost reflects the total cost of acquisitions along the 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. ROW cost estimates were developed based on cost data received for three local projects along Sumter Blvd (Ph. II, from US 41 to Heron Creek Blvd and Ph. III, from Heron Creek Blvd to City Center Blvd) and Price Blvd (Biscayne Dr to Orlando Blvd). Based on a review of these local projects, a ROW cost of \$320,000 per lane mile was used for city roads, as shown in Table VIII-2. See Appendix B, Table B-1 for additional project detail.

### *Construction*

A review of recent and upcoming construction cost data for the City of North Port showed that the City has recently completed two urban design lane addition projects and has three improvements on the horizon. Construction cost estimates were developed based on cost figures and estimates for these five projects (along Sumter Blvd, Toledo Blade Blvd, and Price Blvd). Based on a review of these local projects, a construction cost of \$2.4 million per lane mile was used for city roads, as shown in Table VIII-2. Appendix B, Table B-3 provides additional project detail. This cost reflects the fact that the construction cost for city roads in North Port is higher than most communities due to unique landscaping, lighting, and infrastructure amenities included in the roadway design.

In addition to unique amenities, city roads typically include some form of bridge structure to accommodate the canals and waterways located throughout the City. Based on bridge costs observed for sections of the Sumter Blvd, Toledo Blade Blvd, and Price Blvd improvements, a bridge cost factor of 25 percent (applied to the base construction cost) was added to the total cost of improving a city road, increasing the construction cost to \$3.0 million per lane mile. Appendix B, Table B-4 provides further detail on this calculation.

As shown in Table VIII-2, the total estimated cost for a city road is approximately \$3.89 million per lane mile.



**Table VIII-2**  
**Estimated Cost per Lane Mile by City Project Phase**

| Cost Phase                  | Cost Per Lane Mile |
|-----------------------------|--------------------|
| Design <sup>(1)</sup>       | \$300,000          |
| Right-of-Way <sup>(2)</sup> | \$320,000          |
| Construction <sup>(3)</sup> | \$3,000,000        |
| CEI <sup>(4)</sup>          | \$270,000          |
| <b>Total Cost</b>           | <b>\$3,890,000</b> |

- (1) Design is estimated at 10 percent of construction costs
- (2) Source: Appendix B, Table B-1
- (3) Source: Appendix B, Table B-3
- (4) CEI is estimated at 9 percent of construction costs

**County Roadway Costs**

This section examines the ROW, construction, design, and construction engineering/inspection (CEI) costs associated with county roads with respect to transportation capacity improvements in the City of North Port and Sarasota County. For this purpose, recent bid data for ongoing and future projects provided by Sarasota 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 expansion projects was separated into four phases: ROW, construction, design, and construction engineering & inspection (CEI).

Based on a review of recently completed projects in Sarasota County, and other counties in Florida, design costs were estimated at 10 percent of construction costs, and CEI costs were estimated at 9 percent of construction costs for county roadways.

*Right-of-Way*

ROW cost estimates for county roads were developed based on cost data received for 10 local projects that were recently completed. The ROW costs ranged from approximately \$240,000 to \$1.07 million per lane mile for these projects, with a weighted average cost of \$620,000 per lane mile. Based on a review of these local



projects, a ROW cost of \$620,000 per lane mile was used for county roads. Appendix B, Table B-2 provides additional project detail.

### *Construction*

A review of recent and upcoming construction cost data for Sarasota County showed that the County has recently completed 13 urban design lane addition projects and has recently bid three capacity expansion improvements. These 16 improvements have a weighted average cost of approximately \$3.27 million per lane mile. It should be noted that the majority of the local projects were completed prior to 2008, when construction costs were peaking prior to the economic recession. A review of recent projects let between 2008 and 2011 in other Florida counties identified 22 urban design projects ranging from approximately \$0.71 million to \$3.51 million per lane mile, with a weighted average cost of approximately \$1.79 million per lane mile. Based on these sets of data, it was determined that Sarasota's construction costs are higher than the state average, and that the most recent bid project along North Cattlemen Road (from Richardson Rd to Desoto Blvd) represents the typical cost of a County roadway at this time. Based on a review of these local projects and statewide projects, a construction cost of \$2.40 million per lane mile was used for county roads, as shown in Table VIII-3. Appendix B, Tables B-5 and B-6 provide additional project detail.

As shown in Table VIII-3, the total estimated cost for a county road is approximately \$3.48 million per lane mile.



**Table VIII-3**  
**Estimated Cost per Lane Mile by County Project Phase**

| Cost Phase                  | Cost Per Lane Mile |
|-----------------------------|--------------------|
| Design <sup>(1)</sup>       | \$240,000          |
| Right-of-Way <sup>(2)</sup> | \$620,000          |
| Construction <sup>(3)</sup> | \$2,400,000        |
| CEI <sup>(4)</sup>          | \$216,000          |
| <b>Total Cost</b>           | <b>\$3,476,000</b> |

- (1) Design is estimated at 10 percent of construction costs
- (2) Source: Appendix B, Table B-2
- (3) Source: Appendix B, Tables B-5 and B-6
- (4) CEI is estimated at 9 percent of construction costs

**State Roadway Costs**

This section examines the ROW, construction, design, and construction engineering/inspection (CEI) costs associated with state roads with respect to transportation capacity improvements in the City of North Port and Sarasota County. For this purpose, recent construction bid data from state projects throughout Florida were used to identify and provide supporting cost data for state roadway improvements. The cost for each roadway capacity expansion projects was separated into four phases: ROW, construction, design, and construction engineering & inspection (CEI).

Based on a review of recent completed projects in North Port, Sarasota County, and other counties in Florida, design costs were estimated at 10 percent of construction costs, and CEI costs were estimated at 9 percent of construction costs for state roadways.

*Right-of-Way*

ROW cost estimates for state roads were developed based on the relationship of ROW to construction cost data observed in recent transportation impact fee studies. Since no ROW cost data was available for state projects, ROW was estimated at 40 percent of the construction cost of a capacity expansion project on state roads. This



factor is consistent with the average ROW to construction ratio used in recent transportation impact fee studies throughout Florida. Therefore, a ROW cost of \$800,000 per lane mile was used for state roads.

*Construction*

A review of recent projects let between 2008 and 2011 in Sarasota and other Florida counties identified 28 urban design projects ranging from approximately \$1.20 million to \$4.95 million per lane mile, with a weighted average cost of approximately \$2.22 million per lane mile. Only one project from the list, US 301 from Wood St to Myrtle Ave, is located in Sarasota and has a cost of \$3.53 per lane mile. However, when looking at all projects in FDOT District 1, the weighted average cost is \$1.82 million per lane mile, which is considerably lower than the state average. Weighing the fact that the lone Sarasota project was above the state average and District 1 was below the average, a conservative estimate of \$2.0 million per lane mile was used in the impact fee calculation for state roads, as shown in Table VIII-4. Appendix B, Table B-7 provides additional project detail.

As shown in Table VIII-4, the total estimated cost for a state road is approximately \$3.18 million per lane mile.

**Table VIII-4  
Estimated Cost per Lane Mile by State Project Phase**

| Cost Phase                  | Cost Per Lane Mile |
|-----------------------------|--------------------|
| Design <sup>(1)</sup>       | \$200,000          |
| Right-of-Way <sup>(2)</sup> | \$800,000          |
| Construction <sup>(3)</sup> | \$2,000,000        |
| CEI <sup>(4)</sup>          | \$180,000          |
| <b>Total Cost</b>           | <b>\$3,180,000</b> |

- (1) Design is estimated at 10 percent of construction costs
- (2) ROW is estimated at 40 percent of construction costs
- (3) Source: Appendix B, Table B-7
- (4) CEI is estimated at 9 percent of construction costs



### Summary of Costs (Blended Cost Analysis)

The weighted average cost per lane mile for city, county, and state roads is calculated and presented in Table VIII-5. The resulting weighted average cost of approximately \$3.52 million per lane mile was utilized in the calculation of the impact fee schedule. This weighted average cost per lane mile includes city, county and state projects and is based on weighting the lane miles of programmed future roadway improvements included in the Sarasota County 2035 Long Range Transportation Plan (LRTP) Needs Plan. As noted previously, the project information and methodology used in these calculations are included in Appendix B.

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**Table VIII-5**  
**Estimated Cost per Lane Mile for City, County, and State Roadway Projects**  
**in the City of North Port**

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| Cost Type                             | City Roads <sup>(1)</sup> | County Roads <sup>(2)</sup> | State Roads <sup>(3)</sup> | City, County, and State Roads <sup>(4)</sup> |
|---------------------------------------|---------------------------|-----------------------------|----------------------------|--|
| Design                                | \$300,000                 | \$240,000                   | \$200,000                  | \$247,200                                    |
| Right-of-Way                          | \$320,000                 | \$620,000                   | \$800,000                  | \$579,200                                    |
| Construction                          | \$3,000,000               | \$2,400,000                 | \$2,000,000                | \$2,472,000                                  |
| CEI                                   | \$270,000                 | \$216,000                   | \$180,000                  | \$222,480                                    |
| <b>Total</b>                          | <b>\$3,890,000</b>        | <b>\$3,476,000</b>          | <b>\$3,180,000</b>         | <b>\$3,520,880</b>                           |
| Lane Mile Distribution <sup>(5)</sup> | 28%                       | 48%                         | 24%                        | 100%   |

(1) Source: Table VIII-2

(2) Source: Table VIII-3

(3) Source: Table VIII-4

(4) Lane mile distribution (Item 5) multiplied by design, ROW, construction, and CEI costs by jurisdiction to develop a weighted average cost per lane mile.

(5) Source: Appendix B, Table B-8

### Capacity Added per Lane Mile

An additional component of the impact fee equation is the capacity added per lane mile (also known as maximum service volume added per lane mile) of roadway constructed. An analysis of the Sarasota County 2035 LRTP Needs Plan projects (see Appendix B, Table B-8 for the list of projects) was conducted to reflect the mix of improvements that will yield the vehicle miles of capacity (VMC) that will be built in Sarasota County. The



resulting weighted average capacity per lane mile calculated based on these projects is 8,633.

**Table VIII-6**  
**Weighted Average Capacity per Lane Mile**

| Source   | Lane Miles Added <sup>(1)</sup> | Vehicle Miles of Capacity Added <sup>(2)</sup> | VMC Added per Lane Mile <sup>(3)</sup> |
|--|---------------------------------|--|--|
| City Roads                                     | 25.36                           | 205,416  | 8,100                                  |
| County Roads                                   | 43.44                           | 388,172  | 8,936                                  |
| State Roads                                    | 22.14                           | 191,517  | 8,650                                  |
| Total  | 90.94                           | 785,105  |  |
| Weighted Average Capacity Added <sup>(4)</sup> |                                 |  | 8,633                                  |

(1) Source: Appendix B, Table B-8

(2) Source: Appendix B, Table B-8

(3) Vehicle miles of capacity added (Item 2) divided by lane miles added (Item 1)

(4) Total vehicle miles of capacity added for city, 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 VIII-5 and VIII-6, the cost and capacity for city, county, and state roads have been calculated based on typical roadway improvements. In order to estimate the weighted average cost per vehicle mile of capacity, the cost per VMC for city, county, and state roads was weighted by the lane mile distribution of projects in the Sarasota County 2035 LRTP Needs Plan. As shown in Table VIII-7, the cost per vehicle mile of capacity for travel on all roads within the City of North Port and Sarasota County is \$407.84. This weighted average cost per vehicle mile of capacity figure was 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, over \$407 of roadway capacity is consumed.



**Table VIII-7**  
**Weighted Average Cost per Vehicle Mile of Capacity Added for City,  
 County, and State Roadways in the City of North Port**

| Source                  | Cost per Lane<br>Mile <sup>(1)</sup> | Average Capacity<br>Added Per Lane<br>Mile <sup>(2)</sup> | Cost per<br>VMC <sup>(3)</sup> |
|-------------------------|--------------------------------------|---|--------------------------------|
| City Roads              | \$3,890,000                          | 8,100   | \$480.25                       |
| County Roads            | \$3,476,000                          | 8,936   | \$388.99                       |
| State Roads             | \$3,180,000                          | 8,650   | \$367.63                       |
| <b>Weighted Average</b> | <b>\$3,520,880</b>                   | <b>8,633</b>  | <b>\$407.84</b>                |

(1) Source: Table VIII-5

(2) Source: Table VIII-6

(3) Cost per lane mile (Item 1) divided by average capacity per lane mile (Item 2) for city, county, and state roads respectively.

## Credit Component

### Gasoline Tax Equivalent Credit

The present value of the portion of gasoline taxes generated by a new development over a 25-year period that is expended on capacity expansion projects is credited against the cost of the system consumed by travel associated with new development. Since gas tax revenues are generated on a county-wide basis, all roadway capacity expansion expenditures on county and state roads in Sarasota County were also used to calculate the gas tax equivalent credit.

#### *City*

A review of the City's historical roadway financing program (FY 2006-2010) and the FY 2011-2015 Capital Improvement Plan (CIP) shows that roadway capacity expansion projects are being funded by a combination of impact fees, gas tax, sales tax, transportation regional improvement program (TRIP) funds, tree replacement funds, ARRA funds, and grant funds. As shown in Table VIII-8, the City receives 0.6 pennies of credit for gas tax equivalent expenditures on roadway capacity expansion projects funded with recurring revenue sources other than impact fees.





## *County*

A review of Sarasota County's historical roadway financing program (FY 2006-2010) and the FY 2011-2015 CIP shows that all roadway projects are being funded by a combination of impact fees, ad valorem taxes, gas tax, sales tax, and grant funds. Sarasota County receives a credit of 5.6 pennies for the portion of ad valorem tax, gas tax, sales tax, and grant fund revenues dedicated to capacity expansion projects in the past five years and in the 5-year work program. The County also receives 8.2 pennies for debt service payments on the 2005B and 2006 CST bonds, the 2005 ELMS bond and the 2008A and 2008B surtax bonds. Based on discussion with County staff, all bond proceeds were expended on roadway capacity expansion projects. Thus, a credit of 13.8 equivalent pennies will be given for the allocation of funds the county collects in ad valorem tax, gas tax, sales tax, and grant revenues, and for debt service expenditures.

## *State*

In addition, state expenditures on state roads were reviewed and a credit for the capacity expansion portion attributable to state projects was provided. The equivalent number of pennies allocated to fund state projects was determined using information for a 15-year period of the Florida Department of Transportation (FDOT) Work Program (2002 through 2016). 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. Major roadway expansion projects along US 41, US 301, Cattlemen Rd, and Dearborn St were included in this list as well as the major intersection improvements at University Parkway and US 301. This review (which is summarized in Appendix C, Table C-5) indicates that FDOT spending generates an equivalent gas tax credit of 11.0 pennies of gas tax revenue annually. The use of a 15-year period for purposes of developing a state credit for roadway capacity-adding projects results in a conservative credit for Sarasota County. Compared to recent impact fee studies throughout Florida, Sarasota County is in line with the average state contribution of 11.8 pennies (state contributions have ranged from approximately 7.7 pennies to 20.4 pennies). The state gas tax credit is also reflected in Table VIII-8.

In summary, the City of North Port contributes approximately 0.6 pennies and the County contributes approximately 13.8 pennies toward roadway capacity expansion projects, while state spending is equivalent to an average of 11.0 pennies for state roadway projects in Sarasota County. Therefore, a total of 25.4 pennies of credit is included in the



impact fee equation to recognize the future capital revenue that is expected to be generated by new development from all non-impact fee revenues. Non-impact fee revenues from different funding sources have been converted to equivalent gas tax pennies for purposes of estimating the revenue credit per unit of development.

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**Table VIII-8**  
**Equivalent Pennies of Gas Tax Revenue**

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| Credit                             | Equivalent Pennies per Gallon |
|------------------------------------|-------------------------------|
| City Revenues <sup>(1)</sup>       | \$0.006                       |
| County Revenues <sup>(2)</sup>     | \$0.056                       |
| County Debt Service <sup>(3)</sup> | \$0.082                       |
| State Revenues <sup>(4)</sup>      | \$0.110                       |
| <b>Total</b>                       | <b>\$0.254</b>                |

(1) Source: Appendix C, Table C-2

(2) Source: Appendix C, Table C-3

(3) Source: Appendix C, Table C-4

(4) Source: Appendix C, Table C-5

### Present Worth Variables

#### *Facility Life*

The roadway facility life used in the impact fee analysis is 25 years, which represents the reasonable life of the 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 provided by the City's Finance Department based on upcoming bond issues.



## 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 C, Table C-14, 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.

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

The methodology utilizes 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 utilized 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 appropriately accounts for 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 2009 (includes 2011 updates)*. Based on the calculation completed in Appendix C, Table C-14, the fuel efficiency rate to be used in the updated impact fee equation is 18.19 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" element, 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 D. This Appendix 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, this Appendix illustrates the impact fee demand component variables (trip rate, trip length, and percent of new trips), the total impact fee cost, the annual gas tax credit and present value of the gas tax credit, the net impact fee, the current City of North Port impact fee, and the percent difference between the calculated impact fee and the current impact fee. It should be noted that the net impact fee illustrated in Appendix D is not necessarily a recommended fee, but instead represents the most reasonable and legally defensible impact fee per unit of land use that could be charged in The City of North Port. As discussed throughout the report, the impact fee analysis has been completed using a conservative approach to develop the impact fee per unit of land use.

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

$$\text{Net Impact Fee} = \text{Total Impact Cost} - \text{Gas Tax Credit}$$

Where:

$$\text{Total Impact Cost} = ((\text{Trip Rate} \times \text{Assessable Trip Length} \times \% \text{ New Trips}) / 2) \times (1 - \text{Interstate Adj. Factor}) \times (\text{Cost per Lane Mile} / \text{Avg. Capacity Added per Lane Mile})$$

$$\text{Gas Tax Credit} = \text{Present Value (Annual Gas Tax), given 3.00\% interest rate \& 25-year facility life}$$

$$\text{Annual Gas Tax} = (((\text{Trip Rate} \times \text{Total Trip Length} \times \% \text{ New Trips}) / 2) \times \text{Effective Days per Year} \times \$/\text{Gallon to Capital}) / \text{Fuel Efficiency}$$

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 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 recommended 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 among land use codes since every trip has an origin and a destination.
- *Interstate Adjustment Factor* = discount factor to account for the travel demand occurring on interstate highways and/or toll facilities (27.4%)
- *Cost per Lane Mile* = unit cost to construct one lane mile of roadway, in \$/lane-mile (\$3,520,880)
- *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 (8,633)
- *Present Value* = calculation of the present value of a uniform series of cash flows, gas tax payments in this case, given an interest rate, “i,” and a number of periods, “n,” for 3.00% interest and a 25-year facility life, the uniform series present worth factor is 17.4131
- *Effective Days per Year* = 365 days
- *\$/Gallon to Capital* = the amount of gas tax revenue per gallon of fuel that is used for capital improvements, in \$/gallon (\$0.254)
- *Fuel Efficiency* = average fuel efficiency of vehicles, in vehicle-miles/gallon (18.19)

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

$$\text{Total Impact Cost} = ((7.81 * 6.62 * 1.0) / 2) * (1 - 0.274) * (\$3,520,880 / 8,633) = \$7,654$$
$$\text{Annual Gas Tax} = (((7.81 * 7.12 * 1.0) / 2) * 365 * \$0.254) / 18.19 = \$142$$



Gas Tax Credit =  $\$142 * 17.4131 = \$2,473$

Net Impact Fee (Total) =  $\$7,654 - \$2,473 = \$5,181$

Net Impact Fee (City's Portion) =  $\$5,181 - \$643.95 = \mathbf{\$4,537}$

The complete fee schedule by land use is included in Appendix D, Table D-1.

### Transportation Impact Fee Comparison

As part of the work effort in developing the City of North Port transportation impact fee program, a comparison of calculated fees to transportation impact fee schedules adopted in other jurisdictions was completed. Table VIII-9 presents the comparison of transportation impact fees in the surrounding jurisdictions.



**Table VIII-9  
Transportation Impact Fee Comparison**

| Land Use                             | Unit <sup>(1)</sup> | City of North Port<br>(Calculated) <sup>(2)</sup> | City of North Port<br>(Adopted) <sup>(3)</sup> | Sarasota<br>County <sup>(4)</sup> | Charlotte<br>County <sup>(5)</sup> | City of<br>Punta<br>Gorda <sup>(6)</sup> | City of<br>Lakeland <sup>(7)</sup> | City of<br>Bradenton <sup>(8)</sup> |
|--------------------------------------|---------------------|---|--|-----------------------------------|------------------------------------|--|------------------------------------|-------------------------------------|
| <i>Residential:</i>                  |                     |   |  |                                   |                                    |  |                                    |                                     |
| Single Family Detached (2,000 sq ft) | du                  | \$4,537   | \$2,341  | \$2,887                           | \$1,832                            | \$1,523                                  | \$4,895                            | \$2,374                             |
| <i>Non-Residential:</i>              |                     |   |  |                                   |                                    |  |                                    |                                     |
| Office (50,000 sf)                   | 1,000 sf            | \$6,953   | \$2,883  | \$3,004                           | \$615                              | \$1,180                                  | \$5,310                            | \$1,824                             |
| General Light Industrial             | 1,000 sf            | \$2,925   | \$1,901  | \$1,986                           | \$1,182                            | \$520                                    | \$675                              | \$816                               |
| Fast Food Rest. w/Drive-Thru         | 1,000 sf            | \$57,438  | \$14,729                                       | \$13,621                          | \$3,763                            | \$3,680                                  | \$65,096                           | \$4,709                             |
| Shopping Center (100,000 sf)         | 1,000 sf            | \$6,869   | \$4,858  | \$5,659                           | \$2,287                            | \$3,080                                  | \$6,754                            | \$3,785                             |

(1) Du = dwelling unit

(2) Source: Appendix D, Table D-1, exclude the portion retained by Sarasota County

(3) Source: City of North Port Planning Department, excludes the portion retained by Sarasota County

(4) Source: Sarasota County Planning and Development Services

(5) Source: Charlotte County Building and Growth Management Division

(6) Source: City of Punta Gorda Growth Management Division

(7) Source: City of Lakeland Community Development Department

(8) Source: City of Bradenton Department of Planning and Community Development



## Smart Growth Application

As mentioned previously, the Smart Growth approach takes into consideration revenues received from the existing development that are used toward capacity expansion projects. It calculates what the impact fee level needs to be to maintain the existing/achieved LOS given a certain level of non-impact fee funding and estimated growth rate.

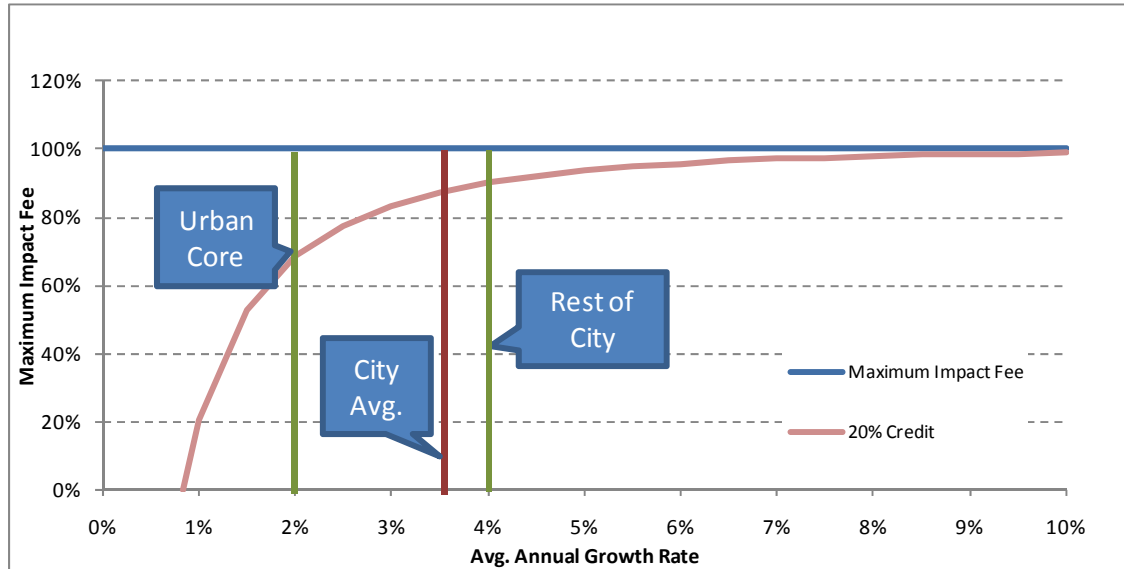
In the case of transportation, the City's historical expenditures and CIP indicate a contribution of approximately \$1 million per year from non-impact fee funds. In addition, the County and State contribute an average of \$25 million per year for roadway capacity expansion in Sarasota County. During the next 20 years, the City is expected to grow at an annual rate of 3.5 percent. Figure VIII-1 presents how impact fee levels would change over time with different growth rates. As shown, the horizontal line represents the maximum legally acceptable fee. This level is compared investment needed to maintain the current LOS. Although the City has the legal right to charge the maximum amount of transportation impact fee calculated, only approximately 85 percent of this amount is needed to maintain the current/achieved LOS citywide due to non-impact fee contributions from the existing development and low rate of population growth. If the impact fee is adopted at a level less than 85 percent, the LOS for transportation capital facilities is likely to deteriorate, and if it is adopted at a level higher than 85 percent, it is likely to improve.

If the City is interested in lower impact fees only in the urban core, which is growing at a slower rate than the entire city, the fee could be adopted at 70 percent in the urban core as long as a minimum of 90 percent of the maximum impact fee is adopted in the rest of the city to maintain the LOS.





**Figure VIII-1**  
**Transportation Impact Fee vs. Average Annual Growth Rate**



Similarly, the level of flexibility extends to targeted land uses. In other words, if the City wants to continue to charge an impact fee for certain land uses, such as single family, etc., and eliminate or reduce the impact fee on other land uses mentioned previously, it has the flexibility to do so. If the fee is adopted at 100 percent for residential land uses, the City will be able to reduce the fee by 45 percent for non-residential land uses and still maintain the LOS. This calculation is based on the assumption that over the next ten to 20 years, approximately 75 percent of the impact fee collections will be from residential land uses, with the remainder coming from non-residential land uses.

Calculations shown in this study establish the legally maximum level of impact fee that can be charged for transportation, and shows the flexibility the City has in terms of either reducing the impact fee levels or sales tax contributions to maintain the current LOS given the relatively low growth rate.

