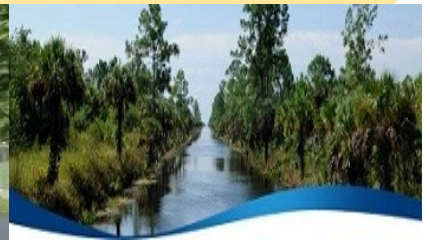


**ANNUAL UPDATE & INVENTORY REPORT/CAPITAL
IMPROVEMENT ELEMENT SCHEDULE
UPDATE ON PUBLIC FACILITIES
2017 AUIR/CIE**



Collier County B.C.C.

- District 1 — Donna Fiala
- District 2 — Andy Solis, Vice Chairman
- District 3 — Burt L. Saunders
- District 4 — Penny Taylor, Chairman,
- District 5 — William L. McDaniel, Jr.

**COLLIER COUNTY BOARD OF
COUNTY COMMISSIONERS**

NOVEMBER 14, 2017

Prepared by:

**Comprehensive Planning Section
Zoning Division**

Growth Management Department

2800 N. Horseshoe Drive

Naples, FL 34104

EXECUTIVE SUMMARY

Recommendation to review and approve the 2017 combined Annual Update and Inventory Report on Public Facilities and Schedule of Capital Improvements as provided for in Section 6.02.02 of the Collier County Land Development Code and Section 163.3177(3)(b), Florida Statutes and adopt a Resolution that updates the 5-year Capital Improvement Schedules. (PL-20170000596/CPSP-2017-1)

OBJECTIVE: For the Board of County Commissioners (Board) to review and approve (adopt) the combined 2017 Annual Update and Inventory Report (AUIR)/Capital Improvement Element (CIE) on public facilities and the corresponding specific projects and associated funding sources for inclusion in the Schedule of Capital Improvements within the CIE during the FY17/18 annual update (only Category “A” Public Facilities are included in the CIE).

BACKGROUND: Chapter 163, Part II, Florida Statutes, requires the County to adopt certain Land Development Regulations (LDR) to implement its Growth Management Plan adopted on January 10, 1989. Land Development Code (LDC) Section 6.02.00 requires the County to, “*Provide that public facilities and services meet or exceed the standards established in the CIE required by Section 163.3177 and are available when needed for the development...*” This Section of Chapter 163, Part II, Florida Statutes is commonly known as the concurrency requirement. Accordingly, on March 21, 1990, the Board adopted the Collier County Adequate Public Facilities Ordinance No. 90-24. This Ordinance was subsequently codified in LDC Section 6.02.02.

Statutory changes initiated by HB7207 in 2011 [which is now Chapter 2011-139, Laws of Florida] only require from each local government that they maintain concurrency management for its Stormwater Management System, Potable Water System, Wastewater Collection and Treatment System and Solid Waste Disposal services and facilities. During the 2011 AUIR/CIE process, the County decided to maintain concurrency for the optional facilities of Schools, Arterial and Collector Roads and Bridges, and Parks and Recreation facilities, based upon the perspective that maintaining concurrency management for the optional facilities is necessary to sustain the currently identified levels of service for the respective facilities and to ensure that the demands of new development are provided for by system expansion corresponding to those demands.

As noted, LDC Section 6.02.02 establishes the management and monitoring program for public facilities, which provides for an annual determination of Level of Service (LOS) Standard concurrency for Category “A” public facilities and identification of need for additional facilities. Category “A” facilities are arterial and collector roads, drainage system and stormwater management, potable water supply and distribution, wastewater collection and treatment, solid waste disposal, public schools, and parks. The AUIR also provides analysis and recommendations on Category “B” facilities for which the County has adopted LOS Standards and collects impact fees. Category “B” facilities are jail and correctional facilities, law enforcement, library buildings and collections, emergency medical services, and government buildings. Adoption of LOS Standards for Category “B” facilities legally validate impact fees for these facilities.

At the direction of the County Manager, Coastal Zone beach re-nourishment and inlet management projects were added to the AUIR in 2013, within a new Category “C”. This addition allows the Board to formally and predictably evaluate the condition of each project for their respective capital programming. Category “C” areas (coastal zone beaches and inlets) are not subject to concurrency management or coupled to impact fee funding. The quality and usability of these features are sustained through periodic surveys, and maintenance and management programs, funded with tourist development taxes and other revenue sources.

GROWTH MANAGEMENT IMPACT: Preparation and presentation of the AUIR to the CCPC and Board meets the requirements of LDC Section 6.02.02 for an annual determination of the status of public facilities. Board direction to include the projects identified in the AUIR in a financially feasible Schedule of Capital Improvements will establish and maintain concurrency for Category “A” public facilities, except roads, for the next twelve months. Road projects needed to remedy levels of service deficiencies must be in the first or second year of the Schedule of Capital Improvements.

Based upon statutory changes initiated in 2011, the CIE Schedule of Capital Improvements is no longer required to be sent to the State Land Planning agency and requires only a single public hearing before the Collier County Planning Commission (sitting in its official role as the County’s land planning agency) and a single public hearing before the governing board (Board) as an adoption hearing. This single hearing process allows for concurrent hearings of the AUIR and CIE.

Dependent Fire Protection Districts – Prior to 2015 the County supported two dependent fire protection districts; the Ochopee Fire Control and Isle of Capri Fire Rescue Services. The Isle of Capri service area was merged into the reconfigured, independent “Greater Naples Fire Rescue District” [as of October 1, 2015] – the Ochopee service area, was then merged into the Greater Naples Fire Rescue District [as of November 1, 2016] – and their update and inventory are no longer components of the AUIR.

Schools – The Schools section of the AUIR stands as a unique component. A summary of the School District Five-Year Capital Improvement Plan is being provided for review by the CCPC. But when the AUIR is reviewed, the School District’s Capital Improvement Program (CIP) will already have been approved by the School Board, as required by the Florida Department of Education. The proposed School CIP has been reviewed by County staff in conjunction with School District staff to ensure no inconsistencies exist with the timing of new facilities and required infrastructure. The District’s five-year CIP includes the construction of an addition and renovations to the existing Immokalee High School (’22) and the planning, engineering and construction phases for a new high school (’23). While the Schools component is included as part of the Category “A” facilities which dictate the concurrency management system for the County, concurrency management for schools is administered by the School District.

The CIE was amended earlier in 2017, and requirements have changed for updating references to School District documents. Each year, the County adopts, by reference, into its CIE, the School District’s annually updated financially feasible Five-Year Capital Improvement Plan and the District Facilities Work Program to achieve and maintain the adopted level of service standards for Public School Facilities. The School District Five-Year Capital Improvement Plan identifies the financially feasible school facility capacity projects necessary to address existing deficiencies and future needs based on achieving and maintaining adopted LOS standards for schools. The District Facilities Work Program, prepared by the School District pursuant to Section 1013.35(1)(b), F.S., is adopted as part of the data and analysis in support of the School District’s Five-Year Capital Improvement Plan. Adoption by the County, of the School District’s Capital Improvement Plan and the District Facilities Work Program now occurs, without requiring separate action, with approval of the annual update to the Schedule of Capital Improvements.

The action sought related to the School District’s proposed CIP is *to include the District’s Capital Improvement Plan by reference within the CIE and that no inconsistencies are contained within the District’s Capital Improvement Plan compared to the other planned capital improvements within the AUIR or CIE.*

Level of Service Appropriateness – The AUIR provides the opportunity to evaluate the appropriateness of currently adopted LOS Standards. Within each individual section, the AUIR includes year-to-year demand for service or demands upon the system or facilities to assist the advisory boards and Board in this determination.

The established LOS Standards for most AUIR components are currently satisfied based upon the levels of service and current population levels, but steadily-increasing population growth continues to deplete the available capacity of the respective infrastructure and service providers. Based upon this diminishing capacity, the due diligence process to bring about the next generation of system and facilities’ expansions has begun and requires continued revenue growth needed to maintain the LOS Standards for the system providers.

Unlike Category “A” facilities, LOS Standards for Category “B” facilities are not classified in the CIE. They are established by, and found only in, the AUIR. This means they may be evaluated here, as well as revised along with the AUIR itself. One such LOS Standard is evaluated and is recommended to be revised – this being the Standard for Law Enforcement Facilities. The current LOS Standard uses population figures to produce a requirement for a specified number of officers [Sheriff’s Deputies] to serve that population – and the building square footage needed for these officers. But the space needed for these personnel is no longer

thought to be the best indicator, of Standard, on which to base the level of service. Certainly, the needs of the Sheriff’s Department continue to grow, but this growth is not necessarily correlated to population. Instead, it has changed to correlate more closely with the general changes occurring in the law enforcement profession – such as, the type of vehicles and equipment used (and their storage needs), technological advancements, dealing with aging facilities and the need to meet State standards for a convenient and secure Forensic Sciences Building, and so forth.

With these goals in mind, a revised LOS Standard is proposed; one which recognizes Law Enforcement facilities based on these current and future needs rather than officer counts.

Population – The population projections utilized with the 2017 AUIR are based upon prior Board policy direction and acceptance from the State of Florida Department of Economic Opportunity (DEO). The population method utilizes the Bureau of Economic and Business Research (BEBR) Medium Range projections for the entire projection period with a 20 percent seasonal adjustment factor applied to permanent population projections. The chart below is a comparison of the past six years of projected permanent population growth.

AUIR Year	BEBR Estimate	Permanent Population					5 Year Growth Percent	Growth Percent Annualized
		Following 5-Year BEBR Growth Projections						
2012	330,507	335,060	339,676	345,235	351,767	358,423	8.44%	1.69%
2013	338,230	343,928	350,296	357,359	364,564	371,914	9.96%	1.99%
2014	341,914	348,373	354,982	361,717	368,579	375,571	9.84%	1.97%
2015	346,371	352,771	359,289	365,927	372,688	379,084	9.44%	1.89%
2016	353,936	360,846	367,892	375,074	381,722	387,814	9.57%	1.91%
2017	360,825	368,073	375,467	382,465	389,053	395,753	9.68%	1.93%

The above table illustrates 2017 as another successive year in which the annualized growth rate is projected at under two percent of the total population. This outlook continues to reinforce the contemporary growth reality for the County. The recalibration of Collier County’s population through the 2010 Census had provided additional capacity to each of the AUIR/CIE population based systems; but as noted, the population added since 2010 continues to consume this capacity. As such, each of the AUIR providers continue the due diligence process for their next system expansion. The population increase for the five-year population projection period totals 34,928 or 6,986 per year. The 6,986 of annual new population, utilizing the County’s average 2.38 person per household rate, translates to **2,935** new dwelling units (assuming the new population were housed only by new units and not existing inventory). Based upon the CO data compiled by Growth Management for April 2016 through March 2017, approximately 2,776 single-family dwellings were constructed and 980 multi-family units built – for a total of 3,756 units completed. This figure represents an increase over the previous year’s residential construction, when 3,325 units were completed. These figures are provided to better evaluate the market’s response to the demand for new housing units.

In addition, on June 27 by Resolution 2017-123, the Board directed that population projections for Golden Gate City be prepared beginning with fiscal year 2017/18. The expectation is for the County to serve all portions of the Florida Governmental Utility Authority (FGUA) franchise utility service area east of Santa Barbara Blvd. within the 10-year AUIR planning window. The future service area can be more specifically described as all of Sections 21, 22, 23, and 28 and portions of Sections 15 and 16 in Township 49 S, Range 26 E, as bounded by Green Blvd. on the north, Collier Blvd. on the east, Golden Gate Canal on the south, and Santa Barbara Blvd on the west. The population figures for this area are provided within Appendix I of the AUIR/CIE booklet.

FISCAL IMPACT: Revenues are required to fund the CIE projects proposed in the 2017 AUIR/CIE for the FY17/18 thru FY21/22 planning period to maintain financial feasibility of scheduled Category “A” facility improvements. These funds must be made available by the Board of County Commissioners or fall within the Board’s statutory general governmental taxing authority. Current and proposed revenues needed to fund public facility construction/expansion for FY17/18 thru FY21/22 CIE planning period are set forth in each respective capital facilities section of the 2017 AUIR/CIE update. Project expenditures more than estimated impact fee, gas tax, and user fee revenue receipts and funded bonds are reflected as being augmented by general governmental sources in the body of this document. General governmental sources are those existing sales tax revenues and other state shared revenues, or ad valorem allocations at the Board’s discretion. Note that all projects identified within the Category “A” facilities have identified funding for the improvement.

All Category “B” facility improvements require loans from general governmental sources to augment the impact fee, interest, and other revenue sources. Additionally, to fund the proposed five-year improvements contained within this year’s CIE will require the Board to utilize Debt Service, or to initiate other options provided by Policy 2.9 of the CIE to address the situation. The informational tables detailing the revenue and debt service for the AUIR divisions/departments for the five-year capital improvement planning period, as well as the long-term debt financing schedules, are provided within Appendix I of the AUIR/CIE booklet.

It should be noted that the revenue required for the improvements identified within this year’s AUIR/CIE will require debt financing.

LEGAL CONSIDERATIONS: Section 163.3711 (3)(b), F.S. provides “The capital improvements element must be reviewed by the local government on an annual basis. Modifications to update the 5-year capital improvement schedule may be accomplished by ordinance and may not be deemed to be amendments to the local comprehensive plan”. This item is approved as to form and legality. Since the modification of the capital improvement schedule is not a Growth Management Plan amendment, a simple majority vote of the Board is needed for adoption. [HFAC]

COLLIER COUNTY PLANNING COMMISSION (CCPC) RECOMMENDATION: The CCPC heard this petition at their October 19, 2017 meeting. The CCPC provided the Board recommendations of unanimous approval to: accept and approve the attached document as the 2017 Annual Update and Inventory Report on Public Facilities; accept and approve by separate motion and vote the Category “A”, “B” and “C” facilities relative to projects and revenue sources, with Category “A” facilities set forth for inclusion in the Schedule of Capital Improvements of the annual CIE update and amendment; find that no inconsistencies are contained within the School District’s Capital Improvement Plan compared to the other planned capital improvements within the AUIR or CIE; consider alternative levels of service for individual components of the AUIR, where deemed appropriate; and, adopt the CIE Schedule of Capital Improvements update, and by reference, the School District’s Capital Improvement Plan and the District Facilities Work Program.

The CCPC also provided the Board with a recommendation to consider inventorying and showing graphically beach accesses as a component of the Parks and Recreation Facilities section in the AUIR, rather than being reported along with other facilities in an appendix.

STAFF RECOMMENDATION TO THE BOARD OF COUNTY COMMISSIONERS: That the Board of County Commissioners:

1. Find based on the 2017 AUIR that adequate Stormwater Management drainage canals and structures⁺, Potable Water, Wastewater Collection and Treatment, Solid Waste Disposal, Public Schools and, Parks and Recreation facilities will be available, as defined by the Collier County Concurrency Management System, as implemented by Section 6.02.02 of the LDC, to support development order issuance until presentation of the 2018 AUIR.
2. Provide a motion that sufficient road network capacity in the Transportation Concurrency Management Database is available for continued operation of the real-time declining balance ledger to support development order issuance.

3. Find that no inconsistencies are contained within the School District's Capital Improvement Plan compared to the other planned capital improvements within the AUIR or CIE.
4. Approve an alternative level of service for the Category "B", Law Enforcement component of the AUIR, as deemed appropriate.
5. Approve the Resolution relating to the Capital Improvement Element of the Collier County Growth Management Plan to incorporate projects based on the 2017 Annual Update and Inventory Report on Public Facilities (AUIR), including updates to the 5-Year Schedule of Capital Improvements (for Fiscal Years 2017/18 – 2021/22) and the Schedule of Capital Improvements for Future 5-Year Period (for Fiscal Years 2022/23 – 2026/27) and transmit to the Florida Department of Economic Opportunity.

Prepared by: Mike Bosi, AICP, Director, Zoning Division, Growth Management Department

** It should be noted that due to the importance of viewing color maps and figures found in the AUIR/CIE adoption notebook, the full notebook is being provided as an upload into the ACCELA (Minute Traq) viewing system.*

+ Excluding older pre-platted subdivisions for single family homes.

Staff Report

Presentation to the Collier County Planning Commission of the 2017 combined Annual Update and Inventory Report on Public Facilities and Schedule of Capital Improvements as provided for in Chapter 6.02.02 of the Collier County Land Development Code and Section 163.3177(3)(b), Florida Statutes

OBJECTIVE:

That the Collier County Planning Commission (CCPC) review the combined 2017 Annual Update and Inventory Report (AUIR) on Public Facilities/Capital Improvement Element (CIE) and provide recommendations to the Collier County Board of County Commissioners (Board) on specific projects and associated funding sources for inclusion in the Schedule of Capital Improvements within the CIE during the FY17/18 annual update (only Category "A" public facilities are included in the CIE). The AUIR identifies capital needs for new facilities to serve population growth projected for the five-year AUIR period. As with past AUIR, this year's AUIR presents additional information related to individual division/department operational data. This additional data is provided to evaluate the year-to-year change in demand experienced by each AUIR component and to assist the CCPC in making recommendations on the appropriateness of the County's current Level of Service (LOS) Standards and timing/necessity of proposed projects. The AUIR constitutes the process of evaluating budgetary priorities, as well as determining appropriateness of the County's currently adopted LOS Standards.

BACKGROUND:

Chapter 163, Part II, Florida Statutes, requires the County to adopt certain Land Development Regulations (LDR) to implement its Growth Management Plan – adopted on January 10, 1989. Land Development Code (LDC) Section 6.02.00 required the County to, *"Provide that public facilities and services meet or exceed the standards established in the CIE required by Section 163.3177 and are available when needed for the development..."* This Section of Chapter 163, Part II, Florida Statutes is commonly known as the concurrency requirement. Accordingly, on March 21, 1990, the Board adopted the Collier County Adequate Public Facilities Ordinance No. 90-24. This Ordinance was subsequently codified in LDC Sections 6.02.02 through 6.02.09.

Statutory changes initiated by HB7207 in 2011 [which is now Chapter 2011-139, Laws of Florida] only require from each local government that they maintain concurrency management for its Stormwater Management System, Potable Water System, Wastewater Collection and Treatment System and Solid Waste Disposal services and facilities. During the 2011 AUIR/CIE process, the County decided to maintain concurrency for the optional facilities of Schools, Arterial and Collector Roads and Bridges, and Parks and Recreation facilities, based upon the perspective that maintaining concurrency management for the optional facilities is necessary to sustain the currently identified levels of service for the respective facilities and to ensure that the demands of new development are provided for by system expansion corresponding to those demands.

As noted, LDC Sections 6.02.02 through 6.02.09 establish the Management and Monitoring Program for public facilities, which provide for an annual determination of LOS Standard concurrency for Category "A" public facilities and identification of need for additional facilities. Category "A" facilities

are arterial and collector roads, drainage system and stormwater management, potable water supply and distribution, wastewater collection and treatment, solid waste disposal, public schools, and parks.