Given this information, the City has the following options:

- Collect the transportation impact fee at 100 percent level and continue to contribute from other revenue sources to improve the existing LOS, which is shown in Figure VIII-2. As presented, with the current non-impact fee contribution levels, collection of transportation impact fee at 100 percent level



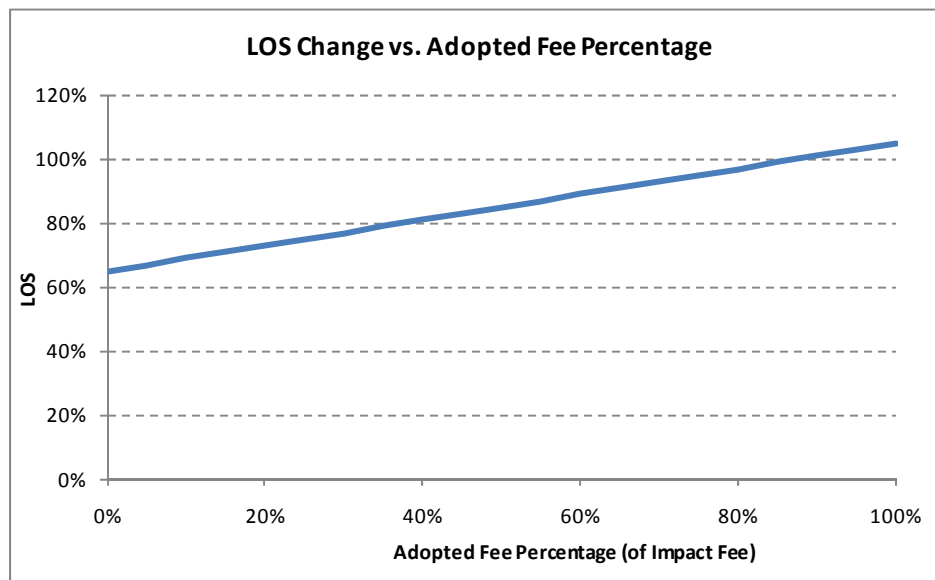
will improve the LOS by approximately 5 percent when the population doubles.

- Adopt the transportation impact fee with a discount either citywide or in certain areas and/or for targeted land uses. This will enable the City to provide incentives for the targeted development in desired locations and still maintain or even improve the LOS.
- Collect the impact fee at 100 percent and allow the other revenue sources to be used for other infrastructure/projects. This will allow the City to maintain the existing LOS.

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**Figure VIII-2**  
**Transportation LOS Improvement**

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## IX. Summary of Calculated Fees

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Table IX-1 presents a summary comparison of the calculated fees and the fees currently being charged by the City. In addition, the table also presents potential reductions to the maximum calculated fee levels that would be in line with the City's economic development and planning goals and still maintain the existing LOS. Three scenarios included in the table (citywide reduction, fee elimination or reduction in the urban core, and fee elimination or reduction for non-residential land uses) are independent of each other, and represent the minimum adoption percentage necessary to maintain the existing LOS. The City has the legal right to adopt the fees at the maximum level (Item 2 in the Table) or at any level below that.



**Table IX-1  
Summary of Calculated Fees**

| Fee Area  | Single Family Residential | Office (50,000 sf) | General Light Industrial | Fast Food Restaurant w/Drive-Thru | Retail (100,000 sf) | Adoption Percentage |
|---|---------------------------|--------------------|--------------------------|-----------------------------------|---------------------|---------------------|
| <b>Fire Rescue:</b>                                     |                           |                    |                          |                                   |                     |                     |
| Adopted <sup>(1)</sup>                                  | \$240.00                  | \$387.50           | \$238.50                 | \$672.00                          | \$672.00            |                     |
| Calculated <sup>(2)</sup>                               | \$486.03                  | \$394.38           | \$191.63                 | \$2,502.35                        | \$594.34            |                     |
| Minimum Adoption Level -- Citywide <sup>(3)</sup>       | \$403.40                  | \$327.34           | \$159.05                 | \$2,076.95                        | \$493.30            | 83%                 |
| With Urban Core Fee Reduction: <sup>(4)</sup>           |                           |                    |                          |                                   |                     |                     |
| - Urban Core  | \$281.90                  | \$228.74           | \$111.15                 | \$1,451.36                        | \$344.72            | 58%                 |
| - Rest of the City                                      | \$422.85                  | \$343.11           | \$166.72                 | \$2,177.04                        | \$517.08            | 87%                 |
| With Non-Residential Fee Reduction (60%) <sup>(5)</sup> | \$486.03                  | \$157.75           | \$76.65                  | \$1,000.94                        | \$237.74            | 100%                |
| <b>Law Enforcement:</b>                                 |                           |                    |                          |                                   |                     |                     |
| Adopted <sup>(1)</sup>                                  | \$81.00                   | \$130.00           | \$81.00                  | \$226.00                          | \$226.00            |                     |
| Calculated <sup>(2)</sup>                               | \$389.00                  | \$315.00           | \$153.00                 | \$2,001.00                        | \$475.00            |                     |
| <b>Parks and Recreation:</b>                            |                           |                    |                          |                                   |                     |                     |
| Adopted <sup>(1)</sup>                                  | \$2,040.00                | -                  | -                        | -                                 | -                   |                     |
| Calculated <sup>(2)</sup>                               | \$1,315.00                | -                  | -                        | -                                 | -                   |                     |
| Minimum Adoption Level -- Citywide <sup>(3)</sup>       | \$1,091.45                |                    |                          |                                   |                     | 83%                 |
| With Urban Core Fee Reduction: <sup>(4)</sup>           |                           |                    |                          |                                   |                     |                     |
| - Urban Core  | \$762.70                  |                    |                          |                                   |                     | 58%                 |
| - Rest of the City                                      | \$1,144.05                |                    |                          |                                   |                     | 87%                 |
| With Non-Residential Fee Elimination <sup>(5)</sup>     | \$1,209.80                |                    |                          |                                   |                     | 92%                 |
| <b>Government Buildings:</b>                            |                           |                    |                          |                                   |                     |                     |
| Adopted <sup>(1)</sup>                                  | \$54.50                   | \$79.00            | \$49.50                  | \$150.50                          | \$150.50            |                     |
| Calculated <sup>(2)</sup>                               | \$441.70                  | \$358.41           | \$174.16                 | \$2,274.12                        | \$540.14            |                     |
| Minimum Adoption Level -- Citywide <sup>(3)</sup>       | \$291.52                  | \$236.55           | \$114.95                 | \$1,500.92                        | \$356.49            | 66%                 |
| With Urban Core Fee Reduction: <sup>(4)</sup>           |                           |                    |                          |                                   |                     |                     |
| - Urban Core  | \$70.67                   | \$57.35            | \$27.87                  | \$363.86                          | \$86.42             | 16%                 |
| - Rest of the City                                      | \$326.86                  | \$265.22           | \$128.88                 | \$1,682.85                        | \$399.70            | 74%                 |
| With Non-Residential Fee Elimination <sup>(5)</sup>     | \$388.70                  | \$0.00             | \$0.00                   | \$0.00                            | \$0.00              | 88%                 |
| <b>Solid Waste:</b>                                     |                           |                    |                          |                                   |                     |                     |
| Adopted <sup>(1)</sup>                                  | \$17.50                   | -                  | -                        | -                                 | -                   |                     |
| Calculated <sup>(2)</sup>                               | \$299.32                  | \$97.91            | \$178.65                 | \$1,559.75                        | \$207.85            |                     |
| <b>Transportation:</b>                                  |                           |                    |                          |                                   |                     |                     |
| Adopted <sup>(1)</sup>                                  | \$2,341.00                | \$2,883.00         | \$1,901.00               | \$14,729.00                       | \$4,858.00          |                     |
| Calculated <sup>(2)</sup>                               | \$4,537.00                | \$6,953.00         | \$2,925.00               | \$57,438.00                       | \$6,869.00          |                     |
| Minimum Adoption Level -- Citywide <sup>(3)</sup>       | \$3,947.19                | \$6,049.11         | \$2,544.75               | \$49,971.06                       | \$5,976.03          | 87%                 |
| With Urban Core Fee Reduction: <sup>(4)</sup>           |                           |                    |                          |                                   |                     |                     |
| - Urban Core  | \$3,130.53                | \$4,797.57         | \$2,018.25               | \$39,632.22                       | \$4,739.61          | 69%                 |
| - Rest of the City                                      | \$4,083.30                | \$6,257.70         | \$2,632.50               | \$51,694.20                       | \$6,182.10          | 90%                 |
| With Non-Residential Reduction (45%) <sup>(5)</sup>     | \$4,537.00                | \$3,824.15         | \$1,608.75               | \$31,590.90                       | \$3,777.95          | 100%                |
| <b>All Fees:</b>  |                           |                    |                          |                                   |                     |                     |
| Adopted <sup>(1)</sup>                                  | \$4,774.00                | \$3,479.50         | \$2,270.00               | \$15,777.50                       | \$5,906.50          |                     |
| Calculated <sup>(2)</sup>                               | \$7,468.05                | \$8,118.70         | \$3,622.44               | \$65,775.22                       | \$8,686.33          |                     |
| Minimum Adoption Level -- Citywide <sup>(3)</sup>       | \$6,421.88                | \$7,025.91         | \$3,150.40               | \$57,109.68                       | \$7,508.67          |                     |
| With Urban Core Fee Reduction <sup>(4)</sup>            |                           |                    |                          |                                   |                     |                     |
| - Urban Core  | \$4,934.12                | \$5,496.57         | \$2,488.92               | \$45,008.19                       | \$5,853.60          |                     |
| - Rest of the City                                      | \$6,665.38                | \$7,278.94         | \$3,259.75               | \$59,114.84                       | \$7,781.73          |                     |
| With Maximum Non-Residential Discount <sup>(5)</sup>    | \$7,309.85                | \$4,394.81         | \$2,017.05               | \$36,152.59                       | \$4,698.54          |                     |



- (1) Source: The City of North Port Impact Fee Schedule
- (2) Source: Respective impact fee service areas, Sections III through VIII
- (3) Represents the minimum adoption level citywide to maintain the existing LOS in each program area
- (4) Represents the minimum adoption level to reduce impact fees in the urban core area and still maintain the existing LOS
- (5) Represents the minimum adoption level to eliminate or reduce impact fees for non-residential land uses and still maintain the existing LOS



## **APPENDIX A**

### **Supplemental Population Data**

**Table A-1**  
**City of North Port Permanent Population Projections<sup>(1)</sup>**

| Year   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2000   | 2001   | 2002   | 2003   | 2004   | 2005   | 2006   | 2007   | 2008   | 2009   | 2010   | 2011   | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | 2018   | 2019   | 2020   |
| 22,797 | 25,234 | 27,448 | 31,352 | 35,721 | 41,000 | 47,770 | 53,732 | 56,316 | 55,759 | 57,357 | 58,837 | 60,355 | 61,912 | 63,509 | 65,132 | 67,776 | 70,528 | 73,391 | 76,371 | 79,468 |

(1) Source: City of North Port Planning & Zoning Department

**Table A-2**  
**City of North Port Seasonal Population Projections**  
**(Seasonal Occasional, and Recreational Land Use Types)<sup>(1)</sup>**

| Year  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 2000  | 2001  | 2002  | 2003  | 2004  | 2005  | 2006  | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  | 2019  | 2020  |
| 1,713 | 1,893 | 2,059 | 2,351 | 2,679 | 3,075 | 3,583 | 4,030 | 4,224 | 4,182 | 4,302 | 4,413 | 4,527 | 4,643 | 4,763 | 4,885 | 5,083 | 5,290 | 5,504 | 5,728 | 5,960 |

(1) Seasonal population calculated by multiplying the number of seasonal units in 2000 by the weighted average persons per residential unit from 2000 Census. The permanent residents for subsequent years is calculated by applying ratio of seasonal to permanent residents for 2000 (7.5%) to the permanent population.



**Table A-3**  
**City of North Port Weighted Average Population Projections**

| Seasonal Land Use Type                            | Year          |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |
|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
|   | 2000          | 2001          | 2002          | 2003          | 2004          | 2005          | 2006          | 2007          | 2008          | 2009          | 2010          | 2011          | 2012          | 2013          | 2014          | 2015          | 2016          | 2017          | 2018          | 2019          | 2020          |
| Permanent Residents <sup>(1)</sup>                | 22,797        | 25,234        | 27,448        | 31,352        | 35,721        | 41,000        | 47,770        | 53,732        | 56,316        | 55,759        | 57,357        | 58,837        | 60,355        | 61,912        | 63,509        | 65,132        | 67,776        | 70,528        | 73,391        | 76,371        | 79,468        |
| Seasonal, Occasional, Recreational <sup>(2)</sup> | 719           | 795           | 865           | 987           | 1,125         | 1,292         | 1,505         | 1,693         | 1,774         | 1,756         | 1,807         | 1,853         | 1,901         | 1,950         | 2,000         | 2,052         | 2,135         | 2,222         | 2,312         | 2,406         | 2,503         |
| <b>Total</b>                                      | <b>23,516</b> | <b>26,029</b> | <b>28,313</b> | <b>32,339</b> | <b>36,846</b> | <b>42,292</b> | <b>49,275</b> | <b>55,425</b> | <b>58,090</b> | <b>57,515</b> | <b>59,164</b> | <b>60,690</b> | <b>62,256</b> | <b>63,862</b> | <b>65,509</b> | <b>67,184</b> | <b>69,911</b> | <b>72,750</b> | <b>75,703</b> | <b>78,777</b> | <b>81,971</b> |

- (1) Number of permanent residents per year, from Table A-1, multiplied by a weighting factor of 1.0, or 12 months per year.
- (2) Number of seasonal, occasional, or recreational residents per year, from Table A-2, multiplied by a weighting factor of 0.42, or 5 months per year, per the Census definition of a part-time resident.





**Table A-4**  
**City of North Port Functional Population Projections**

| Year | City of North Port<br>Functional Population <sup>(1)</sup> |
|------|--|
| 2000 | 21,573   |
| 2001 | 23,881   |
| 2002 | 25,983   |
| 2003 | 29,673   |
| 2004 | 33,798   |
| 2005 | 38,800   |
| 2006 | 45,202   |
| 2007 | 50,852   |
| 2008 | 53,293   |
| 2009 | 52,760   |
| 2010 | 54,290   |
| 2011 | 55,702   |
| 2012 | 57,150   |
| 2013 | 58,636   |
| 2014 | 60,161   |
| 2015 | 61,725   |
| 2016 | 64,256   |
| 2017 | 66,890   |
| 2018 | 69,632   |
| 2019 | 72,487   |
| 2020 | 75,459   |
| 2021 | 77,813   |
| 2022 | 80,241   |
| 2023 | 82,745   |
| 2024 | 85,327   |
| 2025 | 87,989   |
| 2026 | 90,268   |

(1) Based on growth rates for the City of North Port's population



## **APPENDIX B**

### **Transportation Impact Fee Cost Data Supplement**

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## Appendix B

### Cost Component Calculations

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

- Right-of-Way
- Construction
- Design/CEI
- Roadway Capacity

#### Right-of-Way

##### *City Roads*

As shown in Table B-1, a review of ROW cost data for the City of North Port showed that the City has four recently-bid or completed projects with ROW acquisition costs. ROW was acquired along Sumter Blvd, Toledo Blade Blvd, and Price Blvd, with a weighted average cost of \$250,000 per lane mile. Upon further review of the local data, it was determined that the Toledo Blade Blvd project did not reflect typical ROW costs that the City expects to incur and therefore was removed from the cost per lane mile calculation. The resulting ROW cost of approximately \$320,000 per lane mile for city roads was used in the transportation impact fee calculation.

##### *County Roads*

As shown in Table B-2, a review of ROW cost data for Sarasota County showed that the County has 10 recently completed projects with ROW acquisition costs. The ROW costs ranged from approximately \$240,000 to \$1.07 million per lane mile for these projects, with a weighted average cost of \$620,000 per lane mile. Based on a review of these local projects, a ROW cost of \$620,000 per lane mile was used for county roads in the transportation impact fee calculation.



## *State Roads*

ROW cost estimates for state roads were developed based on the relationship of ROW to construction cost data observed in recent transportation impact fee studies. Since no ROW cost data was available for state projects in the City of North Port or Sarasota County, ROW was estimated at 40 percent of the construction cost of a capacity expansion project on state roads. This factor is consistent with the average ROW to construction ratio used in recent transportation impact fee studies throughout Florida. Therefore, a ROW cost of \$800,000 per lane mile was used for state roads, based on the \$2,000,000 construction cost per lane mile for state roads discussed in the subsequent sections of this appendix.

## Construction

### *City*

As shown in Table B-3, the City of North Port has recently completed three urban design lane addition projects and has three improvements on the horizon. Projects were located along Sumter Blvd, Toledo Blade Blvd, and Price Blvd, with a weighted average cost of \$2.60 million per lane mile. Upon further review of the local data, it was determined that the Sumter Blvd (Ph. II) improvement from US 41 to Heron Creek Blvd project did not reflect typical construction costs that the City expects in upcoming years and therefore was removed from the cost per lane mile calculation. The resulting construction cost of approximately \$2.40 million per lane mile for city roads was used in the transportation impact fee calculation. This cost reflects the fact that the construction cost for city roads in North Port is higher than most communities due to unique landscaping, lighting, and infrastructure amenities included in the roadway design.

In addition to unique amenities, city roads typically include some form of bridge structure to accommodate the canals and waterways located throughout the City. As shown in Table B-4, based on bridge costs observed for sections of the Sumter Blvd, Toledo Blade Blvd, and Price Blvd improvements, a bridge cost factor of 25 percent (applied to the base construction cost) was added to the total cost of improving a city road.



## *County*

As shown in Table B-5, Sarasota County recently completed 13 urban design lane addition projects and has recently bid three capacity expansion improvements. These 16 improvements have a weighted average cost of approximately \$3.27 million per lane mile. It should be noted that the majority of the local projects were completed prior to 2008, when construction costs were peaking prior to the economic recession. In addition to these local projects, a review of recent projects let between 2008 and 2011 in other Florida counties identified 22 urban design projects ranging from approximately \$0.71 million to \$3.51 million per lane mile, with a weighted average cost of approximately \$1.79 million per lane mile, as shown in Table B-6. Based on these sets of data, it was determined that Sarasota's construction costs are higher than the state average, and that the most recent bid project along North Cattlemen Road (from Richardson Rd to Desoto Blvd) represents the typical cost of a County roadway at this time. Based on a review of these local projects and statewide projects, a construction cost of \$2.40 million per lane mile was used for county roads in the transportation impact fee calculation.

## *State*

Due to a lack of cost data for state roadway capacity expansion projects within Sarasota County, state road costs were based on projects from throughout Florida. A review of recent projects let between 2008 and 2011 in Sarasota and other Florida counties identified 28 urban design projects ranging from approximately \$1.20 million to \$4.95 million per lane mile, with a weighted average cost of approximately \$2.22 million per lane mile. Only one project from the list, US 301 from Wood St to Myrtle Ave, is located in Sarasota and has a cost of \$3.53 per lane mile. However, when looking at all projects in FDOT District 1, the weighted average cost is \$1.82 million per lane mile, which is considerable lower than the state average. Weighing the fact that the lone Sarasota project was above the state average and District 1 was below the average, a conservative estimate of \$2.0 million per lane mile was used in the impact fee calculation for state roads.

## [Design/CEI](#)

Based on a review of recent completed projects in North Port, Sarasota County, and other counties in Florida, design costs were estimated at 10 percent of construction



costs, and CEI costs were estimated at 9 percent of construction costs for state roadways.

### Roadway Capacity

As shown in Table B-8, the average capacity per lane mile was based on the projects in the 2035 Sarasota-Manatee LRTP Needs Plan. This listing of projects reflects the mix of improvements that will yield the vehicle miles of capacity (VMC) that will be built in Sarasota County. The resulting weighted average capacity per lane mile calculated based on these projects is 8,633 was used in the transportation impact fee calculation.



**Table B-1**  
**Right-of-Way – City Roadways**

| Jurisdiction  | Description                 | From             | To                | Start Date | End Date | Status      | Feature | Design | Length | Lanes Added | Lane Miles Added | Land / ROW          | ROW Cost per Lane Mile |
|---|-----------------------------|------------------|-------------------|------------|----------|-------------|---------|--------|--------|-------------|------------------|---------------------|------------------------|
| City  | Sumter Blvd (Ph. II)        | US 41            | Heron Creek Blvd  | 2011       | 2011     | Completed   | 2 to 4  | Urban  | 1.40   | 2           | 2.80             | \$819,223           | \$292,580              |
| City  | Sumter Blvd (Ph. III)       | Heron Creek Blvd | City Center Blvd  | n/a        | n/a      | Not Started | 2 to 4  | Urban  | 2.00   | 2           | 4.00             | \$1,000,000         | \$250,000              |
| City  | Toledo Blade Blvd           | Cranberry Blvd   | Hillsborough Blvd | 2007       | 2011     | Completed   | 2 to 4  | Urban  | 4.50   | 2           | 9.00             | \$151,150           | \$16,794               |
| City  | Price Blvd (Preferred Alt.) | Biscayne Dr      | Orlando Blvd      | n/a        | n/a      | Not Started | 2 to 4  | Urban  | 12.68  | 2           | 25.36            | \$8,546,780         | \$337,018              |
| <b>Total</b>  |                             |                  |                   |            |          |             |         |        |        |             | <b>41.16</b>     | <b>\$10,517,153</b> | <b>\$255,519</b>       |
| <b>Total (City ROW - Excluding Toledo Blade Blvd)</b> |                             |                  |                   |            |          |             |         |        |        |             | <b>32.16</b>     | <b>\$10,366,003</b> | <b>\$322,326</b>       |

Source: City of North Port



**Table B-2  
Right-of-Way – County Roadways**

| Jurisdiction                          | CIP # | Description          | From                 | To                       | Start Date | End Date | Status    | Feature | Design | Length | Lanes Added | Lane Miles Added | Land / ROW          | ROW Cost per Lane Mile |
|---------------------------------------|-------|----------------------|----------------------|--------------------------|------------|----------|-----------|---------|--------|--------|-------------|------------------|---------------------|------------------------|
| County                                | 95740 | Dearborn St          | SR 776               | Pine St                  | 1992       | 2008     | Completed | 2 to 4  | Urban  | 0.74   | 2           | 1.48             | \$715,046           | \$483,139              |
| County                                | 95742 | Albee Farm Rd        | Laurel Rd            | US 41 (Venice Bypass)    | 1992       | 2006     | Completed | 2 to 4  | Urban  | 2.50   | 2           | 5.00             | \$2,646,437         | \$529,287              |
| County                                | 95781 | Bahia Vista St       | McIntosh Rd          | Cattlemen Rd             | 1998       | 2008     | Completed | 2 to 4  | Urban  | 1.85   | 2           | 3.70             | \$3,941,508         | \$1,065,272            |
| County                                | 95752 | Pine St              | Dearborn St          | Englewood Sports Complex | 1998       | 2007     | Completed | 0 to 2  | Urban  | 0.60   | 2           | 1.20             | \$1,107,358         | \$922,798              |
| County                                | 95765 | Proctor Rd (Ph. I)   | E. of Honore Ave     | W. of Gantt Rd           | 1998       | 2006     | Completed | 2 to 4  | Urban  | 0.50   | 2           | 1.00             | \$521,866           | \$521,866              |
| County                                | 95770 | Webber St (Ph. I)    | Linwood Dr           | Cattlemen Rd             | 1999       | 2007     | Completed | 0 to 2  | Urban  | 1.08   | 2           | 2.16             | \$884,774           | \$409,618              |
| County                                | 95812 | McIntosh Rd (Ph. II) | Proctor Rd           | S. of Bee Rdige          | 2000       | 2007     | Completed | 2 to 4  | Urban  | 0.75   | 2           | 1.50             | \$464,865           | \$309,910              |
| County                                | 95782 | Center Rd (Ph. I)    | Jacaranda Blvd       | Venice Middle School     | 2000       | 2007     | Completed | 2 to 4  | Urban  | 2.00   | 2           | 4.00             | \$972,241           | \$243,060              |
| County                                | 95806 | Center Rd (Ph. II)   | Venice Middle School | River Rd                 | 2000       | 2007     | Completed | 2 to 4  | Urban  | 1.25   | 2           | 2.50             | \$2,437,412         | \$974,965              |
| County                                | 95803 | Border Rd            | I-75                 | Jacaranda Blvd           | 2001       | 2007     | Completed | 0 to 2  | Urban  | 0.60   | 2           | 1.20             | \$1,111,893         | \$926,578              |
| <b>Average ROW Cost per Lane Mile</b> |       |                      |                      |                          |            |          |           |         |        |        |             | <b>23.74</b>     | <b>\$14,803,400</b> | <b>\$623,564</b>       |

Source: Sarasota County





**Table B-3**  
**Construction – City Roadways**

| Jurisdiction   | Description                 | From             | To                | Start Date | End Date | Status      | Feature | Design | Length | Lanes Added | Lane Miles Added | Construction Cost <sup>(1)</sup> | Construction Cost per Lane Mile |
|--|-----------------------------|------------------|-------------------|------------|----------|-------------|---------|--------|--------|-------------|------------------|----------------------------------|---------------------------------|
| City   | Sumter Blvd (Ph. II)        | US 41            | Heron Creek Blvd  | 2011       | 2011     | Completed   | 2 to 4  | Urban  | 1.40   | 2           | 2.80             | \$14,105,358                     | \$5,037,628                     |
| City   | Sumter Blvd (Ph. III)       | Heron Creek Blvd | City Center Blvd  | n/a        | n/a      | Not Started | 2 to 4  | Urban  | 2.00   | 2           | 4.00             | \$9,000,000                      | \$2,250,000                     |
| City   | Toledo Blade Blvd           | Cranberry Blvd   | Hillsborough Blvd | 2007       | 2011     | Completed   | 2 to 4  | Urban  | 4.50   | 2           | 9.00             | \$19,509,211                     | \$2,167,690                     |
| City   | Sumter Blvd                 | Hansard Ave      | City Center Blvd  | 2011       | 2011     | Completed   | 2 to 4  | Urban  | 0.36   | 2           | 0.72             | \$1,928,294                      | \$2,678,186                     |
| City   | Sumter Blvd                 | Hansard Ave      | Morandi Ave       | n/a        | n/a      | Not Started | 2 to 4  | Urban  | 0.50   | 2           | 1.00             | \$2,400,000                      | \$2,400,000                     |
| City   | Price Blvd (Preferred Alt.) | Biscayne Dr      | Orlando Blvd      | n/a        | n/a      | Not Started | 2 to 4  | Urban  | 12.68  | 2           | 25.36            | \$64,327,439                     | \$2,536,571                     |
| <b>Total (City Construction)</b>   |                             |                  |                   |            |          |             |         |        |        |             | <b>42.88</b>     | <b>\$111,270,302</b>             | <b>\$2,594,923</b>              |
| <b>Total (City Construction - Excluding Sumter Blvd, Ph. II)</b>   |                             |                  |                   |            |          |             |         |        |        |             | <b>40.08</b>     | <b>\$97,164,944</b>              | <b>\$2,424,275</b>              |
| <b>Total (City Construction - Excluding Sumter Blvd, Ph. II, with Bridge Costs @ 25%) - Rounded to nearest million</b> |                             |                  |                   |            |          |             |         |        |        |             | <b>40.08</b>     | <b>\$121,456,180</b>             | <b>\$3,000,000</b>              |

(1) Does not include bridge costs

Source: City of North Port

**Table B-4**  
**Bridge Cost Adjustment Factor – City Roadways**

| Jurisdiction | Description            | From           | To                | Status      | Length | Lanes Added | Lane Miles Added | Bridge Cost         | Construction Cost <sup>(1)</sup> | Bridge Cost / Constr. |
|--------------|------------------------|----------------|-------------------|-------------|--------|-------------|------------------|---------------------|----------------------------------|-----------------------|
| City         | Sumter Blvd (Ph. II)   | US 41          | Heron Creek Blvd  | Completed   | 1.40   | 2           | 2.80             | \$1,683,000         | \$14,105,358                     | 12%                   |
| City         | Toledo Blade Blvd      | Cranberry Blvd | Hillsborough Blvd | Completed   | 4.50   | 2           | 9.00             | \$2,123,000         | \$19,509,211                     | 11%                   |
| City         | Sumter Blvd            | Hansard Ave    | City Center Blvd  | Completed   | 0.36   | 2           | 0.72             | \$1,059,000         | \$1,928,294                      | 55%                   |
| City         | Price Blvd (Alt A-1/3) | Biscayne Dr    | Orlando Blvd      | Not Started | 12.68  | 2           | 25.36            | \$18,449,951        | \$66,288,090                     | 28%                   |
| City         | Price Blvd (Preferred) | Biscayne Dr    | Orlando Blvd      | Not Started | 12.68  | 2           | 25.36            | \$17,485,506        | \$64,327,439                     | 27%                   |
| <b>Total</b> |                        |                |                   |             |        |             |                  | <b>\$40,800,457</b> | <b>\$166,158,392</b>             | <b>25%</b>            |

(1) Does not include bridge costs

Source: City of North Port



**Table B-5  
Construction – County Roadways (Local)**

| Jurisdiction | CIP # | Description             | From                     | To                       | Start Date | End Date | Status    | Feature | Design | Length | Lanes Added | Lane Miles Added | Construction Cost    | Construction Cost per Lane Mile |
|--------------|-------|-------------------------|--------------------------|--------------------------|------------|----------|-----------|---------|--------|--------|-------------|------------------|----------------------|---------------------------------|
| County       | 95740 | Dearborn St             | SR 776                   | Pine St                  | 1992       | 2008     | Completed | 2 to 4  | Urban  | 0.74   | 2           | 1.48             | \$13,362,450         | \$9,028,682                     |
| County       | 95742 | Albee Farm Rd           | Laurel Rd                | US 41 (Venice Bypass)    | 1992       | 2006     | Completed | 2 to 4  | Urban  | 2.50   | 2           | 5.00             | \$7,638,886          | \$1,527,777                     |
| County       | 95781 | Bahia Vista St          | McIntosh Rd              | Cattlemen Rd             | 1998       | 2008     | Completed | 2 to 4  | Urban  | 1.85   | 2           | 3.70             | \$19,911,470         | \$5,381,478                     |
| County       | 95752 | Pine St                 | Dearborn St              | Englewood Sports Complex | 1998       | 2007     | Completed | 0 to 2  | Urban  | 0.60   | 2           | 1.20             | \$4,295,476          | \$3,579,563                     |
| County       | 95761 | Winchester Blvd (Ph. I) | County Line              | South River Rd           | 1998       | 2006     | Completed | 2 to 4  | Urban  | 4.92   | 2           | 9.84             | \$11,265,467         | \$1,144,865                     |
| County       | 95765 | Proctor Rd (Ph. I)      | E. of Honore Ave         | W. of Gantt Rd           | 1998       | 2006     | Completed | 2 to 4  | Urban  | 0.50   | 2           | 1.00             | \$2,978,594          | \$2,978,594                     |
| County       | 95779 | Cattlemen Rd (Ph. III)  | N. of Colonial Oaks Blvd | S. of Bahia Vista St     | 1998       | 2006     | Completed | 3 to 4  | Urban  | 0.70   | 1           | 0.70             | \$2,232,600          | \$3,189,429                     |
| County       | 95872 | Cattlemen Rd (Ph. IV)   | Canal AA Culvert         | N. of Colonial Oaks Blvd | 1998       | 2006     | Completed | 3 to 4  | Urban  | 0.85   | 1           | 0.85             | \$5,207,668          | \$6,126,668                     |
| County       | 95770 | Webber St (Ph. I)       | Linwood Dr               | Cattlemen Rd             | 1999       | 2007     | Completed | 0 to 2  | Urban  | 1.08   | 2           | 2.16             | \$14,406,670         | \$6,669,755                     |
| County       | 95812 | McIntosh Rd (Ph. II)    | Proctor Rd               | S. of Bee Rdige          | 2000       | 2007     | Completed | 2 to 4  | Urban  | 0.75   | 2           | 1.50             | \$7,891,832          | \$5,261,221                     |
| County       | 95782 | Center Rd (Ph. I)       | Jacaranda Blvd           | Venice Middle School     | 2000       | 2007     | Completed | 2 to 4  | Urban  | 2.00   | 2           | 4.00             | \$12,068,301         | \$3,017,075                     |
| County       | 95806 | Center Rd (Ph. II)      | Venice Middle School     | River Rd                 | 2000       | 2007     | Completed | 2 to 4  | Urban  | 1.25   | 2           | 2.50             | \$14,309,796         | \$5,723,918                     |
| County       | 95803 | Border Rd               | I-75                     | Jacaranda Blvd           | 2001       | 2007     | Completed | 0 to 2  | Urban  | 0.60   | 2           | 1.20             | \$3,958,102          | \$3,298,418                     |
| County       | 85762 | Fruitville Rd, Ph. I    | Tatum Rd                 | Debreceen Rd             | 2009       | -        | Bid       | 2 to 4  | Urban  | 0.72   | 2           | 1.44             | \$4,355,796          | \$3,024,858                     |
| County       | 85762 | Fruitville Rd, Ph. II   | Coburn Rd                | Tatum Rd                 | 2009       | -        | Bid       | 2 to 4  | Urban  | 1.26   | 2           | 2.52             | \$8,557,904          | \$3,395,994                     |
| County       | 85829 | North Cattlemen Rd      | Richardson Rd            | Desoto Blvd              | 2011       | -        | Bid       | 2 to 4  | Urban  | 2.55   | 2           | 5.10             | \$12,153,584         | \$2,383,056                     |
| <b>Total</b> |       |                         |                          |                          |            |          |           |         |        |        |             | <b>44.19</b>     | <b>\$144,594,596</b> | <b>\$3,272,111</b>              |

Source: Sarasota County



**Table B-6  
Construction – County Roadways (Statewide)**

| County       | District | Description                  | From                      | To                    | Year | Status | Feature  | Design | Length | Lanes Added | Lane Miles Added | Construction Cost    | Construction Cost per Lane Mile |
|--------------|----------|------------------------------|---------------------------|-----------------------|------|--------|----------|--------|--------|-------------|------------------|----------------------|---------------------------------|
| Collier      | 1        | Santa Barbara Blvd Extension | Rattlesnake Hammock Rd    | Davis Blvd            | 2008 | Bid    | 0 to 6   | Urban  | 2.00   | 6           | 12.00            | \$18,947,979         | \$1,578,998                     |
| Polk         | 1        | Silver Connector Rd          | E.F. Griffin Rd           | US 98                 | 2008 | Bid    | 0 to 2   | Urban  | 0.33   | 2           | 0.66             | \$1,560,483          | \$2,364,368                     |
| Polk         | 1        | County Line Rd               | Ewell Ave                 | Pipkin Rd             | 2008 | Bid    | 2 to 4   | Urban  | 1.20   | 2           | 2.40             | \$3,993,892          | \$1,664,122                     |
| Volusia      | 5        | Debary Ave                   | Deltona Blvd              | Providence Blvd       | 2008 | Bid    | 2 to 4   | Urban  | 1.84   | 2           | 3.68             | \$7,405,914          | \$2,012,477                     |
| Volusia      | 5        | S. Williamson Blvd Phase II  | S. of Sabal Creek Blvd    | N. of Moody Bridge    | 2008 | Bid    | 2 to 4   | Urban  | 1.91   | 2           | 3.82             | \$11,109,225         | \$2,908,174                     |
| Lake         | 5        | CR 466 (Segment A)           | US 301                    | CR 319                | 2008 | Bid    | 2 to 4   | Urban  | 1.00   | 2           | 2.00             | \$4,062,660          | \$2,031,330                     |
| Hillsborough | 7        | 40th St                      | River Pines Apts          | Humphrey St           | 2008 | Bid    | 2 to 4   | Urban  | 0.95   | 2           | 1.90             | \$5,154,862          | \$2,713,085                     |
| Hillsborough | 7        | Race Track Rd (Phase I)      | Douglas Rd                | Linebaugh Ave         | 2008 | Bid    | 2 to 6   | Urban  | 1.01   | 4           | 4.04             | \$10,099,911         | \$2,499,978                     |
| Orange       | 5        | CR 535 (Segments C and E)    | Ficquette Rd              | Butler Ridge Dr       | 2008 | Bid    | 2 to 4   | Urban  | 1.10   | 2           | 2.20             | \$3,695,233          | \$1,679,651                     |
| Orange       | 5        | Taft-Vineland Road Extension | Central Florida Pkwy      | John Young Pkwy       | 2008 | Bid    | 0 to 4   | Urban  | 0.80   | 4           | 3.20             | \$3,476,629          | \$1,086,447                     |
| Lee          | 1        | Gladiolus Dr (Ph. I)         | A&W Bulb Rd               | Winkler Rd            | 2008 | Bid    | 2 to 4/6 | Urban  | 1.94   | 2/4         | 5.44             | \$13,971,509         | \$2,568,292                     |
| Lee          | 1        | Gladiolus Dr (Ph. II)        | Pine Ridge Rd             | A&W Bulb Rd           | 2008 | Bid    | 2 to 4   | Urban  | 1.02   | 2           | 2.04             | \$6,748,642          | \$3,308,158                     |
| Hillsborough | 7        | Bruce B. Downs               | Palm Springs Blvd         | Pebble Beach Blvd     | 2009 | Bid    | 4 to 8   | Urban  | 7.20   | 4           | 28.80            | \$40,575,305         | \$1,408,865                     |
| Hillsborough | 7        | Race Track Rd (Phase IV)     | Douglas Rd                | Hillsborough Ave      | 2009 | Bid    | 2 to 6   | Urban  | 0.56   | 4           | 2.24             | \$4,397,412          | \$1,963,130                     |
| Lee          | 1        | Colonial Blvd (CR 884)       | I-75                      | SR 82                 | 2009 | Bid    | 4 to 6   | Urban  | 2.70   | 2           | 5.40             | \$14,576,393         | \$2,699,332                     |
| Orange       | 5        | Barack Obama Pkwy (Phase I)  | N. of Conroy Rd           | Metro West Blvd       | 2010 | Bid    | 0 to 4   | Urban  | 1.50   | 4           | 6.00             | \$8,691,007          | \$1,448,501                     |
| Broward      | 4        | Bailey Rd                    | NW 64th Ave / SW 81st Ave | SR 7 (US 441)         | 2010 | Bid    | 2 to 4   | Urban  | 2.00   | 2           | 4.00             | \$6,330,297          | \$1,582,574                     |
| Collier      | 1        | Oil Well Rd (Segment 2)      | Immokalee Rd              | E. of Everglades Blvd | 2010 | Bid    | 2 to 4   | Urban  | 3.33   | 2           | 6.66             | \$19,735,024         | \$2,963,217                     |
| Collier      | 1        | Oil Well Rd (Segment 4A)     | W. of Oil Well Grade Rd   | W. of Camp Keais Rd   | 2010 | Bid    | 2 to 6   | Urban  | 3.79   | 4           | 15.16            | \$19,464,255         | \$1,283,922                     |
| Lee          | 1        | Six Mile Cypress Pkwy        | Daniels Pkwy              | S. of Winkler Rd Ext. | 2010 | Bid    | 2 to 4   | Urban  | 3.09   | 2           | 6.18             | \$6,711,242          | \$1,085,961                     |
| Lee          | 1        | Daniels Pkwy                 | Chamberlin Pkwy           | Gateway Blvd          | 2011 | Bid    | 4 to 6   | Urban  | 2.05   | 2           | 4.10             | \$2,906,553          | \$708,915                       |
| Pinellas     | 1        | Bryan Dairy Rd               | Starkey Rd (CR 1)         | 72nd St               | 2011 | Bid    | 4 to 6   | Urban  | 1.47   | 2           | 2.94             | \$10,327,383         | \$3,512,715                     |
| <b>Total</b> |          |                              |                           |                       |      |        |          |        |        |             | <b>124.86</b>    | <b>\$223,941,810</b> | <b>\$1,793,543</b>              |

Source: Roadway bids from recent impact fee studies and from the TOA Cost Database, with information having been provided by each respective County.



**Table B-7**  
**Construction – State Roadways (Statewide)**

| County                         | District | Description          | From                     | To                       | Year | Status | Feature | Design | Length | Lanes Added | Lane Miles Added | Construction Cost    | Construction Cost per Lane Mile |
|--------------------------------|----------|----------------------|--------------------------|--------------------------|------|--------|---------|--------|--------|-------------|------------------|----------------------|---------------------------------|
| Walton                         | 3        | SR 83 (US 331)       | SR 30 (US 98)            | S. end of Choctaw Bridge | 2008 | Bid    | 2 to 4  | Urban  | 2.08   | 2           | 4.16             | \$11,649,363         | \$2,800,328                     |
| Hillsborough                   | 7        | US 301 (SR 43)       | S. of Balm Rd            | N. of Gibsonton Rd       | 2008 | Bid    | 2 to 6  | Urban  | 6.03   | 4           | 24.12            | \$55,702,777         | \$2,309,402                     |
| Indian River                   | 4        | SR 5 (US 1)          | S. of Oslo Rd            | S. of Indian River Bend  | 2008 | Bid    | 4 to 6  | Urban  | 1.70   | 2           | 3.40             | \$14,953,562         | \$4,398,106                     |
| Indian River                   | 4        | SR 60/Osceola Blvd   | W. of 82 Ave             | 66th Ave/CR 505          | 2008 | Bid    | 4 to 6  | Urban  | 2.15   | 2           | 4.30             | \$18,496,793         | \$4,301,580                     |
| Orange                         | 5        | SR 50                | Good Homes Rd            | Pine Hills Rd            | 2008 | Bid    | 4 to 6  | Urban  | 3.63   | 2           | 7.26             | \$35,929,914         | \$4,949,024                     |
| Leon                           | 3        | SR 10 (Mahan Drive)  | Dempsey Mayo Rd          | Walden Rd                | 2009 | Bid    | 2 to 4  | Urban  | 3.10   | 2           | 6.20             | \$18,083,510         | \$2,916,695                     |
| Indian River                   | 4        | SR 60 (Osceola Blvd) | W. of I-95               | W. of 82nd Ave/CR 609    | 2009 | Bid    | 4 to 6  | Urban  | 3.07   | 2           | 6.14             | \$7,366,557          | \$1,199,765                     |
| Sarasota                       | 1        | US 301               | Wood St                  | Myrtle Ave               | 2009 | Bid    | 4 to 6  | Urban  | 2.60   | 2           | 5.20             | \$18,372,050         | \$3,533,087                     |
| Pasco                          | 7        | US 41 (SR 45)        | Tower Rd                 | Ridge Rd                 | 2009 | Bid    | 2 to 4  | Urban  | 2.84   | 2           | 5.68             | \$12,685,027         | \$2,233,279                     |
| Lee                            | 1        | SR 739               | US 41 (S. of Alico)      | Six Mile Cypress Pkwy    | 2009 | Bid    | 0 to 6  | Urban  | 2.77   | 6           | 16.62            | \$20,663,929         | \$1,243,317                     |
| Manatee                        | 1        | US 301               | Erie Rd                  | CR 675                   | 2009 | Bid    | 4 to 6  | Urban  | 4.10   | 2           | 8.20             | \$21,040,000         | \$2,565,854                     |
| Marion                         | 5        | SR 35 (US 301)       | Sumter County Line       | 529' S. of CR 42         | 2009 | Bid    | 2 to 4  | Urban  | 1.40   | 2           | 2.80             | \$3,596,000          | \$1,284,286                     |
| Miami-Dade                     | 6        | Perimeter Rd         | NW 72 Avenue             | NW 57 Avenue             | 2009 | Bid    | 2 to 4  | Urban  | 1.50   | 2           | 3.00             | \$6,383,286          | \$2,127,762                     |
| Polk                           | 1        | US 27                | N. of CR 546             | S. of SR 544             | 2009 | Bid    | 2 to 4  | Urban  | 1.56   | 2           | 3.12             | \$4,100,069          | \$1,314,125                     |
| Santa Rosa                     | 3        | SR 281 (Avalon Blvd) | N. of CSX R/R Bridge     | S. of Commerce Rd        | 2009 | Bid    | 2 to 4  | Urban  | 0.98   | 2           | 1.96             | \$5,621,006          | \$2,867,860                     |
| Santa Rosa                     | 3        | SR 281 (Avalon Blvd) | Gulf Rd                  | SR 10 (US 90)            | 2009 | Bid    | 2 to 4  | Urban  | 1.78   | 2           | 3.56             | \$9,150,583          | \$2,570,388                     |
| St. Lucie                      | 4        | SR 70                | MP 5.860                 | MP 10.216                | 2009 | Bid    | 2 to 4  | Urban  | 4.36   | 2           | 8.72             | \$12,426,020         | \$1,425,002                     |
| Sumter                         | 5        | SR 35 (US 301)       | N. of CR 204             | Marion County Line       | 2009 | Bid    | 2 to 4  | Urban  | 1.51   | 2           | 3.02             | \$3,856,688          | \$1,277,049                     |
| Washington                     | 3        | SR 79                | N. Environmental Rd      | Strickland Rd            | 2009 | Bid    | 2 to 4  | Urban  | 1.72   | 2           | 3.44             | \$8,877,323          | \$2,580,617                     |
| Lake                           | 5        | SR 50                | E. of Grand Hwy          | W. of Hancock Rd         | 2010 | Bid    | 4 to 6  | Urban  | 1.30   | 2           | 2.60             | \$4,689,633          | \$1,803,705                     |
| Polk                           | 1        | SR 559 Extension     | SR 655 (Recker Hwy)      | Derby Ave                | 2010 | Bid    | 0 to 2  | Urban  | 0.69   | 2           | 1.38             | \$2,751,592          | \$1,993,907                     |
| Desoto                         | 1        | US 17 (SR 35)        | N. of Peace River Shores | SW Collins Street        | 2010 | Bid    | 2 to 4  | Urban  | 3.88   | 2           | 7.76             | \$13,066,106         | \$1,683,777                     |
| Santa Rosa                     | 3        | SR 281 (Avalon Blvd) | S. of Moor's Lodge       | N. of CSX R/R Bridge     | 2010 | Bid    | 2 to 4  | Urban  | 1.48   | 2           | 2.96             | \$7,145,212          | \$2,413,923                     |
| Lee                            | 1        | US 41                | Corkscrew Rd             | San Carlos Blvd          | 2010 | Bid    | 4 to 6  | Urban  | 4.48   | 2           | 8.96             | \$12,822,677         | \$1,431,102                     |
| Polk                           | 1        | US 98                | S. of Manor Dr           | N. of CR 540A            | 2010 | Bid    | 4 to 6  | Urban  | 3.32   | 2           | 6.64             | \$11,092,909         | \$1,670,619                     |
| St. Lucie                      | 4        | SR 70                | Okeechobee County Line   | MP 5.871                 | 2010 | Bid    | 2 to 4  | Urban  | 5.87   | 2           | 11.74            | \$18,782,630         | \$1,599,883                     |
| Santa Rosa                     | 3        | SR 281 (Avalon Blvd) | SR 8 (I-10)              | S. of Moor's Lodge       | 2010 | Bid    | 2 to 4  | Urban  | 0.85   | 2           | 1.70             | \$5,378,226          | \$3,163,662                     |
| Polk                           | 1        | US 98 (Bartow Hwy)   | Brooks St                | Edgewood Dr              | 2011 | Bid    | 4 to 6  | Urban  | 0.72   | 2           | 1.44             | \$4,341,917          | \$3,015,220                     |
| <b>Total</b>                   |          |                      |                          |                          |      |        |         |        |        |             | <b>166.08</b>    | <b>\$369,025,359</b> | <b>\$2,221,974</b>              |
| <b>Total (District 1 Only)</b> |          |                      |                          |                          |      |        |         |        |        |             | <b>59.32</b>     | <b>\$108,251,249</b> | <b>\$1,824,869</b>              |

Source: FDOT recently-bid projects by transportation district, available at [www.dot.state.fl.us/](http://www.dot.state.fl.us/)



**Table B-8**  
**Sarasota County 2035 Long Range Transportation Plan Needs Plan**

| County              | Jurisdiction | Description              | From               | To                    | Section Design | Improvement  | Length       | Lanes Added | Lane Miles Added | Initial Capacity | Future Capacity | Added Capacity | Vehicle Miles of Capacity Added | VMC Added per Lane Mile |       |
|---------------------|--------------|--------------------------|--------------------|-----------------------|----------------|--------------|--------------|-------------|------------------|------------------|-----------------|----------------|---------------------------------|-------------------------|-------|
| Sarasota            | State        | Bee Ridge Rd             | Cattlemen Rd       | Bond St               | Urban          | 4 to 6 Lanes | 1.48         | 2           | 2.96             | 36,700           | 55,300          | 18,600         | 27,528                          | 9,300                   |       |
| Sarasota            | County       | Honore Ave Ext.          | Laurel Rd          | SR 681                | Urban          | 2 to 4 Lanes | 3.40         | 2           | 6.80             | 13,860           | 31,950          | 18,090         | 61,506                          | 9,045                   |       |
| Sarasota            | County       | Lakewood Ranch Blvd Ext. | Fruitville Rd      | University Pkwy       | Urban          | 0 to 4 Lanes | 2.82         | 4           | 11.28            | 0                | 31,950          | 31,950         | 90,099                          | 7,988                   |       |
| Sarasota            | City         | Price Blvd/Orlando Blvd  | Veterans Blvd      | Biscayne Dr           | Urban          | 2 to 4 Lanes | 12.68        | 2           | 25.36            | 13,680           | 29,880          | 16,200         | 205,416                         | 8,100                   |       |
| Sarasota            | County       | River Rd                 | US 41 (Tamiami Tr) | I-75                  | Urban          | 2 to 4 Lanes | 5.53         | 2           | 11.06            | 13,860           | 31,950          | 18,090         | 100,038                         | 9,045                   |       |
| Sarasota            | County       | River Rd/Winchester Blvd | Prospect Ave       | US 41 (Tamiami Tr)    | Rural          | 2 to 4 Lanes | 7.15         | 2           | 14.30            | 14,630           | 33,725          | 19,095         | 136,529                         | 9,547                   |       |
| Sarasota            | State        | US 41 (Tamiami Tr)       | US 41 Bypass       | Center Rd             | Urban          | 4 to 6 Lanes | 2.64         | 2           | 5.28             | 33,200           | 50,300          | 17,100         | 45,144                          | 8,550                   |       |
| Sarasota            | State        | US 41 (Tamiami Tr)       | Vamo Way           | Baywood Dr            | Urban          | 4 to 6 Lanes | 3.25         | 2           | 6.50             | 33,200           | 50,300          | 17,100         | 55,575                          | 8,550                   |       |
| Sarasota            | State        | US 41 (Tamiami Tr)       | Sumter Blvd        | Charlotte County Line | Urban          | 4 to 6 Lanes | 1.00         | 2           | 2.00             | 33,200           | 50,300          | 17,100         | 17,100                          | 8,550                   |       |
| Sarasota            | State        | US 41 Bypass (Venice)    | US 41 (Tamiami Tr) | US 41 (Tamiami Tr)    | Urban          | 4 to 6 Lanes | 2.70         | 2           | 5.40             | 33,200           | 50,300          | 17,100         | 46,170                          | 8,550                   |       |
| <b>Total</b>        |              |                          |                    |                       |                |              | <b>42.65</b> |             | <b>90.94</b>     | <b>225,530</b>   | <b>415,955</b>  | <b>190,425</b> | <b>785,105</b>                  | <b>8,633</b>            |       |
| <b>City Roads</b>   |              |                          |                    |                       |                |              |              |             | 25.36            | <b>28%</b>       |                 |                |                                 | 205,416                 | 8,100 |
| <b>County Roads</b> |              |                          |                    |                       |                |              |              |             | 43.44            | <b>48%</b>       |                 |                |                                 | 388,172                 | 8,936 |
| <b>State Roads</b>  |              |                          |                    |                       |                |              |              |             | 22.14            | <b>24%</b>       |                 |                |                                 | 191,517                 | 8,650 |

Source: 2035 Sarasota-Manatee Long Range Transportation Plan, Table 12



## **APPENDIX C**

### **Transportation Impact Fee Credit Data Supplement**

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## Appendix C

### Credit Component Calculations

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This appendix presents the detailed calculations for the credit component of the transportation impact fee. Currently, in addition to the capital support that ultimately results from State fuel tax revenues, the City of North Port and Sarasota County also receive financial benefit from several other funding sources. Of these, the fuel taxes 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. 1<sup>st</sup> Local Option Tax (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 scheme, or by using a formula contained in the Florida Statutes.

#### **4. 2<sup>nd</sup> Local Option Tax (5¢/gallon)**

- Tax applies to every net gallon of motor and diesel fuel sold within a county.
- Proceeds may be used to fund transportation expenditures needed to meet the requirements of the capital improvements element of an adopted Local Government Comprehensive Plan.
- Proceeds are distributed to a county and its municipalities according to a mutually agreed upon distribution scheme, or by using a formula contained in the Florida Statutes.

#### **5. Ninth-Cent Fuel Tax (1¢/gallon)**

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

Each year, the Florida Legislative Committee on Intergovernmental Relations (LCIR) 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 2010-11 data represent projected fuel tax distributions to Sarasota County for the upcoming 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 C-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 \$1.49 million estimates the annual revenue that one penny of gas tax generates in Sarasota County.

**Table C-1**  
**Estimated Fuel Tax Distribution Allocated to Capital Programs for Sarasota County & Municipalities, FY 2010-11<sup>(1)</sup>**

| Tax                                   | Amount of Levy per Gallon | Total Distribution  | Distribution Per Penny |
|---------------------------------------|---------------------------|---------------------|------------------------|
| Constitutional Fuel Tax               | \$0.02                    | \$3,234,936         | \$1,617,468            |
| County Fuel Tax                       | \$0.01                    | \$1,430,699         | \$1,430,699            |
| 1st Local Option (1-6 cents)          | \$0.06                    | \$9,144,020         | \$1,524,003            |
| 2nd Local Option (1-5 cents)          | \$0.05                    | \$6,873,521         | \$1,374,704            |
| Ninth Cent Fuel Tax                   | \$0.01                    | \$1,636,037         | \$1,636,037            |
| <b>Total</b>                          | <b>\$0.15</b>             | <b>\$22,319,213</b> |                        |
| <b>Weighted Average<sup>(2)</sup></b> |                           |                     | <b>\$1,487,948</b>     |

(1) Source: Florida Legislative Committee on Intergovernmental relations, [www.floridacir.gov/revenue\\_estimates.cfm](http://www.floridacir.gov/revenue_estimates.cfm)

(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 the City of North Port and Sarasota County is presented below. The four components of the credit are as follows:

- City North Port gas tax equivalent pennies
- County gas tax equivalent pennies
- County debt service equivalent pennies
- State gas tax expenditures

#### *City Gas Tax Equivalent Pennies*

A review of the City's historical roadway financing program (FY 2006-2010) and the FY 2011-2015 Capital Improvement Plan (CIP) shows that roadway capacity expansion projects are being funded by a combination of impact fees, gas tax, sales tax,



transportation regional improvement program (TRIP) funds, tree replacement funds, ARRA funds, and grant funds. As shown in Table C-2, the City receives 0.6 pennies of credit for gas tax equivalent expenditures on roadway capacity expansion projects funded with recurring revenue sources other than impact fees.