The AUJR also provides analysis and recommendations on Category "B" facilities for which the County has adopted LOS Standards and collects impact fees. Category "B" facilities are jail and correctional facilities, law enforcement, library buildings and collections, emergency medical services, and government buildings. Adoption of LOS Standards for Category "B" facilities legally validate impact fees for these facilities.

At the direction of the County Manager, Coastal Zone beach re-nourishment and inlet management projects were added to the AUJR in 2013, within a new Category "C". This addition allows the Board to formally and predictably evaluate the condition of each project for their respective capital programming. Category "C" areas (coastal zone beaches and inlets) are not subject to concurrency management or coupled to impact fee funding. The quality and usability of these features are sustained through periodic surveys, and maintenance and management programs, funded with tourist development taxes and other revenue sources.

Under provisions of LDC Sections 6.02.02 through 6.02.09, the Board's options in response to the needs identified in the AUJR include, but are not limited to, the following:

1. Establishment of Areas of Significant Influence (ASI) surrounding deficient road segments which are not in a Traffic Congestion Management Area (TCMA) or Traffic Congestion Exception Area (TCEA).
2. In response to the needs identified in the AUJR, Public Facility projects can be added to the financially feasible Schedule of Capital Improvements in the CIE. Road projects must be in the first or second year of the next adopted Schedule of Capital Improvements to be factored as available capacity in the real-time Transportation Concurrency Management System database.
3. Deferral of development order issuance will occur for development not vested by statute in areas affected by deficient Category "A" public facilities. This applies to necessary improvements both pending and not financially feasible, or not in the five-year CIE Schedule of Capital Improvements. Both circumstances could result in the following remedial action:
 - a. Modification of levels of service via Growth Management Plan amendment;
 - b. Subsequent direction to staff to include the necessary Category "A" public facility projects in a future annual CIE update and amendment to be adopted by the Board;
 - c. Future approval of new or increased revenue sources for needed public facility projects, by the Board of County Commissioners, the State Legislature or the County voters; or
 - d. Developer constructed improvements guaranteed by an enforceable development agreement.

The options identified above are crafted under the design of attaining a fiscally feasible Schedule of Capital Improvements based on the concurrency management system. The requirement for financial feasibility is a local requirement, no longer a statutory requirement. The Board, through CIE Objective 2, provides direction to maintain an annual financially feasible Schedule of Capital Improvements.

OBJECTIVE 2: Provide public facilities, as described in Policy 1.1 above, to maintain adopted level of service standards that are within the ability of the County to fund...

Policies 1.1 through 1.5 of the CIE establish the standards for levels of service for Category "A" public facilities.

GROWTH MANAGEMENT IMPACT:

Preparation and presentation of the AUIR to the CCPC and Board meets the requirements of LDC Sections 6.02.02 through 6.02.09 for an annual determination of the status of public facilities. Board direction to include the projects identified in the AUIR in a financially feasible Schedule of Capital Improvements will establish and maintain concurrency for Category "A" public facilities, except roads, until the presentation of the next AUIR. Road projects needed to remedy levels of service deficiencies must be in the first or second year of the Schedule of Capital Improvements.

Based upon statutory changes initiated in 2011, the CIE Schedule of Capital Improvements is no longer required to be sent to the State Land Planning agency and requires only a single public hearing before the CCPC (sitting in its official role as the County's land planning agency) and a single public hearing before the governing board (Board) as an adoption hearing. This single hearing process allows for concurrent hearings of the AUIR and CIE.

Dependent Fire Protection Districts: Prior to 2016, the County supported two dependent fire protection districts; the Ochopee Fire Control and Isle of Capri Fire Rescue Services. The Isle of Capri service area was officially annexed into the reconfigured, independent "Greater Naples Fire Rescue District" as of October 1, 2016. As an interim measure until annexation can be effected, effective November 1, 2016, the Ochopee service area is currently operating under a management services contract with the Greater Naples Fire Rescue District and their update and inventory are no longer components of the AUIR.

Schools: The Schools section of the AUIR stands as a unique component. A summary of the School District Five-Year Capital Improvement Plan is being provided for review. But when the AUIR is reviewed, the School District's Capital Improvement Program (CIP) will already have been approved by the School Board, as required by the Florida Department of Education. The proposed School CIP has been reviewed by County staff in conjunction with School District staff to ensure no inconsistencies exist with the timing of new facilities and required infrastructure. The District's five year CIP includes the construction of an addition and renovations to the existing Immokalee High School ('22) and the planning, engineering and construction phases for a new high school ('23). While the Schools component is included as part of the Category "A" facilities which dictate the concurrency management system for the County, concurrency management for schools is administered by the School District.

The CIE was amended earlier in 2017, and requirements have changed for updating references to School District documents, per Ordinance No. 2017-21. Each year, the County adopts, by reference, into its CIE, the School District's annually updated financially feasible Five-Year Capital Improvement Plan and the District Facilities Work Program to achieve and maintain the adopted level of service standards for Public School Facilities. The School District Five-Year Capital Improvement Plan identifies the financially feasible school facility capacity projects necessary to address existing deficiencies and future needs based on achieving and maintaining adopted LOS standards for schools. The District Facilities Work Program, prepared by the School District pursuant to Section 1013.35(1)(b), F.S., is adopted as part of the data and analysis in support of the School District's Five-

Year Capital Improvement Plan. Adoption by the County, of the School District's Capital Improvement Plan and the District Facilities Work Program now occurs, without requiring separate action, with approval of the annual update to the Schedule of Capital Improvements.

The recommendation sought from the CCPC related to the School District's proposed Capital Improvement Plan is to find that no inconsistencies are contained within the District's Capital Improvement Plan compared to the other planned capital improvement projects within the AUIR or CIE Schedule of Capital Improvements.

Level of Service Appropriateness: As indicated within the Objective portion of this report, the AUIR provides the platform to make evaluations and recommendations regarding the appropriateness of the County's current Levels of Service Standards. The process of capital improvement programming for the County is a linear equation for most components of the AUIR; (New Population x Level of Service Standard = Capital Improvement). This equation is the only justification required of the proposed capital improvement. While Public Utilities, Stormwater Management and Transportation have developed a more complex formula and system for maintaining Level of Service Standards which dictates capital expansion, the basic premise of additional demand requiring new improvements remains the underlying fundamental of the equation.

The AUIR provides the CCPC an opportunity on an annual basis to evaluate and provide recommendations on the appropriateness of currently adopted Level of Service Standards. Within each individual section, the year-to-year demand for service or demands upon the system are included to assist the CCPC and Board in this determination.

This AUIR recommends one Level of Service Standard change; for facilities used by the Collier County Sheriff's Office. Currently a population-based standard, growth influences the officers required to serve a given population, and the building space needs for those officers. The change proposed is to a population-based standard with a direct correlation to building space needs.

The relationship between population growth and need for additional officers is not as tangible as that between officers and crime rates. Consequently, past AUIR have reported a growth-based demand for additional law enforcement facilities despite declining crime rates. This trend has led to a timely coincidence nonetheless, as the Sheriff has identified the need for substation personnel relocations and for a modern forensic sciences facility. These facilities' needs are explained further under the Identification of Future Need comments provided by the Sheriff's Office, as found in this AUIR Law Enforcement Facilities' section Summary pages.

Law Enforcement facilities are Category "B" public facilities for which the County has adopted Level of Service Standards and collects impact fees. Levels of service standards for Category "B" public facilities may be modified without involving a formal Growth Management Plan amendment.

Level of Service Standards and Impact Fees: Impact fee studies and methodologies in and of themselves do not establish Level of Service Standards. They serve at a minimum, to establish a base line where levels of service cannot fall below without invalidating the impact fee. A level of service that is established by an impact fee study represents the standard that has been achieved for a particular facility, but does not dictate that a local government cannot adopt a Level of Service Standard that is higher than the achieved level of service. However, the difference between the

achieved level of service and the adopted Level of Service Standard will require supplemental funding from a source other than impact fees to fund the cost of the improvement. Government Buildings and EMS are two AUIR components in which the impact fee levels of service are below the AUIR adopted Levels of Service Standards. As indicated, this discrepancy is resulting in a higher level of necessary supplemental general governmental funding.

The established Level of Service Standards for most AUIR components are currently satisfied based upon the levels of service and current population levels, but steadily-increasing population growth continues to deplete the available capacity of the respective infrastructure and service providers. Based upon this diminishing capacity, the due diligence process to bring about the next generation of system expansion has begun and will require continued revenue growth needed to maintain the Level of Service Standards for the system providers.

Population: The population projections utilized with the 2017 AUIR are based upon prior Board policy direction and acceptance from the State of Florida Department of Economic Opportunity (DEO). The population method utilizes the Bureau of Economic and Business Research (BEBR) Medium Range projections for the entire projection period with a 20 percent seasonal adjustment factor applied to permanent population projections. The chart below is a comparison of the past six years of projected permanent population growth.

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		Following 5-Year BEBR Growth Projections						
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The above table illustrates 2017 as another successive year in which the annualized growth rate is projected at under two percent of the total population. This outlook continues to reinforce the contemporary growth reality for the County. The recalibration of Collier County’s population through the 2010 Census had provided additional capacity to each of the AUIR/CIE population based systems; but as noted, the population added since 2010 continues to consume this capacity. As such, each of the AUIR providers continue the due diligence process for their next system expansion. The population increase for the five-year population projection period totals 34,928 or 6,986 per year. The 6,986 of annual new population, utilizing the County’s average 2.38 person per household rate, translates to 2,935 new dwelling units (assuming the new population were housed only by new units and not existing inventory). Based upon the CO data compiled by Growth Management for April 2016 through March 2017, approximately 2,776 single-family dwellings were constructed and 980

multi-family units built – for a total of 3,756 units completed. This figure represents an increase over the previous year’s residential construction, when 3,325 units were completed. These figures are provided to better evaluate the market’s response to the demand for new housing units. The following table provides the COs issued per year since 2010.

Year	Single Family	Multi-Family	Single & Multi Family
2010-2011	582	692	1,280
2011-2012	747	480	1,227
2012-2013	806	454	1,260
2013-2014	1,436	286	1,722
2014-2015	2,065	1,010	3,075
2015-2016	2,548	777	3,325
2016-2017	2,776	980	3,756

In addition, on June 27 by Resolution 2017-123, the Board directed that population projections for Golden Gate City be prepared beginning with fiscal year 2017/18. The expectation is for the County to serve all portions of the Florida Governmental Utility Authority (FGUA) franchise utility service area east of Santa Barbara Blvd. within the 10-year AUIR planning window. The future service area can be more specifically described as all of Sections 21, 22, 23, and 28 and portions of Sections 15 and 16 in Township 49 S, Range 26 E, as bounded by Green Blvd. on the north, Collier Blvd. on the east, Golden Gate Canal on the south, and Santa Barbara Blvd on the west. The population figures for this area are provided within Appendix I of this AUIR.

FISCAL IMPACT:

Revenues are required to fund the capital projects proposed in this AUIR/CIE for the FY17/18 thru FY21/22 planning period to maintain financial feasibility of scheduled Category “A” facility improvements. These funds must be made available by the Board of County Commissioners or fall within the Board’s statutory general governmental taxing authority. Current and proposed revenues needed to fund public facility construction/expansion for the FY17/18 thru FY21/22 planning period are set forth in each respective capital facilities section of the 2017 AUIR. Project expenditures more than estimated impact fee, gas tax, and user fee revenue receipts and funded bonds are reflected as being augmented by general governmental sources. General governmental sources are those existing sales tax revenues and other state shared revenues, or ad valorem allocations at the Board’s discretion. Note that all projects identified within the Category “A” facilities have identified funding for the improvement. When funding sources are not identified, the Board is provided five options to address the situation by Policy 2.9 of the CIE.

1. Remove through a plan amendment facility improvements or new facilities from the adopted Schedule of Capital Improvements that exceed the adopted level of service for the growth during the next five (5) fiscal years;

2. Remove from the adopted Schedule of Capital Improvements through a plan amendment facility improvements or new facilities that reduce the operating cost of providing a service or facility but do not provide additional facility capacity;
3. Where feasible, transfer funds from a funded non-CIE capital project to fund an identified deficient CIE public facility. The resulting revisions shall be reflected in the required annual update;
4. Lower the adopted level of service standard through a plan amendment for the facility for which funding cannot be obtained; and,
5. Do not issue development orders that would continue to cause a deficiency based on the facility's adopted level of service standard.

All five- and ten-year [capital improvement] plans that receive transfers from the General Fund and Unincorporated Area General Fund are based upon the assumption of an increasing taxable value environment and a millage neutral property tax rate policy. Changes to this policy would require operating divisions to adjust their commitments and review compliance with adopted levels of service.

All of Category "B" facility improvements require loans from general governmental sources to meet the necessary revenue (Option 3 above). Additionally, to fund the proposed five-year improvements contained within this year's AUIR and CIE Schedule of Capital Improvements will require the Board to utilize Debt Service.

The informational tables detailing the Revenues and Debt Service Expenses for the five-year planning period, as well as the long-term debt financing schedules, are provided within Appendix I of this AUIR.

RECOMMENDATION:

That the Collier County Planning Commission recommend for the Board of County Commissioners:

1. To accept and approve the attached document as the 2017 Annual Update and Inventory Report on Public Facilities.
2. To accept and approve by separate motion and vote the Category "A", "B" and "C" facilities relative to projects and revenue sources, with Category "A" facilities set forth for inclusion in the Schedule of Capital Improvements of the annual CIE update and amendment.
3. To find that no inconsistencies are contained within the School District's Capital Improvement Plan compared to the other planned capital improvements within the AUIR or CIE Schedule of Capital Improvements.
4. To consider an alternative level of service standard for an individual component of the AUIR, specifically where it is proposed for Law Enforcement facilities.
5. To adopt the CIE Schedule of Capital Improvements update, and by reference, the School District's Capital Improvement Plan and the District Facilities Work Program.

Prepared By: MPB

Mike Bosi, AICP, Director
Zoning Division

Date: 9-21-17

Approved By: James French

James French, Deputy Department Head
Growth Management Department

Date: 9-22-17

Approved By: THADDEUS L. COHEN

Thaddeus L. Cohen, Department Head
Growth Management Department

Date: 9/21/17

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ANNUAL UPDATE AND INVENTORY REPORT ON PUBLIC FACILITIES 2017

CATEGORY “A” FACILITIES (Concurrency Regulated)

1. County Arterial & Collector Roads & Bridges
2. Stormwater Management System
3. Potable Water System
4. Wastewater Collection & Treatment Systems
5. Solid Waste Disposal
6. Collier County Schools – Capital Improvement Plan
7. Parks and Recreation Facilities
 - Community Park Land
 - Regional Park Land
8. CIE Amendment Submittals for Category A Facilities
 - Exhibit “A”, Capital Improvements (Next 5 Years)
 - Appendix “H”, Capital Improvements (Future Years 6 – 10)

COUNTY ROADS & BRIDGE FACILITIES

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- **COUNTY ARTERIAL AND COLLECTOR ROADS & BRIDGES – SUMMARY**
- **ATTACHMENT A: FIVE YEAR REVENUES – PREVIOUS vs. CURRENT AUIR**
- **ATTACHMENT B: TRANSPORTATION SYSTEM EXISTING CONDITIONS REPORT**
- **ATTACHMENT C: PERCENTAGE CHANGE IN PEAK HOUR DIRECTIONAL VOLUME FROM PREVIOUS YEAR – MAP**
- **ATTACHMENT D: PROPOSED TRANSPORTATION 5-YEAR WORK PROGRAM**
- **ATTACHMENT E: ROAD FINANCING PLAN UPDATE**
- **ATTACHMENT F: TRANSPORTATION PLANNING DATABASE TABLE**
- **ATTACHMENT G: DEFICIENT ROADS REPORT UPDATE**
- **ATTACHMENT H: PROJECTED DEFICIENT ROADS – MAP**
- **ATTACHMENT I: TRANSPORTATION CONCURRENCY MANAGEMENT AREA REPORT – EAST CENTRAL TCMA AND NORTHWEST TCMA**
- **ATTACHMENT J: ACTIVITY REPORT ON CONTINUING PROJECTS UNDER CONTRACT**

2017 AUIR FACILITY SUMMARY

Facility Type: County Arterial and Collector Roads (Category A)

Level of Service Standard: Variable - "D" or "E"

Unit Cost: Variable (Average = \$4,844,907/ lane mile) Per Current Approved Transportation Impact Fee

Recommended Work Program FY 18-22	\$379,964,000
Recommended Revenues FY18-22	\$379,964,000
 Five-Year Surplus or (Deficit)	 \$0

1. Existing Revenue Sources:

A. Current Revenues CIE FY 18-22

Impact Fees / COA	\$70,000,000
Gas Taxes	\$106,950,000
General Fund 001/111	\$77,850,000
Grants/Reimbursements/DCAs/Interest	\$3,758,000
Unfunded Needs	\$105,107,000
	<hr/>
SUB TOTAL	\$363,665,000

Carry Forward	\$25,149,000 *
Less 5% Required by Law	(\$8,850,000)
	<hr/>
TOTAL	\$379,964,000

2. Supplemental Revenue Sources:

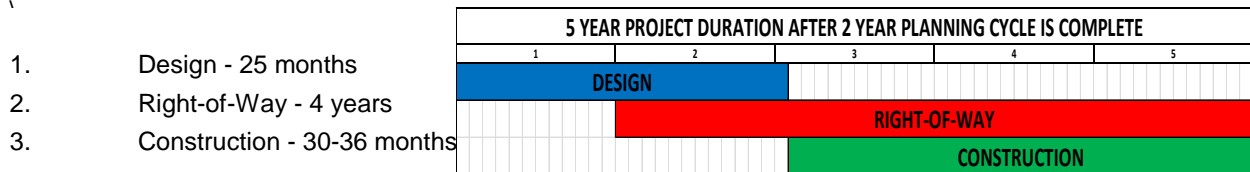
- A. Alternative I
None Required

- B. Alternative II
None Required

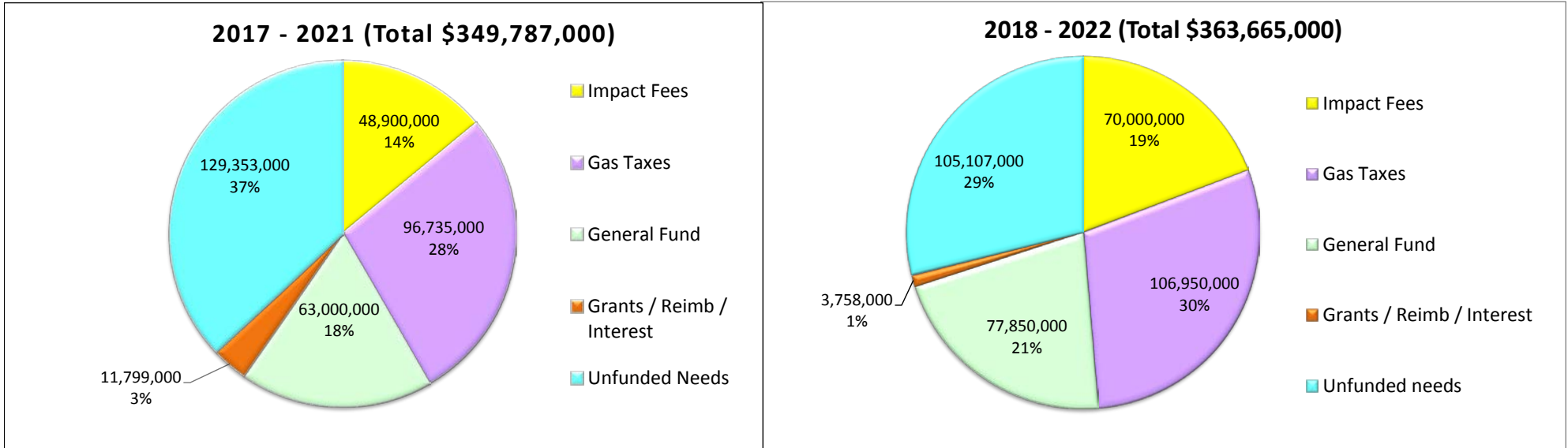
Recommended Action:

That the BCC direct the County Manager or his designee to include County road projects appearing on "Proposed Transportation Five-Year Work Program," (Attachment D), as detailed in the "Collier County Transportation Planning Database" (Attachment F), in the next Annual CIE Update and Amendment with the application of revenues outlined on the Road Financing Plan (Attachment E) to establish statutorily required financial feasibility of the CIE.

* Carry Forward includes the budgeted FY18 Carry forward and does not include project funding encumbered in prior fiscal years. The actual Carry Forward number that includes the roll of encumbrances is not available until after October 1, 2017. Attachment J provides a snapshot of prior year FY17 project activity as of June 30, 2017 for continuing projects. Project costs are generally paid out over the following schedule for phases (average time for payout):

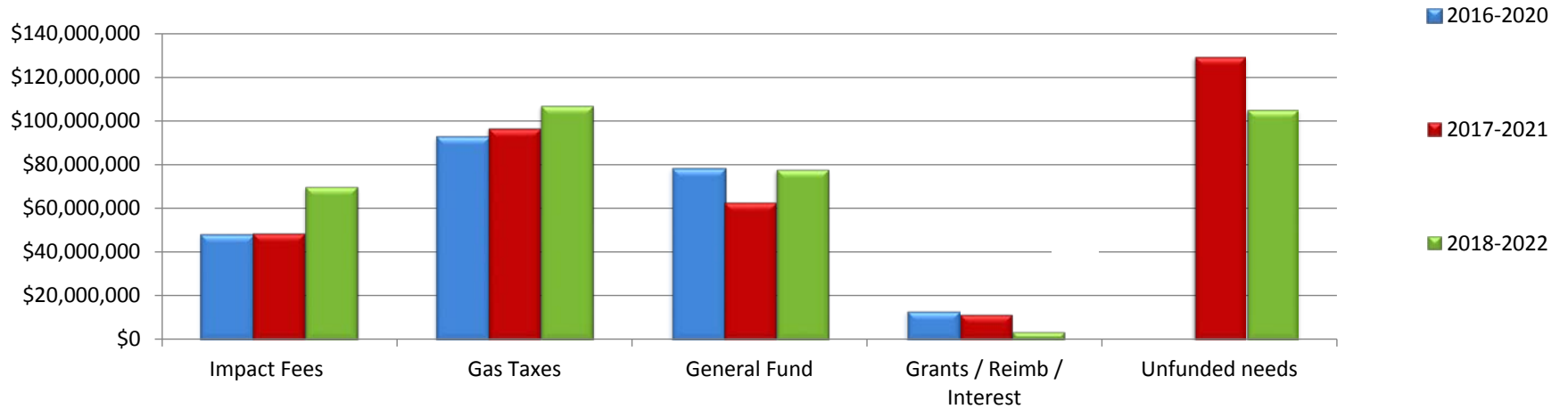


Note: FY 2017 Revenues based on current adopted Impact Fee Schedule, projected gas tax revenues, budgeted general fund transfer, and approved grants and developer contribution agreements. Expenditures are based on current unit cost.



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Funding Source Trends: Five Year Projections



*Charts do not include a Carry Forward or negative Revenue Reserve of \$8,850,000.

Attachment “B”

TRANSPORTATION EXISTING CONDITIONS REPORT – 2017

Objective

To provide the Board of County Commissioners with an “existing conditions” analysis of the transportation system in Collier County.

Purpose

This analysis is provided to assist in the preparation of the Annual Update and Inventory Report (AUIR), and more specifically to assist in the determination of adequate (transportation) public facilities and to guide budgeting and project programming in the CIE.

Considerations:

- The traffic counts are collected on an annual, seasonal, or quarterly basis, and are factored as needed to determine a peak hour peak directional volume. The factors used include a directional factor and a seasonal factor that varies depending on the week that the traffic count was conducted.
- The Level of Service (LOS) threshold volumes are calculated using ARTPLAN and HIGHPLAN software. Measured volume is based on the 250th highest hour, which essentially equates to the 100th highest hour after omitting February and March data, consistent with the Growth Management Plan and Land Development Code provisions. The remaining capacity is based on the difference between the LOS threshold volume and the calculated existing plus trip bank volume.
- The LOS for each roadway segment is identified in Attachment “F” for the current year. Additionally, traffic volumes are forecasted for future years which yields an estimated “Year Expected Deficient” that is used in the planning and programming of future improvements. The Existing LOS and the forecasted LOS are expressions of operating conditions during the peak hours of the peak seasonal day, which corresponds to the same time period as the adopted minimum acceptable LOS Standards in the Growth Management Plan. While the adopted LOS standard and evaluated condition must be expressed for the peak period, it is important to recognize that the roadway’s LOS will be better during most other portions of the day, and especially during non-peak season periods.
- The AUIR deals with system capacity and maintaining the established LOS through our Concurrency Management System. As the system expands, there is a growing need to focus our attention on the condition of existing facilities and the demand for Operations and Maintenance (O&M) funding. Our bridges and culverts are approaching, or are at their 50-year life-cycle. Over 250 additional lane miles of urban and rural, arterial, and local roads have been added to the county system for maintenance since 2000. Historical funding for O&M has not addressed industry standards for anticipated life-cycles which are 6 to 8 years for urban roadways and 12 to 15 years for rural roadways. Gas taxes are already at the maximum allowed by statute. Complicating this issue is the reliance on impact fees as directed by our “growth pays for growth” policy which can only be used to add additional capacity or new lane miles to the system. The prior aggressive program to add capacity allowed existing system mileage to be rebuilt and the mileage to be maintained throughout the construction cycle by the contractor. Volatile impact fee rates and revenues alone cannot sustain a multi-year capital program that provides improvements concurrent with the impacts of development. Capacity expansion projects require a multi-year funding plan to meet the 7-year construction cycle that includes: planning, design, ROW acquisition, permitting and construction. LOS standards already set at the lowest acceptable levels of “D” or “E”.

Observations

Of the 129 stations (covering 141 unique Segment ID’s and excluding those in the City of Naples) collecting traffic counts in the 2016/2017 program, the average increase in measured overall volume between 2016 and 2017 was 5.25%, system-wide. By comparison, the average increase between 2015 and 2016 reported in last year’s AUIR was 2.53%.

When reviewing only higher capacity, multi-lane roadway segments in the County’s network (only those with capacity over 1,000 vehicles per hour in the peak direction during the peak period) an average increase of 4.55% was experienced over 2016.

For the 2016/2017 traffic counts, 22 segments reflected a decrease, and 96 segments reflected an increase over the previous year (23 remained unchanged). Listed below are the numbers and corresponding percentages for the count stations, including the percentage changes between 2016/2017:

- 5.0% (7 segments) show an increase greater than 20% compared to 2016
- 6.4% (9 segments) show an increase of 10-20% compared to 2016
- 17.7% (25 segments) show an increase of up to 5-10% compared to 2016
- 64.5% (90 segments) show an insignificant change of -5% to 5% compared to 2016
- 4.3% (6 segments) show a decrease of 5-10% compared to 2016
- 2.1% (4 segment) show a decrease of 10-20% compared to 2016
- 0.0% (0 segments) show a decrease of greater than 20% compared to 2016

Florida Department of Transportation counts traffic on the segments of I-75 between each interchange each year. A review of the most recent average annual growth rates for the last 2 and 5 year timeframes depicts an increase in traffic along all segments of I-75 in the urban area as shown in **Table 1**. A cumulative growth since 2010 is also shown.

TABLE 1: I-75 Historical Annual Average Daily (AADT) Traffic Volumes (2-Way)

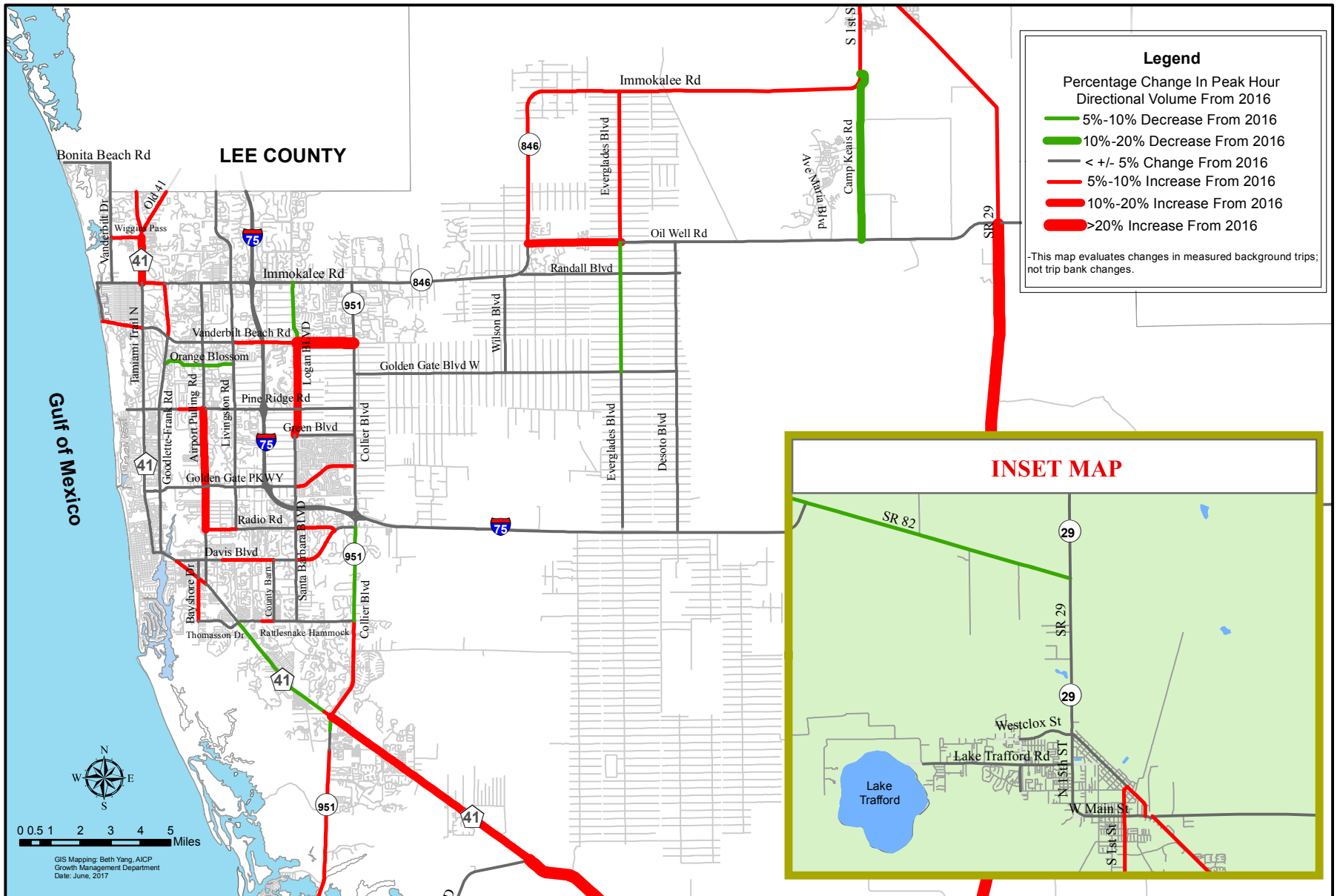
		North of Immokalee Road	North of Pine Ridge Road	North of Golden Gate Pkwy	West of Collier Blvd	West of Everglades Blvd
	2016	97,041	80,453	72,500	39,500	24,597
	2015	92,399	76,809	70,000	40,500	23,127
	2014	85,506	70,332	64,000	36,500	21,320
	2013	79,834	65,423	58,000	34,500	20,221
	2012	75,022	62,897	55,000	31,000	19,444
	2011	74,500	61,224	55,000	31,500	19,204
	2010	75,500	59,784	55,000	32,500	19,484
	2009	77,000	58,578	32,500	34,000	19,114
Total % Increase	6-Year 2010-2016	28.5%	34.6%	31.8%	21.5%	26.2%
Avg Annual % Increase	5-Year 2011-2016	5.4%	5.6%	5.7%	4.6%	5.1%
Avg Annual % Increase	2-Year 2014-2016	6.5%	7.0%	6.4%	4.0%	7.4%

Source: Florida Department of Transportation

Note:

1. Some count stations experienced significant year-to-year fluctuations due to construction avoidance.
2. Stations and segment ID’s may not correspond as some count stations serve multiple segments.

ATTACHMENT C



Percentage Change In Peak Hour Directional Volume From 2016

Growth Management Department
Transportation Planning

Attachment D
 FY18 - FY22 5 YEAR WORK PROGRAM/CIE (TIED TO FY18 ADOPTED BUDGET) **
 (Dollars shown in Thousands)

Project #	Project Name	FY18 Amount		FY19 Amount		FY20 Amount		FY21 Amount		FY22 Amount		Amount
SUMMARY OF PROJECTS												
60144	Oil Well (Everglades to Oil Well Grade)	820	A	300	A	300	A	300	A	300	A	2,020
60168	Vanderbilt Beach Rd/Collier Blvd-8th Street	5,700	R/D	19,920	R/M			61,050	C			86,670
60145	Golden Gate Blvd 20th St to Everglades	23,000	D/C									23,000
60129	Wilson Benfield Ext (Lord's Way to City Gate N)	428						1,000	R	1,000	R	2,428
60147	Randal/Immck Rd Intersection			650	D	500	R			6,000	A	7,150
60148	Airport Rd-Davis Blvd Intersection	500	R/C									500
60201	Pine Ridge Rd (Livingston Intersection Improvement)			250	S/R			5,000	A	2,450	A	7,700
60213	St Andrews Intersection Improvement	500	D/C									500
60198	Veterans Memorial	300	R	2,000	A	2,900	A	2,000	A	2,500	A	9,700
60199	Vanderbilt Beach Rd (US41 to E of Goodlette)	300	D			5,200	C					5,500
60200	****Goodland Road (CR 92A) Roadway Improvements	500	D			3,000	C					3,500
TBD	16th Street Bridge			900	D/M			8,000	C			8,900
TBD	47th Street Bridge	200	R			900	D/M			8,800	C	9,900
TBD	Orange Blossom (Airport to Livingston)	200	S	600	D			4,000	R/A	2,450	A	7,250
TBD	Airport Rd Vanderbilt Bch Rd to Immokalee Rd							3,000	D	10,000	A	13,000
TBD	Big Corkscrew Park Access Road			1,000	C***							1,000
TBD	Whippoorwill									3,000	C	3,000
	Contingency	10,870				5,133						16,003
	Total	43,318		25,620		17,933		84,350		36,500		207,721
Operations Improvements/Programs												
66066	Bridge Repairs/Improvements	5,050		23,800		6,800		6,800		6,800		49,250
60016	Intersection Safety/Capacity/Enhancements	2,500		2,000		2,000		2,000		2,000		10,500
60146	TMC Relocation Fund 310	400		400		400		400		400		2,000
60197	RM Facility Fund 310	400		400		400		400		400		2,000
60172	Traffic Ops Upgrades/Enhancements	1,200		700		700		700		700		4,000
60183	Sign Retroreflectivity Requirement	50		-		-		-		-		50
60189	LED Replacement Program	1,003		400		-		-		-		1,403
60163	Traffic Studies/Advanced Planning	200		250		250		250		250		1,200
60118	Countywide Pathways/Sidewalks Non PIL /LAP	500		250		250		250		250		1,500
69081	Pathways/Sidewalks Bike Lanes Maint/Enhan											-
60191	Lap Design Phase											-
60077	Striping and Marking	600		950		950		950		950		4,400
60130	Wall/Barrier Replacement	450		500		500		250		250		1,950
60131	Road Resurfacing 101/111	3,700		4,000		4,000		5,000		6,000		22,700
60128	Limerock Road Conversion 111	1,000		1,000		1,000		-		-		3,000
	Subtotal Operations Improvements/Programs	17,053		34,650		17,250		17,000		18,000		103,953
60037	Asset Mgmt	250		100		100		100		100		650
60171	Multi Project			50		50		50		50		200
	Impact Fee Refunds	170		400		400		400		400		1,770
	Debt Service Payments	13,136		13,132		13,137		13,134		13,131		65,670
	Total Funding Request All Funds	73,927		73,952		48,870		115,034		68,181		379,964
REVENUES												
	Impact Fees/COA Revenue	13,000		13,500		14,000		14,500		15,000		70,000
	Gas Tax Revenue	21,390		21,390		21,390		21,390		21,390		106,950
	DCA											-
	Unfunded needs	1,000		24,557				63,189		16,361		105,107
	Grants/Reimbursements							1,500				1,500
	Transfer 001 to 313	9,980		9,630		9,630		9,630		9,630		48,500
	Transfer 001 to 310	670		870		870		870		870		4,150
	Transfer 111 to 313	4,000		4,300		4,300		5,300		6,300		24,200
	Transfer 001 to Big Corkscrew Park Access Road			1,000								1,000
	Interest Fund 313 Gas Tax	200		200		200		200		200		1,000
	Interest Impact Fees	258		250		250		250		250		1,258
	Carry Forward 310											-
	Carry Forward 313	25,149										25,149
	Revenue Reduction (Less 5% Required by Law)	(1,720)		(1,745)		(1,770)		(1,795)		(1,820)		(8,850)
	Total 5 Year Revenues	73,927		73,952		48,870		115,034		68,181		379,964
	Beginning Carry Forward											-
	Fiscal Year Surplus/(Shortfall)	-		-		-		-		-		-
GRANT FUNDING SUMMARY												
		FY18		FY19		FY20		FY21		FY22		
	Vanderbilt							1,500				
	Total Grants	0		0		0		1,500		0		

Notes:

- Expenditures: Based on current cost estimates.
 - Revenues: Based on current adopted Impact Fee Schedule, projected gas tax revenues, budgeted general fund transfer, and approved grants and developer contribution agreements.
- **Debt Service and Gas Tax revenue are not tied to budget.
 ***General Fund Dollars have been increased in FY 19 for Big Corkscrew Access Rd.
 "Highlighted projects are subject to debt scenarios to be discussed during upcoming budget workshops"
 5 cent fuel tax being used on bridges and intersection improvements
 ****Goodland (CR92A) in FY20 will receive a transfer from Marco Project 60114 for \$2M

Key:

- | | |
|------------------|----------------------------------|
| S = Study | A = Advanced Construction |
| D = Design | I = Inspection |
| M = Mitigation | AM = Access Management |
| C = Construction | LP = SIB Loan Repayment to State |
| R = ROW | CBO = Constructed By Others |
| L = Litigation | DBO = Designed By Others |

Attachment "E"

Road Financing Plan Update

	FY 18	FY 19	FY 20	FY 21	FY 22	5 Year Total
Project/Program Commitments	60,621,000	60,420,000	35,333,000	101,500,000	55,010,000	312,884,000
Existing Debt Service	13,136,000	13,132,000	13,137,000	13,134,000	13,131,000	65,670,000
Impact Fee Refunds	170,000	400,000	400,000	400,000	40,000	1,410,000
Total Expenses	73,927,000	73,952,000	48,870,000	115,034,000	68,181,000	379,964,000
Impact Fee Revenue / COA Revenue	13,000,000	13,500,000	14,000,000	14,500,000	15,000,000	70,000,000
DCA						-
Gas Tax Revenue	21,390,000	21,390,000	21,390,000	21,390,000	21,390,000	106,950,000
Debt Svc General Fund Transfer	10,650,000	11,500,000	10,500,000	10,500,000	10,500,000	53,650,000
Transfer in from Fund 111	4,000,000	4,300,000	4,300,000	5,300,000	6,300,000	24,200,000
Interest Gas Tax/Impact Fee	458,000	450,000	450,000	450,000	450,000	2,258,000
Grants/Reimbursements *				1,500,000		1,500,000
Unfunded needs	1,000,000	24,557,000		63,189,000	16,361,000	105,107,000
Revenue Reserve (5% Budgeted by Statue)	(1,720,000)	(1,745,000)	(1,770,000)	(1,795,000)	(1,820,000)	(8,850,000)
Total Revenues	48,778,000	73,952,000	48,870,000	115,034,000	68,181,000	354,815,000
Carry Forward (Surplus or Shortfall) **	25,149,000			-	-	25,149,000
Additional Roll Forward						-
Fiscal Year Balance (Surplus or Shortfall)	-	-	-	-	-	-
Cumulative Fiscal Year Balance (Surplus or Shortfall)	-	-	-	-	-	-

* Includes programmed FDOT Grants and Naples Reserve DCA

** Carry Forward includes the budgeted FY18 Carry forward and does not include project funding encumbered (roll over) in prior fiscal years to be paid out over the following schedule for phases (average time for payout): This Carry Forward number that includes the roll of encumbrances will not be available until after October 1, 2017 but attachment J provides a listing of major projects previously budgeted with carry forward funding anticipated to complete the project/phases.

Revenues based on current adopted Impact Fee Schedule, projected gas tax revenues, budgeted general fund transfer, and approved grants and developer contribution agreements.

Attachment "F"

Collier County 2016 Annual Update and Inventory Report (AUIR) Based on Adopted LOS, Trip Bank and Traffic Counts

ID#	CIE#	Proj#	Road#	Link	From	To	Exist Road	Cnt. Sta.	Min Std.	Peak Dir	Service Volume	2015	2016	2017	2016	2016	2017	2017	2017	1/7th TB	1/7th TB	1/7th TB	L	Traffic Count Year	1/7th Trip Bank Year
												Peak Hour	Peak Hour	Peak Hour	Actual	Percent									
1.0		99910	CR31	Airport Road	Immokalee Road	Vanderbilt Beach Road	4D	554	D	N	2,200	1160	1230	1240	10	0.81%	10	0	10	1250	950	56.8%	C		
2.1	55	62031	CR31	Airport Road	Vanderbilt Beach Road	Orange Blossom Drive	6D	599	E	N	3,000	2060	1950	1970	20	1.03%	70	0	70	2040	960	68.0%	C		
2.2	55	62031	CR31	Airport Road	Orange Blossom Drive	Pine Ridge Road	6D	503	E	N	3,000	1860	1830	1860	30	1.64%	94	0	94	1954	1046	65.1%	C		
3.0	39	60121	CR31	Airport Road	Pine Ridge Road	Golden Gate Parkway	6D	502	E	N	3,000	1740	1770	1980	210	11.86%	7	0	7	1987	1013	66.2%	C		
4.0		99906	CR31	Airport Road	Golden Gate Parkway	Radio Road	6D	533	E	N	2,800	2120	2060	2290	230	11.17%	18	0	18	2308	492	82.4%	D		2027
5.0	3	66031	CR31	Airport Road	Radio Road	Davis Boulevard	6D	553	E	N	2,800	2000	2040	2100	60	2.94%	17	0	17	2117	683	75.6%	D		
6.0	3	66031	CR31	Airport Road	Davis Boulevard	US 41 (Tamiami Trail)	6D	552	E	S	2,700	1610	1590	1610	20	1.26%	10	0	10	1620	1080	60.0%	C		
7.0		99911		Bayshore Drive	US 41 (Tamiami Trail)	Thomasson Drive	4D	521	D	S	1,800	610	600	650	50	8.33%	45	0	45	695	1105	38.6%	B		
8.0	31	60021	CR 865	Bonita Beach Road	West of Vanderbilt Drive	Hickory Boulevard	4D	653	D	E	1,900	1010	1050	1070	20	1.90%	0	0	0	1070	830	56.3%	C		
9.0				Carson Road	Lake Trafford Road	Immokalee Drive	2U	610	D	N	600	300	310	320	10	3.23%	0	0	0	320	280	53.3%	C		
10.0	33	60101		County Barn Road	Davis Boulevard	Rattlesnake Hammock Road	2U	519	D	S	900	310	320	326	6	2.00%	65	0	65	391	509	43.5%	B		
11.0		99912	CR29	CR 29	US 41 (Tamiami Trail)	Everglades City	2U	582A	D	S	1,000	180	100	190	90	90.00%	0	0	0	190	810	19.0%	B		
12.0			SR84	Davis Boulevard	US 41 (Tamiami Trail)	Airport Road	6D	558	E	E	2,700	1480	1520	1550	30	1.97%	33	0	33	1583	1117	58.6%	C		
13.0	48	60161	SR84	Davis Boulevard	Airport Road	Lakewood Boulevard	4D	559	D	E	2,000	1520	1550	1500	(50)	-3.23%	4	0	4	1504	496	75.2%	D		
14.0	49	60161	SR84	Davis Boulevard	Lakewood Boulevard	County Barn Road	4D	658	D	E	2,000	1550	1530	1610	80	5.23%	61	0	61	1671	329	83.6%	D		2027
15.0	83	60161	SR84	Davis Boulevard	County Barn Road	Santa Barbara Boulevard	4D	538	D	E	2,200	1360	1460	1440	(20)	-1.37%	144	0	144	1584	616	72.0%	C		
16.1	83		SR84	Davis Boulevard	Santa Barbara Boulevard	Radio Road	6D	560	D	E	2,900	640	650	700	50	7.69%	24	139	163	863	2037	29.8%	B		
16.2	83		SR84	Davis Boulevard	Radio Road	Collier Boulevard	6U	601	D	W	2,900	1020	1050	1080	30	2.86%	34	214	248	1328	1572	45.8%	B		
17.0	62	63041	CR876	Golden Gate Boulevard	Collier Boulevard	Wilson Boulevard	4D	531	D	E	2,300	1600	1660	1600	(60)	-3.61%	0	0	0	1600	700	69.6%	C		
18.0		99913	CR886	Golden Gate Parkway	US 41 (Tamiami Trail)	Goodlette-Frank Road	6D	530	E	E	2,700	1160	1210	1230	20	1.65%	13	0	13	1243	1457	46.0%	B		
19.0	5	60027C	CR886	Golden Gate Parkway	Goodlette-Frank Road	Airport Road	6D	507	E	E	3,300	2740	2780	2710	(70)	-2.52%	5	0	5	2715	585	82.3%	D		2027
20.1	74	60006	CR886	Golden Gate Parkway	Airport Road	Livingston Road	6D	508	E	E	3,300	2230	2280	2200	(80)	-3.51%	0	0	0	2200	1100	66.7%	C		
20.2	74	60006	CR886	Golden Gate Pkwy	Livingston Road	I-75	6D	691	E	E	3,300	2820	2890	2770	(120)	-4.15%	1	0	1	2771	529	84.0%	D		2026
21.0	74	60027	CR886	Golden Gate Parkway	I-75	Santa Barbara Boulevard	6D	509	E	E	3,300	1900	1980	1960	(20)	-1.01%	14	0	14	1974	1326	59.8%	C		
22.0		99916	CR886	Golden Gate Parkway	Santa Barbara Boulevard	Collier Boulevard	4D	605	D	E	1,800	1470	1450	1550	100	6.90%	59	8	67	1617	183	89.8%	D		2023
23.0	19	68041	CR851	Goodlette-Frank Road	Immokalee Road	Vanderbilt Beach Road	2U	594	D	N	1,000	810	860	930	70	8.14%	15	0	15	945	55	94.5%	D	2020	2019
24.1	65	60134	CR851	Goodlette-Frank Road	Vanderbilt Beach Road	Orange Blossom Drive	4D	595	E	N	2,400	1370	1340	1350	10	0.75%	73	0	73	1423	977	59.3%	C		
24.2	65	60134	CR851	Goodlette-Frank Road	Orange Blossom Drive	Pine Ridge Road	6D	581	E	N	2,400	1530	1530	1550	20	1.31%	0	0	0	1550	850	64.6%	B		
25.0	88	60005	CR851	Goodlette-Frank Road	Pine Ridge Road	Golden Gate Parkway	6D	505	E	N	3,000	1930	1850	1890	40	2.16%	0	0	0	1890	1110	63.0%	C		
26.0		99917	CR851	Goodlette-Frank Road	Golden Gate Parkway	US 41 (Tamiami Trail)	6D	504	E	N	2,700	2140	2250	2190	(60)	-2.67%	0	0	0	2190	510	81.1%	D		
27.0	87	68055		Green Boulevard	Santa Barbara Boulevard	Collier Boulevard	2U	642	D	E	900	660	720	730	10	1.39%	0	0	0	730	170	81.1%	D		
29.0		66011		Gulfshore Drive	111th Avenue	Vanderbilt Beach Road	2U	583A	D	N	800	220	230	235	5	2.00%	0	0	0	235	565	29.3%	B		
30.1	37	65061	CR951	Collier Boulevard	Immokalee Road	Vanderbilt Beach Road	6D	655	E	N	3,000	1480	1450	1520	70	4.83%	273	174	447	1967	1033	65.6%	C		
30.2	37	65061	CR951	Collier Boulevard	Vanderbilt Beach Road	Golden Gate Boulevard	6D	584	E	S	3,000	1120	1200	1220	20	1.67%	48	38	86	1306	1694	43.5%	B		
31.1	85	68056	CR951	Collier Boulevard	Golden Gate Boulevard	Pine Ridge Road	6D	536	D	N	3,000	1830	1867	1904	37	2.00%	26	16	42	1946	1054	64.9%	C		
31.2	85	68056	CR951	Collier Boulevard	Pine Ridge Road	Green Boulevard	6D	536	D	N	3,000	1830	1867	1904	37	2.00%	32	12	44	1948	1052	64.9%	C		
32.1	76	65062	CR951	Collier Boulevard	Green Boulevard	Golden Gate Pkwy	4D	525	D	N	2,300	1380	1370	1410	40	2.92%	27	0	27	1437	863	62.5%	C		
32.2	76	68056B	CR951	Collier Boulevard	Golden Gate Pkwy	Golden Gate Main Canal	4D	607	D	N	2,300	1250	1250	1260	10	0.80%	53	162	215	1475	825	64.1%	C		
32.3	76	68056B	CR951	Collier Boulevard	Golden Gate Main Canal	I-75	8D	607	E	N	3,600	1250	1250	1260	10	0.80%	55	258	313	1573	2027	43.7%	B		
33.0	61	60092	SR951	Collier Boulevard	I-75	Davis Boulevard	8D	573	E	N	3,600	2480	2810	2820	10	0.36%	12	347	359	3179	421	88.3%	D		2025
34.0	86	60001	CR951	Collier Boulevard	Davis Boulevard	Rattlesnake Hammock Road	6D	602	E	N	3,000	1600	1490	1400	(90)	-6.04%	141	377	518	1918	1082	63.9%	C		
35.0	86	60001	CR951	Collier Boulevard	Rattlesnake Hammock Road	US 41 (Tamiami Trail)	6D	603	E	N	3,200	1620	1770	1860	90	5.08%	102	245	347	2207	993	69.0%	C		
36.1	12	64041	SR951	Collier Boulevard	US 41 (Tamiami Trail)	Wal-Mart Driveway	6D	557	E	N	2,500	1550	1581	1500	(81)	-5.12%	26	183	209	1709	791	68.4%	C		
36.2			SR951	Collier Boulevard	Wal-Mart Driveway	Manatee Road	4D	700	D	N	2,000	1700	1734	1769	35	2.00%	29	108	137	1906	94	95.3%	E		2020
37.0	12	64041	SR951	Collier Boulevard	Manatee Road	Mainsail Drive	4D	627	D	N	2,200	1430	1560	1670	110	7.05%	0	103	103	1773	427	80.6%	D		
38.0	51	64041	SR951	Collier Boulevard	Mainsail Drive	Marco Island Bridge	4D	627	D	N	2,200	1430	1560	1670	110	7.05%	0	31	31	1701	499	77.3%	D		
39.0	64	99901	CR846	111th Avenue N.	Gulfshore Drive	Vanderbilt Drive	2U	585	D	E	700	270	300	300	0	0.00%	0	0	0	300	400	42.9%	B		
40.0	1	60031	CR846	111th Avenue N.	Vanderbilt Drive	US 41 (Tamiami Trail)	2U	613	D	E	900	430	430	430	0	0.00%	0	0	0	430	470	47.8%	B		
41.1	6	66042	CR846	Immokalee Road	US 41 (Tamiami Trail)	Goodlette-Frank Road	6D	566	E	W	3,100	1920	1910	2010	100	5.24%	41	0	41	2051	1049	66.2%	C		
41.2	6	66042	CR846	Immokalee Road	Goodlette-Frank Road	Airport Road	6D	625	E	E	3,100	2330	2520	2570	50	1.98%	41	0	41	2611	489	84.2%	D		2022
42.1	6	66042	CR846	Immokalee Road	Airport Road	Livingston Road	6D	567	E	W	3,100	2860	2790	2790	0	0.00%	5	0	5	2795	305	90.2%	D		2023
42.2	6	66042	CR846	Immokalee Road	Livingston Road	I-75	6D/8D	679	E	E	3,500	2560	2460	2460	0	0.00%	29	0	29	2489	1011	71.1%	C		
43.1	8	66045	CR846	Immokalee Road	I-75	Logan Boulevard	6D/8D	701	E	E	3,500	2390	2410	2458	48	2.00%	176	169	345	2803	697	80.1%	D		2026
43.2			CR846	Immokalee Road	Logan Boulevard	Collier Boulevard	6D	656	E	E	3,200	1960	1960	1980	20	1.02%	228	357	585	2565	635	80.2%	D		2027