**Table C-2**  
**City Gas Tax Equivalent Pennies**

| Source                                       | Cost of Projects   | Number of Years | Revenue from 1 penny <sup>(3)</sup> | Equivalent Pennies <sup>(4)</sup> |
|--|--------------------|-----------------|-------------------------------------|-----------------------------------|
| City CIP Projects (2011-2015) <sup>(1)</sup> | \$0                | 5               | \$1,487,948                         | \$0.000                           |
| City CIP Projects (2006-2010) <sup>(2)</sup> | <u>\$9,488,231</u> | <u>5</u>        | \$1,487,948                         | <u>\$0.013</u>                    |
| <b>Total</b>                                 | <b>\$9,488,231</b> | <b>10</b>       | <b>\$1,487,948</b>                  | <b>\$0.006</b>                    |

(1) Source: Table C-6

(2) Source: Table C-6

(3) Source: Table C-1

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

#### *County Gas Tax Equivalent Pennies*

A review of Sarasota County's historical roadway financing program (FY 2006-2010) and the FY 2011-2015 CIP shows that all roadway projects are being funded by a combination of impact fees, ad valorem taxes, gas tax, sales tax, and grant funds. As shown in Table C-3, Sarasota County receives a credit of 5.6 pennies for the portion of ad valorem tax, gas tax, sales tax, and grant fund revenues dedicated to capacity expansion projects in the past five years and in the 5-year work program. As shown in Table C-4, the County also receives 8.2 pennies for debt service payments on the 2005B and 2006 CST bonds, the 2005 ELMS bond and the 2008A and 2008B surtax bonds. Based on discussion with County staff, all bond proceeds were expended on roadway capacity expansion projects. Thus, a credit of 13.8 equivalent pennies will be given for the allocation of funds the county collects in ad valorem tax, gas tax, sales tax, and grant revenues, and for debt service expenditures.



**Table C-3**  
**County Gas Tax Equivalent Pennies**

| Source   | Cost of Projects    | Number of Years | Revenue from 1 penny <sup>(3)</sup> | Equivalent Pennies <sup>(4)</sup> |
|--|---------------------|-----------------|-------------------------------------|-----------------------------------|
| County CIP Projects (2011-2015) <sup>(1)</sup> | \$10,946,788        | 5               | \$1,487,948                         | \$0.015                           |
| County CIP Projects (2006-2010) <sup>(2)</sup> | \$72,119,294        | 5               | \$1,487,948                         | \$0.097                           |
| <b>Total</b>                                   | <b>\$83,066,082</b> | <b>10</b>       | <b>\$1,487,948</b>                  | <b>\$0.056</b>                    |

(1) Source: Table C-7

(2) Source: Table C-7

(3) Source: Table C-1

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

**Table C-4**  
**County Debt Service Equivalent Pennies**

| Source                           | Annual Payment Present Value | Number of Years Remaining | Revenue from 1 penny <sup>(6)</sup> | Equivalent Pennies <sup>(7)</sup> |
|----------------------------------|------------------------------|---------------------------|-------------------------------------|-----------------------------------|
| CST Bond 2005B <sup>(1)</sup>    | \$10,014,073                 | 14                        | \$1,487,948                         | \$0.005                           |
| CST Bond 2006 <sup>(2)</sup>     | \$14,726,890                 | 15                        | \$1,487,948                         | \$0.007                           |
| ELMS Bond 2005 <sup>(3)</sup>    | \$11,747,029                 | 14                        | \$1,487,948                         | \$0.006                           |
| Surtax Bond 2008A <sup>(4)</sup> | \$63,133,946                 | 13                        | \$1,487,948                         | \$0.033                           |
| Surtax Bond 2008B <sup>(5)</sup> | \$59,866,268                 | 13                        | \$1,487,948                         | \$0.031                           |
| <b>Total</b>                     | <b>\$159,488,206</b>         |                           | <b>\$1,487,948</b>                  | <b>\$0.082</b>                    |

(1) Source: Table C-8

(2) Source: Table C-9

(3) Source: Table C-10

(4) Source: Table C-11

(5) Source: Table C-12

(6) Source: Table C-1

(7) 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, expenditures on roadway capacity expansion spanning a 15-year period (from FY 2002 to FY 2016) were reviewed. For calculation purposes, the 15-year period was broken into three increments; two historical (FY 2002-2006 and FY 2007-2011) and one future (FY 2012-



2016). Information on historical projects' funding was obtained from the FDOT Work Programs. The use of a 15-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 five years of "future" roadway projects from FY 2012-2016 indicate a total State expenditure of approximately \$68.7 million for capacity-adding projects in the county. On an annual basis, this level of expenditure is equivalent to 9.2 pennies of gas tax revenue. Comparatively, the total cost of the capacity-adding projects for the five-year "historical" periods are as follows:

- FY 2007-2011 work plan equates to 11.1 pennies
- FY 2002-2006 work plan equates to 12.7 pennies

The combined weighted average over the 15-year period of state expenditure for capacity-adding roadway projects results in a total of 11.0 equivalent pennies. Table C-5 documents this calculation. The specific projects that were used in the equivalent penny calculations are summarized in Table C-13.

**Table C-5**  
**State Gas Tax Equivalent Pennies**

| Source  | Cost of Projects     | Number of Years | Revenue from 1 penny <sup>(4)</sup> | Equivalent Pennies <sup>(5)</sup> |
|---|----------------------|-----------------|-------------------------------------|-----------------------------------|
| Projected Work Program (FY 2012-2016) <sup>(1)</sup>  | \$68,719,618         | 5               | \$1,487,948                         | \$0.092                           |
| Historical Work Program (FY 2007-2011) <sup>(2)</sup> | \$82,374,649         | 5               | \$1,487,948                         | \$0.111                           |
| Historical Work Program (FY 2002-2006) <sup>(3)</sup> | \$94,666,962         | 5               | \$1,487,948                         | \$0.127                           |
| <b>Total</b>  | <b>\$245,761,229</b> | <b>15</b>       | <b>\$1,487,948</b>                  | <b>\$0.110</b>                    |

(1) Source: Table C-13

(2) Source: Table C-13

(3) Source: Table C-13

(4) Source: Table C-1

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



**Table C-6**  
**FY 2006-2015 City of North Port Gas Tax Equivalent Expenditures**

| Description                                      | Improvement              | Funding Source | 2006-2010          | 2011-2015  | Total              |
|--|--------------------------|----------------|--------------------|------------|--------------------|
| Price Blvd @ Cranberry Blvd                      | Intersection Improvement | FHCM           | \$711,355          | \$0        | \$711,355          |
| Sumter Blvd Ph. II                               | Lane Addition            | STRIP          | \$6,400,000        | \$0        | \$6,400,000        |
| Toledo Blade Blvd                                | Lane Addition            | Surtax II      | \$110,000          | \$0        | \$110,000          |
| Toledo Blade Blvd                                | Lane Addition            | TRF            | \$500,000          | \$0        | \$500,000          |
| Sumter Blvd from Hansard Ave to City Center Blvd | Lane Addition            | Surtax II      | \$318,808          | \$0        | \$318,808          |
| Sumter Blvd from Hansard Ave to City Center Blvd | Lane Addition            | ARRA           | \$1,448,068        | \$0        | \$1,448,068        |
| <b>Total</b>                                     |                          |                | <b>\$9,488,231</b> | <b>\$0</b> | <b>\$9,488,231</b> |

Source: City of North Port



**Table C-7**  
**FY 2006-2015 Sarasota County Gas Tax Equivalent Expenditures**

| ID    | Description  | Improvement              | 2006        | 2007        | 2008        | 2009        | 2010        | 2011-2015   | Total        |
|-------|--|--------------------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| 75830 | Bee Ridge Rd E. (W. of Mauna Loa Blvd to Iona Rd)          | Lane Addition            | \$893,917   | \$16,222    | \$7,003     | \$5,235     | \$608,891   | \$9,642,500 | \$11,173,768 |
| 85761 | McIntosh Rd (Sawyer Loop Rd to US 41)                      | Lane Addition            | \$13,805    | \$0         | \$0         | \$0         | \$0         | \$0         | \$13,805     |
| 85762 | Fruitville Rd (Coburn to Sarasota Center Blvd)             | Lane Addition            | \$1,878,763 | \$4,342,158 | \$123,539   | \$749,406   | \$280,441   | \$0         | \$7,374,307  |
| 85763 | Honore Ave (Bee Ridge Rd to Fruitville Rd)                 | New Road Construction    | \$1,254,900 | \$1,566,566 | \$1,094,743 | \$307,969   | \$470,639   | \$0         | \$4,694,817  |
| 85766 | Fruitville Rd @ Cattlemen Rd                               | Intersection Improvement | \$8,686     | \$86,998    | \$1,401,004 | \$189,666   | \$0         | \$0         | \$1,686,354  |
| 85793 | Sumter Blvd (Hansard Ave to Morandi Ave)                   | Lane Addition            | \$0         | \$0         | \$0         | \$0         | \$0         | \$0         | \$0          |
| 85794 | US 41 @ 10 th St   | Intersection Improvement | \$0         | \$0         | \$0         | \$0         | \$0         | \$0         | \$0          |
| 85795 | US 41 @ Orange Ave   | Intersection Improvement | \$0         | \$0         | \$0         | \$0         | \$0         | \$0         | \$0          |
| 85796 | US 41 @ 14th St  | Intersection Improvement | \$0         | \$0         | \$0         | \$0         | \$0         | \$0         | \$0          |
| 85827 | McIntosh Rd (Bahia Vist St to Fruitville Rd)               | Lane Addition            | \$2,828     | \$1,703     | \$0         | \$1,141     | \$0         | \$0         | \$5,672      |
| 85828 | North Cattlemen Gateway DRI                                | Lane Addition            | \$151,909   | \$152,471   | \$0         | \$0         | \$0         | \$0         | \$304,380    |
| 85829 | North Cattlemen Rd (Richardson Rd to University Pkwy)      | New Road Construction    | \$44,447    | \$1,428,243 | \$22,113    | \$390,313   | \$165,256   | \$444,288   | \$2,494,660  |
| 85830 | Pinebrook - Development Reimbursement                      | Lane Addition            | \$6,926     | \$259,783   | \$215,656   | \$261,749   | \$278,052   | \$0         | \$1,022,166  |
| 85831 | Bay Street ROW   | ROW Acquisition          | \$0         | \$0         | \$0         | \$0         | \$0         | \$0         | \$0          |
| 95713 | Countywide ROW Acquisition                                 | ROW Acquisition          | \$57,300    | \$472,203   | \$17,829    | \$30,106    | \$17,534    | \$0         | \$594,972    |
| 95740 | Dearborn St (SR 776 to Pine St)                            | Lane Addition            | \$30,267    | \$4,610,250 | \$27        | \$216,857   | \$0         | \$0         | \$4,857,401  |
| 95742 | Albee Farm Rd  | Lane Addition            | \$6         | \$0         | \$0         | \$0         | \$0         | \$0         | \$6          |
| 95744 | Lockwood Ridge (Fruitville Rd to 17th St)                  | Lane Addition            | \$1,021     | \$26        | \$0         | \$0         | \$0         | \$0         | \$1,047      |
| 95747 | US 41 @ Fruitville Rd                                      | Intersection Improvement | \$0         | \$0         | \$0         | \$0         | \$0         | \$0         | \$0          |
| 95750 | Center Rd @ Jacaranda Blvd                                 | Intersection Improvement | \$1,993,799 | \$2,616,274 | \$0         | \$1,187     | \$0         | \$0         | \$4,611,260  |
| 95752 | Pine St (Dearborn St to Englewood Sports Complex)          | New Road Construction    | \$83,269    | \$1,928,497 | \$351,570   | \$64,668    | \$0         | \$0         | \$2,428,004  |
| 95754 | Central Sarasota Pkwy Interchange                          | Interchange Improvement  | \$541,824   | \$373,699   | \$423,100   | \$15,838    | \$4,456     | \$0         | \$1,358,917  |
| 95756 | 17th St (Orange Ave to US 41)                              | ROW Acquisition          | \$0         | \$0         | \$0         | \$0         | \$0         | \$0         | \$0          |
| 95760 | Englewood Interstate Connector (South County Line to I-75) | New Road Construction    | \$1,717,402 | \$722,211   | \$342,349   | \$358,425   | \$34,995    | \$0         | \$3,175,382  |
| 95761 | Winchester Blvd - Ph. I (County Line to South River Rd)    | Lane Addition            | \$23,284    | \$0         | \$0         | \$0         | \$0         | \$0         | \$23,284     |
| 95765 | Proctor Rd - Ph. I (E. of Honore Ave to W. of Gantt Rd)    | Lane Addition            | \$3,715     | \$0         | \$0         | \$0         | \$0         | \$0         | \$3,715      |
| 95766 | Proctor Rd - Ph. II (E. McIntosh Rd to W. of Honore Ave)   | Lane Addition            | \$183,725   | \$138,661   | \$222,187   | \$312,053   | \$26,697    | \$0         | \$883,323    |
| 95770 | Webber St - Ph. I (Linwood Dr to Cattlemen Rd)             | New Road Construction    | \$183,221   | \$11,604    | \$1,721     | \$2,134     | \$0         | \$0         | \$198,680    |
| 95771 | McIntosh Rd - Ph. I (Sawyer Loop Rd to Proctor Rd)         | Lane Addition            | \$77,289    | \$92,872    | \$16,265    | \$24,787    | \$2,641     | \$0         | \$213,854    |
| 95772 | US 41 @ Jacaranda Blvd                                     | Intersection Improvement | \$106,961   | \$0         | \$0         | \$0         | \$0         | \$0         | \$106,961    |
| 95773 | Venice Ave @ Jacaranda Blvd                                | Intersection Improvement | \$18,947    | \$140,103   | \$3,679,458 | \$1,559,165 | \$1,198,173 | \$0         | \$6,595,846  |
| 95777 | Myrtle St - Ph. 1a (US 301 @ Railroad ROW)                 | New Road Construction    | \$92,525    | \$2,549     | \$0         | \$0         | \$0         | \$0         | \$95,074     |



**Table C-7 (continued)**  
**FY 2006-2015 Sarasota County Gas Tax Equivalent Expenditures**

| ID           | Description   | Improvement              | 2006                | 2007                | 2008               | 2009               | 2010               | 2011-2015           | Total               |
|--------------|---|--------------------------|---------------------|---------------------|--------------------|--------------------|--------------------|---------------------|---------------------|
| 95779        | Cattlemen Rd - Ph. III (N. of Colonial Oaks Blvd to S. of Bahia Vista St) | Lane Addition            | \$19,940            | \$0                 | \$0                | \$0                | \$0                | \$0                 | \$19,940            |
| 95781        | Bahia Vista St (McIntosh Rd to Cattlemen Rd)                              | Lane Addition            | \$1,739,685         | \$372,277           | \$390,995          | \$10,017           | \$570              | \$0                 | \$2,513,544         |
| 95782        | Center Rd - Ph. I (Jacaranda Blvd to Venice Middle School)                | Lane Addition            | \$1,297,429         | \$3,135,167         | \$473,911          | \$6,664            | \$343              | \$0                 | \$4,913,514         |
| 95785        | Future Projects - Surveys & Appraisals                                    | Land Acquisition         | \$31,186            | \$2,060             | \$3,903            | \$1,179            | \$55               | \$0                 | \$38,383            |
| 95786        | Honore Ave (SR 681 to Palmer Ranch Pkwy)                                  | New Road Construction    | \$0                 | \$0                 | \$0                | \$0                | \$0                | \$0                 | \$0                 |
| 95789        | Myrtle St - Ph. 1b (W. edge of RR ROW to Carmichael Ave)                  | Lane Addition            | \$226,733           | \$4,053             | \$0                | \$0                | \$0                | \$0                 | \$230,786           |
| 95798        | Honore Ave (Laurel Rd to SR 681)  | Lane Addition            | \$430,726           | \$503,136           | \$607,923          | \$13,885           | \$26,409           | \$860,000           | \$2,442,079         |
| 95799        | Myrtle St - Ph. III (Carmichael Ave to Booker Middle School)              | Lane Addition            | \$1,088             | \$0                 | \$0                | \$0                | \$0                | \$0                 | \$1,088             |
| 95803        | Border Rd (I-75 to Jacaranda Blvd)  | New Road Construction    | \$1,216,783         | \$437,576           | \$9,189            | \$28,440           | \$27,321           | \$0                 | \$1,719,309         |
| 95804        | Cattlemen Rd - Ph. II (Bahia Vista/Palmer/Packinghouse)                   | ROW Acquisition          | \$15,467            | \$28,755            | \$4,690            | \$597              | \$37               | \$0                 | \$49,546            |
| 95805        | Cattlemen Rd - Ph. V (S. of Packinghouse Rd to S. of Fruitville Rd)       | Lane Addition            | \$51,425            | \$23,143            | \$9,116            | \$26,343           | \$10,181           | \$0                 | \$120,208           |
| 95806        | Center Rd - Ph. II (Venice Middle School to River Rd)                     | Lane Addition            | \$3,015,751         | \$2,693,102         | \$449,434          | \$23,126           | \$799              | \$0                 | \$6,182,212         |
| 95812        | McIntosh Rd - Ph. II (Proctor Rd to S. of Bee Ridge)                      | Lane Addition            | \$497,394           | \$5,706,044         | \$1,782            | \$5,614            | \$5,402            | \$0                 | \$6,216,236         |
| 95816        | Venice Ave Left Turn Lanes  | Add Turn Lane(s)         | \$0                 | \$0                 | \$0                | \$0                | \$0                | \$0                 | \$0                 |
| 95818        | Center Rd (Jacaranda Blvd to Rockley Blvd)                                | Lane Addition            | \$17,441            | \$554               | \$0                | \$0                | \$0                | \$0                 | \$17,995            |
| PM601/95823  | Honore Ave (Clark Rd to Proctor Rd)                                       | ROW Acquisition          | \$213,010           | \$254,355           | \$82,353           | \$5,381            | \$227,041          | \$0                 | \$782,140           |
| 95827        | Laurel Rd / Knights Trail   | Intersection Improvement | \$0                 | \$0                 | \$239              | \$724,762          | \$0                | \$0                 | \$725,001           |
| 95872        | Cattlemen Rd - Ph. IV (Canal AA Culvert to N. of Colonial Oaks Blvd)      | Lane Addition            | \$22,242            | \$38,206            | \$0                | \$970              | \$0                | \$0                 | \$61,418            |
| 95876        | Desoto Rd (Harold St to North Cattlemen Rd)                               | ROW Acquisition          | \$41,312            | \$107,377           | \$17,082           | \$2,945,554        | \$3,703            | \$0                 | \$3,115,028         |
| <b>Total</b> |   |                          | <b>\$18,208,348</b> | <b>\$32,268,898</b> | <b>\$9,969,181</b> | <b>\$8,283,231</b> | <b>\$3,389,636</b> | <b>\$10,946,788</b> | <b>\$83,066,082</b> |

Source: Sarasota County



**Table C-8**  
**County Debt Service – CST Bond 2005B**

| Principal Payment Due:                       | Coupon | Principal Amount | Annual Interest | Annual Debt Service | Annual Debt Service (Present Value) | Principal Balance |
|--|--------|------------------|-----------------|---------------------|-------------------------------------|-------------------|
| 09/30/12                                     | 3.500% | \$540,000        | \$396,229       | \$936,229           | \$904,569                           | \$9,270,000       |
| 09/30/13                                     | 3.600% | \$560,000        | \$377,329       | \$937,329           | \$874,162                           | \$8,710,000       |
| 09/30/14                                     | 3.750% | \$580,000        | \$357,169       | \$937,169           | \$842,422                           | \$8,130,000       |
| 09/30/15                                     | 3.750% | \$605,000        | \$335,419       | \$940,419           | \$814,789                           | \$7,525,000       |
| 09/30/16                                     | 3.875% | \$625,000        | \$312,731       | \$937,731           | \$782,152                           | \$6,900,000       |
| 09/30/17                                     | 4.000% | \$650,000        | \$288,513       | \$938,513           | \$752,696                           | \$6,250,000       |
| 09/30/18                                     | 4.000% | \$675,000        | \$262,513       | \$937,513           | \$722,975                           | \$5,575,000       |
| 09/30/19                                     | 4.000% | \$705,000        | \$235,513       | \$940,513           | \$697,392                           | \$4,870,000       |
| 09/30/20                                     | 4.125% | \$730,000        | \$207,313       | \$937,313           | \$667,486                           | \$4,140,000       |
| 09/30/21                                     | 4.125% | \$760,000        | \$177,200       | \$937,200           | \$640,966                           | \$3,380,000       |
| 09/30/22                                     | 4.250% | \$795,000        | \$145,850       | \$940,850           | \$617,230                           | \$2,585,000       |
| 09/30/23                                     | 4.250% | \$825,000        | \$112,063       | \$937,063           | \$589,684                           | \$1,760,000       |
| 09/30/24                                     | 4.375% | \$860,000        | \$77,000        | \$937,000           | \$564,929                           | \$900,000         |
| 09/30/25                                     | 4.375% | \$900,000        | \$39,375        | \$939,375           | \$542,621                           | \$0               |
| <b>Total Debt Service Payments</b>           |        |                  |                 |                     | <b>\$10,014,073</b>                 |                   |
| <b>Total Bond Proceeds</b>                   |        |                  |                 |                     | <b>\$9,810,000</b>                  |                   |
| <b>Number of Years of Remaining Payments</b> |        |                  |                 |                     | <b>14</b>                           |                   |
| <b>Present Value of Annual Payment</b>       |        |                  |                 |                     | <b>\$715,291</b>                    |                   |

Source: Sarasota County





**Table C-9**  
**County Debt Service – CST Bond 2006**

| Principal Payment Due:                       | Coupon | Principal Amount | Annual Interest | Annual Debt Service | Annual Debt Service (Present Value) | Principal Balance |
|--|--------|------------------|-----------------|---------------------|-------------------------------------|-------------------|
| 09/30/12                                     | 4.000% | \$715,000        | \$639,625       | \$1,354,625         | \$1,302,524                         | \$13,915,000      |
| 09/30/13                                     | 4.000% | \$740,000        | \$611,025       | \$1,351,025         | \$1,249,099                         | \$13,175,000      |
| 09/30/14                                     | 4.000% | \$770,000        | \$581,425       | \$1,351,425         | \$1,201,412                         | \$12,405,000      |
| 09/30/15                                     | 5.000% | \$805,000        | \$550,625       | \$1,355,625         | \$1,147,758                         | \$11,600,000      |
| 09/30/16                                     | 5.000% | \$845,000        | \$510,375       | \$1,355,375         | \$1,092,901                         | \$10,755,000      |
| 09/30/17                                     | 4.125% | \$885,000        | \$468,125       | \$1,353,125         | \$1,047,862                         | \$9,870,000       |
| 09/30/18                                     | 4.200% | \$920,000        | \$431,619       | \$1,351,619         | \$1,004,507                         | \$8,950,000       |
| 09/30/19                                     | 4.250% | \$960,000        | \$392,979       | \$1,352,979         | \$964,525                           | \$7,990,000       |
| 09/30/20                                     | 4.250% | \$1,000,000      | \$352,179       | \$1,352,179         | \$924,657                           | \$6,990,000       |
| 09/30/21                                     | 4.300% | \$1,045,000      | \$309,679       | \$1,354,679         | \$888,175                           | \$5,945,000       |
| 09/30/22                                     | 4.375% | \$1,090,000      | \$264,744       | \$1,354,744         | \$850,987                           | \$4,855,000       |
| 09/30/23                                     | 4.375% | \$1,135,000      | \$217,056       | \$1,352,056         | \$813,699                           | \$3,720,000       |
| 09/30/24                                     | 4.500% | \$1,185,000      | \$167,400       | \$1,352,400         | \$778,858                           | \$2,535,000       |
| 09/30/25                                     | 4.500% | \$1,240,000      | \$114,075       | \$1,354,075         | \$746,241                           | \$1,295,000       |
| 09/30/26                                     | 4.500% | \$1,295,000      | \$58,275        | \$1,353,275         | \$713,685                           | \$0               |
| <b>Total Debt Service Payments</b>           |        |                  |                 |                     | <b>\$14,726,890</b>                 |                   |
| <b>Total Bond Proceeds</b>                   |        |                  |                 |                     | <b>\$14,630,000</b>                 |                   |
| <b>Number of Years of Remaining Payments</b> |        |                  |                 |                     | <b>15</b>                           |                   |
| <b>Present Value of Annual Payment</b>       |        |                  |                 |                     | <b>\$981,793</b>                    |                   |

Source: Sarasota County



**Table C-10**  
**County Debt Service – ELMS Bond 2005**

| Principal Payment Due:                       | Coupon | Principal Amount | Annual Interest | Annual Debt Service | Annual Debt Service (Present Value) | Principal Balance |
|--|--------|------------------|-----------------|---------------------|-------------------------------------|-------------------|
| 09/30/12                                     | 3.250% | \$635,000        | \$459,674       | \$1,094,674         | \$1,060,217                         | \$10,840,000      |
| 09/30/13                                     | 3.375% | \$655,000        | \$439,036       | \$1,094,036         | \$1,025,005                         | \$10,185,000      |
| 09/30/14                                     | 3.500% | \$680,000        | \$416,930       | \$1,096,930         | \$992,963                           | \$9,505,000       |
| 09/30/15                                     | 4.000% | \$705,000        | \$393,130       | \$1,098,130         | \$955,816                           | \$8,800,000       |
| 09/30/16                                     | 4.000% | \$730,000        | \$364,930       | \$1,094,930         | \$916,376                           | \$8,070,000       |
| 09/30/17                                     | 4.000% | \$760,000        | \$335,730       | \$1,095,730         | \$881,775                           | \$7,310,000       |
| 09/30/18                                     | 4.000% | \$790,000        | \$305,330       | \$1,095,330         | \$847,551                           | \$6,520,000       |
| 09/30/19                                     | 4.000% | \$825,000        | \$273,730       | \$1,098,730         | \$817,482                           | \$5,695,000       |
| 09/30/20                                     | 4.100% | \$855,000        | \$240,730       | \$1,095,730         | \$783,141                           | \$4,840,000       |
| 09/30/21                                     | 4.125% | \$890,000        | \$205,675       | \$1,095,675         | \$752,079                           | \$3,950,000       |
| 09/30/22                                     | 4.200% | \$930,000        | \$168,963       | \$1,098,963         | \$723,930                           | \$3,020,000       |
| 09/30/23                                     | 4.250% | \$965,000        | \$129,903       | \$1,094,903         | \$691,852                           | \$2,055,000       |
| 09/30/24                                     | 4.300% | \$1,005,000      | \$88,890        | \$1,093,890         | \$662,716                           | \$1,050,000       |
| 09/30/25                                     | 4.350% | \$1,050,000      | \$45,675        | \$1,095,675         | \$636,126                           | \$0               |
| <b>Total Debt Service Payments</b>           |        |                  |                 |                     | <b>\$11,747,029</b>                 |                   |
| <b>Total Bond Proceeds</b>                   |        |                  |                 |                     | <b>\$11,475,000</b>                 |                   |
| <b>Number of Years of Remaining Payments</b> |        |                  |                 |                     | <b>14</b>                           |                   |
| <b>Present Value of Annual Payment</b>       |        |                  |                 |                     | <b>\$839,074</b>                    |                   |