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ID#	CIE#	Proj#	Road#	Link	From	To	Exist Road	Cnt. Sta.	Min Std	Peak Dir	Peak Hour Service Volume	2015	2016	2017	2016	2016	2017	2017	2017	1/7th TB	1/7th TB	1/7th TB	L	Traffic Count Year	1/7th Trip Bank Year
												Peak Hour Volume	Peak Hour Volume	Peak Hour Volume	Actual Variation To Volume	Percent Variation To Volume									
44.0	71	60018	CR846	Immokalee Road	Collier Boulevard	Wilson Boulevard	6D	674	E	E	3,300	1650	1620	1620	0	0.00%	282	265	547	2167	1133	65.7%	C		
45.0	71	60018	CR846	Immokalee Road	Wilson Boulevard	Oil Well Road	6D	675	E	E	3,300	1810	1830	1890	60	3.28%	224	205	429	2319	981	70.3%	C		
46.0	73	60165	CR846	Immokalee Road	Oil Well Road	SR 29	2U	672	D	E	900	320	370	390	20	5.41%	29	102	131	521	379	57.9%	C		
47.0	66	99903		Lake Trafford Road	Carson Rd	SR 29	2U	609	D	E	800	460	470	470	0	0.00%	38	0	38	508	292	63.5%	C		
48.0		60166		Vanderbilt Beach Road	Logan Boulevard	Pine Ridge Road	2U	587	D	N	1,000	530	610	710	100	16.39%	16	19	35	745	255	74.5%	C		
49.0	22	68051		Logan Boulevard	Pine Ridge Road	Green Boulevard	4D	588	D	S	1,900	1350	1410	1570	160	11.35%	0	0	0	1570	330	82.6%	D		2023
50.0	79	60166		Logan Boulevard	Immokalee Road	Vanderbilt Beach Road	2U	644	D	N	1,000	470	590	560	(30)	-5.08%	0	30	30	590	410	59.0%	C		
51.0	21	65041	CR881	Livingston Road	Imperial Street	Immokalee Road	6/4D	673	D	N	3,000	1170	1160	1180	20	1.72%	99	0	99	1279	1721	42.6%	B		
52.0	57	62071	CR881	Livingston Road	Immokalee Road	Vanderbilt Beach Road	6D	576	E	N	3,100	1620	1610	1610	0	0.00%	38	0	38	1648	1452	53.2%	C		
53.0	58	62071	CR881	Livingston Road	Vanderbilt Beach Road	Pine Ridge Road	6D	575	E	S	3,100	1480	1450	1480	30	2.07%	18	0	18	1498	1602	48.3%	B		
54.0	52	60071	CR881	Livingston Road	Pine Ridge Road	Golden Gate Parkway	6D	690	E	N	3,100	1440	1470	1470	0	0.00%	34	0	34	1504	1596	48.5%	B		
55.0	53	60061	CR881	Livingston Road	Golden Gate Parkway	Radio Road	6D	687	E	N	3,000	1220	1220	1270	50	4.10%	39	0	39	1309	1691	43.6%	B		
58.0	67	99904		N. 1st Street	New Market Road	SR-29 (Main Street)	2U	590	D	N	900	540	550	590	40	7.27%	0	0	0	590	310	65.6%	C		
59.0				New Market Road	Broward Street	SR 29	2U	612	D	E	900	470	520	570	50	9.62%	0	0	0	570	330	63.3%	C		
61.0	36			Camp Keais	Oil Well Road	Immokalee Road	2U	626A	D	S	1,000	220	220	190	(30)	-13.64%	0	108	108	298	702	29.8%	B		
62.0	68	99905	CR887	Old US 41	Lee County Line	US 41 (Tamiame Trail)	2U	547	D	N	1,000	960	960	1050	90	9.38%	37	0	37	1087	(87)	108.7%	F	2018	Existing
63.0		99924	CR896	Seagate Drive	Crayton Road	US 41 (Tamiame Trail)	4D	511	D	E	1,700	980	970	970	0	0.00%	0	0	0	970	730	57.1%	C		
64.0	14	69042	CR896	Pine Ridge Road	US 41 (Tamiame Trail)	Goodlette-Frank Road	6D	512	E	E	2,800	1880	1870	1860	(10)	-0.53%	6	0	6	1866	934	66.6%	C		
65.0	14	69042	CR896	Pine Ridge Road	Goodlette-Frank Road	Shirley Street	6D	514	E	W	2,800	1910	1940	1970	30	1.55%	1	0	1	1971	829	70.4%	C		
66.0	14	69042	CR896	Pine Ridge Road	Shirley Street	Airport Road	6D	515	E	E	2,800	2230	2250	2390	140	6.22%	52	0	52	2442	358	87.2%	D		2025
67.1	41	60111	CR846	Pine Ridge Road	Airport Road	Livingston Road	6D	526	E	E	3,000	2660	2660	2550	(110)	-4.14%	35	0	35	2585	415	86.2%	D		2025
67.2	41	60111	CR846	Pine Ridge Road	Livingston Road	I-75	6D	628	E	E	3,000	2960	2950	2990	40	1.36%	103	0	103	3093	(93)	103.1%	F	2018	Existing
68.0	41	99907	CR896	Pine Ridge Road	I-75	Logan Boulevard	6D	600	E	E	2,800	2080	2130	2120	(10)	-0.47%	1	0	1	2121	679	75.8%	D		
69.0	15	65032	CR856	Radio Road	Airport Road	Livingston Road	4D	544	D	E	1,800	1110	1120	1180	60	5.36%	15	0	15	1195	605	66.4%	C		
70.0	15	65033	CR856	Radio Road	Livingston Road	Santa Barbara Boulevard	4D	527	D	E	1,800	1120	1110	1130	20	1.80%	26	0	26	1156	644	64.2%	C		
71.0	16	65031	CR856	Radio Road	Santa Barbara Boulevard	Davis Boulevard	4D	685	D	W	1,800	540	580	630	50	8.62%	0	85	85	715	1085	39.7%	B		
72.0	17	65021	CR864	Rattlesnake Hammock Road	US 41 (Tamiame Trail)	Charlemagne Boulevard	4D	516	D	W	1,800	1000	1010	1010	0	0.00%	0	55	55	1065	735	59.2%	C		
73.0	17	65021	CR864	Rattlesnake Hammock Road	Charlemagne Boulevard	County Barn Road	4D	517	D	W	1,800	700	700	740	40	5.71%	0	48	48	788	1012	43.8%	B		
74.0	17	65021	CR864	Rattlesnake Hammock Road	County Barn Road	Santa Barbara Boulevard	4D	534	D	W	1,900	670	700	700	30	4.48%	0	40	40	740	1160	38.9%	B		
75.0	77	60169	CR864	Rattlesnake Hammock Road	Santa Barbara Boulevard	Collier Boulevard	6D	518	E	W	2,900	500	490	490	0	0.00%	56	115	171	661	2239	22.8%	B		
76.0	56	62081B		Santa Barbara Boulevard	Green Boulevard	Golden Gate Parkway	4D	529	D	N	2,100	1230	1240	1270	30	2.42%	0	0	0	1270	830	60.5%	C		
77.0	56	62081A		Santa Barbara Boulevard	Golden Gate Parkway	Radio Road	6D	528	E	N	3,100	1740	1780	1810	30	1.69%	54	0	54	1864	1236	60.1%	C		
78.0	56	62081A		Santa Barbara Boulevard	Radio Road	Davis Boulevard	6D	537	E	N	3,100	1290	1290	1350	60	4.65%	213	0	213	1563	1537	50.4%	B		
79.0				Santa Barbara Boulevard	Davis Boulevard	Rattlesnake-Hammock Road	6D	702	E	S	3,100	840	930	890	(40)	-4.30%	112	0	112	1002	2098	32.3%	B		
80.0			SR29	SR 29	US 41 (Tamiame Trail)	CR 837 (James Scenic Dr)	2U	615A	D	N	900	120	90	150	60	66.67%	0	0	0	150	750	16.7%	B		
81.0			SR29	SR 29	CR 837 (James Scenic Dr)	I-75	2U	615A	D	N	900	120	90	150	60	66.67%	0	0	0	150	750	16.7%	B		
82.0			SR29	SR 29	I-75	Oil Well Road	2U	615A	D	N	900	120	90	150	60	66.67%	8	61	69	219	681	24.3%	B		
83.0			SR29	SR 29	Oil Well Road	CR 29A South	2U	665A	D	N	900	280	380	410	30	7.89%	0	0	0	410	490	45.6%	B		
84.0			SR29	SR 29	CR 29A South	9th Street	4D	664	D	W	1,700	550	600	600	0	0.00%	12	0	12	612	1088	36.0%	B		
85.0			SR29	SR 29	9th Street	CR 29A North	2U	663	D	S	900	560	620	620	0	0.00%	21	0	21	641	259	71.2%	C		
86.0			SR29	SR 29	CR 29A North	SR 82	2U	663	D	S	900	560	620	620	0	0.00%	0	0	0	620	280	68.9%	C		
87.0			SR29	SR 29	Hendry County Line	SR 82	2U	591A	D	S	800	340	350	360	10	2.86%	0	0	0	360	440	45.0%	B		
88.0			SR82	SR 82	Lee County Line	SR 29	2U	661A	D	S	800	690	710	650	(60)	-8.45%	8	0	8	658	142	82.3%	D		2027
91.0	43		US41	Tamiame Trail East	Davis Boulevard	Airport Road	6D	545	E	E	2,900	1700	1580	1700	120	7.59%	23	47	70	1770	1130	61.0%	C		
92.0	47		US41	Tamiame Trail East	Airport Road	Rattlesnake Hammock Road	6D	604	E	E	2,900	2320	2240	2300	60	2.68%	13	248	261	2561	339	88.3%	D		2024
93.0	46		US41	Tamiame Trail East	Rattlesnake Hammock Road	Triangle Boulevard	6D	572	E	E	3,000	1910	1960	1860	(100)	-5.10%	15	329	344	2204	796	73.5%	C		
94.0			US41	Tamiame Trail East	Triangle Boulevard	Collier Boulevard	6D	571	E	E	3,000	1490	1510	1620	110	7.28%	0	203	203	1823	1177	60.8%	C		
95.1			US41	Tamiame Trail East	Collier Boulevard	Joseph Lane	6D	608	D	E	3,100	670	670	770	100	14.93%	134	107	241	1011	2089	32.6%	B		
95.2			US41	Tamiame Trail East	Greenway Road	Greenway Road	4D	608	D	E	2,000	670	670	770	100	14.93%	53	102	155	925	1075	46.3%	B		
95.3			US41	Tamiame Trail East	Greenway Road	San Marco Drive	2U	608	D	E	1,075	670	670	770	100	14.93%	53	4	57	827	248	76.9%	D		2027
96.0			US41	Tamiame Trail East	San Marco Drive	SR 29	2U	617A	D	E	1,000	220	140	240	100	71.43%	0	0	0	240	760	24.0%	B		
97.0			US41	Tamiame Trail East	SR 29	Dade County Line	2U	616A	D	E	1,000	190	150	210	60	40.00%	0	0	0	210	790	21.0%	B		
98.0	71		US41	Tamiame Trail North	Lee County Line	Wiggins Pass Road	6D	546	E	N	3,100	1990	1990	2090	100	5.03%	97	8	105	2195	905	70.8%	C		
99.0	50		US41	Tamiame Trail North	Wiggins Pass Road	Immokalee Road	6D	564	E	N	3,100	2530	2560	2890	330	12.89%	29	8	37	2927	173	94.4%	D	2021	2020
100.0	45		US41	Tamiame Trail North	Immokalee Road	Vanderbilt Beach Road	6D	577	E	N	3,100	2060	2280	2320	40	1.75%	18	0	18	2338	762	75.4%	D		
101.0	45		US41	Tamiame Trail North	Vanderbilt Beach Road	Gulf Park Drive	6D	563	E	N	3,100	2300	2300	2330	30	1.30%	3	0	3	2333	767	75.3%	D		
102.0			US41	Tamiame Trail North	Gulf Park Drive	Pine Ridge Road	6D	562	E	N	3,100	1860	1860	1900	40	2.15%	2	0	2	1902	1198	61.4%	C		

ID#	CIE#	Proj#	Road#	Link	From	To	Exist Road	Cnt. Sta.	Min Std	Peak Dir	Peak Hour Service Volume	2015	2016	2017	2016	2016	2017	2017	2017	1/7th TB	1/7th TB	L	Traffic Count Year	1/7th Trip Bank	
												Peak Hour Volume	Peak Hour Volume	Peak Hour Volume	Actual Variation To Volume	Percent Variation To Volume									Trip Bank
108.0				Thomasson Drive	Bayshore Drive	US 41 (Tamiami Trail)	2U	698	D	E	800	470	490	500	10	2.04%	41	53	94	594	206	74.3%	C		
109.0	42	65071	CR862	Vanderbilt Beach Road	Gulfshore Drive	US 41 (Tamiami Trail)	2U/4D	524	E	E	1,400	1040	910	990	80	8.79%	0	0	0	990	410	70.7%	C		
110.1	23	67021	CR862	Vanderbilt Beach Road	US 41 (Tamiami Trail)	Goodlette-Frank Road	4D	646	D	E	1,900	1350	1480	1540	60	4.05%	0	0	0	1540	360	81.1%	D		
110.2	23	67021	CR862	Vanderbilt Beach Road	Goodlette-Frank Road	Airport Road	4D/6D	666	D	E	2,500	1700	1700	1760	60	3.53%	0	0	0	1760	740	70.4%	C		
111.1	63	63051	CR862	Vanderbilt Beach Road	Airport Road	Livingston Road	6D	579	E	W	3,000	1890	1850	1910	60	3.24%	0	0	0	1910	1090	63.7%	C		
111.2	63	63051	CR862	Vanderbilt Beach Road	Livingston Road	Logan Blvd.	6D	668	E	E	3,000	1800	2000	2150	150	7.50%	82	0	82	2232	768	74.4%	C		
112.0	24	63051	CR862	Vanderbilt Beach Road	Logan Boulevard	Collier Boulevard	6D	580	E	E	3,000	1250	1230	1530	300	24.39%	260	2	262	1792	1208	59.7%	C		
114.0	25	69061	CR901	Vanderbilt Drive	Bonita Beach Road	Wiggins Pass Road	2U	548	D	N	1,000	420	420	440	20	4.76%	3	32	35	475	525	47.5%	B		
115.0		69061	CR901	Vanderbilt Drive	Wiggins Pass Road	111th Avenue	2U	578	D	N	1,000	420	440	440	0	0.00%	3	13	16	456	544	45.6%	B		
116.0	26	69021		Westclox Road	Carson Road	SR 29	2U	611	D	W	800	210	220	210	(10)	-4.55%	0	0	0	210	590	26.3%	B		
117.0		99928	CR888	Wiggins Pass Road	Vanderbilt Drive	US 41 (Tamiami Trail)	2U	669	D	E	1,000	420	400	430	30	7.50%	3	13	16	446	554	44.6%	B		
118.0				Wilson Blvd	Immokalee Road	Golden Gate Boulevard	2U	650	D	S	900	260	320	320	0	0.00%	24	0	24	344	556	38.2%	B		
119.0		60044	CR858	Oil Well Road	Immokalee Road	Everglades Boulevard	4D	725S	D	E	2,000	490	600	700	100	16.67%	117	216	333	1033	967	51.7%	B		
120.0		60044	CR858	Oil Well Road	Everglades Boulevard	Desoto Boulevard	2U	694	D	W	1,100	220	280	280	0	0.00%	13	210	223	503	597	45.7%	B		
121.1				Oil Well Road	DeSoto Boulevard	Oil Well Grade	2U	694	D	W	1,100	220	280	280	0	0.00%	0	209	209	489	611	44.5%	B		
121.2				Oil Well Road	Oil Well Grade	Ave Maria Blvd	4D	694	D	W	2,000	220	280	280	0	0.00%	0	209	209	489	1511	24.5%	B		
122.0				Oil Well Road	Ave Maria Blvd	SR 29	2U	694	D	W	800	220	280	280	0	0.00%	0	65	65	345	455	43.1%	B		
123.0		60040		Golden Gate Boulevard	Wilson Boulevard	18th Street NE/SE	4U	652	D	E	2,300	1040	1080	1102	22	2.00%	0	0	0	1102	1198	47.9%	B		
123.1		60040		Golden Gate Boulevard	18th Street NE/SE	Everglades Boulevard	2U	652	D	E	1,010	1040	1080	1102	22	2.00%	0	0	0	1102	(92)	109.1%	F	Existing	Existing
124.0		60040		Golden Gate Boulevard	Everglades Boulevard	DeSoto Boulevard	2U	Manual	D	E	1,010	214	218	223	4	2.00%	0	0	0	223	787	22.0%	B		
125.0			CR896	Pine Ridge Road	Logan Boulevard	Collier Boulevard	4D	535	D	E	2,400	1310	1290	1320	30	2.33%	1	7	8	1328	1072	55.3%	C		
132.0				Randall Boulevard	Immokalee Road	Everglades Boulevard	2U	651	D	E	900	730	850	870	20	2.35%	42	36	78	948	(48)	105.3%	F	2019	Existing
133.0				Randall Boulevard	Everglades Boulevard	DeSoto Boulevard	2U	Manual	D	E	900	602	614	626	12	2.00%	0	20	20	646	254	71.8%	C		
134.0				Everglades Boulevard	I-75	Golden Gate Blvd	2U	637S	D	S	800	370	410	430	20	4.88%	0	0	0	430	370	53.8%	C		
135.0				Everglades Boulevard	Golden Gate Boulevard	Oil Well Road	2U	636S	D	N	800	280	310	280	(30)	-9.68%	16	20	36	316	484	39.5%	B		
136.0				Everglades Boulevard	Oil Well Road	Immokalee Road	2U	635S	D	N	800	640	390	410	20	5.13%	0	0	0	410	390	51.3%	B		
137.0				DeSoto Boulevard	I-75	Golden Gate Boulevard	2U	639A	D	S	800	130	140	140	0	0.00%	0	0	0	140	660	17.5%	B		
138.0				DeSoto Boulevard	Golden Gate Boulevard	Oil Well Road	2U	638A	D	S	800	80	100	100	0	0.00%	0	0	0	100	700	12.5%	B		
142.0				Orange Blossom Drive	Goodlette-Frank Road	Airport Road	2D	647	D	W	1,200	510	600	540	(60)	-10.00%	19	0	19	559	641	46.6%	B		
143.0				Orange Blossom Drive	Airport Road	Livingston Road	2U	647	D	W	1,000	510	600	540	(60)	-10.00%	40	0	40	580	420	58.0%	C		
144.0				Shadowlawn Drive	US 41 (Tamiami Trail)	Davis Boulevard	2U	523	D	N	800	230	230	230	0	0.00%	0	0	0	230	570	28.8%	B		

2017 AUIR Update Deficiencies Report

Listed below are the roadway links that are currently deficient or are projected to be deficient under the concurrency system within the next five years and the programmed and proposed solutions to solve these deficiencies

2017 Existing Deficiencies Based on Traffic Counts										
ID#	Map	Roadway	From	To	Trip Bank (1/7th)	Remaining Capacity	V/C	TCMA TCEA	Year Expected Deficient	Solutions
123.1		Golden Gate Boulevard	18th Street NE/SE	Everglades Boulevard	0	-92	109.1%	No	Existing	Programmed for CST in the CIE

2017 Existing Deficiencies Based on Traffic Counts + Trip Bank & 1/7th Vested Trips										
ID#	Map	Roadway	From	To	Trip Bank (1/7th)	Remaining Capacity	V/C	TCMA TCEA	Year Expected Deficient	Solutions
62.0		Old US 41	US 41	Lee County Line	0	-87	108.7%	Yes	Existing	Within the Northwest TCMA; Widen to 4-Lanes; PD&E Study Programmed by FDOT; Pursue Federal Funding
67.2		Pine Ridge Road	Livingston Road	I-75	0	-93	103.1%	Yes	Existing	Within the East Central TCMA - Pursue Detailed Capacity/Operational Analysis of Intersections and Interchange Improvements partially funded in CIE
132.0		Randall Boulevard	Immokalee Road	Everglades Boulevard	36	-48	105.3%	No	Existing	Immokalee Rd @ Randall Blvd Intersection Improvement PD&E Underway; Randall Blvd. Corridor Study Underway

Projected Deficiencies 2018-2022 (Traffic Counts + Trip Bank & 1/7th Vested Trips)										
ID#	Map	Roadway	From	To	Trip Bank (1/7th)	Remaining Capacity	V/C	TCMA TCEA	Year Expected Deficient	Solutions
23.0		Goodlette-Frank Road	Immokalee Road	Vanderbilt Beach Road	0	55	94.5%	Yes	2019	Within the Northwest TCMA - Continue to Monitor; Evaluate for CIE Funding in 2021-2025
36.2		Collier Boulevard	Wal-Mart Driveway	Manatee Road	108	94	95.3%	No	2020	Widen to 6-Ln; PD&E Funded (15/16); State Funded Improvement Proposed in MPO Cost Feasible Plan 2026-2030
99.0		Tamiami Trail North	Wiggins Pass Road	Immokalee Road	8	173	94.4%	Yes	2020	Within the Northwest TCMA; Proposed Veterans Memorial Blvd. will provide a connection to Livingston North/South that should provide additional relief; Continue to Monitor