Source: Sarasota County



**Table C-11**  
**County Debt Service – Surtax Bond 2008A**

| Principal Payment Due:                        | Coupon | Principal Amount | Annual Interest | Annual Debt Service | Annual Debt Service (Present Value) | Principal Balance |
|---|--------|------------------|-----------------|---------------------|-------------------------------------|-------------------|
| 09/30/12                                      | 3.000% | \$4,005,000      | \$2,826,450     | \$6,831,450         | \$6,632,476                         | \$62,325,000      |
| 09/30/13                                      | 3.000% | \$4,125,000      | \$2,706,300     | \$6,831,300         | \$6,439,155                         | \$58,200,000      |
| 09/30/14                                      | 3.500% | \$4,250,000      | \$2,582,550     | \$6,832,550         | \$6,222,545                         | \$53,950,000      |
| 09/30/15                                      | 3.500% | \$4,395,000      | \$2,433,800     | \$6,828,800         | \$6,008,821                         | \$49,555,000      |
| 09/30/16                                      | 5.000% | \$4,550,000      | \$2,279,975     | \$6,829,975         | \$5,723,671                         | \$45,005,000      |
| 09/30/17                                      | 4.787% | \$4,780,000      | \$2,052,475     | \$6,832,475         | \$5,464,215                         | \$40,225,000      |
| 09/30/18                                      | 5.000% | \$5,010,000      | \$1,823,675     | \$6,833,675         | \$5,204,929                         | \$35,215,000      |
| 09/30/19                                      | 4.565% | \$5,260,000      | \$1,573,175     | \$6,833,175         | \$4,977,350                         | \$29,955,000      |
| 09/30/20                                      | 4.039% | \$5,500,000      | \$1,333,075     | \$6,833,075         | \$4,784,055                         | \$24,455,000      |
| 09/30/21                                      | 4.160% | \$5,720,000      | \$1,110,938     | \$6,830,938         | \$4,591,557                         | \$18,735,000      |
| 09/30/22                                      | 4.634% | \$5,960,000      | \$872,994       | \$6,832,994         | \$4,389,527                         | \$12,775,000      |
| 09/30/23                                      | 4.942% | \$6,235,000      | \$596,806       | \$6,831,806         | \$4,182,091                         | \$6,540,000       |
| 09/30/24                                      | 4.414% | \$6,540,000      | \$288,681       | \$6,828,681         | \$4,003,462                         | \$0               |
| <b>Total Debt Service Payments</b>            |        |                  |                 |                     | <b>\$68,623,854</b>                 |                   |
| <b>Total Bond Proceeds</b>                    |        |                  |                 |                     | <b>\$66,330,000</b>                 |                   |
| <b>Number of Years of Remaining Payments</b>  |        |                  |                 |                     | <b>13</b>                           |                   |
| <b>Present Value of Annual Payment</b>        |        |                  |                 |                     | <b>\$5,278,758</b>                  |                   |
| <b>Total Debt Service Payments (Adjusted)</b> |        |                  |                 |                     | <b>\$63,133,946</b>                 |                   |

Source: Sarasota County



**Table C-12**  
**County Debt Service – Surtax Bond 2008B**

| Principal Payment Due:                        | Coupon | Principal Amount | Annual Interest | Annual Debt Service | Annual Debt Service (Present Value) | Principal Balance |
|---|--------|------------------|-----------------|---------------------|-------------------------------------|-------------------|
| 09/30/12                                      | 5.000% | \$3,595,000      | \$3,285,293     | \$6,880,293         | \$6,552,660                         | \$59,550,000      |
| 09/30/13                                      | 4.467% | \$3,770,000      | \$3,105,543     | \$6,875,543         | \$6,268,150                         | \$55,780,000      |
| 09/30/14                                      | 5.000% | \$3,940,000      | \$2,937,144     | \$6,877,144         | \$5,971,057                         | \$51,840,000      |
| 09/30/15                                      | 4.341% | \$4,140,000      | \$2,740,144     | \$6,880,144         | \$5,725,156                         | \$47,700,000      |
| 09/30/16                                      | 4.503% | \$4,320,000      | \$2,560,443     | \$6,880,443         | \$5,478,704                         | \$43,380,000      |
| 09/30/17                                      | 4.926% | \$4,510,000      | \$2,365,918     | \$6,875,918         | \$5,218,040                         | \$38,870,000      |
| 09/30/18                                      | 5.000% | \$4,735,000      | \$2,143,738     | \$6,878,738         | \$4,971,599                         | \$34,135,000      |
| 09/30/19                                      | 5.250% | \$4,965,000      | \$1,906,988     | \$6,871,988         | \$4,718,974                         | \$29,170,000      |
| 09/30/20                                      | 5.250% | \$5,230,000      | \$1,646,325     | \$6,876,325         | \$4,486,416                         | \$23,940,000      |
| 09/30/21                                      | 5.500% | \$5,505,000      | \$1,371,750     | \$6,876,750         | \$4,252,790                         | \$18,435,000      |
| 09/30/22                                      | 5.625% | \$5,810,000      | \$1,068,975     | \$6,878,975         | \$4,027,613                         | \$12,625,000      |
| 09/30/23                                      | 5.750% | \$6,135,000      | \$742,163       | \$6,877,163         | \$3,807,614                         | \$6,490,000       |
| 09/30/24                                      | 6.000% | \$6,490,000      | \$389,400       | \$6,879,400         | \$3,593,257                         | \$0               |
| <b>Total Debt Service Payments</b>            |        |                  |                 |                     | <b>\$65,072,030</b>                 |                   |
| <b>Total Bond Proceeds</b>                    |        |                  |                 |                     | <b>\$63,145,000</b>                 |                   |
| <b>Number of Years of Remaining Payments</b>  |        |                  |                 |                     | <b>13</b>                           |                   |
| <b>Present Value of Annual Payment</b>        |        |                  |                 |                     | <b>\$5,005,541</b>                  |                   |
| <b>Total Debt Service Payments (Adjusted)</b> |        |                  |                 |                     | <b>\$59,866,268</b>                 |                   |

Source: Sarasota County



**Table C-13**  
**FY 2002-2016 FDOT Work Program – Sarasota County Capacity Expansion Projects**

| ID       | Description   | Improvement                          | 2002         | 2003        | 2004        | 2005         | 2006        | 2007        | 2008         | 2009         | 2010        | 2011        | 2012         | 2013      | 2014      | 2015         | 2016        | Total        |
|----------|---|--------------------------------------|--------------|-------------|-------------|--------------|-------------|-------------|--------------|--------------|-------------|-------------|--------------|-----------|-----------|--------------|-------------|--------------|
| 197898-2 | SR 758 (Midnight Pass from SR 72 to E. of Shadowlawn Way)       | Widen/Resurface Existing Lanes       | \$7,620      | \$25,652    | \$1,169,683 | \$47,975     | \$399       | \$0         | \$0          | \$0          | \$0         | \$0         | \$0          | \$0       | \$0       | \$0          | \$0         | \$1,251,329  |
| 197925-1 | SR 72 (Big Slough Canal to Desoto County Line)                  | Widen/Resurface Existing Lanes       | \$11,509     | \$0         | \$0         | \$0          | \$0         | \$0         | \$0          | \$0          | \$0         | \$0         | \$0          | \$0       | \$0       | \$0          | \$0         | \$11,509     |
| 197948-1 | SR 776 (N. of Dearborn St to N. of Keyway Rd)                   | Add Lanes & Reconstruct              | \$140,964    | \$3,956     | \$1,886     | \$110,326    | \$0         | \$0         | \$0          | \$0          | \$0         | \$0         | \$0          | \$0       | \$0       | \$0          | \$0         | \$257,132    |
| 197978-1 | Sarasota County Countywide Retiming                             | Traffic Control Devices/System       | \$7,856      | \$4,802     | \$0         | \$0          | \$0         | \$0         | \$0          | \$0          | \$0         | \$0         | \$0          | \$0       | \$0       | \$0          | \$0         | \$12,658     |
| 197988-1 | US 41 (Venice Conn. (SR 681) to Oscar Scherer Pk Ent.)          | Add Lanes & Reconstruct              | \$21         | \$0         | \$0         | \$125        | \$0         | \$35        | \$195        | \$0          | \$0         | \$0         | \$0          | \$0       | \$0       | \$0          | \$0         | \$376        |
| 198004-2 | US 301 @ University Pkwy  | Preliminary Engineering              | \$0          | \$825,000   | \$0         | \$0          | \$0         | \$0         | \$0          | \$0          | \$0         | \$0         | \$0          | \$0       | \$0       | \$0          | \$0         | \$825,000    |
| 198005-1 | US 41 Bus (Palermo Pl to US 41 Bus (Bypass N))                  | New Road Construction                | \$1,193,913  | \$1,483,948 | \$1,511,291 | \$2,216,689  | \$38,152    | \$31        | \$0          | \$0          | \$0         | \$0         | \$0          | \$0       | \$0       | \$0          | \$0         | \$6,444,024  |
| 198010-1 | US 301 (Wood St to S. of University Pkwy)                       | Preliminary Eng. for Future Capacity | \$1,989,327  | \$959,955   | \$28,308    | \$658,686    | \$2,332,124 | \$605,982   | \$3,070,159  | \$2,165,874  | \$8,489     | \$0         | \$0          | \$0       | \$0       | \$0          | \$0         | \$11,818,904 |
| 198010-4 | US 301 (Myrtle St to Desoto Rd)                                 | Add Lanes & Reconstruct              | \$0          | \$0         | \$0         | \$0          | \$0         | \$0         | \$18,026,168 | \$10,170,091 | \$2,333,140 | \$0         | \$0          | \$0       | \$0       | \$0          | \$0         | \$30,529,399 |
| 198017-2 | US 41 Venice Bypass (Center Rd to S. of US 41 Bus N.)           | Preliminary Eng. for Future Capacity | \$0          | \$0         | \$0         | \$3,148,609  | \$14,357    | \$22,660    | \$51,598     | \$9,180      | \$678,872   | \$1,154,802 | \$21,000     | \$0       | \$0       | \$0          | \$0         | \$5,101,078  |
| 198017-4 | US 41 (Venice Bypass) (Gulf Coast Blvd to Albee Farm Rd)        | Right-of-Way for Future Capacity     | \$0          | \$0         | \$0         | \$0          | \$0         | \$0         | \$0          | \$0          | \$0         | \$0         | \$28,690,650 | \$0       | \$0       | \$10,215,675 | \$0         | \$38,906,325 |
| 198017-5 | US 41 (Venice Bypass) (Albee Farm Rd to Bird Bay Dr)            | Add Lanes & Reconstruct              | \$0          | \$0         | \$0         | \$0          | \$0         | \$0         | \$0          | \$0          | \$0         | \$0         | \$7,256,350  | \$0       | \$0       | \$0          | \$7,664,955 | \$14,921,305 |
| 198018-1 | US 41 (US 41 Bus (SR 45A) to Venice Conn. (SR 681))             | Add Lanes & Reconstruct              | \$392,977    | \$2,073,613 | \$99,594    | \$29,608,146 | \$760,134   | \$697,711   | \$3,735,616  | \$2,162,529  | \$290,325   | \$103,620   | \$0          | \$0       | \$0       | \$0          | \$0         | \$39,924,265 |
| 198026-1 | US 41 Bus (Shamrock Blvd to Palermo Pl)                         | Add Lanes & Reconstruct              | \$15,933,937 | \$1,323,957 | \$1,131,872 | \$1,513,064  | \$270,915   | \$1,440     | \$0          | \$0          | \$0         | \$0         | \$0          | \$0       | \$0       | \$0          | \$0         | \$20,175,185 |
| 198040-1 | US 301 (SR 55) (Wood St to S. of University Pkwy)               | PD&E/EMO Study                       | \$86,291     | \$10,800    | \$10,118    | \$642        | \$0         | \$0         | \$0          | \$0          | \$0         | \$0         | \$0          | \$0       | \$0       | \$0          | \$0         | \$107,851    |
| 200610-1 | Englewood/Int/Conn. (Charlotte County Line to I-75)             | PD&E/EMO Study                       | \$22,562     | \$24,230    | \$29,930    | \$8,254      | \$0         | \$0         | \$0          | \$0          | \$0         | \$0         | \$0          | \$0       | \$0       | \$0          | \$0         | \$84,976     |
| 200610-3 | Englewood/Int/Conn. (Center Rd to I-75)                         | Preliminary Eng. for Future Capacity | \$0          | \$0         | \$2,428,730 | \$1,000,000  | \$0         | \$318       | \$499,673    | \$371,268    | \$427,214   | \$0         | \$0          | \$0       | \$0       | \$0          | \$0         | \$4,727,203  |
| 200610-5 | Englewood/Int/Conn. (S. of Venice Ave to N. of Center Rd)       | Right-of-Way for Future Capacity     | \$0          | \$0         | \$0         | \$0          | \$0         | \$0         | \$0          | \$2,729,181  | \$100       | \$0         | \$0          | \$0       | \$0       | \$0          | \$0         | \$2,729,281  |
| 200617-1 | Dearborn St (W. of Pine St to SR 776)                           | Add Lanes & Reconstruct              | \$0          | \$0         | \$1,027     | \$2,174      | \$4,811,821 | \$3,575,000 | \$0          | \$0          | \$0         | \$0         | \$0          | \$0       | \$0       | \$0          | \$0         | \$8,390,022  |
| 405137-1 | US 41 (Tamiami Tr) @ Osprey Ave                                 | Add Turn Lane(s)                     | \$0          | \$0         | \$0         | \$0          | \$268,784   | \$0         | \$0          | \$0          | \$0         | \$0         | \$0          | \$0       | \$0       | \$0          | \$0         | \$268,784    |
| 408473-1 | SR 758 (Siesta Dr) @ Osprey Ave                                 | Add Right Turn Lane(s)               | \$5,344      | \$344,702   | \$86,590    | \$0          | \$0         | \$0         | \$0          | \$0          | \$0         | \$0         | \$0          | \$0       | \$0       | \$0          | \$0         | \$436,636    |
| 409157-1 | US 41 (SR 45) @ Bispham Rd                                      | Add Right Turn Lane(s)               | \$97,570     | \$0         | \$0         | \$0          | \$0         | \$0         | \$0          | \$0          | \$0         | \$0         | \$0          | \$0       | \$0       | \$0          | \$0         | \$97,570     |
| 409159-2 | US 41 (SR 45) @ South Venice Ave                                | Add Left Turn Lane(s)                | \$67,490     | \$7,734     | \$0         | \$0          | \$0         | \$0         | \$0          | \$0          | \$0         | \$0         | \$0          | \$0       | \$0       | \$0          | \$0         | \$75,224     |
| 410016-1 | US 41 @ Jacaranda Blvd  | Intersection (Major)                 | \$312,806    | \$0         | \$0         | \$0          | \$0         | \$0         | \$0          | \$0          | \$0         | \$0         | \$0          | \$0       | \$0       | \$0          | \$0         | \$312,806    |
| 410201-1 | Cattleman Rd (S. of Bahia Vista St to N. of Colonial Oaks Blvd) | New Road Construction                | \$572,595    | \$0         | \$0         | \$0          | \$0         | \$0         | \$0          | \$0          | \$0         | \$0         | \$0          | \$0       | \$0       | \$0          | \$0         | \$572,595    |
| 411738-1 | US 41 (SR 45 Tamiami) @ 10th St                                 | Add Left Turn Lane(s)                | \$0          | \$16,066    | \$93,874    | \$551,019    | \$26,009    | \$2,727     | \$442        | \$0          | \$0         | \$0         | \$0          | \$0       | \$0       | \$0          | \$0         | \$690,137    |
| 411779-1 | US 41 (Tamiami Tr) @ SR 780 (Fruitville Rd)                     | Add Left Turn Lane(s)                | \$717        | \$270       | \$181       | \$0          | \$0         | \$0         | \$0          | \$0          | \$0         | \$0         | \$0          | \$0       | \$0       | \$0          | \$0         | \$1,168      |
| 411951-1 | SR 780 (Fruitville Rd) @ Beneva Rd                              | Add Turn Lane(s)                     | \$0          | \$0         | \$17,492    | \$611,692    | \$10,708    | \$0         | \$0          | \$0          | \$0         | \$0         | \$0          | \$0       | \$0       | \$0          | \$0         | \$639,892    |
| 412676-1 | Sarasota County Traffic Signals Reimbursement                   | Traffic Signals                      | \$0          | \$27,122    | \$83,803    | \$117,178    | \$120,700   | \$123,536   | \$126,648    | \$130,447    | \$133,028   | \$137,327   | \$145,000    | \$150,000 | \$156,000 | \$160,000    | \$167,000   | \$1,777,789  |
| 413657-1 | Longboat Key Traffic Signals Reimbursement                      | Traffic Signals                      | \$0          | \$518       | \$2,142     | \$2,942      | \$3,031     | \$3,122     | \$3,216      | \$3,312      | \$2,970     | \$3,059     | \$6,000      | \$6,000   | \$7,000   | \$7,000      | \$7,000     | \$57,312     |
| 413658-1 | North Port Traffic Signals Reimbursement                        | Traffic Signals                      | \$0          | \$1,036     | \$3,997     | \$5,490      | \$5,655     | \$6,990     | \$8,016      | \$7,836      | \$8,062     | \$9,614     | \$12,000     | \$12,000  | \$12,000  | \$13,000     | \$13,000    | \$118,696    |
| 413659-1 | Sarasota City Traffic Signals Reimbursement                     | Traffic Signals                      | \$0          | \$9,842     | \$30,381    | \$41,724     | \$44,109    | \$45,435    | \$48,000     | \$49,440     | \$51,556    | \$53,423    | \$58,000     | \$60,000  | \$62,000  | \$64,000     | \$66,000    | \$683,910    |
| 413660-1 | Venice Traffic Signals Reimbursement                            | Traffic Signals                      | \$0          | \$2,072     | \$6,396     | \$9,882      | \$10,179    | \$10,485    | \$10,800     | \$11,124     | \$11,457    | \$11,799    | \$14,000     | \$14,000  | \$15,000  | \$15,000     | \$16,000    | \$158,194    |
| 414742-1 | US 41 @ Salford Blvd  | Traffic Signals                      | \$0          | \$123,638   | \$218,747   | \$15,052     | \$0         | \$0         | \$0          | \$0          | \$0         | \$0         | \$0          | \$0       | \$0       | \$0          | \$0         | \$357,437    |
| 416085-1 | SR 758 (Bee Ridge Rd) (Beneva Rd to Cattleman Rd)               | Traffic Control Devices/System       | \$0          | \$0         | \$0         | \$0          | \$500,000   | \$0         | \$0          | \$0          | \$0         | \$0         | \$0          | \$0       | \$0       | \$0          | \$0         | \$500,000    |
| 416116-1 | Bahia Vista @ US 41 (SR 45)                                     | Intersection Improvement             | \$0          | \$0         | \$0         | \$0          | \$766       | \$227       | \$109,739    | \$35,304     | \$0         | \$0         | \$0          | \$0       | \$0       | \$0          | \$0         | \$146,036    |
| 416118-1 | SR 789 (Gulf Stream) (US 41 to E. of Sunset St)                 | Traffic Ops Improvement              | \$0          | \$0         | \$0         | \$1,447      | \$14,276    | \$624,951   | \$61,252     | \$6,014      | \$0         | \$0         | \$0          | \$0       | \$0       | \$0          | \$0         | \$707,940    |
| 417071-1 | University Pkwy @ US 301  | Intersection (Minor)                 | \$0          | \$0         | \$0         | \$4,200,000  | \$0         | \$0         | \$0          | \$0          | \$0         | \$0         | \$0          | \$0       | \$0       | \$0          | \$0         | \$4,200,000  |
| 417577-1 | US 41 @ Main St   | Add Left Turn Lane(s)                | \$0          | \$0         | \$0         | \$0          | \$95,273    | \$706,975   | \$96,392     | \$27,293     | \$0         | \$0         | \$0          | \$0       | \$0       | \$0          | \$0         | \$925,933    |
| 420877-1 | West Price Blvd @ Cranberry Blvd                                | Add Turn Lane(s)                     | \$0          | \$0         | \$0         | \$0          | \$0         | \$0         | \$0          | \$711,355    | \$0         | \$0         | \$0          | \$0       | \$0       | \$0          | \$0         | \$711,355    |
| 420974-2 | Automated Traffic Management System                             | Traffic Control Devices/System       | \$0          | \$0         | \$0         | \$0          | \$0         | \$7,500,000 | \$0          | \$0          | \$0         | \$0         | \$0          | \$0       | \$0       | \$0          | \$0         | \$7,500,000  |
| 420974-3 | Sarasota ATMs Ph. III   | ATMs - Arterial Traffic Management   | \$0          | \$0         | \$0         | \$0          | \$0         | \$0         | \$0          | \$0          | \$0         | \$0         | \$471,609    | \$0       | \$0       | \$0          | \$0         | \$471,609    |
| 420980-1 | Sumter Blvd (US 41 to Heron Creek Blvd)                         | Add Lanes & Reconstruct              | \$0          | \$0         | \$0         | \$0          | \$6,400,000 | \$0         | \$0          | \$0          | \$0         | \$0         | \$0          | \$0       | \$0       | \$0          | \$0         | \$6,400,000  |
| 422623-1 | Ringling Blvd @ Palm Ave  | Intersection Improvement             | \$0          | \$0         | \$0         | \$0          | \$0         | \$0         | \$0          | \$0          | \$727,720   | \$0         | \$0          | \$0       | \$0       | \$0          | \$0         | \$727,720    |
| 422710-5 | US 41 (SR 45) (Charlotte County Line to Sumter Blvd)            | Preliminary Eng. for Future Capacity | \$0          | \$0         | \$0         | \$0          | \$0         | \$0         | \$0          | \$0          | \$0         | \$75,000    | \$0          | \$0       | \$0       | \$0          | \$0         | \$75,000     |



**Table C-13 (continued)**  
**FY 2002-2016 FDOT Work Program – Sarasota County Capacity Expansion Projects**

| ID       | Description  | Improvement                    | 2002                | 2003               | 2004               | 2005                | 2006                | 2007                | 2008               | 2009                | 2010                | 2011                | 2012                | 2013               | 2014               | 2015                | 2016                | Total                |
|----------|--|--------------------------------|---------------------|--------------------|--------------------|---------------------|---------------------|---------------------|--------------------|---------------------|---------------------|---------------------|---------------------|--------------------|--------------------|---------------------|---------------------|----------------------|
| 423129-1 | University Pkwy @ West of I-75                               | Traffic Ops Improvement        | \$0                 | \$0                | \$0                | \$0                 | \$0                 | \$0                 | \$220,469          | \$19,780            | \$0                 | \$0                 | \$0                 | \$0                | \$0                | \$0                 | \$0                 | \$240,249            |
| 423148-1 | US 41 (Tamiami Tr) (Venitian Bay Blvd to Eagle Point Circle) | Traffic Control Devices/System | \$0                 | \$0                | \$0                | \$0                 | \$0                 | \$0                 | \$255              | \$0                 | \$0                 | \$0                 | \$0                 | \$0                | \$0                | \$0                 | \$0                 | \$255                |
| 423274-1 | US 41 @ South Biscayne Dr                                    | Intersection Improvement       | \$0                 | \$0                | \$0                | \$0                 | \$0                 | \$0                 | \$0                | \$0                 | \$43,567            | \$2,578             | \$0                 | \$0                | \$0                | \$0                 | \$0                 | \$46,145             |
| 423527-1 | Brentwood Area   | Traffic Ops Improvement        | \$0                 | \$0                | \$0                | \$0                 | \$0                 | \$0                 | \$27,939           | \$253,312           | \$0                 | \$1                 | \$0                 | \$0                | \$0                | \$0                 | \$0                 | \$281,252            |
| 423667-1 | SR 789 (Gulfstream) from W. of Sunset to W. of US 41         | Add Right Turn Lane(s)         | \$0                 | \$0                | \$0                | \$0                 | \$0                 | \$0                 | \$0                | \$0                 | \$192               | \$0                 | \$0                 | \$0                | \$0                | \$0                 | \$0                 | \$192                |
| 424724-1 | SR 72 @ Proctor Rd   | Intersection Improvement       | \$0                 | \$0                | \$0                | \$0                 | \$0                 | \$0                 | \$0                | \$0                 | \$112,773           | \$458,079           | \$0                 | \$0                | \$0                | \$0                 | \$0                 | \$570,852            |
| 425733-1 | 17th St @ US 301   | Add Right Turn Lane(s)         | \$0                 | \$0                | \$0                | \$0                 | \$0                 | \$0                 | \$0                | \$0                 | \$62,479            | \$8,659             | \$0                 | \$0                | \$0                | \$0                 | \$0                 | \$71,138             |
| 426765-1 | Venice Ave @ Harbor Dr                                       | Intersection Improvement       | \$0                 | \$0                | \$0                | \$0                 | \$0                 | \$0                 | \$0                | \$332,747           | \$3,051             | \$0                 | \$0                 | \$0                | \$0                | \$0                 | \$0                 | \$335,798            |
| 427939-1 | US 41 @ Sumter Blvd  | Add Right Turn Lane(s)         | \$0                 | \$0                | \$0                | \$0                 | \$0                 | \$0                 | \$0                | \$0                 | \$0                 | \$0                 | \$208,238           | \$0                | \$0                | \$0                 | \$0                 | \$208,238            |
| 427940-1 | Price Blvd @ Haberland Blvd                                  | Intersection Improvement       | \$0                 | \$0                | \$0                | \$0                 | \$0                 | \$0                 | \$0                | \$0                 | \$0                 | \$0                 | \$0                 | \$1,199,824        | \$0                | \$0                 | \$0                 | \$1,199,824          |
| 428150-1 | Honore Ave @ Richardsoun Rd                                  | Intersection Improvement       | \$0                 | \$0                | \$0                | \$0                 | \$0                 | \$0                 | \$0                | \$0                 | \$0                 | \$0                 | \$0                 | \$0                | \$1,831,994        | \$0                 | \$0                 | \$1,831,994          |
| 428236-1 | Cattlemen Rd (Richardson Rd to Desoto Rd)                    | New Road Construction          | \$0                 | \$0                | \$0                | \$0                 | \$0                 | \$0                 | \$0                | \$0                 | \$0                 | \$13,982,620        | \$0                 | \$0                | \$0                | \$0                 | \$0                 | \$13,982,620         |
| 428383-1 | US 41 (10th St to 14th St)                                   | Intersection Improvement       | \$0                 | \$0                | \$0                | \$0                 | \$0                 | \$0                 | \$0                | \$0                 | \$0                 | \$799,998           | \$0                 | \$468,125          | \$0                | \$0                 | \$1,933,476         | \$3,201,599          |
| 428383-1 | US 41 (10th St to 14th St)                                   | Intersection Improvement       | \$0                 | \$0                | \$0                | \$0                 | \$0                 | \$0                 | \$0                | \$0                 | \$0                 | \$0                 | \$0                 | \$0                | \$0                | \$0                 | \$0                 | \$0                  |
| 428940-1 | Honore Ave Ext. (Laurel Rd to N. of Fox Creek)               | New Road Construction          | \$0                 | \$0                | \$0                | \$0                 | \$0                 | \$0                 | \$0                | \$0                 | \$0                 | \$0                 | \$0                 | \$0                | \$6,000,000        | \$0                 | \$0                 | \$6,000,000          |
| 429775-1 | US 41 / SR 45 (S. of Bee Ridge Rd to S. of Siesta Dr)        | Intersection Improvement       | \$0                 | \$0                | \$0                | \$0                 | \$0                 | \$0                 | \$0                | \$0                 | \$0                 | \$907,716           | \$0                 | \$0                | \$0                | \$0                 | \$0                 | \$907,716            |
| 429778-1 | SR 72 @ Gantt Rd   | Intersection Improvement       | \$0                 | \$0                | \$0                | \$0                 | \$0                 | \$0                 | \$0                | \$0                 | \$0                 | \$551,070           | \$0                 | \$0                | \$0                | \$0                 | \$0                 | \$551,070            |
| 429872-1 | Biscayne Dr @ US 41  | Intersection Improvement       | \$0                 | \$0                | \$0                | \$0                 | \$0                 | \$0                 | \$0                | \$0                 | \$0                 | \$0                 | \$0                 | \$0                | \$574,334          | \$0                 | \$0                 | \$574,334            |
| 430042-1 | Honore Ave @ SR 758 (Bee Ridge)                              | Intersection Improvement       | \$0                 | \$0                | \$0                | \$0                 | \$0                 | \$0                 | \$0                | \$0                 | \$0                 | \$0                 | \$0                 | \$0                | \$0                | \$0                 | \$926,388           | \$926,388            |
|          | <b>Total</b>   |                                | <b>\$20,843,499</b> | <b>\$7,268,913</b> | <b>\$6,956,042</b> | <b>\$43,871,116</b> | <b>\$15,727,392</b> | <b>\$13,927,625</b> | <b>\$8,070,409</b> | <b>\$27,052,164</b> | <b>\$12,731,946</b> | <b>\$20,592,505</b> | <b>\$36,882,847</b> | <b>\$1,909,949</b> | <b>\$8,658,328</b> | <b>\$10,474,675</b> | <b>\$10,793,819</b> | <b>\$245,761,229</b> |