Projected Deficiencies 2023-2027 (Traffic Counts + Trip Bank & 1/7th Vested Trips)										
ID#	Map	Roadway	From	To	Trip Bank (1/7th)	Remaining Capacity	V/C	TCMA TCEA	Year Expected Deficient	Solutions
4.0		Airport Road	Golden Gate Parkway	Radio Road	0	492	82.4%	No	2027	Continue to Monitor & Pursue Detailed Capacity/Operational Analysis as warranted;
14.0		Davis Boulevard	Lakewood Boulevard	County Barn Road	0	329	83.6%	No	2027	Within the East Central TCMA; Improvement is with a longer segment that is partially funded (R/W - 2031-40) in the MPO Cost Feasible Plan; Construction anticipated beyond 2040 (CST 2041-50); Continue to Monitor;
19.0		Golden Gate Parkway	Goodlette-Frank Road	Airport Road	0	585	82.3%	No	2027	Continue to Monitor & Pursue Detailed Capacity/Operational Analysis as warranted;
20.2		Golden Gate Pwky	Livingston Road	I-75	0	529	84.0%	Yes	2026	Within the East Central TCMA - Continue to Monitor; Interchange Improvements Proposed in MPO Cost Feasible Plan 2021-2025
22.0		Golden Gate Parkway	Santa Barbara Boulevard	Collier Boulevard	8	183	89.8%	Yes	2023	Within the East Central TCMA - Continue to Monitor and Review with Future I-75 Interchange Operation Analysis Report
33		Collier Boulevard	I-75	Davis Boulevard	347	421	88.3%	Yes	2025	Continue to Monitor; Interchange Improvements Scheduled by FDOT 2020/21
41.2		Immokalee Road	Goodlette-Frank Road	Airport Road	0	489	84.2%	Yes	2022	Within the Northwest TCMA - Continue to Monitor & Pursue Detailed Capacity/Operational Analysis as warranted; Pursue parallel Roadway (Veteran's Memorial Blvd)
42.1		Immokalee Rd	Airport Road	Livingston Rd.	0	305	90.2%	Yes	2023	Within the Northwest TCMA - Continue to Monitor & Pursue Detailed Capacity/Operational Analysis as warranted; Pursue parallel Roadway (Veteran's Memorial Blvd)
43.1		Immokalee Road	I-75	Logan Boulevard	169	697	80.1%	No	2026	Continue to Monitor; Interchange Improvements Proposed in MPO Cost Feasible Plan 2021-2025. Anticipate Future VBR Extension to Reduce Volumes
43.2		Immokalee Road	Logan Boulevard	Collier Boulevard	357	635	80.2%	No	2027	Continue to Monitor; Anticipate Future VBR Extension to Reduce Volumes
49.0		Logan Boulevard	Pine Ridge Road	Green Boulevard	0	330	82.6%	Yes	2023	Within the East Central TCMA; Continue to Monitor
66.0		Pine Ridge Road	Shirley Street	Airport Road	0	358	87.2%	Yes	2025	Within the Northwest TCMA; Continue to Monitor; Pursue Detailed Operational Analysis if Warranted
67.1		Pine Ridge Road	Airport Road	Livingston Rd.	0	415	86.2%	Yes	2025	Within the East Central TCMA - Pursue Detailed Capacity/Operational Analysis and Alternative Corridors
88.0		SR 82	Lee County Line	SR 29	0	142	82.3%	No	2027	Widen to 4-Ln; MPO Priority for State SIS Funding; Pursue State Funding
92.0		Tamiami Trail East	Airport Road	Rattlesnake Hammock Road	248	339	88.3%	Yes	2024	Within the South US 41 TCEA; Continue to Monitor; Pursue Detailed Operational Analysis if Warranted
95.3		Tamiami Trail East	Greenway Road	San Marco Drive	4	248	76.9%	Yes	2027	Greenway Rd to 6-L Farms Rd is funded thru CST in the MPO CFP (2031-2040); East of 6-L Farms RD is not expected to be deficient within the same time frame; Continue to Monitor;

33

Prepared By: _____
Transportation Planning

Date: _____

Attachment I

TCMA Report

Collier County Transportation Concurrency Management System

AUIR ID	Street Name	From	To	PkHr-PkDir ⁽¹⁾ V/C Ratio	Length	#Lanes	Lane Miles	Lane Miles @ VC <= 1.00
East Central TCMA								
31.1	Collier Boulevard	Pine Ridge Road	Green Boulevard	0.65	1.04	6	6.24	6.24
32.2	Collier Boulevard	Golden Gate Pwky	Golden Gate Main Canal	0.64	1.01	4	4.04	4.04
32.3	Collier Boulevard	Golden Gate Main Canal	I-75	0.44	0.65	8	5.20	5.20
33.0	Collier Boulevard	I-75	Davis Boulevard	0.88	0.56	8	4.47	4.47
14.0	Davis Boulevard	Lakewood Boulevard	County Barn Road	0.84	1.71	4	6.83	6.83
15.0	Davis Boulevard	County Barn Road	Santa Barbara Boulevard	0.72	0.75	4	3.02	3.02
16.1	Davis Boulevard	Santa Barbara Boulevard	Radio Rd.	0.30	2.62	6	15.71	15.71
16.2	Davis Boulevard	Radio Rd.	Collier Boulevard	0.46	2.32	6	13.93	13.93
20.2	Golden Gate Parkway	Livingston Rd.	I-75	0.84	1.97	6	11.8	11.82
21.0	Golden Gate Parkway	I-75	Santa Barbara Boulevard	0.60	1.01	6	6.07	6.07
22.0	Golden Gate Parkway	Santa Barbara Boulevard	Collier Boulevard	0.90	2.21	4	8.84	8.84
27.0	Green Boulevard	Santa Barbara Boulevard	Collier Boulevard	0.81	1.99	2	3.99	3.99
54.0	Livingston Road	Pine Ridge Road	Golden Gate Parkway	0.49	2.60	6	15.59	15.59
55.0	Livingston Road	Golden Gate Parkway	Radio Road	0.44	1.41	6	8.49	8.49
49.0	Logan Boulevard	Pine Ridge Road	Green Boulevard	0.83	0.88	4	3.53	3.53
67.2	Pine Ridge Road	Livingston Rd.	I-75	1.03	2.20	6	13.20	0.00
68.0	Pine Ridge Road	I-75	Logan Boulevard	0.76	0.99	6	5.97	5.97
125.0	Pine Ridge Road	Logan Boulevard	Collier Boulevard	0.55	1.88	4	7.53	7.53
70.0	Radio Road	Livingston Road	Santa Barbara Boulevard	0.64	2.00	4	7.98	7.98
71.0	Radio Road	Santa Barbara Boulevard	Davis Boulevard	0.40	1.34	4	5.36	5.36
76.0	Santa Barbara Boulevard	Green Boulevard	Golden Gate Parkway	0.60	1.70	4	6.81	6.81
77.0	Santa Barbara Boulevard	Golden Gate Parkway	Radio Road	0.60	1.40	6	8.43	8.43
78.0	Santa Barbara Boulevard	Radio Road	Davis Boulevard	0.50	1.05	6	6.32	6.32
					35.32		179.37	166.17

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Total Lane Miles: 179.37
Lane Miles <=1.00 V/C: 166.17
Percent Lane Miles Meeting Standard: 92.6%

⁽¹⁾ V/C Ratio based upon Total Traffic, including Traffic Counts + Trip Bank + 1/7th Vested Trips

TCMA Report
Collier County Transportation Concurrency Management System

AUIR ID	Street Name	From	To	PkHr-PkDir ⁽¹⁾ V/C Ratio	Length	#Lanes	Lane Miles	Lane Miles @ VC <= 1.00
Northwest TCMA								
98.0	Tamiami Trail North	Lee County Line	Wiggins Pass Road	0.71	1.67	6	10.0	10.02
99.0	Tamiami Trail North	Wiggins Pass Road	Immokalee Road	0.94	1.52	6	9.1	9.11
100.0	Tamiami Trail North	Immokalee Road	Vanderbilt Beach Road	0.75	1.51	6	9.1	9.06
101.0	Tamiami Trail North	Vanderbilt Beach Road	Gulf Park Drive	0.75	1.26	6	7.6	7.58
102.0	Tamiami Trail North	Gulf Park Drive	Pine Ridge Road	0.61	1.44	6	8.6	8.64
109.0	Vanderbilt Beach Road	Gulfshore Drive	Tamiami Trail	0.71	1.34	2	2.7	2.68
110.1	Vanderbilt Beach Road	Tamiami Trail	Goodlette-Frank Road	0.81	1.87	4	7.5	7.50
111.1	Vanderbilt Beach Road	Airport Road	Livingston Rd.	0.64	3.22	6	19.3	19.30
114.0	Vanderbilt Drive	Lee County Line	Wiggins Pass Road	0.48	2.52	2	5.0	5.03
115.0	Vanderbilt Drive	Wiggins Pass Road	111th Avenue	0.46	1.49	2	3.0	2.99
117.0	Wiggins Pass Road	Vanderbilt Drive	Tamiami Trail	0.45	1.05	2	2.1	2.10
1.0	Airport Road	Immokalee Road	Vanderbilt Beach Road	0.57	1.97	4	7.9	7.89
2.1	Airport Road	Vanderbilt Beach Road	Orange Blossom Dr.	0.68	1.53	6	9.2	9.18
23.0	Goodlette-Frank Road	Immokalee Road	Vanderbilt Beach Road	0.95	1.80	2	3.6	3.60
24.1	Goodlette-Frank Road	Vanderbilt Beach Road	Orange Blossom Dr.	0.59	0.88	4	3.5	3.52
24.2	Goodlette-Frank Road	Orange Blossom Dr.	Pine Ridge Road	0.65	1.53	6	9.2	9.18
39.0	111th Avenue N.	Gulfshore Drive	Vanderbilt Drive	0.43	0.51	2	1.0	1.01
40.0	111th Avenue N.	Vanderbilt Drive	Tamiami Trail	0.48	1.00	2	2.0	2.01
41.1	Immokalee Road	Tamiami Trail	Goodlette-Frank Rd.	0.66	1.47	6	8.8	8.84
42.1	Immokalee Road	Airport Road	Livingston Rd.	0.90	1.96	6	11.8	11.79
51.0	Livingston Road	Imperial Street	Immokalee Road	0.43	3.31	6	19.8	19.85
52.0	Livingston Road	Immokalee Road	Vanderbilt Beach Road	0.53	1.99	6	12.0	11.96
53.0	Livingston Road	Vanderbilt Beach Road	Pine Ridge Road	0.48	2.21	6	13.3	13.26
63.0	Seagate Drive	Crayton Road	Tamiami Trail	0.57	0.48	4	1.9	1.93
64.0	Pine Ridge Road	Tamiami Trail	Goodlette-Frank Road	0.67	0.50	6	3.0	3.02
65.0	Pine Ridge Road	Goodlette-Frank Road	Shirley Street	0.70	0.67	6	4.0	4.05
66.0	Pine Ridge Road	Shirley Street	Airport Road	0.87	0.81	6	4.9	4.88
67.1	Pine Ridge Road	Airport Road	Livingston Rd.	0.86	2.09	6	12.56	12.56
2.2	Airport Road	Orange Blossom Dr.	Pine Ridge Rd.	0.65	2.92	6	17.5	17.51
41.2	Immokalee Road	Goodlette-Frank Rd.	Airport Road	0.84	2.47	6	14.8	14.81
42.2	Immokalee Road	Livingston Rd.	I-75	0.71	1.78	7	12.5	12.48
62.0	Old US 41	US 41 (Tamiami Trail)	Lee County line	1.09	1.57	2	3.1	0.00
110.2	Vanderbilt Beach Road	Goodlette-Frank Rd.	Airport Road	0.70	2.40	4	9.6	9.58
111.2	Vanderbilt Beach Road	Livingston Rd.	Logan Blvd.	0.74	3.11	6	18.7	18.68
					57.88		288.72	285.58

Total Lane Miles: 288.7
Lane Miles <=1.0 V/C: 285.6
Percent Lane Miles Meeting Standard: 98.9%

⁽¹⁾ V/C Ratio based upon Total Traffic, including Traffic Counts + Trip Bank + 1/7th Vested Trips

Attachment J

**FY17 Activity Report on continuing Projects under Contract/DCA/Advanced Construction
(Dollars shown in Thousands)**

Project Number	SUMMARY OF PROJECTS BY NAME	FY17 Amount
60040	Golden Gate Blvd Wilson to 20th	12,145
68056	Collier Blvd (Green to Golden Gate Blvd)	6,522
61001	Tree Farm/Woodcrest	1,682
60132	Immokalee Road/CR 951	5,980
60145	Golden Gate Blvd 20th to Everglades	7,640
60168	Vanderbile Beach Rd Collier Blvd to 8th St	5,790
	Total	39,759

****As of 6/30/17**

COUNTY STORMWATER MANAGEMENT SYSTEM

CONTENTS

- **COUNTY STORMWATER MANAGEMENT SYSTEM
– SUMMARY**
- **EXISTING CANAL SYSTEMS AND CONTROL STRUCTURES –
OVERVIEW**
- **COUNTYWIDE STORMWATER CANAL SYSTEM – MAP**
- **COUNTYWIDE STORMWATER CONTROL STRUCTURES –
MAP**
- **PROPOSED STORMWATER MANAGEMENT 5-YEAR WORK
PROGRAM**
- **STORMWATER MANAGEMENT PROJECT DESCRIPTIONS**
- **STORMWATER MANAGEMENT PROJECT LOCATION MAP**
- **ATTACHMENT A: STORMWATER MANAGEMENT PROJECT
PLANNING PROCESS**
- **ATTACHMENT B: SYSTEM INVENTORY AND GIS DATABASE
REPORT**
- **ATTACHMENT “C”: TABLES**
 - TABLE 2 – CURRENT CANAL SYSTEM INVENTORY**
 - TABLE 3 – CANAL AND DITCH CONDITION RATING SYSTEM**
 - TABLE 4 – CURRENT CONTROL STRUCTURE INVENTORY**
 - TABLE 5 – CONTROL STRUCTURE INSPECTION RATING
SYSTEM**

2017 AIUR STORMWATER MANAGEMENT SYSTEM FACILITIES SUMMARY

Facility Type: County Maintained System of Stormwater Management Canals & Structures
(Category A)

Level of Service (LOS) Standard: Varies by individual watershed

Existing System within Collier County:

Based on current Collier County GIS Database

Existing Major Canals	454 Miles
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System Maintained By Collier County:

Based on current Collier County GIS Database

Existing Major Canals	122 Miles
Proposed Reconstruction/Additions within 5-Year Planning Period	1.2 Miles
Existing Water Control Structures	65
Proposed Replacement/Additional Structures within 5-Year Planning Period	6

Stormwater Program Summary FY 2018 thru FY 2022

Recommended Work Program	\$ 50,365,000
Recommended Revenues	\$ <u>35,389,000</u>
Five-Year Surplus or (Deficit)	\$ (14,976,000)

Based on projected funding availability and does not reflect the entirety of unmet stormwater needs. FY2018 outlays actual proposed budget, subsequent years are proposed/estimated and are subject to change.

1. Existing Revenue Sources FY 18-22

General Fund (001)	\$ 9,627,000
General Fund (111)	\$ 21,340,000
Anticipated Grants	\$ 1,550,000
BP/RESTORE Act	\$ 2,500,000
Interest/Misc	\$ 270,000
Carry forward	\$ 102,000
Transfer from Naples Park Debt Svc	\$ 12,000
Less 5% required by law	\$ (12,000)
Total	\$ 35,389,000

2. Supplemental Revenue Sources

None Required

Recommended Action

That the BCC direct the County Manager or his designee to include County stormwater projects appearing on the proposed “Stormwater Five - Year Work Program,” (Table 1) as detailed in the attached Project Descriptions and prioritized by the Stormwater Project Prioritization Process in the next Annual CIE Update and Amendment with the application of revenues as outlined in the Program Revenue section of Table 1; and that it approves the proposed 2017 Stormwater Management System AUIR and adopt the CIE Update for FY2017/18 – FY2021/22.

EXISTING MAJOR CANAL SYSTEMS AND CONTROL STRUCTURES

Currently, the County maintains 122 miles of canal (including ditches) and 65 stormwater control structures. Figures 1 and 2 show the locations for all major canals (including ditches) and stormwater control structures maintained by the County, respectively. Table 2 shown in Attachment C, identifies all canals and ditches within Collier County.

The County, working collaboratively with South Florida Water Management District, provides easements over the primary and secondary watercourses, in accordance with the Cooperative Agreement between Collier County and South Florida Water Management District, dated October 13, 2000, as amended. Table 3 identifies control structures maintained by Collier County.

In 2012, CH2MHill completed a structural evaluation of all county water control structure. Each control structure (Table 3) has an overall condition rating based on two types of inspections: Structural and Civil. The overall condition rating ranks from C-1 (no action needed) to C-5 (critical repair or replacement needed immediately). The ratings are based on identified deficiencies and the potential resulting impact. Table 4 explains each rating.

One structure replacement is currently underway (Haldeman Creek Weir Replacement P/N 60103), one new structure design is complete and scheduled for construction early 2018 (Lely Branch Weir Replacement P/N 60202), one structure rehabilitation was completed this year (Eagle Creek Weir Replacement P/N 60124), and one structure replacement design is currently underway (Pine Ridge Canal Weir Replacement PN 60119).

Collier County Major Stormwater Conveyance System

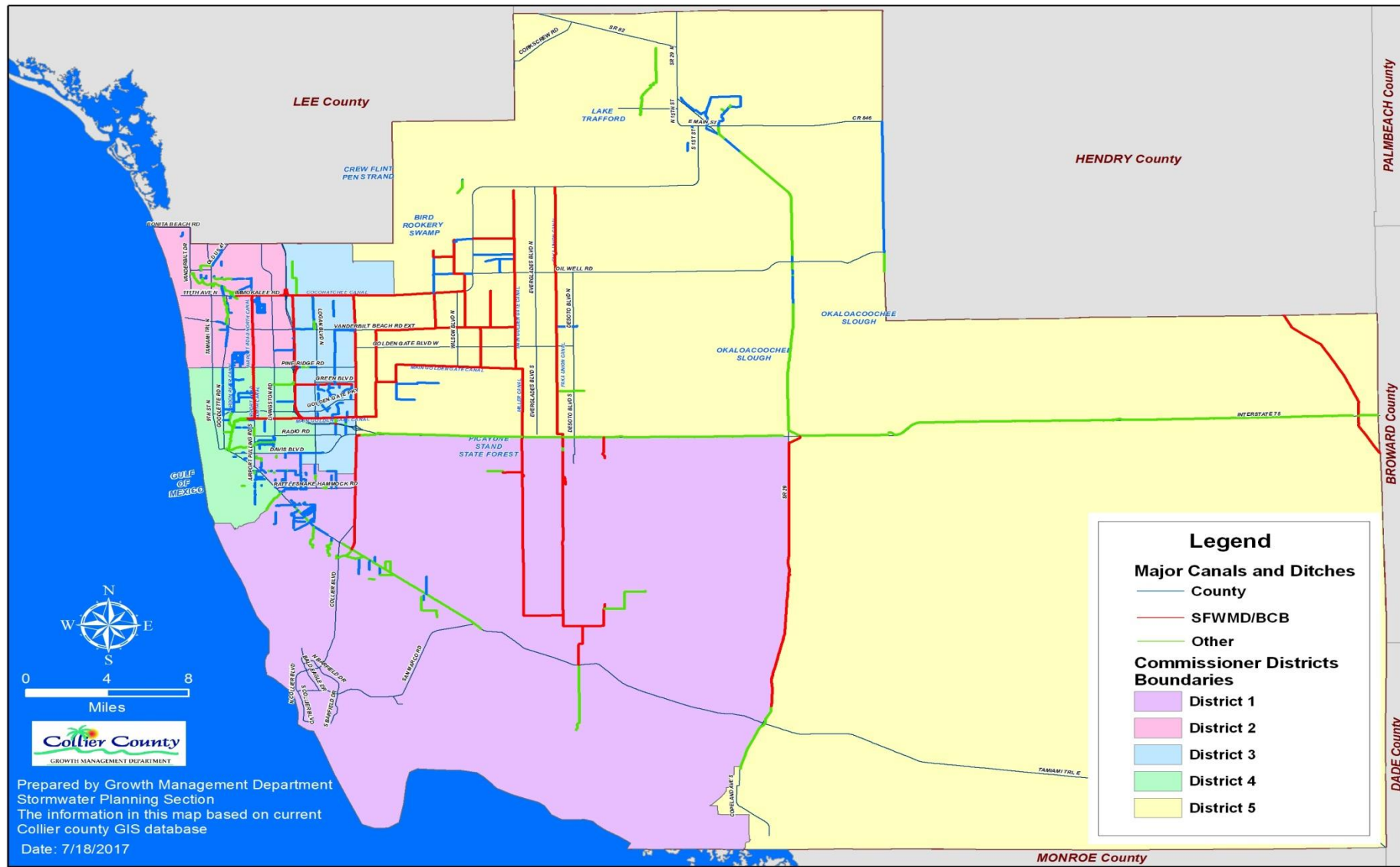


Figure 1: Collier County Major Stormwater Canal System

Collier County Major Stormwater Structures

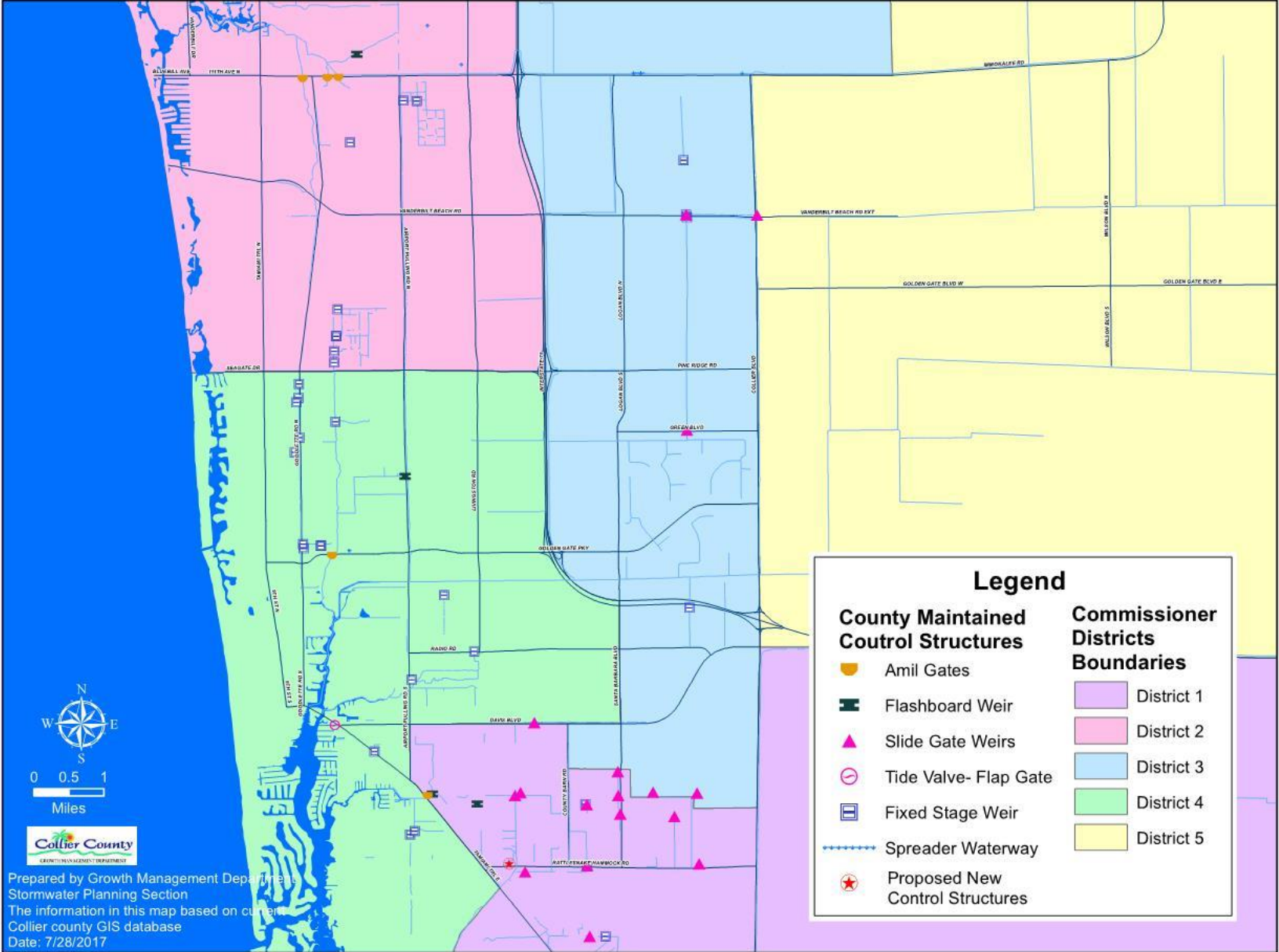


Figure 2: Collier County Major Stormwater Control Structures

2017 AUIR FACILITY 5-YEAR WORK PROGRAM - Stormwater Management

Facility Name: Maintained System of Stormwater Management Canals & Structures (Category A)

Table 1: FY 18 - FY 22

Plan Year		1		2		3		4		5		5 - Year Totals
Fiscal Year		FY 18		FY 19		FY 20		FY 21		FY 22		
Proj. No.	Countywide Programs, Planning & Maintenance											
51144	Stormwater Feasibility and Preliminary Design	400	P	400	P	400	P	400	P	400	P	2,000
60121	NPDES MS4 Program	50	P	150	P	150	P	150	P	100	P	600
60194	Stormwater Maintenance	100	M	200	M	250	M	300	M	350	M	1,200
Proj. No.	Infrastructure & Capacity Projects											
51029	GG City Outfall Replacements	933	DC	2,000	DC	2,000	DC	2,000	DC	2,000	DC	8,933
51803	Gateway Triangle Improvements *											
60124	Eagle Creek Weir Replacement *											
60126	Pine Ridge Stormwater Improvements			150	DC	150	DC	150	DRC	150	DRC	600
60103	Haldeman Creek Weir Replacement *											
60119	Pine Ridge Canal Weir 1 Replacement *											
60122	Vanderbilt Drive Swale Rehabilitation *											
60143	Immokalee Stormwater Imp	432	DRC	1,500	DRC	1,000	DRC	2,000	DRC	4,500	DRC	9,432
60139	Naples Park SW Improvement	2,950	DC	2,600	DC	2,600	DC	2,600	DC	2,600	DC	13,350
60142	W. Goodiette-Frank Area Stormwater Improvements	2,400	DC	500	M	500	M		TBD		TBD	3,400
60195	Harbor Lane Brookside	20	DR	500	A	500	C					1,020
60202	Lely Branch New Weir	220	C									220
60127	North Golden Gate Estates Flowway			100	PA	100	PR	200	DC	200	DC	600
60102	Upper Gordon River	100	D	1,000	RA	1,000	A	1,000	DRC	1,000	C	4,100
60196	Griffin Road Area Stormwater Improvements	20	DRA	400	DRA	500	C	500	C			1,420
51101	LASIP *											
TBD	RESTORE **					500	PD	1,000	PD	1,000	PD	2,500
TBD	Weir Automation			100	PD	250	DC	250	DC	250	C	850
	Reserve for Contingency			35		35		35		35		140
	Total Program Cost***	7,625		9,635		9,935		10,585		12,585		50,365

* Denotes FY17 funded projects anticipated to be active through FY18.

** Funding reflected in FY20, FY21, & FY22 is only the initial portion of a multi-year, large scale, RESTORE project

*** Denotes current funding availability and does not reflect the entirety of unmet stormwater needs.

P = Planning, D = Design & Permitting, R = Right-of-Way Acquisition, C = Construction, M = Maintenance/Monitoring, A = Advance Funding

- Notes: 1. All numbers are in thousands of dollars.
2. 2018 outlay actual budget proposed, subsequent years proposed/estimated & subject to change.

Program Revenue (Fund 325)

Plan Year		1		2		3		4		5		5 - Year Totals
Fiscal Year		FY 18		FY 19		FY 20		FY 21		FY 22		
	Trans fm 001	1,627		2,000		2,000		2,000		2,000		9,627
	Trans fm 111 Unincorporated	4,268		4,268		4,268		4,268		4,268		21,340
	Anticipated Grants	1,550										1,550
	BP/RESTORE Act					500		1,000		1,000		2,500
	Transfer from Naples Park Debt Svc	12										12
	Interest/Misc	70		50		50		50		50		270
	Neg 5% Revenue Reserve	(4)		(2)		(2)		(2)		(2)		(12)
	Carry Forward	102										102
	Unmet Funding	0		3,319		3,119		3,269		5,269		14,976
	Total Program Revenue	7,625		9,635		9,935		10,585		12,585		50,365

FY 18 – 22 PROJECT DESCRIPTIONS

Countywide Programs, Planning & Maintenance

1. Stormwater Feasibility and Preliminary Design (P/N 51144)

This project includes funding for long range strategic planning for future program progression, capital improvement project identification and prioritization, specific basin issue evaluation and funding appropriation analysis. Individual Project Feasibility Studies will be funded from this Project and guided by the project ranking criteria established in the Planning process identified in Attachment A.

2. NPDES MS4 Program (P/N 60121)

Funding within this project covers continued development of and compliance with the federally mandated National Pollutant Discharge Elimination System (NPDES) permitting program for the County operated Municipal Separate Storm Sewer System (MS4).

3. Stormwater Maintenance (P/N 60194)

This project includes funding of various maintenance activities associated with certain existing county stormwater management assets such as the Freedom Park water quality treatment system, Serenity Park's surface water management area, and the Wiggins Pass Road area surface water flow way.

Infrastructure & Capacity Projects

4. Golden Gate City Outfall Replacements (P/N 51029)

This project includes improvements to the collection, treatment and conveyance of urban stormwater runoff by restoring and upgrading an antiquated system installed in early 1960s within the four-square-mile area known as Golden Gate City (GGC). The GGC canal system flows into Naples Bay via the Main Golden Gate Canal. The project includes replacement and improvements to the existing aging infrastructure such as the removal of old catch basins replaced with ditch bottom inlets with grates to catch debris, the addition of sumps at catch basin locations to act as sediment traps, re-grading and sodding of swales to prevent erosion, and provide water quality improvement.

5. Gateway Triangle Improvements (P/N 51803)

Construction of the pond and pump station has been completed. The pumping station is designed to discharge treated stormwater runoff to two different locations: one south of US 41, and one into a new stormwater system along the west side of Brookside Drive north of Davis Blvd (north outfall). Currently, the north outfall is closed (Brookside). A study has been completed demonstrating that utilization of the Brookside outfall will have no adverse impacts to the adjacent homes or streets in the neighborhood. A multiyear water quality testing program was instituted in 2016 to analyze the quality of both the surface water in the Gateway area stormwater pond and the Brookside canal. Next steps are thorough vetting with the Brookside Homeowners Association. The cost of these activities are covered by existing FY 17 funds. No additional funding is anticipated or indicated in this AUIR.

6. Eagle Creek Weir (P/N 60124)

Due to documented structural and mechanical deficiencies as well as operational and maintenance issues (2012 CH2MHill Report), this project was initiated to rehabilitate and enhance an existing water control structure. Three (3) spillway gates have been replaced in the first phase of work. A second phase is scheduled to construct a safe maintenance access

area. The phase two cost is covered by existing FY 17 funds. No additional funding is anticipated or indicated in this AUIR.

7. Pine Ridge Stormwater Management Improvements (P/N 60126)

Improvements in the Pine Ridge Estates Area include replacement of existing aging infrastructure such as catch basins, culverts and re-grading and sodding of roadside swales. This remedial work is currently on hold while an area master plan is completed.

8. Haldeman Creek Weir Replacement (P/N 60103)

The Haldeman Creek Weir Replacement project is currently under construction. Work includes full replacement of an existing surface water management control structure located at the freshwater/saltwater interface of Haldeman Creek just north of US 41 in East Naples. The structure reached the end of its useable life cycle as noted in the 2012 CH2MHill Report. The replacement structure includes a modern, state-of-the-art water control gate adaptable to fluctuating tidal conditions and can be retrofitted with automation technology. The construction cost is covered by existing FY 17 funds. No additional funding is anticipated or indicated in this AUIR.

9. Pine Ridge Canal Weir Replacement (P/N 60119)

The Pine Ridge Canal Weir has current documented structural and mechanical deficiencies as well as operational and maintenance issues (2012 CH2MHill Report). The new replacement weir is currently under design. Construction schedule has been delayed approximately one year to coordinate with planned private redevelopment of the adjacent area. The construction cost is covered by existing FY 17 funds. No additional funding is anticipated or indicated in this AUIR.

10. Vanderbilt Drive Area Stormwater Improvements (P/N 60122)

This project is a multi-phased project that includes reconstruction of the roadside swale along the east side of Vanderbilt Drive adjacent to Naples Park, and reconstruction of the roadside stormwater management system of the Conner's Sub-division (west of Vanderbilt Drive). Construction commenced on October 2016 with expected completion date of April 2019. The construction cost is covered by existing FY 17 funds. No additional funding is anticipated or indicated in this AUIR.

11. Immokalee Stormwater Improvements (P/N 60143)

This project includes an update to the Immokalee Stormwater Master Plan, future stormwater treatment pond sighting feasibility analysis, coordination with the Lake Trafford Management Group, and the Immokalee Water and Sewer District. Future stormwater management improvement projects, as prioritized by the master plan update, will be fully coordinated and vetted with the Immokalee Community Redevelopment Agency.

12. Naples Park Area Stormwater Improvements (P/N 60139)

In coordination with the Public Utilities Division, this project includes water main and sanitary sewer collection system replacements, as well as roadside stormwater management system improvements. Roadside stormwater improvements are occurring in conjunction with utility replacement work on all east-west streets in the Naples Park Subdivision. This is a multi-year, multi-phase project.

13. W. Goodlette-Frank Rd Area Stormwater Improvements (FKA Ridge St.) (P/N 60142)

In coordination with the City of Naples Wastewater Collection System improvements project, project planning and design is currently underway to address stormwater (flooding) problems and existing septic system failures during periods of high rainfall on several streets between Goodlette-Frank Road and US-41. Stormwater runoff from the area flows east into the upper Gordon River then to Naples Bay, both sensitive impaired bodies of water. Work will include water quality improvements designed to decrease stormwater runoff nutrient concentrations.

14. Harbor Lane Brookside (P/N 60195)

Harbor Lane is a street in the Brookside neighborhood which needs surface and possibly base refurbishment. The street's stormwater management system has reached the end of its life span and needs reconstruction as well. A new stormwater management system is currently under design. The design includes new culverts and catch basins as well as necessary water quality improvements. The Brookside neighborhood discharges stormwater into Naples Bay, an impaired waterbody. Construction is currently planned for FY 19 pending availability of funds. Contingent upon successful completion of the Harbor Lane improvements, the few remaining streets in the Brookside neighborhood will be considered for future work when funds become available. Vetting of all work within the Brookside HOA is beginning now during the design phase.

15. Lely Branch Canal Weir (P/N TBD)

This project will include the construction of a new weir just north of Rattlesnake Hammock Road to maintain historic dry season water levels in the area without reducing the conveyance capacity of the newly improved system – Lely Branch Canal. The structure design and permitting is complete. Construction is currently scheduled for the 2018 dry season.

16. North Golden Gate Estates Flowway (AKA GGWIP) (P/N 60127)

Effort includes developing strategies to redirect stormwater runoff in the North Golden Gate Estates (NGGE) area. The goal of this initiative is to consider the feasibility of utilizing surrounding low-lying wetland areas for wet season surface water storage. Increasing water storage at the source could decrease the rate and volume of stormwater runoff currently conveyed to the roadside swale and ditch system and ultimately into the canal system. The work includes analysis of potential linking of areas by multiple culvert installations under estates roads. Project benefits include City and County potable water well field recharge, reduction of fresh water flows into Naples Bay via the Golden Gate Main Canal, and hydrologic restoration of the existing wetlands in Golden Gate Estates.

17. Upper Gordon River Stormwater Improvements (P/N 60102)

The focus of this project is on the northern-most portion of the Gordon River north of Golden Gate Parkway, upstream of the natural section of the Gordon River and Naples Bay. Work may include partnership with several surrounding golf courses, one or two water control structure replacements, exotic vegetation removal with possible supplemental native vegetation plantings to improve water quality, channel conveyance improvements and aquifer recharge and storage components.

18. Griffin Road Area Stormwater Improvements (P/N 60196)

The Griffin Road Area Stormwater Improvement Project is located near the southwestern terminus of Griffin Road in the East Naples area of Collier County off of US41 (Tamiami Trail) and Barefoot Williams Road. The project includes construction of a water quality treatment area on Rookery Bay National Estuarine Research Reserve property. The focus of the project

is to provide water quality treatment facilities and an adequate stormwater outfall for the area to reduce frequency of flooding.

19. LASIP (P/N 51101)

The Lely Area Stormwater Improvement Project (LASIP) is a large master planned project involving major improvements to the Lely Canal, Lely Branch Canal, and Lely-Manor Canal systems in the East Naples area. After over 25 years of planning and construction the effort is essentially complete. Current activities consist of project permitting close out, maintenance and monitoring, and curing outstanding orders of taking through mediation and legal proceedings stemming from acquisition of necessary drainage, maintenance and access easements. The cost of these activities are covered by existing FY 17 funds. No additional funding is anticipated or indicated in this AUJR.

20. RESTORE (P/N TBD)

This is a new, large, comprehensive watershed improvement initiative currently in a conceptual planning stage. The initiative includes development of a suite of projects to be completed in phases, all with the goal of rehydrating and restoring historic, wet season surface water overland flow principally within the Belle Meade region of Collier County. Project concepts and a multiyear plan have been submitted to the state and the US Department of the Treasury to gain authorization for use of RESTORE Act funds to further the initiative.

21. Weir Automation (P/N TBD)

This is one of many future initiatives being programmed as resources and funding becomes available. Current projects involving work on several water flow and level control structures (weirs) are in various stages of implementation. "Work" includes at a minimum, replacement of certain weir components (rehabilitation). Work also includes full structure replacement and in some cases relocation of entire structures. All new and rehabilitated weirs with manually adjustable control gates are being considered for this potential future automation upgrade.