Source: Florida Department of Transportation, District 1 Office



**Table C-14**  
**Average Motor Vehicle Fuel Efficiency – Excluding Interstate Travel**

| Travel                          |                          |                        |                          |
|---------------------------------|--------------------------|------------------------|--------------------------|
| Vehicle Miles of Travel (VMT) @ |                          |                        |                          |
|                                 | 21.7                     | 6.5                    |                          |
| Other Arterial Rural            | 318,561,000,000          | 48,549,000,000         | 367,110,000,000          |
| Other Rural                     | 324,384,000,000          | 35,494,000,000         | 359,878,000,000          |
| Other Urban                     | 1,383,890,000,000        | 98,204,000,000         | 1,482,094,000,000        |
| <b>Total</b>                    | <b>2,026,835,000,000</b> | <b>182,247,000,000</b> | <b>2,209,082,000,000</b> |

| Percent VMT |           |
|-------------|-----------|
| @ 21.7 mpg  | @ 6.5 mpg |
| 87%         | 13%       |
| 90%         | 10%       |
| 93%         | 7%        |
| 92%         | 8%        |

| Fuel Consumed        |                       |                       |                        |
|----------------------|-----------------------|-----------------------|------------------------|
|                      | Gallons @ 21.7 mpg    | Gallons @ 6.5 mpg     |                        |
| Other Arterial Rural | 14,680,230,415        | 7,469,076,923         | 22,149,307,338         |
| Other Rural          | 14,948,571,429        | 5,460,615,385         | 20,409,186,814         |
| Other Urban          | 63,773,732,719        | 15,108,307,692        | 78,882,040,411         |
| <b>Total</b>         | <b>93,402,534,563</b> | <b>28,038,000,000</b> | <b>121,440,534,563</b> |

| Total Mileage and Fuel |                    |
|------------------------|--------------------|
| 2,209,082              | miles (millions)   |
| 121,441                | gallons (millions) |
| 18.19                  | mpg                |

Source: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics 2009*, Section V, Table VM-1  
 Annual Vehicle Distance Traveled in Miles and Related Data - 2009 by Highway Category and Vehicle Type  
<http://www.fhwa.dot.gov/policyinformation/statistics.cfm>



**Table C-15**  
**Annual Vehicle Distance Traveled in Miles and Related Data – By Highway Category and Vehicle Type<sup>1/</sup>**

| April 2011 |  |                                 |              |           |                                |                       |                    | TABLE VM-1            |   |                    |
|------------|--|---------------------------------|--------------|-----------|--------------------------------|-----------------------|--------------------|-----------------------|---|--------------------|
| YEAR       | ITEM   | LIGHT DUTY VEHICLES SHORT WB 2/ | MOTOR-CYCLES | BUSES     | LIGHT DUTY VEHICLES LONG WB 2/ | SINGLE-UNIT TRUCKS 3/ | COMBINATION TRUCKS | SUBTOTALS             |   | ALL MOTOR VEHICLES |
|            |  |                                 |              |           |                                |                       |                    | ALL LIGHT VEHICLES 2/ | SINGLE-UNIT 2-AXLE 6-TIRE OR MORE AND COMBINATION |                    |
| 2009       | Motor-Vehicle Travel: (millions of vehicle-miles)  |                                 |              |           |                                |                       |                    |                       |   |                    |
|            | Interstate Rural                                   | 139,621                         | 1,480        | 1,601     | 42,002                         | 10,991                | 46,178             | 181,622               | 57,169  | 241,873            |
| 2009       | Other Arterial Rural                               | 229,367                         | 3,295        | 2,063     | 89,194                         | 19,364                | 29,185             | 318,561               | 48,549  | 372,468            |
| 2009       | Other Rural  | 226,498                         | 3,502        | 2,506     | 97,887                         | 19,173                | 16,322             | 324,384               | 35,494  | 365,886            |
| 2009       | All Rural  | 595,485                         | 8,277        | 6,170     | 229,082                        | 49,528                | 91,684             | 824,567               | 141,212   | 980,227            |
| 2009       | Interstate Urban                                   | 334,765                         | 2,323        | 2,170     | 87,116                         | 15,649                | 32,940             | 421,881               | 48,589  | 474,963            |
| 2009       | Other Urban  | 1,083,185                       | 10,201       | 6,017     | 300,705                        | 54,986                | 43,218             | 1,383,890             | 98,204  | 1,498,311          |
| 2009       | All Urban  | 1,417,950                       | 12,523       | 8,187     | 387,821                        | 70,635                | 76,158             | 1,805,771             | 146,793   | 1,973,274          |
| 2009       | Total Rural and Urban                              | 2,013,436                       | 20,800       | 14,358    | 616,903                        | 120,163               | 167,842            | 2,630,338             | 288,005   | 2,953,501          |
| 2009       | Number of motor vehicles registered 2/             | 193,979,654                     | 7,929,724    | 841,993   | 40,488,025                     | 8,356,097             | 2,617,118          | 234,467,679           | 10,973,214  | 254,212,610        |
| 2009       | Average miles traveled per vehicle                 | 10,380                          | 2,623        | 17,052    | 15,237                         | 14,380                | 64,132             | 11,218                | 26,246  | 11,618             |
| 2009       | Person-miles of travel 4/ (millions)               | 2,797,438                       | 22,404       | 304,386   | 824,151                        | 120,163               | 167,842            | 3,621,589             | 288,005   | 4,236,384          |
| 2009       | Fuel consumed (thousand gallons)                   | 85,560,236                      | 474,909      | 1,868,792 | 35,763,797                     | 16,342,208            | 28,130,088         | 121,324,034           | 44,472,296  | 168,140,031        |
| 2009       | Average fuel consumption per vehicle (gallons)     | 441                             | 60           | 2,219     | 883                            | 1,956                 | 10,748             | 517                   | 4,053   | 661                |
| 2009       | Average miles traveled per gallon of fuel consumed | 23.8                            | 43.2         | 7.2       | 17.4                           | 7.4                   | 6.0                | 21.7                  | 6.5   | 17.6               |

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-9, 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 is used to provide timely indicators on both travel and travel behavior changes.

2/ Light Duty Vehicles Short WB - passenger cars, light trucks, vans and sport utility vehicles with a wheelbase (WB) equal to or less than 121 inches. Light Duty Vehicles Long WB - large passenger 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 wheelbase.

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 D**

### **Calculated Transportation Impact Fee Schedule**

**Table D-1  
Calculated Transportation Impact Fee Schedule**

| Gasoline Tax                      |  | City Revenues:           |           | Unit Construction Cost:            |                        | Interstate Adjustment Factor: |                         |             |                      |                        |                   |                |                |                |  |                               |                    |                            |
|-----------------------------------|--|--------------------------|-----------|------------------------------------|------------------------|-------------------------------|-------------------------|-------------|----------------------|------------------------|-------------------|----------------|----------------|----------------|--|-------------------------------|--------------------|----------------------------|
| \$ per gallon to capital: \$0.254 |  | \$0.006                  |           | \$3,520,880                        |                        | 27.4%                         |                         |             |                      |                        |                   |                |                |                |  |                               |                    |                            |
| Facility life (years): 25         |  | County Revenues: \$0.138 |           | Capacity per lane mile: 8,633      |                        | Cost per VMC: \$407.84        |                         |             |                      |                        |                   |                |                |                |  |                               |                    |                            |
| Interest rate: 3.0%               |  | State Revenues: \$0.110  |           | Fuel Efficiency: 18.19 mpg         |                        |                               |                         |             |                      |                        |                   |                |                |                |  |                               |                    |                            |
|                                   |  |                          |           | Effectivedays per year: 365        |                        |                               |                         |             |                      |                        |                   |                |                |                |  |                               |                    |                            |
| ITE LUC                           | Land Use   | Unit                     | Trip Rate | Trip Rate Source                   | Assessable Trip Length | Total Trip Length             | Trip Length Source      | % New Trips | % New Trips Source   | Net VMT <sup>(1)</sup> | Total Impact Cost | Annual Gas Tax | Gas Tax Credit | Net Impact Fee | Sarasota County Portion <sup>(4)</sup> | Net Impact Fee (City Portion) | Current Impact Fee | % Change (vs City Portion) |
| <b>RESIDENTIAL:</b>               |  |                          |           |                                    |                        |                               |                         |             |                      |                        |                   |                |                |                |  |                               |                    |                            |
| 210                               | Single Family (Detached)                                       | du                       | 7.81      | Blend ITE 8th & FL Studies         | 6.62                   | 7.12                          | FL Studies              | 100%        | N/A                  | 18.77                  | \$7,654           | \$142          | \$2,473        | \$5,181        | \$643.95                               | \$4,537                       | \$2,341            | 94%                        |
| 220                               | Multi-Family (Apartment)                                       | du                       | 6.60      | Blend ITE 8th & FL Studies         | 5.21                   | 5.71                          | FL Studies              | 100%        | N/A                  | 12.48                  | \$5,091           | \$96           | \$1,672        | \$3,419        | \$339.19                               | \$3,080                       | \$1,755            | 76%                        |
| 230                               | Residential Condominium/Townhouse                              | du                       | 5.76      | Blend ITE 8th & FL Studies         | 7.01                   | 7.51                          | FL Studies              | 100%        | N/A                  | 14.66                  | \$5,978           | \$110          | \$1,915        | \$4,063        | \$339.19                               | \$3,724                       | \$1,755            | 112%                       |
| 240                               | Mobile Home Park/RV Park                                       | du                       | 4.17      | Florida Studies                    | 4.60                   | 5.10                          | FL Studies              | 100%        | N/A                  | 6.97                   | \$2,841           | \$54           | \$940          | \$1,901        | \$254.14                               | \$1,647                       | \$1,083            | 52%                        |
| 251                               | Retirement Community/Age-Restricted Single-Family              | du                       | 3.13      | Blend ITE 8th & FL Studies         | 5.42                   | 5.92                          | FL Studies              | 100%        | N/A                  | 6.16                   | \$2,512           | \$47           | \$818          | \$1,694        | \$643.95                               | \$1,050                       | \$768              | 37%                        |
| 253                               | Assisted Living Facility (ALF)/Congregate Care Facility        | du                       | 2.25      | Blend ITE 8th & FL Studies         | 3.08                   | 3.58                          | FL Studies              | 100%        | N/A                  | 2.52                   | \$1,026           | \$21           | \$366          | \$660          | \$0.00                                 | \$660                         | \$768              | -14%                       |
| <b>LODGING:</b>                   |  |                          |           |                                    |                        |                               |                         |             |                      |                        |                   |                |                |                |  |                               |                    |                            |
| 310 / 320                         | Hotel/Motel  | room                     | 5.63      | ITE 8th Edition (LUC 320)          | 4.34                   | 4.84                          | FL Studies (LUC 320)    | 77%         | FL Studies (LUC 320) | 6.83                   | \$2,785           | \$53           | \$923          | \$1,862        | \$0.00                                 | \$1,862                       | \$1,461            | 27%                        |
| <b>RECREATION:</b>                |  |                          |           |                                    |                        |                               |                         |             |                      |                        |                   |                |                |                |  |                               |                    |                            |
| 420                               | Marina   | berth                    | 2.96      | ITE 8th Edition                    | 6.62                   | 7.12                          | Same as LUC 210         | 90%         | FL Schedules         | 6.40                   | \$2,611           | \$48           | \$836          | \$1,775        | \$108.34                               | \$1,667                       | \$547              | 205%                       |
| 430                               | Golf Course  | acres                    | 5.04      | ITE 8th Edition                    | 6.62                   | 7.12                          | Same as LUC 210         | 90%         | FL Schedules         | 10.90                  | \$4,446           | \$82           | \$1,428        | \$3,018        | \$186.30                               | \$2,832                       | \$931              | 204%                       |
| 443                               | Movie Theater w/o Matinee <sup>(2)</sup>                       | 1,000 sf                 | 30.00     | ITE 6th and 8th Edition (Adjusted) | 2.22                   | 2.72                          | FL Studies (LUC 444)    | 88%         | FL Studies (LUC 444) | 21.27                  | \$8,677           | \$183          | \$3,187        | \$5,490        | \$0.00                                 | \$5,490                       | \$4,858            | 13%                        |
| 495                               | Recreational/Community Center                                  | 1,000 sf                 | 22.88     | ITE 8th Edition                    | 4.50                   | 5.00                          | Sames as LUC 530        | 90%         | Sames as LUC 530     | 33.64                  | \$13,719          | \$262          | \$4,562        | \$9,157        | \$486.00                               | \$8,671                       | \$3,385            | 156%                       |
| <b>INSTITUTIONS:</b>              |  |                          |           |                                    |                        |                               |                         |             |                      |                        |                   |                |                |                |  |                               |                    |                            |
| 520 / 522                         | Elementary/Middle School                                       | 1,000 sf                 | 13.78     | ITE 8th Edition                    | 4.50                   | 5.00                          | Model-based Trip Length | 80%         | Estimated            | 18.01                  | \$7,344           | \$140          | \$2,438        | \$4,906        | \$292.51                               | \$4,613                       | \$2,887            | 60%                        |
| 530                               | High School  | 1,000 sf                 | 12.89     | ITE 8th Edition                    | 4.50                   | 5.00                          | Model-based Trip Length | 90%         | Estimated            | 18.95                  | \$7,729           | \$148          | \$2,577        | \$5,152        | \$260.21                               | \$4,892                       | \$2,569            | 90%                        |
| 540                               | University/Junior College (7,500 or fewer students) (Private)  | student                  | 2.00      | ITE Regression Analysis            | 6.62                   | 7.12                          | Same as LUC 210         | 90%         | FL Schedules         | 4.33                   | \$1,764           | \$33           | \$575          | \$1,189        | n/a                                    | \$1,189                       | n/a                | n/a                        |
| 540                               | University/Junior College (more than 7,500 students) (Private) | student                  | 1.50      | ITE Regression Analysis            | 6.62                   | 7.12                          | Same as LUC 210         | 90%         | FL Schedules         | 3.24                   | \$1,323           | \$24           | \$418          | \$905          | n/a                                    | \$905                         | n/a                | n/a                        |
| 560                               | Church   | 1,000 sf                 | 9.11      | ITE 8th Edition                    | 3.90                   | 4.40                          | FL Schedules            | 90%         | FL Schedules         | 11.61                  | \$4,734           | \$92           | \$1,602        | \$3,132        | \$240.98                               | \$2,891                       | \$1,375            | 110%                       |
| 565                               | Day Care   | 1,000 sf                 | 75.07     | Blend ITE 8th & FL Studies         | 2.03                   | 2.53                          | FL Studies              | 73%         | FL Studies           | 40.38                  | \$16,470          | \$353          | \$6,147        | \$10,323       | \$505.24                               | \$9,818                       | \$4,396            | 123%                       |
| 610                               | Hospital   | 1,000 sf                 | 16.50     | ITE 8th Edition                    | 6.62                   | 7.12                          | Same as LUC 210         | 77%         | FL Schedules         | 30.53                  | \$12,452          | \$231          | \$4,022        | \$8,430        | \$607.50                               | \$7,823                       | \$5,301            | 48%                        |
| 620                               | Nursing Home   | 1,000 sf                 | 7.58      | ITE 8th Edition                    | 2.59                   | 3.09                          | FL Studies              | 89%         | FL Studies           | 6.34                   | \$2,587           | \$53           | \$923          | \$1,664        | \$581.18                               | \$1,083                       | \$1,200            | -10%                       |



**Table D-1 (continued)**  
**Calculated Transportation Impact Fee Schedule**

| ITE LUC        | Land Use   | Unit        | Trip Rate | Trip Rate Source           | Assessable Trip Length | Total Trip Length | Trip Length Source        | % New Trips | % New Trips Source        | Net VMT <sup>(1)</sup> | Total Impact Cost | Annual Gas Tax | Gas Tax Credit | Net Impact Fee | Sarasota County Portion <sup>(4)</sup> | Net Impact Fee (City Portion) | Current Impact Fee | % Change (vs City Portion) |  |
|----------------|--|-------------|-----------|----------------------------|------------------------|-------------------|---------------------------|-------------|---------------------------|------------------------|-------------------|----------------|----------------|----------------|--|-------------------------------|--------------------|----------------------------|--|
| <b>OFFICE:</b> |  |             |           |                            |                        |                   |                           |             |                           |                        |                   |                |                |                |  |                               |                    |                            |  |
| 710            | General Office 50,000 sf or less <sup>(3)</sup>          | 1,000 sf    | 15.65     | ITE 8th equation           | 5.15                   | 5.65              | FL Studies                | 92%         | FL Studies                | 26.92                  | \$10,978          | \$207          | \$3,605        | \$7,373        | \$420.19                               | \$6,953                       | \$2,883            | 141%                       |  |
| 710            | General Office 50,001-100,000 sf <sup>(3)</sup>          | 1,000 sf    | 13.34     | ITE 8th equation           | 5.15                   | 5.65              | FL Studies                | 92%         | FL Studies                | 22.94                  | \$9,357           | \$177          | \$3,082        | \$6,275        | \$420.19                               | \$5,855                       | \$2,883            | 103%                       |  |
| 710            | General Office 100,001-200,000 sf <sup>(3)</sup>         | 1,000 sf    | 11.37     | ITE 8th equation           | 5.15                   | 5.65              | FL Studies                | 92%         | FL Studies                | 19.56                  | \$7,975           | \$151          | \$2,629        | \$5,346        | \$420.19                               | \$4,926                       | \$2,883            | 71%                        |  |
| 710            | General Office 200,001-400,000 sf <sup>(3)</sup>         | 1,000 sf    | 9.70      | ITE 8th equation           | 5.15                   | 5.65              | FL Studies                | 92%         | FL Studies                | 16.68                  | \$6,804           | \$128          | \$2,229        | \$4,575        | \$420.19                               | \$4,155                       | \$2,883            | 44%                        |  |
| 710            | General Office greater than 400,000 sf <sup>(3)</sup>    | 1,000 sf    | 8.83      | ITE 8th equation           | 5.15                   | 5.65              | FL Studies                | 92%         | FL Studies                | 15.19                  | \$6,194           | \$117          | \$2,037        | \$4,157        | \$420.19                               | \$3,737                       | \$2,883            | 30%                        |  |
| 720            | Medical Office (0-10,000 sf)                             | 1,000 sf    | 23.83     | FL Studies                 | 5.55                   | 6.05              | FL Studies                | 89%         | FL Studies                | 42.73                  | \$17,426          | \$327          | \$5,694        | \$11,732       | \$420.19                               | \$11,312                      | \$2,883            | 292%                       |  |
| 720            | Medical Office (>10,000 sf)                              | 1,000 sf    | 35.95     | Blend ITE 8th & FL Studies | 5.55                   | 6.05              | FL Studies                | 89%         | FL Studies                | 64.46                  | \$26,289          | \$493          | \$8,585        | \$17,704       | \$420.19                               | \$17,284                      | \$2,883            | 500%                       |  |
| 770            | Business Park (Flex Space)                               | 1,000 sf    | 12.98     | Blend ITE 8th & FL Studies | 5.38                   | 5.88              | FL Studies                | 89%         | FL Studies                | 22.56                  | \$9,201           | \$173          | \$3,012        | \$6,189        | \$355.39                               | \$5,834                       | \$1,901            | 207%                       |  |
| <b>RETAIL:</b> |  |             |           |                            |                        |                   |                           |             |                           |                        |                   |                |                |                |  |                               |                    |                            |  |
| 812            | Building Materials / Lumber Store                        | 1,000 sf    | 45.16     | ITE 8th Edition            | 6.27                   | 6.77              | FL Studies                | 74%         | FL Studies                | 76.06                  | \$31,021          | \$577          | \$10,047       | \$20,974       | \$836.33                               | \$20,138                      | \$7,145            | 182%                       |  |
| 816            | Hardware/Paint   | 1,000 sf    | 51.29     | ITE 8th Edition            | 1.87                   | 2.37              | Same as LUC 820 (<50K)    | 56%         | Same as LUC 820 (<50K)    | 19.50                  | \$7,952           | \$173          | \$3,012        | \$4,940        | \$836.33                               | \$4,104                       | \$7,145            | -43%                       |  |
| 820            | Shopping Center 50,000 sfgla or less <sup>(3)</sup>      | 1,000 sfgla | 86.56     | ITE 8th equation           | 1.87                   | 2.37              | FL Curve                  | 56%         | FL Curve                  | 32.90                  | \$13,420          | \$293          | \$5,102        | \$8,318        | \$715.84                               | \$7,602                       | \$4,858            | 57%                        |  |
| 820            | Shopping Center greater than 50,000 sfgla <sup>(3)</sup> | 1,000 sfgla | 36.27     | ITE 8th equation           | 2.87                   | 3.37              | FL Curve                  | 76%         | FL Curve                  | 28.72                  | \$11,712          | \$237          | \$4,127        | \$7,585        | \$715.84                               | \$6,869                       | \$4,858            | 41%                        |  |
| 841            | New/Used Auto Sales                                      | 1,000 sf    | 29.85     | Blend ITE 8th & FL Studies | 4.60                   | 5.10              | FL Studies                | 79%         | FL Studies                | 39.38                  | \$16,059          | \$306          | \$5,328        | \$10,731       | \$339.19                               | \$10,392                      | \$2,972            | 250%                       |  |
| 848            | Tire Store   | 1,000 sf    | 24.87     | ITE 8th Edition            | 3.62                   | 4.12              | Same as LUC 942           | 72%         | Same as LUC 942           | 23.53                  | \$9,597           | \$188          | \$3,274        | \$6,323        | \$715.84                               | \$5,607                       | \$2,972            | 89%                        |  |
| 850            | Supermarket  | 1,000 sf    | 103.38    | Blend ITE 8th & FL Studies | 2.08                   | 2.58              | FL Studies                | 56%         | FL Studies                | 43.71                  | \$17,827          | \$381          | \$6,634        | \$11,193       | \$715.84                               | \$10,477                      | \$4,858            | 116%                       |  |
| 853            | Convenience Store w/Gas Pumps                            | 1,000 sf    | 775.14    | Blend ITE 8th & FL Studies | 1.51                   | 2.01              | FL Studies                | 28%         | FL Studies                | 118.97                 | \$48,519          | \$1,112        | \$19,363       | \$29,156       | \$0.00                                 | \$29,156                      | \$15,001           | 94%                        |  |
| 862            | Home Improvement Superstore                              | 1,000 sf    | 29.80     | ITE 8th Edition            | 2.87                   | 3.37              | Same as LUC 820 (50-200K) | 76%         | Same as LUC 820 (50-200K) | 23.59                  | \$9,623           | \$195          | \$3,396        | \$6,227        | \$715.84                               | \$5,511                       | \$4,858            | 13%                        |  |
| 881            | Pharmacy/Drug Store with and without Drive-Thru          | 1,000 sf    | 92.88     | Blend ITE 8th & FL Studies | 2.08                   | 2.58              | FL Studies                | 33%         | FL Studies                | 23.14                  | \$9,438           | \$202          | \$3,517        | \$5,921        | \$715.84                               | \$5,205                       | \$4,858            | 7%                         |  |
| 890            | Furniture Store  | 1,000 sf    | 5.06      | ITE 8th Edition            | 6.09                   | 6.59              | FL Studies                | 54%         | FL Studies                | 6.04                   | \$2,464           | \$46           | \$801          | \$1,663        | \$93.15                                | \$1,570                       | \$801              | 96%                        |  |
| 912            | Bank/Savings w/Drive-In                                  | 1,000 sf    | 159.34    | Blend ITE 8th & FL Studies | 2.46                   | 2.96              | FL Studies                | 46%         | FL Studies                | 65.45                  | \$26,694          | \$553          | \$9,629        | \$17,065       | \$770.51                               | \$16,294                      | \$7,683            | 112%                       |  |
| 931            | Sit-Down Restaurant                                      | 1,000 sf    | 91.10     | Blend ITE 8th & FL Studies | 3.14                   | 3.64              | FL Studies                | 77%         | FL Studies                | 79.95                  | \$32,609          | \$651          | \$11,336       | \$21,273       | \$115.43                               | \$21,158                      | \$6,474            | 227%                       |  |
| 932            | High-Turnover Restaurant                                 | 1,000 sf    | 126.50    | Blend ITE 8th & FL Studies | 3.17                   | 3.67              | FL Studies                | 71%         | FL Studies                | 103.35                 | \$42,151          | \$840          | \$14,627       | \$27,524       | \$115.43                               | \$27,409                      | \$6,474            | 323%                       |  |
| 934            | Fast Food Restaurant w/Drive-Thru                        | 1,000 sf    | 522.62    | Blend ITE 8th & FL Studies | 2.05                   | 2.55              | FL Studies                | 58%         | FL Studies                | 225.57                 | \$91,995          | \$1,970        | \$34,304       | \$57,691       | \$253.13                               | \$57,438                      | \$14,729           | 290%                       |  |



**Table D-1 (continued)**  
**Calculated Transportation Impact Fee Schedule**

| ITE LUC            | Land Use                                   | Unit      | Trip Rate | Trip Rate Source           | Assessable Trip Length | Total Trip Length | Trip Length Source | % New Trips | % New Trips Source | Net VMT <sup>(1)</sup> | Total Impact Cost | Annual Gas Tax | Gas Tax Credit | Net Impact Fee | Sarasota County Portion <sup>(4)</sup> | Net Impact Fee (City Portion) | Current Impact Fee | % Change (vs City Portion) |  |
|--------------------|--|-----------|-----------|----------------------------|------------------------|-------------------|--------------------|-------------|--------------------|------------------------|-------------------|----------------|----------------|----------------|--|-------------------------------|--------------------|----------------------------|--|
| <b>RETAIL:</b>     |  |           |           |                            |                        |                   |                    |             |                    |                        |                   |                |                |                |  |                               |                    |                            |  |
| 941                | Quick Lube                                 | bays      | 40.00     | ITE 8th Edition            | 3.62                   | 4.12              | Same as LUC 942    | 72%         | Same as LUC 942    | 37.84                  | \$15,435          | \$302          | \$5,259        | \$10,176       | n/a                                    | \$10,176                      | n/a                | n/a                        |  |
| 942                | Automobile Repair Shop                     | 1,000 sf  | 34.12     | Blend ITE 8th & FL Studies | 3.62                   | 4.12              | FL Studies         | 72%         | FL Studies         | 32.28                  | \$13,166          | \$258          | \$4,493        | \$8,673        | \$339.19                               | \$8,334                       | \$2,972            | 180%                       |  |
| 945                | Gasoline/Service Station/Conv. Mart        | fuel pos. | 162.78    | ITE 8th Edition            | 1.90                   | 2.40              | Same as LUC 944    | 23%         | Same as LUC 944    | 25.82                  | \$10,531          | \$229          | \$3,988        | \$6,543        | \$0.00                                 | \$6,543                       | \$2,935            | 123%                       |  |
| 947                | Self-Service Car Wash                      | bays      | 43.94     | Blend ITE 8th & FL Studies | 2.00                   | 2.50              | FL Studies         | 18%         | FL Studies         | 5.74                   | \$2,342           | \$50           | \$871          | \$1,471        | n/a                                    | \$1,471                       | n/a                | n/a                        |  |
| n/a                | Convenience/Gasoline/Fast Food Store       | 1,000 sf  | 984.59    | Florida Studies            | 2.65                   | 3.15              | FL Studies         | 32%         | FL Studies         | 303.08                 | \$123,608         | \$2,529        | \$44,038       | \$79,570       | \$0.00                                 | \$79,570                      | \$2,935            | 2611%                      |  |
| <b>INDUSTRIAL:</b> |  |           |           |                            |                        |                   |                    |             |                    |                        |                   |                |                |                |  |                               |                    |                            |  |
| 110 / 130          | General Light Industrial / Industrial Park | 1,000 sf  | 6.96      | ITE 8th Edition            | 5.15                   | 5.65              | Same as LUC 710    | 92%         | Same as LUC 710    | 11.97                  | \$4,882           | \$92           | \$1,602        | \$3,280        | \$355.39                               | \$2,925                       | \$1,901            | 54%                        |  |
| 120                | General Heavy Industrial                   | 1,000 sf  | 1.50      | ITE 8th Edition            | 5.15                   | 5.65              | Same as LUC 710    | 92%         | Same as LUC 710    | 2.58                   | \$1,052           | \$20           | \$348          | \$704          | \$355.39                               | \$349                         | \$1,901            | -82%                       |  |
| 140                | Manufacturing                              | 1,000 sf  | 3.82      | ITE 8th Edition            | 5.15                   | 5.65              | Same as LUC 710    | 92%         | Same as LUC 710    | 6.57                   | \$2,680           | \$51           | \$888          | \$1,792        | \$355.39                               | \$1,437                       | \$1,901            | -24%                       |  |
| 150                | Warehouse                                  | 1,000 sf  | 3.56      | ITE 8th Edition            | 5.15                   | 5.65              | Same as LUC 710    | 92%         | Same as LUC 710    | 6.12                   | \$2,497           | \$47           | \$818          | \$1,679        | \$253.13                               | \$1,426                       | \$1,563            | -9%                        |  |
| 151                | Mini-Warehouse/Storage                     | 1,000 sf  | 2.50      | ITE 8th Edition            | 3.10                   | 3.60              | FL Schedules       | 92%         | Same as LUC 710    | 2.59                   | \$1,056           | \$21           | \$366          | \$690          | \$65.81                                | \$624                         | \$519              | 20%                        |  |

- (1) Net VMT is calculated using the formula: ((Trip Generation Rate \* Trip Length \* % New Trips)\*(1-Interstate 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.
- (2) The trip generation rate of the "Movie Theater" land use was adjusted to reflect the lower trip generation rates observed in the FL Studies database for the similar land use, "Movie Theater w/Matinee" (LUC 444).
- (3) The trip generation rate recommended for the office and shopping center land uses use the end-point regression value.
- (4) For new land uses that are not in the current North Port or Sarasota County transportation impact fee schedules, the County's portion of the fee is based on a similar land use. Based on discussions with City Staff, LUC 220 and 230 would be charged the Single Family Residential rate for a 1,500 to 1,999 sf home and LUC 251 would be charged the Single Family Residential rate for a 2,000 to 2,999 sf home. Additionally, LUC 540 would be charged at the Office rate, LUC's 848, 850, 862, 881, and 932 would be charged the Shopping Center rate, LUC's 770, 120, and 140 would be charged the Industrial Park rate, and LUC's 540, 941, and 947 would not be charged due to a conflict in the units of measure.



## **APPENDIX E**

### **Trip Characteristics Database**

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## Appendix E

### Trip Characteristics Database

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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.

TOA 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 (8<sup>th</sup> edition). When both ITE *Trip Generation* reference report (8<sup>th</sup> edition) and Florida Studies trip generation rate (TGR) data are available for a particular land use, in most cases, the data is blended together to increase the sample size and provide a more valid estimate of the average number of trips generated per unit of development. An exception to this approach is when the Florida Studies database contains several studies, which indicate a lower trip generation rate than what is reported by ITE (such as the single family land use). 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 intend 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. TOA 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.

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          | -           | 6.10                          | N/A               | 32.94  | Street Smarts               |
| Sarasota Co, FL  | 76           | Jun-93      | 70                 | 70                       | 10.03         | -           | 6.00                          | N/A               | 60.18  | Sarasota County             |
| Sarasota Co, FL  | 79           | Jun-93      | 86                 | 86                       | 9.77          | -           | 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          | -           | 7.30                          | N/A               | 62.42  | Sarasota County             |
| Sarasota Co, FL  | 193          | Jun-93      | 123                | 123                      | 6.85          | -           | 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 & Associates |
| Hernando Co, FL  | 128          | May-96      | 205                | 205                      | 8.17          | 9a-6p       | 6.03                          | N/A               | 49.27  | Tindale-Oliver & Associates |
| Hernando Co, FL  | 232          | May-96      | 182                | 182                      | 7.24          | 9a-6p       | 5.04                          | N/A               | 36.49  | Tindale-Oliver & Associates |
| Hernando Co, FL  | 301          | May-96      | 264                | 264                      | 8.93          | 9a-6p       | 3.28                          | N/A               | 29.29  | Tindale-Oliver & Associates |
| Charlotte Co, FL | 135          | Oct-97      | 230                | -                        | 5.30          | 9a-5p       | 7.90                          | N/A               | 41.87  | Tindale-Oliver & Associates |
| Charlotte Co, FL | 142          | Oct-97      | 245                | -                        | 5.20          | 9a-5p       | 4.10                          | N/A               | 21.32  | Tindale-Oliver & Associates |
| Charlotte Co, FL | 150          | Oct-97      | 160                | -                        | 5.00          | 9a-5p       | 10.80                         | N/A               | 54.00  | Tindale-Oliver & Associates |
| Charlotte Co, FL | 215          | Oct-97      | 158                | -                        | 7.60          | 9a-5p       | 4.60                          | N/A               | 34.96  | Tindale-Oliver & Associates |
| Charlotte Co, FL | 257          | Oct-97      | 225                | -                        | 7.60          | 9a-5p       | 7.40                          | N/A               | 56.24  | Tindale-Oliver & Associates |
| Charlotte Co, FL | 345          | Oct-97      | 161                | -                        | 7.00          | 9a-5p       | 6.60                          | N/A               | 46.20  | Tindale-Oliver & Associates |
| Charlotte Co, FL | 368          | Oct-97      | 152                | -                        | 6.60          | 9a-5p       | 5.70                          | N/A               | 37.62  | Tindale-Oliver & Associates |
| Charlotte Co, FL | 383          | Oct-97      | 516                | -                        | 8.40          | 9a-5p       | 5.00                          | N/A               | 42.00  | Tindale-Oliver & Associates |
| Charlotte Co, FL | 441          | Oct-97      | 195                | -                        | 8.20          | 9a-5p       | 4.70                          | N/A               | 38.54  | Tindale-Oliver & Associates |
| Charlotte Co, FL | 1,169        | Oct-97      | 348                | -                        | 6.10          | 9a-5p       | 8.00                          | N/A               | 48.80  | Tindale-Oliver & Associates |
| Collier Co, FL   | 90           | Dec-99      | 91                 | -                        | 12.80         | 8a-6p       | 11.40                         | N/A               | 145.92 | Tindale-Oliver & Associates |
| Collier Co, FL   | 400          | Dec-99      | 389                | -                        | 7.80          | 8a-6p       | 6.40                          | N/A               | 49.92  | Tindale-Oliver & Associates |
| Lake Co, FL      | 49           | Apr-02      | 170                | -                        | 6.70          | 7a-6p       | 10.20                         | N/A               | 68.34  | Tindale-Oliver & Associates |
| Lake Co, FL      | 52           | Apr-02      | 212                | -                        | 10.00         | 7a-6p       | 7.60                          | N/A               | 76.00  | Tindale-Oliver & Associates |
| Lake Co, FL      | 126          | Apr-02      | 217                | -                        | 8.50          | 7a-6p       | 8.30                          | N/A               | 70.55  | Tindale-Oliver & Associates |
| Pasco Co, FL     | 55           | Apr-02      | 133                | -                        | 6.80          | 8a-6p       | 8.12                          | N/A               | 55.22  | Tindale-Oliver & Associates |
| Pasco Co, FL     | 60           | Apr-02      | 106                | -                        | 7.73          | 8a-6p       | 8.75                          | N/A               | 67.64  | Tindale-Oliver & Associates |
| Pasco Co, FL     | 70           | Apr-02      | 188                | -                        | 7.80          | 8a-6p       | 6.03                          | N/A               | 47.03  | Tindale-Oliver & Associates |
| Pasco Co, FL     | 74           | Apr-02      | 188                | -                        | 8.18          | 8a-6p       | 5.95                          | N/A               | 48.67  | Tindale-Oliver & Associates |
| Pasco Co, FL     | 189          | Apr-02      | 261                | -                        | 7.46          | 8a-6p       | 8.99                          | N/A               | 67.07  | Tindale-Oliver & Associates |
| Marion Co, FL    | 102          | Apr-02      | 167                | -                        | 8.02          | 7a-6p       | 5.10                          | N/A               | 40.90  | Kimley-Horn & Associates    |
| Marion Co, FL    | 105          | Apr-02      | 169                | -                        | 7.23          | 7a-6p       | 7.22                          | N/A               | 52.20  | Kimley-Horn & Associates    |
| Marion Co, FL    | 124          | Apr-02      | 170                | -                        | 6.04          | 7a-6p       | 7.29                          | N/A               | 44.03  | Kimley-Horn & Associates    |
| Marion Co, FL    | 132          | Apr-02      | 171                | -                        | 7.87          | 7a-6p       | 7.00                          | N/A               | 55.09  | Kimley-Horn & Associates    |
| Marion Co, FL    | 133          | Apr-02      | 209                | -                        | 8.04          | 7a-6p       | 4.92                          | N/A               | 39.56  | Kimley-Horn & Associates    |
| Citrus Co, FL    | 111          | Oct-03      | 273                | -                        | 8.66          | 7a-6p       | 7.70                          | N/A               | 66.68  | Tindale-Oliver & Associates |
| Citrus Co, FL    | 231          | Oct-03      | 155                | -                        | 5.71          | 7a-6p       | 4.82                          | N/A               | 27.52  | Tindale-Oliver & Associates |
| Citrus Co, FL    | 306          | Oct-03      | 146                | -                        | 8.40          | 7a-6p       | 3.94                          | N/A               | 33.10  | Tindale-Oliver & Associates |
| Citrus Co, FL    | 364          | Oct-03      | 345                | -                        | 7.20          | 7a-6p       | 9.14                          | N/A               | 65.81  | Tindale-Oliver & Associates |
| Citrus Co, FL    | 374          | Oct-03      | 248                | -                        | 12.30         | 7a-6p       | 6.88                          | N/A               | 84.62  | Tindale-Oliver & Associates |
| Lake Co, FL      | 42           | Dec-06      | 122                | -                        | 11.26         | -           | 5.56                          | N/A               | 62.61  | Tindale-Oliver & Associates |
| Lake Co, FL      | 51           | Dec-06      | 346                | -                        | 18.22         | -           | 9.46                          | N/A               | 172.36 | Tindale-Oliver & Associates |
| Lake Co, FL      | 59           | Dec-06      | 144                | -                        | 12.07         | -           | 10.79                         | N/A               | 130.24 | Tindale-Oliver & Associates |
| Lake Co, FL      | 90           | Dec-06      | 194                | -                        | 9.12          | -           | 5.78                          | N/A               | 52.71  | Tindale-Oliver & Associates |
| Lake Co, FL      | 239          | Dec-06      | 385                | -                        | 7.58          | -           | 8.93                          | N/A               | 67.69  | Tindale-Oliver & Associates |
| Hernando Co, FL  | 232          | Apr-07      | 516                | -                        | 8.02          | 7a-6p       | 8.16                          | N/A               | 65.44  | Tindale-Oliver & Associates |
| Hernando Co, FL  | 95           | Apr-07      | 256                | -                        | 8.08          | 7a-6p       | 5.88                          | N/A               | 47.51  | Tindale-Oliver & Associates |
| Hernando Co, FL  | 90           | Apr-07      | 338                | -                        | 7.13          | 7a-6p       | 5.86                          | N/A               | 41.78  | Tindale-Oliver & Associates |
| Hernando Co, FL  | 58           | Apr-07      | 153                | -                        | 6.16          | 7a-6p       | 8.39                          | N/A               | 51.68  | Tindale-Oliver & Associates |
| Collier Co, FL   | 74           | Mar-08      | 503                | -                        | 12.81         | 7a-6p       | 3.05                          | N/A               | 39.07  | Tindale-Oliver & Associates |
| Collier Co, FL   | 97           | Mar-08      | 512                | -                        | 8.78          | 7a-6p       | 11.29                         | N/A               | 99.13  | Tindale-Oliver & Associates |
| Collier Co, FL   | 315          | Mar-08      | 1,347              | -                        | 6.97          | 7a-6p       | 6.55                          | N/A               | 45.65  | Tindale-Oliver & Associates |
| Collier Co, FL   | 42           | Mar-08      | 314                | -                        | 9.55          | 7a-6p       | 10.98                         | N/A               | 104.86 | Tindale-Oliver & Associates |
| Total Size       | 10,380       |             | 13,130             |                          |               |             |                               |                   |        |                             |
|                  |              |             |                    |                          |               |             | Average Trip Length:          | 6.70              |        |                             |
|                  |              |             |                    |                          |               |             | Weighted Average Trip Length: | 6.62              |        |                             |

Weighted Average Trip Generation Rate: 7.81  
ITE Average Trip Generation Rate: 9.57  
Average VMT: 57.33  
Weighted Average VMT: 51.70

Note: Georgia studies are not included in summary statistics.



**Multi-Family/Apartment (ITE LUC 220)**

| 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          | -           | 11.50                         | N/A               | 67.16 | Sarasota County             |
| Marion Co, FL   | 214          | Apr-02 | 175                | 175                      | 6.84          | -           | 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          | -           | 6.88                          | N/A               | 39.42 | Kimley-Horn & Associates    |
| Marion Co, FL   | 500          | Apr-02 | 170                | 170                      | 5.46          | -           | 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 & Associates |
| Lake Co, FL     | 157          | Dec-06 | 265                | 265                      | 13.97         | -           | 2.62                          | N/A               | 36.60 | Tindale-Oliver & Associates |
| Lake Co, FL     | 169          | Dec-06 | 212                | -                        | 8.09          | -           | 6.00                          | N/A               | 48.54 | Tindale-Oliver & Associates |
| Lake Co, FL     | 226          | Dec-06 | 301                | -                        | 6.74          | -           | 2.17                          | N/A               | 14.63 | Tindale-Oliver & Associates |
| Hernando Co, FL | 312          | Apr-07 | 456                | -                        | 4.09          | -           | 5.95                          | N/A               | 24.34 | Tindale-Oliver & Associates |
| Hernando Co, FL | 176          | Apr-07 | 332                | -                        | 5.38          | -           | 5.24                          | N/A               | 28.19 | Tindale-Oliver & Associates |
| Total Size      | 3,467        |        | 2,648              |                          |               |             | Average Trip Length:          |                   | 4.91  |                             |
| ITE             | 18,480       |        |                    |                          |               |             | Weighted Average Trip Length: |                   | 5.21  |                             |
| Blended total   | 21,947       |        |                    |                          |               |             |                               |                   |       |                             |

Weighted Average Trip Generation Rate: 6.31  
 ITE Average Trip Generation Rate (8th): 6.65  
**Blend of FL Studies and ITE Average Trip Generation Rate: 6.60**  
 Average VMT: 34.15  
 Weighted Average VMT: 34.39

Note: The 2nd Sarasota study with 11.5 mi TL was excluded from Weighted Average Trip Length calculation.

**Residential Condominium/Townhouse (ITE LUC 230)**

| Location        | Size / Units | Date   | Total # Interviews | # Trip Length Interviews | Trip Gen Rate | Time Period | Trip Length                   | Percent New Trips | VMT   | Source                      |
|-----------------|--------------|--------|--------------------|--------------------------|---------------|-------------|-------------------------------|-------------------|-------|-----------------------------|
| Hernando Co, FL | 31           | May-96 | 31                 | 31                       | 6.12          | 9a-6p       | 4.98                          | N/A               | 30.48 | Tindale-Oliver & Associates |
| Hernando Co, FL | 128          | May-96 | 198                | 198                      | 6.47          | 9a-6p       | 5.18                          | N/A               | 33.51 | Tindale-Oliver & Associates |
| Pasco Co, FL    | 229          | Apr-02 | 198                | 198                      | 4.77          | 9a-6p       | 12.09                         | N/A               | 57.67 | Tindale-Oliver & Associates |
| Pasco Co, FL    | 248          | Apr-02 | 353                | 353                      | 4.24          | 9a-6p       | 3.53                          | N/A               | 14.97 | Tindale-Oliver & Associates |
| Total Size      | 636          |        | 780                |                          |               |             | Average Trip Length:          |                   | 6.45  |                             |
| ITE             | 10,024       |        |                    |                          |               |             | Weighted Average Trip Length: |                   | 7.01  |                             |
| Blended total   | 10,660       |        |                    |                          |               |             |                               |                   |       |                             |

Weighted Average Trip Generation Rate: 4.97  
 ITE Average Trip Generation Rate (8th): 5.81  
**Blend of FL Studies and ITE Average Trip Generation Rate: 5.76**  
 Average VMT: 34.16  
 Weighted Average VMT: 40.38

**Mobile Home Park/RV 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               | 40.18 | 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                | -                        | 3.51          | 24hr.       | 5.48                          | N/A               | 19.23 | Kimley-Horn & Associates    |
| Marion Co, FL   | 227          | Apr-02 | 173                | -                        | 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                | -                        | 4.78          | 24hr.       | 4.76                          | N/A               | 22.75 | Kimley-Horn & Associates    |
| Sarasota Co, FL | 996          | Jun-93 | 181                | 181                      | 4.19          | -           | 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        |        | 1,303              |                          |               |             | Average Trip Length:          |                   | 4.84  |                             |
|                 |              |        |                    |                          |               |             | Weighted Average Trip Length: |                   | 4.60  |                             |

Weighted Average Trip Generation Rate: 4.17  
 ITE Average Trip Generation Rate (8th): 4.99  
 Average VMT: 20.82  
 Weighted Average VMT: 19.19

**Retirement Community/Age-Restricted Single Family (ITE LUC 251)**

| Location      | Size / Units | Date        | Total # Interviews | # Trip Length Interviews | Trip Gen Rate | Time Period | Trip Length                   | Percent New Trips | VMT   | Source                      |
|---------------|--------------|-------------|--------------------|--------------------------|---------------|-------------|-------------------------------|-------------------|-------|-----------------------------|
| Lakeland, FL  | 67           | 3/28-4/2/90 | 26                 | 24                       | 3.50          | 9am-4pm     | 2.44                          | N/A               | 8.54  | Tindale-Oliver & Associates |
| Marion Co, FL | 778          | Apr-02      | 175                | -                        | 2.96          | 24hr.       | 3.49                          | N/A               | 10.33 | Kimley-Horn & Associates    |
| Marion Co, FL | 877          | Apr-02      | 209                | -                        | 2.91          | 24hr.       | 5.90                          | N/A               | 17.17 | Kimley-Horn & Associates    |
| Marion Co, FL | 1,054        | Apr-02      | 173                | -                        | 3.65          | 24hr.       | 6.00                          | N/A               | 21.90 | Kimley-Horn & Associates    |
| Marion Co, FL | 3,076        | Apr-02      | 198                | -                        | 2.63          | 24hr.       | 5.16                          | N/A               | 13.57 | Kimley-Horn & Associates    |
| Marion Co, FL | 3,625        | Apr-02      | 164                | -                        | 2.50          | 24hr.       | 5.83                          | N/A               | 14.58 | Kimley-Horn & Associates    |
| Total Size    | 9,477        |             | 945                |                          |               |             | Average Trip Length:          |                   | 4.80  |                             |
| ITE           | 6,034        |             |                    |                          |               |             | Weighted Average Trip Length: |                   | 5.42  |                             |
| Blended total | 15,511       |             |                    |                          |               |             |                               |                   |       |                             |

Weighted Average Trip Generation Rate: 2.75  
 ITE Average Trip Generation Rate (8th): 3.71  
**Blend of FL Studies and ITE Average Trip Generation Rate: 3.13**  
 Average VMT: 14.35  
 Weighted Average VMT: 16.96





**Congregate Care Facility ( ITE LUC 253)**

| Location          | Size /Units | Date   | Total # Interviews | # Trip Length Interviews                                       | Trip Gen Rate | Time Period | Trip Length | Percent New Trips | VMT  | Source                      |
|-------------------|-------------|--------|--------------------|--|---------------|-------------|-------------|-------------------|------|-----------------------------|
| Pinellas Park, FL | 72          | Aug-89 | 25                 | 19   | 3.50          | 9am-5pm     | 2.20        | 79.0              | 6.08 | Tindale-Oliver & Associates |
| Palm Harbor, FL   | 200         | Oct-89 | 58                 | 40   | -             | 9am-5pm     | 3.40        | 69.0              | -    | Tindale-Oliver & Associates |
| Total Size        | 272         | 72     | 83                 | Average Trip Length: 2.80                                      |               |             |             |                   |      |                             |
| ITE               | 388         | 388    |                    | Weighted Average Trip Length: 3.08                             |               |             |             |                   |      |                             |
| Blended total     | 660         | 460    |                    | Weighted Percent New Trip Average: 71.6                        |               |             |             |                   |      |                             |
|                   |             |        |                    | Weighted Average Trip Generation Rate: 3.50                    |               |             |             |                   |      |                             |
|                   |             |        |                    | ITE Average Trip Generation Rate (8th): 2.02                   |               |             |             |                   |      |                             |
|                   |             |        |                    | Blend of FL Studies and ITE Average Trip Generation Rate: 2.25 |               |             |             |                   |      |                             |
|                   |             |        |                    | Average VMT: 6.08  |               |             |             |                   |      |                             |
|                   |             |        |                    | Weighted Average VMT: 4.97                                     |               |             |             |                   |      |                             |

**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              | -   | Tindale-Oliver & Associates |
| Pinellas Co, FL | 54           | Oct-89 | 32                 | 22   | -             | 12p-7p      | 3.80        | 69.0              | -   | Tindale-Oliver & Associates |
| Pinellas Co, FL | 120          | Oct-89 | 26                 | 22   | -             | 2p-7p       | 5.20        | 84.6              | -   | Tindale-Oliver & Associates |
| Total Size      | 222          |        | 104                | Average Trip Length: 3.93                    |               |             |             |                   |     |                             |
|                 |              |        |                    | Weighted Average Trip Length: 4.34           |               |             |             |                   |     |                             |
|                 |              |        |                    | Weighted Percent New Trip Average: 76.6      |               |             |             |                   |     |                             |
|                 |              |        |                    | Weighted Average Trip Generation Rate: -     |               |             |             |                   |     |                             |
|                 |              |        |                    | ITE Average Trip Generation Rate (8th): 5.63 |               |             |             |                   |     |                             |

**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                | 116                                     | 63.40         | 2p-8p       | 1.90        | 95.0              | 114.44 | Tindale-Oliver & Associates |
| Total Size      | 20             |        | 273                | Average Trip Length: 2.30               |               |             |             |                   |        |                             |
| ITE             | 10 estimated   |        |                    | Weighted Average Trip Length: 2.22      |               |             |             |                   |        |                             |
| Blended total   | 30             |        |                    | Weighted Percent New Trip Average: 87.8 |               |             |             |                   |        |                             |

**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         | 7a-6p       | 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                | Average Trip Length: 2.20                                       |               |             |             |                   |        |                             |
| ITE             | 30.0            |        |                    | Weighted Average Trip Length: 2.03                              |               |             |             |                   |        |                             |
| Blended total   | 45.6            |        |                    | Weighted Percent New Trip Average: 73.2                         |               |             |             |                   |        |                             |
|                 |                 |        |                    | Weighted Average Trip Generation Rate: 66.99                    |               |             |             |                   |        |                             |
|                 |                 |        |                    | ITE Average Trip Generation Rate (8th): 79.26                   |               |             |             |                   |        |                             |
|                 |                 |        |                    | Blend of FL Studies and ITE Average Trip Generation Rate: 75.07 |               |             |             |                   |        |                             |
|                 |                 |        |                    | Average VMT: 97.30  |               |             |             |                   |        |                             |
|                 |                 |        |                    | Weighted Average VMT: 111.56                                    |               |             |             |                   |        |                             |

**Nursing Home (ITE LUC 620)**

| 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         |        | 74                 | Average Trip Length: 2.59                    |               |             |             |                   |      |                             |
| ITE           | 415         |        |                    | Weighted Average Trip Length: 2.59           |               |             |             |                   |      |                             |
| Blended total | 535         |        |                    | Weighted Percent New Trip Average: 89.0      |               |             |             |                   |      |                             |
|               |             |        |                    | ITE Average Trip Generation Rate (8th): 7.58 |               |             |             |                   |      |                             |

**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         | -           | 11.30       | -                 | 529.41 | Sarasota County             |
| Gwinnett Co, GA    | 98.0            | Dec-92 | -                  | -                                       | 4.30          | -           | 5.40        | -                 | -      | Street Smarts               |
| Gwinnett Co, GA    | 180.0           | Dec-92 | -                  | -                                       | 3.60          | -           | 5.90        | -                 | -      | Street Smarts               |
| Pinellas Co, FL    | 187.0           | Oct-89 | 431                | 388                                     | 18.49         | 7a-5p       | 6.30        | 90.0              | 104.84 | Tindale-Oliver & Associates |
| St. Petersburg, FL | 262.8           | Sep-89 | 291                | 274                                     | -             | 7a-5p       | 3.40        | 94.0              | -      | Tindale-Oliver & Associates |
| Total Size         | 742.1           |        | 736                | Average Trip Length: 6.46               |               |             |             |                   |        |                             |
|                    |                 |        |                    | Weighted Average Trip Length: 5.15      |               |             |             |                   |        |                             |
|                    |                 |        |                    | Weighted Percent New Trip Average: 92.3 |               |             |             |                   |        |                             |



**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                       | -             | -           | 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        | 88.0              | -      | 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 | -                  | 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 |

Total Size 224.5  
 ITE 450.0  
 Blended total 674.5

**Average Trip Length: 5.07**  
**Weighted Average Trip Length: 5.55**

Weighted Percent New Trip Average: 88.9  
 Average Trip Generation Rate: 35.59  
 ITE Average Trip Generation Rate (8th): 36.13  
**Blend of FL Studies and ITE Average Trip Generation Rate: 35.95**  
**Adjusted Trip Generation Rate for Medical Office <10,000 sf: 23.83**  
 Average VMT: 178.51  
 Weighted Average VMT: 177.29

**Business Park (ITE LUC 770)**

| Location       | Size (1,000 sf) | Date   | Total # Interviews | # Trip Length Interviews | Trip Gen Rate | Time Period | Trip Length | Percent New Trips | VMT   | Source                      |
|----------------|-----------------|--------|--------------------|--------------------------|---------------|-------------|-------------|-------------------|-------|-----------------------------|
| Collier Co, FL | 14.1            | May-99 | -                  | 55                       | 33.48         | 8a-6p       | 3.60        | 72.7              | 87.62 | Tindale-Oliver & Associates |
| Collier Co, FL | 66.0            | May-99 | -                  | 43                       | 11.53         | 8a-6p       | 5.70        | 79.0              | 51.92 | Tindale-Oliver & Associates |
| Collier Co, FL | 211.1           | May-99 | -                  | 284                      | 17.91         | 8a-6p       | 5.40        | 93.0              | 89.94 | Tindale-Oliver & Associates |

Total Size 291.2 4.97%  
 ITE 5565.0 95.03%  
 Blended total 5856.2

**Average Trip Length: 4.90**  
**Weighted Average Trip Length: 5.38**

Weighted Percent New Trip Average: 88.8  
 Weighted Average Trip Generation Rate: 17.22  
 ITE Average Trip Generation Rate (8th): 12.76  
**Blend of FL Studies and ITE Average Trip Generation Rate: 12.98**  
 Average VMT: 76.50  
 Weighted Average VMT: 62.04

**Building Materials and Lumber Store (ITE LUC 812)**

| 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 | 86.9            | Jun-93 | 40                 | -                        | -             | 7a-430p     | 6.58        | 73.0              | -   | Tindale-Oliver & Associates |
| Tampa, FL | 98.5            | Jun-93 | 40                 | -                        | -             | 7a-430p     | 6.00        | -                 | -   | Tindale-Oliver & Associates |
| Tampa, FL | -               | Jun-93 | 40                 | -                        | -             | 7a-430p     | 5.87        | 75.7              | -   | Tindale-Oliver & Associates |

Total Size 185.4

**Average Trip Length: 6.15**  
**Weighted Average Trip Length: 6.27**

Weighted Percent New Trip Average: 74.4  
 Weighted Average Trip Generation Rate: -  
**ITE Average Trip Generation Rate (8th): 45.16**



**Shopping Center (ITE LUC 820)**

| 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 | 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              | -      | Kimley-Horn & Associates          |   |
| Tampa, FL              | -               | Mar-86 | 144                | -                                    | -             | -           | 2.50        | -                 | -      | Kimley-Horn & Associates          |   |
| St. Petersburg, FL     | 1,192.0         | Aug-89 | 384                | 298                                  | -             | 11a-7p      | 3.60        | 78.0              | -      | 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                                  | -             | 9a-6p       | 3.20        | 80.0              | -      | Tindale-Oliver & Associates       |   |
| Seminole, FL           | 425.0           | Oct-89 | 674                | 586                                  | -             | -           | -           | 87.0              | -      | Tindale-Oliver & Associates       |   |
| Hillsborough Co, FL    | 134.0           | Jul-91 | -                  | -                                    | -             | -           | 1.30        | 74.0              | -      | Tindale-Oliver & Associates       |   |
| Hillsborough Co, FL    | 151.0           | Jul-91 | -                  | -                                    | -             | -           | 1.30        | 73.0              | -      | Tindale-Oliver & Associates       |   |
| Collier Co, FL         | -               | 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       |   |
| Sarasota/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      | -           | 64.0              | -      | King Engineering Associates, Inc. |   |
| Gwinnett Co, GA        | 99.1            | Dec-92 | -                  | -                                    | 46.00         | -           | 3.20        | 70.0              | 103.04 | Street Smarts                     |   |
| Gwinnett Co, GA        | 314.7           | Dec-92 | -                  | -                                    | 27.00         | -           | 8.50        | 84.0              | 192.78 | Street Smarts                     |   |
| Sarasota Co, FL        | 110.0           | Jun-93 | 58                 | 58                                   | 122.14        | -           | 3.20        | -                 | -      | Sarasota County                   |   |
| Sarasota Co, FL        | 146.1           | Jun-93 | 65                 | 65                                   | 51.53         | -           | 2.80        | -                 | -      | Sarasota County                   |   |
| Sarasota Co, FL        | 157.5           | Jun-93 | 57                 | 57                                   | 79.79         | -           | 3.40        | -                 | -      | Sarasota County                   |   |
| Sarasota Co, FL        | 191.0           | Jun-93 | 62                 | 62                                   | 66.79         | -           | 5.90        | -                 | -      | Sarasota County                   |   |
| Hernando Co, FL        | 107.8           | 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 | -                  | -                                    | 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                | -                                    | 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 | -                  | 390                                  | 54.50         | 8a-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         | -           | 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       |   |
| <b>Total Size</b>      | <b>5,757.5</b>  |        | <b>7,536</b>       |                                      |               |             |             |                   |        |                                   |   |
|                        |                 |        |                    | <b>Average Trip Length:</b>          |               | <b>n/a</b>  |             |                   |        |                                   |   |
|                        |                 |        |                    | <b>Weighted Average Trip Length:</b> |               | <b>n/a</b>  |             |                   |        |                                   |   |
|                        |                 |        |                    | Weighted Percent New Trip Average:   |               |             |             |                   |        |                                   | - |

**New Car 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                | 106  | 29.40         | 9a-5p       | 4.50        | 78.0              | 103.19 | Tindale-Oliver & Associates |              |
| <b>Total Size</b>    | <b>86.0</b>     |        | <b>288</b>         |  |               |             |             |                   |        |                             |              |
| <b>ITE</b>           | <b>374.0</b>    |        |                    |  |               |             |             |                   |        |                             |              |
| <b>Blended total</b> | <b>460.0</b>    |        |                    |  |               |             |             |                   |        |                             |              |
|                      |                 |        |                    | <b>Average Trip Length:</b>                                      |               | <b>4.60</b> |             |                   |        |                             |              |
|                      |                 |        |                    | <b>Weighted Average Trip Length:</b>                             |               | <b>4.60</b> |             |                   |        |                             |              |
|                      |                 |        |                    | Weighted Percent New Trip Average:                               |               |             |             |                   |        |                             | 78.5         |
|                      |                 |        |                    | Weighted Average Trip Generation Rate:                           |               |             |             |                   |        |                             | 29.40        |
|                      |                 |        |                    | ITE Average Trip Generation Rate (8th):                          |               |             |             |                   |        |                             | 33.34        |
|                      |                 |        |                    | <b>Blend of FL Studies and ITE Average Trip Generation Rate:</b> |               |             |             |                   |        |                             | <b>29.85</b> |
|                      |                 |        |                    | Average VMT:   |               |             |             |                   |        |                             | 103.19       |
|                      |                 |        |                    | Weighted Average VMT:  |               |             |             |                   |        |                             | 107.79       |

**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 |               |
| <b>Total Size</b>    | <b>62.0</b>     |        | <b>163</b>         |  |               |             |             |                   |        |                             |               |
| <b>ITE</b>           | <b>156.0</b>    |        |                    |  |               |             |             |                   |        |                             |               |
| <b>Blended total</b> | <b>218.0</b>    |        |                    |  |               |             |             |                   |        |                             |               |
|                      |                 |        |                    | <b>Average Trip Length:</b>                                      |               | <b>2.08</b> |             |                   |        |                             |               |
|                      |                 |        |                    | <b>Weighted Average Trip Length:</b>                             |               | <b>2.08</b> |             |                   |        |                             |               |
|                      |                 |        |                    | Weighted Percent New Trip Average:                               |               |             |             |                   |        |                             | 56.0          |
|                      |                 |        |                    | Weighted Average Trip Generation Rate:                           |               |             |             |                   |        |                             | 106.26        |
|                      |                 |        |                    | ITE Average Trip Generation Rate (8th):                          |               |             |             |                   |        |                             | 102.24        |
|                      |                 |        |                    | <b>Blend of FL Studies and ITE Average Trip Generation Rate:</b> |               |             |             |                   |        |                             | <b>103.38</b> |
|                      |                 |        |                    | Average VMT:   |               |             |             |                   |        |                             | 123.77        |
|                      |                 |        |                    | Weighted Average VMT:  |               |             |             |                   |        |                             | 120.42        |



**Service Station w/Convenience Market (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      | 66                 | 24                       | 997.60        | 24hr.       | 1.67        | 36.4              | 606.42 | Tindale-Oliver & Associates |
| Marion Co, FL  | 4.4             | Jun-91      | 85                 | 25                       | 486.70        | 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                       | -             | -           | 1.06        | 20.5              | -      | Tindale-Oliver & Associates |
| Tampa, FL      | 2.3             | 10/13-15/92 | 239                | 74                       | -             | 24hr.       | 1.06        | 31.1              | -      | Tindale-Oliver & Associates |
| 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 & Associates |
| Marion Co, FL  | 2.5             | Apr-02      | 87                 | -                        | 719.79        | 24hr.       | 1.62        | 32.8              | 322.19 | Kimley-Horn & Associates    |
| Marion Co, FL  | 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 | 15.6 | 1,148 | <b>Average Trip Length: 1.44</b>          |  |
| ITE           | 30.0 | 30.0 |       | <b>Weighted Average Trip Length: 1.51</b> |  |
| Blended total | 55.1 | 45.6 |       | Weighted Percent New Trip Average: 27.7   |  |

Weighted Average Trip Generation Rate: 845.60  
 ITE Average Trip Generation Rate (8th): 845.60  
**Blend of FL Studies and ITE Average Trip Generation Rate: 775.14**  
 Average VMT: 254.66  
 Weighted Average VMT: 324.28

**Pharmacy/Drugstore with and without Drive-Through Window (ITE LUC 880 & 881)**

| Location     | Size (1,000 sf) | Date   | Total # Interviews | # Trip Length Interviews | Trip Gen Rate | Time Period | Trip Length | Percent New Trips | VMT    | Source                      |
|--------------|-----------------|--------|--------------------|--------------------------|---------------|-------------|-------------|-------------------|--------|-----------------------------|
| Pasco Co, FL | 11.1            | Apr-02 | 138                | 38                       | 88.97         | -           | 2.05        | 27.5              | 50.23  | Tindale-Oliver & Associates |
| Pasco Co, FL | 12.0            | Apr-02 | 212                | 90                       | 122.16        | -           | 2.04        | 42.5              | 105.79 | Tindale-Oliver & Associates |
| Pasco Co, FL | 15.1            | Apr-02 | 1192               | 54                       | 97.96         | -           | 2.13        | 28.1              | 58.69  | Tindale-Oliver & Associates |

|               |       |  |       |   |  |
|---------------|-------|--|-------|---|--|
| Total Size    | 38.2  |  | 1,542 | <b>Average Trip Length: 2.07</b>          |  |
| ITE           | 108.0 |  |       | <b>Weighted Average Trip Length: 2.08</b> |  |
| Blended total | 146.2 |  |       | Weighted Percent New Trip Average: 32.5   |  |

Average Trip Generation Rate: 103.03  
 ITE Average Trip Generation Rate, 8th edition (LUC 880 / 881): 88.16 / 90.06  
**Blend of FL Studies and ITE Average Trip Generation Rate: 92.88**  
 Average VMT: 71.57  
 Weighted Average VMT: 62.71

**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                       | -             | -           | 4.63        | 52.5              | -   | Tindale-Oliver & Associates |
| Tampa, FL | 16.9            | Jul-92     | 68                 | 39                       | -             | -           | 7.38        | 55.7              | -   | Tindale-Oliver & Associates |

|            |      |  |     |   |  |
|------------|------|--|-----|---|--|
| Total Size | 31.9 |  | 132 | <b>Average Trip Length: 6.01</b>          |  |
|            |      |  |     | <b>Weighted Average Trip Length: 6.09</b> |  |
|            |      |  |     | Weighted Percent New Trip Average: 54.2   |  |

Average Trip Generation Rate: -  
 ITE Average Trip Generation Rate (8th): 5.06

**Drive-In Bank (ITE LUC 912)**

| 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 | 77                 | -                        | -             | -           | 2.40        | -                 | -      | Kimley-Horn & Associates    |
| Tampa, FL       | -               | Mar-86 | 211                | -                        | -             | -           | -           | 54.0              | -      | Kimley-Horn & Associates    |
| Clearwater, FL  | 0.4             | Aug-89 | 113                | 52                       | -             | 9a-6p       | 5.20        | 46.0              | -      | Tindale-Oliver & Associates |
| Largo, FL       | 2.0             | Sep-89 | 129                | 94                       | -             | -           | 1.60        | 73.0              | -      | Tindale-Oliver & Associates |
| Seminole, FL    | 4.5             | Oct-89 | -                  | -                        | -             | -           | -           | -                 | -      | Tindale-Oliver & Associates |
| Marion Co, FL   | 2.3             | Jun-91 | 69                 | 29                       | -             | 24hr.       | 1.33        | 42.0              | -      | Tindale-Oliver & Associates |
| Marion Co, FL   | 3.1             | Jun-91 | 47                 | 32                       | -             | 24hr.       | 1.75        | 68.1              | -      | Tindale-Oliver & Associates |
| Marion Co, FL   | 2.5             | Jul-91 | 57                 | 26                       | -             | 48hrs.      | 2.70        | 45.6              | -      | Tindale-Oliver & Associates |
| Collier Co, FL  | -               | Aug-91 | 162                | 96                       | -             | 24hr.       | 0.88        | 59.3              | -      | Tindale-Oliver & Associates |
| Collier Co, FL  | -               | Aug-91 | 116                | 54                       | -             | -           | 1.58        | 46.6              | -      | Tindale-Oliver & Associates |
| Collier Co, FL  | -               | Aug-91 | 142                | 68                       | -             | -           | 2.08        | 47.9              | -      | Tindale-Oliver & Associates |
| Hernando Co, FL | 5.4             | May-96 | 164                | 41                       | -             | 9a-6p       | 2.77        | 24.7              | -      | Tindale-Oliver & Associates |
| Marion Co, FL   | 2.4             | Apr-02 | 70                 | -                        | -             | 24hr.       | 3.55        | 54.6              | -      | Kimley-Horn & Associates    |
| Marion Co, FL   | 2.7             | May-02 | 50                 | -                        | 246.66        | 24hr.       | 2.66        | 40.5              | 265.44 | Kimley-Horn & Associates    |

|               |      |      |       |   |  |
|---------------|------|------|-------|---|--|
| Total Size    | 25.2 | 2.7  | 1,407 | <b>Average Trip Length: 2.38</b>          |  |
| ITE           | 21.0 | 21.0 |       | <b>Weighted Average Trip Length: 2.46</b> |  |
| Blended total | 46.2 | 23.7 |       | Weighted Percent New Trip Average: 46.2   |  |

Weighted Average Trip Generation Rate: 246.66  
 ITE Average Trip Generation Rate (8th): 148.15  
**Blend of FL Studies and ITE Average Trip Generation Rate: 159.34**  
 Average VMT: 265.44  
 Weighted Average VMT: 180.91



**Sit-Down 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          | -               | 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  | 8.0   | 313 |
| ITE           | 135.0 | 135.0 |     |
| Blended total | 150.5 | 143.0 |     |

|                               |      |
|-------------------------------|------|
| Average Trip Length:          | 2.80 |
| Weighted Average Trip Length: | 3.14 |

Weighted Percent New Trip Average: 76.7  
 Weighted Average Trip Generation Rate: 110.63  
 ITE Average Trip Generation Rate: 89.95  
**Blend of FL Studies and ITE Average Trip Generation Rate: 91.10**  
 Average VMT: 207.54  
 Weighted Average VMT: 219.34

**High-Turnover Restaurant (ITE LUC 932)**

| Location           | Size (1,000 sf) | Date   | Total # Interviews | # Trip Length Interviews | Trip Gen Rate | Time Period | Trip Length | Percent New Trips | VMT    | Source                      |
|--------------------|-----------------|--------|--------------------|--------------------------|---------------|-------------|-------------|-------------------|--------|-----------------------------|
| Hernando Co, FL    | 6.2             | May-96 | 242                | 175                      | 187.51        | 9a-6p       | 2.76        | 72.5              | 375.00 | Tindale-Oliver & Associates |
| Hernando Co, FL    | 8.2             | May-96 | 154                | 93                       | 102.71        | 9a-6p       | 4.15        | 60.2              | 256.43 | Tindale-Oliver & Associates |
| St. Petersburg, FL | 5.0             | Oct-89 | 74                 | 68                       | 132.60        | 1130-7p     | 2.00        | 92.0              | 243.98 | Tindale-Oliver & Associates |
| Kennelth City, FL  | 5.2             | Oct-89 | 236                | 176                      | 127.88        | 4p-730p     | 2.30        | 75.0              | 220.59 | Tindale-Oliver & Associates |
| Pasco Co, FL       | 5.2             | Apr-02 | 114                | 88                       | 82.47         | 9a-6p       | 3.72        | 77.2              | 236.81 | Tindale-Oliver & Associates |
| Pasco Co, FL       | 5.8             | Apr-02 | 182                | 102                      | 116.97        | 9a-6p       | 3.49        | 56.0              | 228.77 | Tindale-Oliver & Associates |

|               |       |  |       |
|---------------|-------|--|-------|
| Total Size    | 35.6  |  | 1,102 |
| ITE           | 98.0  |  |       |
| Blended total | 133.6 |  |       |

|                               |      |
|-------------------------------|------|
| Average Trip Length:          | 3.07 |
| Weighted Average Trip Length: | 3.17 |

Weighted Percent New Trip Average: 70.8  
 Weighted Average Trip Generation Rate: 124.69  
 ITE Average Trip Generation Rate: 127.15  
**Blend of FL Studies and ITE Average Trip Generation Rate: 126.50**  
 Average VMT: 260.26  
 Weighted Average VMT: 283.77

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

| 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                | -                        | -             | -           | -           | 65.0              | -       | 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              | -       | Tindale-Oliver & Associates |
| Marion Co, FL      | 1.60            | Jun-91 | 60                 | 32                       | 962.50        | 48hrs.      | 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        | 48.8              | 425.04  | Tindale-Oliver & Associates |
| Lake Co, FL        | 2.20            | Apr-01 | 376                | 252                      | 934.30        | -           | 2.50        | 74.6              | 1742.47 | Tindale-Oliver & Associates |
| Lake Co, FL        | 3.20            | Apr-01 | 171                | 182                      | 654.90        | -           | 4.10        | 47.8              | 1283.47 | Tindale-Oliver & Associates |
| Lake Co, FL        | 3.80            | Apr-01 | 188                | 137                      | 353.70        | -           | 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              | 664.20  | 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 |

|               |       |      |       |
|---------------|-------|------|-------|
| Total Size    | 39.9  | 34.0 | 4,463 |
| ITE           | 63.0  | 63.0 |       |
| Blended total | 102.9 | 97.0 |       |

|                               |      |
|-------------------------------|------|
| Average Trip Length:          | 2.42 |
| Weighted Average Trip Length: | 2.05 |

Weighted Percent New Trip Average: 57.9  
 Weighted Average Trip Generation Rate: 564.46  
 ITE Average Trip Generation Rate (8th): 496.12  
**Blend of FL Studies and ITE Average Trip Generation Rate: 522.62**  
 Average VMT: 765.14  
 Weighted Average VMT: 620.02



### Automobile Repair Shop (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                       | -             | 9a-5p                                     | 2.96        | 67.0              | -     | Tindale-Oliver & Associates |
| Jacksonville, FL | 2.4             | 2/3-4/90 | 132                | 87                       | -             | 9a-5p                                     | 2.32        | 66.0              | -     | Tindale-Oliver & Associates |
| Lakeland, FL     | 5.2             | Mar-90   | 24                 | 14                       | -             | 9a-4p                                     | 1.36        | 59.0              | -     | Tindale-Oliver & Associates |
| Largo, FL        | 5.5             | Sep-89   | 34                 | 30                       | 37.64         | 9a-5p                                     | 2.40        | 88.0              | 79.50 | Tindale-Oliver & Associates |
| Orange Co, FL    | 25.0            | Nov-92   | 41                 | 39                       | -             | 2-6p                                      | 4.60        | -                 | -     | LCE, Inc.                   |
| Lakeland, FL     | -               | Mar-90   | 54                 | 42                       | -             | 9a-4p                                     | 2.44        | 78.0              | -     | Tindale-Oliver & Associates |
| Total Size       | 42.6            | 5.5      | 519                |                          |               | <b>Average Trip Length: 2.74</b>          |             |                   |       |                             |
| ITE              | 60.0            | 60.0     |                    |                          |               | <b>Weighted Average Trip Length: 3.62</b> |             |                   |       |                             |
| Blended total    | 102.6           | 65.5     |                    |                          |               | Weighted Percent New Trip Average:        |             | 72.2              |       |                             |

Weighted Average Trip Generation Rate: 37.64  
 ITE Average Trip Generation Rate (8th): 33.80  
**Blend of FL Studies and ITE Average Trip Generation Rate: 34.12**  
 Average VMT: 79.50  
 Weighted Average VMT: 89.19

### Self-Service Car Wash (ITE LUC 947)

| Location       | Size (Bays) | Date   | Total # Interviews | # Trip Length Interviews | Trip Gen Rate | Time Period                               | Trip Length | Percent New Trips | VMT | Source                      |
|----------------|-------------|--------|--------------------|--------------------------|---------------|---|-------------|-------------------|-----|-----------------------------|
| Largo, FL      | 5.8         | Nov-89 | 111                | 84                       | -             | 8am-5pm                                   | 2.00        | 76.0              | -   | Tindale-Oliver & Associates |
| Clearwater, FL | -           | Nov-89 | 177                | 108                      | -             | 10am-5pm                                  | 1.30        | 61.0              | -   | Tindale-Oliver & Associates |
| Collier Co, FL | 11          | Jan-09 | -                  | -                        | 30.24         | -   | -           | -                 | -   | Tindale-Oliver & Associates |
| Collier Co, FL | 8           | Jan-09 | -                  | -                        | 22.75         | -   | -           | -                 | -   | Tindale-Oliver & Associates |
| Total Size     | 24.8        | 19.0   | 288                |                          |               | <b>Average Trip Length: 1.65</b>          |             |                   |     |                             |
| ITE            | 5.0         | 5.0    |                    |                          |               | <b>Weighted Average Trip Length: 2.00</b> |             |                   |     |                             |
| Blended total  | 29.8        | 24.0   |                    |                          |               | Weighted Percent New Trip Average:        |             | 17.8              |     |                             |

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**

### Gasoline/Fast Food/Convenience Store (ITE LUC -)

| Location            | Size (1,000 sf) | Date   | Total # Interviews | # Trip Length Interviews | Trip Gen Rate | Time Period                               | Trip Length | Percent New Trips | VMT      | Source                      |
|---------------------|-----------------|--------|--------------------|--------------------------|---------------|---|-------------|-------------------|----------|-----------------------------|
| Volusia Co, FL      | -               | -      | -                  | -                        | 918.00        | -   | 2.40        | 33.0              | 727.06   | Tindale-Oliver & Associates |
| Collier Co, FL      | 2.4             | Nov-99 | -                  | 128                      | 1399.58       | 8a-6p                                     | 4.10        | 13.3              | 763.19   | Tindale-Oliver & Associates |
| Indian River Co, FL | 2.5             | Mar-98 | 132                | 52                       | 748.30        | 8a-6p                                     | 3.70        | 19.7              | 545.44   | Tindale-Oliver & Associates |
| Indian River Co, FL | 3.0             | Mar-98 | 107                | 84                       | 563.10        | 8a-6p                                     | 2.00        | 39.3              | 442.60   | Tindale-Oliver & Associates |
| Indian River Co, FL | 3.1             | Mar-98 | 132                | 110                      | 1396.00       | 8a-6p                                     | 1.80        | 41.7              | 1,047.84 | Tindale-Oliver & Associates |
| Collier Co, FL      | 3.3             | Nov-99 | -                  | 144                      | 862.56        | 8a-6p                                     | 2.20        | 39.6              | 751.46   | Tindale-Oliver & Associates |
| Total Size          | 14.3            |        | 371                |                          |               | <b>Average Trip Length: 2.70</b>          |             |                   |          |                             |
|                     |                 |        |                    |                          |               | <b>Weighted Average Trip Length: 2.65</b> |             |                   |          |                             |
|                     |                 |        |                    |                          |               | Weighted Percent New Trip Average:        |             | 32.1              |          |                             |

**Weighted Average Trip Generation Rate: 984.59**  
 ITE Average Trip Generation Rate (8th): -  
 Average VMT: 712.93  
 Weighted Average VMT: 838.72