Collier County Stormwater 2017 AUIR Project Location Map

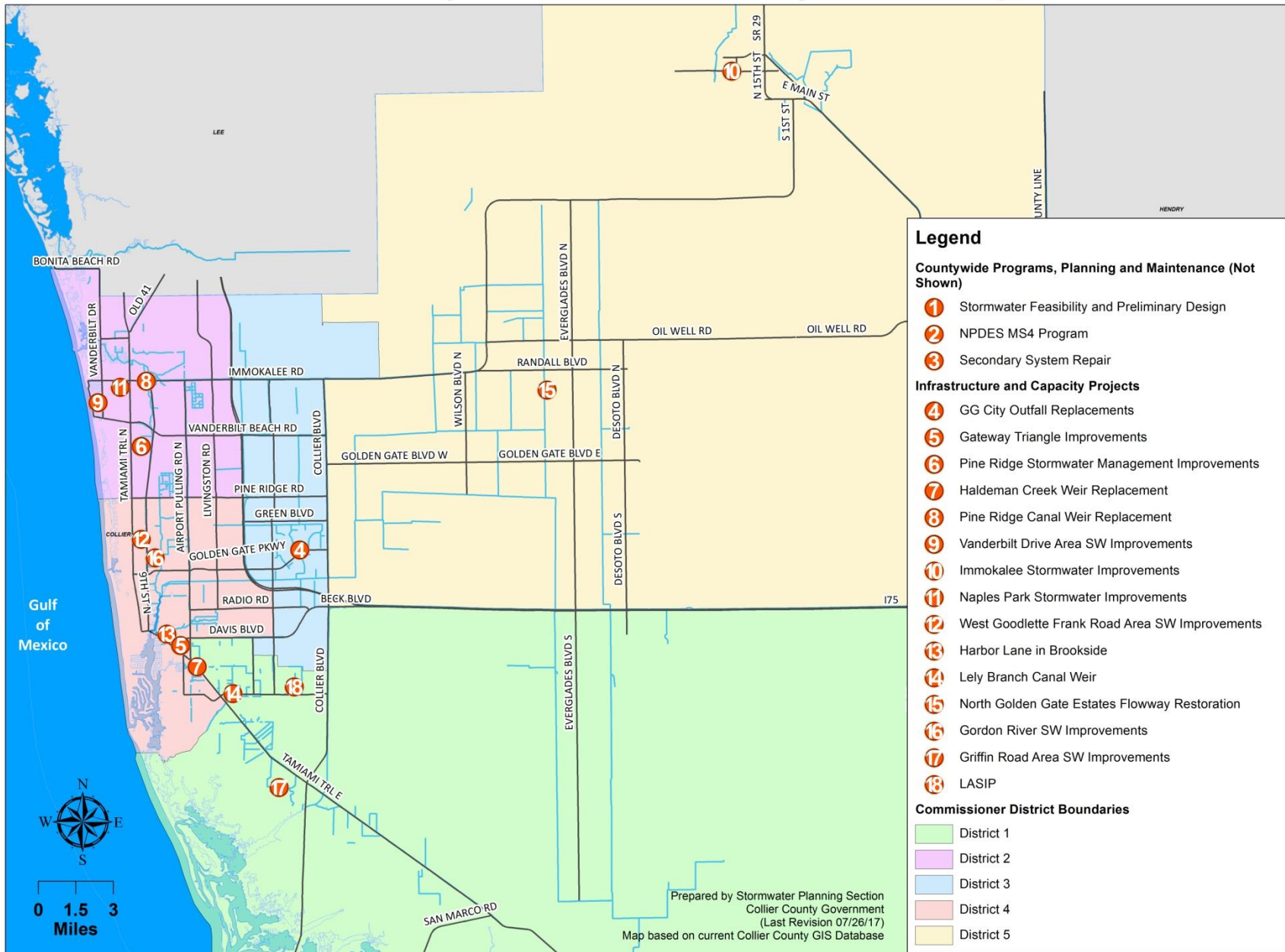


Figure 3: 2017 AUIR Project Location Map

Attachment "A"

COLLIER COUNTY STORMWATER MANAGEMENT PROJECT PLANNING PROCESS

Objective: To adequately identify and prioritize stormwater management projects to include in the County's AUIR/5-year Plan and Budgeting process.

Purpose: To provide the Board County Commissioners with a general outline of the ongoing Project Planning and Prioritization Process.

Considerations: The Stormwater Management Project Planning Process identifies and prioritizes potential projects for advancement into the AUIR/5-year Plan and annual Stormwater Management budget process. Typically project feasibility studies are completed first. Studies are then be used to rank the projects for eventual funding and construction within the County's AUIR/5-year Plan and annual budget process. The feasibility studies will also provide staff with better project cost estimates for preparing budget requests. Input from external stakeholders will also be used to recommend projects for the AUIR/5-year Plan.

Plan Elements:

➤ **Potential Project Database**

Staff has developed a Comprehensive Stormwater Needs database that contains all potential future stormwater improvement projects. Projects are provided from three main sources: customer complaint database, staff knowledge and Planning Studies. This database is periodically updated to reflect new information as projects are implemented and sources provide new potential projects.

➤ **Project Profiles**

Staff selects potential projects from the database to gather detailed information to develop Project Profiles. Project Profiles are based by first determining the Objective of the Project, Benefit Area and Preliminary Conceptual Cost. Once those three basic components are defined, staff can provide information regarding affected acreage and population, per parcel cost, per acre cost, per capita cost, and per \$1,000 of assessed value cost. A narrative explaining the objective, purpose and needs of the project is also provided in the Project Profile.

➤ **Scoring Committee and Project Ranking Criteria**

A Stormwater Planning Process Committee has been established to review and score the Project Profiles. The seven (7) committee members, all county staff, come from different departments such as Stormwater, Comprehensive and Floodplain Management Planning, Engineering, Road Maintenance, and Pollution Control. Scoring is based on four major aspects: Health and Safety, Project Feasibility, Project Support, and Environmental Benefits.

➤ **Feasibility Studies**

Top ranked Project Profiles are selected for Feasibility Studies which provide more detailed and secured information regarding the project's cost, life, and stages. Project Profiles are updated with information from the feasibility studies.

The Scoring Committee has ranked ten (10) projects; some current and ongoing, and some conceptual projects. The ranking and evaluation process and input from the committee has been

deemed extremely useful and valid. As such, ranking information is considered and utilized in this current AUIR/5-year Plan.

Attachment “B”

SYSTEM INVENTORY AND GIS DATABASE REPORT

Objective: To maintain a complete and current inventory of all existing county maintained stormwater and surface water management system assets.

Purpose: To provide the Board of County Commissioners with an update on progress made to date with establishment of the Stormwater Management System Inventory GIS Database

Considerations: For the past several years staff has been identifying existing stormwater management assets and sequentially building the stormwater management system geodatabase. The database currently includes the main canals and ditches, water level, and flow control structures and arterial roadway drainage infrastructure. Several hundred miles of collector and minor roadway swales, culverts and inlets are yet to be added to the dataset. They represent the majority of stormwater assets maintained on a day to day basis. All of the water control structures are field verified and have conditional ratings. Field verification is ongoing for the arterial roadway stormwater management infrastructure.

Current data collection is being coordinated with Operation and Maintenance staff (O&M) activities to the greatest extent possible. When data collection technicians log entries associated with geodatabase objects in advance of a scheduled O&M activity, subsequent O&M activity entries can then be connected to geodatabase objects. In this way, a work history for each asset is created that is now associated to geodatabase objects. Creating a work history for each asset can result in high level reporting such as required by the state for the County National Pollutant Discharge Elimination System Municipal Separate Storm Sewer System (NPDES MS4) Permit, Permit # FLR04E037. Some examples are pesticide sprayers accounting for chemical usage including location and acreage and sediment removal tied to asset type (inlet, culvert, and swale).

Other information being collected and added to the database includes information collected during the right-of-way permitting process, roadside assets in neighborhoods, roadside improvements completed as part of neighborhood stormwater improvements, remedial work or existing condition assessments (surveys), roadway outfalls to canals or tidal waters, secondary county roadway swales, culverts, inlets and manholes including all Golden Gate Estates roads and the urban county roads, and outfalls from private developments discharging into the County maintained system.

The existing Stormwater Management System Inventory GIS Database is substantial, functioning, and has become an important tool used daily by O&M staff as well as Stormwater Planning staff. All the data, maps and asset tables produced for this AUIR were generated using the database. The database is being used to capture information that is essential for mandated reporting to the state as part of the County’s NPDES MS4 Permit requirements, as well as reporting for the County’s participation in the National Flood Insurance Program Community Rating System (NFIP CRS).

Attachment "C"

Table 2 - Current Collier County Canal System

	Branch ID	Facility Name	Length (MI)
1	9CC-00 & 9CN-00	951 Canal	6.94
2	ARN-00	Airport Road North Canal	1.84
3	ARN-00:ARN 02	Four Seasons Perimeter Ditch	2.83
4	ARN-01 - 22	Four Seasons Lateral Ditches	1.52
5	ARS-00	Airport Road South Canal	4.92
6	BRC-00	SR 29 Canal	33.62
7	BRC-01:BRC-04	Alligator Alley Canal	5.40
8	BRN-00	SR 29 Canal	13.93
9	BRN-01	Immokalee Airport Perimeter Canal	5.40
10	BRN-04	BRN-04	0.24
11	BRN-05	BRN-05	0.12
12	C4C-00	Eagle Creek Canal	1.38
13	C4C-01	Wing South	1.45
14	C4C-02	Skyway Drive	0.72
15	C4C-03	C4C-03	0.28
16	CCB-00	Corkscrew Canal	5.57
17	CCB-01	CCB-01	1.26
18	CCB-01	Twin Eagles Ditch	2.10
19	CCB-01	CCB-01	0.61
20	CCB-02	CCB-02	1.02
21	CCB-03	CCB-03	0.37
22	CCB-04	CCB-04	0.04
23	CCB-05:CCB-07	Corkscrew Sanctuary Ditch	2.87
24	CRB-00	Cocohatchee Canal	12.31
25	CRB-01	Horse Creek	0.34
26	CRB-02	CRB-02	0.21
27	CRB-03	CRB-03	0.05
28	CRB-04	CRB-04	2.18
29	CRB-05	CRB-05	0.03
30	CRB-06	Encore Way Outfall	0.45
31	CSB-04	CSB-04	0.40
32	CSB-05	Fish Branch Creek	6.32
33	CYC-00	Cypress Canal	8.17
34	CYC-01	Curry Canal	2.00
35	D1C-00	Harvey Canal	3.01
36	D1C-00	Lambert Canal	0.13
37	D1C-01	D1C-01	0.92
38	D2C-00	I-75 Canal	7.29
39	D2C-01	Napa Ditch	0.59
40	D2C-02	Oaks/ Vanderbilt Canal	0.98
41	D2C-03	Wyndemere south outfall	0.81
42	D2C-04	Livingston Woods Outfall	0.92
43	D2C-05	Kensington Canal	1.13
44	D2C-06	Oaks/ Vanderbilt Canal	1.92
45	D2C-07	D2C-07	1.35
46	D2C-08	D2C-08	0.88
47	D2C-09	D2C-09	0.01
48	Davis	Davis	0.11
49	EBC-00	Coco East Outfall	0.24
50	EMC-00	Merritt Canal	6.05
51	EMC-02:EMC-13	Alligator Alley Canal	7.99
52	FKC-00	Faka Union Canal	33.48
53	FKC-00:FKC-02	Alligator Alley Canal	1.61
54	FKC-03	FKC-03	1.29
55	FKC-04	Desoto Ditch	1.02
56	FPC-00	Prairie Canal	3.03

57	GCB-00	Sunrise Canal	0.73
58	GCB-00	Green Canal	2.89
59	GCB-01	Neptune Canal	0.59
60	GCB-02	Hunter Canal	0.90
61	GCB-03	Tahiti Canal	0.19
62	GCB-04	Lucerne Canal	0.21
63	GCB-05	Sunset Canal	0.18
64	GCB-06	Sunshine Canal	0.75
65	GCB-07	Serenade Canal	0.12
66	GRE-00	Gordon River	1.45
67	GRE-00	Gordon River Extension	2.70
68	GRE-00	Forest Lakes West Side	1.04
69	GRE-00	Taylor Rd Canal	0.76
70	GRE-01	Goodlette Rd. Pine Ridge to GG Blvd.	2.75
71	GRE-02	GRE-02	0.21
72	GRE-03	Wilderness Ditch	0.41
73	GRE-04:GRE-05	Poinciana Village	2.22
74	GRE-07	GRE-07	0.19
75	GRE-08	Forest Lakes South Side	0.49
76	GRE-09:GRE-12	Pine Ridge I.P. Ditches	0.83
77	GRE-13	Yahl Street Canal	0.24
78	GRE-14:GRE-37	Pine Ridge I.P. Ditches	2.48
79	GRE-51	Baily Lane Ditch	0.12
80	GRE-52	Baily Lane Ditch	0.16
81	GTB-05	Manorca Street Swale	0.18
82	GTB-14	Village Plaza Ditch	0.11
83	HCB-00	Haldeman Creek	1.48
84	HCB-01	Lake Kelly Outfall	0.90
85	HCB-02	United Telephone Ditch	0.04
86	HCB-02	Sugden Park (Lake Avalon)	0.03
87	HCB-07	Guilford Rd.	0.43
88	HCB-08	Guilford Rd.	0.30
89	HCB-09	HCB-09	0.25
90	HCB-10	HCB-10	0.13
91	HCB-17	HCB-17	0.09
92	HCB-18	HCB-18	0.10
93	HCB-19	HCB-19	0.09
94	HCB-20	HCB-20	0.06
95	HEC-00	Henderson Canal	9.42
96	HEC-03	Triple X Canal	0.98
97	HEC-05	Tamiami Canal	1.58
98	HEC-06	Alligator Alley Canal	6.00
99	HEC-07	Roost Rd	0.89
100	IDO-00	Horse Creek	1.11
101	IDO-00	Palm River Eastwood Ditched	0.27
102	IWO-00:IWO-01	Imperial/FPL Ditch	0.29
103	L28-00	L-28 Tieback	9.67
104	L28-00:L28-11	Alligator Alley Canal	33.05
105	LCB-00	Lely Canal Branch	0.28
106	LCB-00	Lely Main Canal East-West	0.87
107	LCB-00	Lely Canal Branch	0.96
108	LCB-00	Lely Main Canal North-South	0.33
109	LCB-00	Naples Mobile Estates Ditch	0.02
110	LCB-00	Santa Barbara Ext Canal	0.82
111	LCB-01	Lely Main Canal North-South	0.08
112	LCB-01	Riviera Power line Canal	0.98
113	LCB-01	Davis Blvd. ditch	1.90
114	LCB-01	Riviera Golf Estates Ditch	0.05
115	LCB-02	Boca Ciega Ditch	0.49
116	LCB-02	Hawaii Blvd Ditches	0.09
117	LCB-03	Boca Ciega Ditch	0.06
118	LCB-04	Saint Peters Swales	0.22

119	LCB-05	Hawaii Blvd Ditches	0.19
120	LCB-06	Queens Park North	0.05
121	LCB-07	Hawaii Blvd Ditches	0.18
122	LCB-08	Colony Pines Ditch	0.18
123	LCB-09	County Barn Rd	1.73
124	LCB-10	Riviera Golf Estates Ditch	0.93
125	LCB-11	Naples Mobile Estates Ditch	0.71
126	LCB-12	Lely Canal Branch	0.25
127	LCB-13	Lake Lenore Ditch	0.37
128	LCB-13	Lely Main Canal East-West	0.06
129	LCB-15	Naples Mobile Estates Ditch	0.01
130	LCB-17	Lely Main Canal North-South	0.02
131	LCB-19	LCB-19	0.13
132	LCB-20	LCB-20	0.01
133	LMB-00	Lely Manor Outfall South Section	0.77
134	LMB-00	Lely Manor Outfall Canal	0.82
135	LMB-00	Naples Manor North Canal	1.29
136	LMB-01	Myrtle Cove West	0.53
137	LMB-01	Naples Manor Perimeter Ditch	0.69
138	LMB-03	Myrtle Cove East	0.48
139	LMB-03:LMB-13	Naples Manor Ditches	2.33
140	LMB-07	Treviso Canal East	1.35
141	LMB-14	Four Fountains Ditch	0.09
142	LMB-06	Lely Manor Canal	0.71
143	LMB-11	Lely Manor Canal	0.23
144	LMB-15	Lely Manor Canal	0.17
145	LMB-11	Saint Andrews Daycare Ditch	0.03
146	MCB-00	Cocohatchee River	1.54
147	MCB-01	MCB-01	0.22
148	MCB-06	MCB-06	0.13
149	MCB-07	MCB-07	0.75
150	MCB-09	MCB-09	1.14
151	MCB-09	Benson/Porter Ditch	0.70
152	MCB-10	Benson/Porter Ditch	0.69
153	MCB-12	Trail Acres	0.73
154	MCB-13	MCB-13	1.94
155	MCB-14	MCB-14	0.16
156	MCB-15	Lake Park Rd	0.34
157	MCB-17	MCB-17	0.20
158	MGG-00	Main Golden Gate Canal	27.67
159	MGG-01	Sunflower Canal	0.30
160	MGG-02	Tropicana Canal	0.01
161	MGG-02	Shell Canal	0.17
162	MGG-02	Tropicana Canal	1.19
163	MGG-03	Sunfish Canal	0.31
164	MGG-04	Santa Barbara Canal	0.20
165	MGG-04	Coronado Canal	1.07
166	MGG-05	Ibis Canal	0.20
167	MGG-06	Coronado Canal	0.13
168	MGG-09	C-2 North/South canal	1.90
169	MGG-10	C-2 East/West Canal	2.06
170	MGG-12	Fairgrounds Canal	1.98
171	MGG-13	Golden Gate Side Branch Cana	2.01
172	MGG-14	MGG-14	0.46
173	MGG-15	Palm Springs Outfall	0.50
174	MGG-15	MGG-15	0.36
175	MGG-16	MGG-16	0.33
176	MGG-16	Radio Rd outfall	0.60
177	MGG-17	Coconut Outfall Swale	0.93
178	MGG-18	Transfere Station Ditch	0.73
179	MGG-20	Bollt Canal	2.13
180	MJC-00	Miller Canal	19.27

181	MJC-01	MJC-01	1.31
182	MJC-02	Alligator Alley Canal	0.66
183	MJC-03	C-1 Canal	1.67
184	OSB-01	County Line Rd Canal	8.71
185	OTC-00	Orange Tree Canal	2.12
186	PLM-00	Palm River Canal	1.12
187	PLM-00	Palm River Raven Way Ditch	0.37
188	PRC-00	Pine Ridge Canal	2.27
189	PRC-00	Goodlette Rd. VBR to Pine Ridge	1.19
190	PRC-01	Hickory Road Ditch	0.44
191	PRC-02	Carica Road Ditch	0.33
192	PSB-00	Palm Street Outfall	0.10
193	RCB-00	Rock Creek	2.76
194	RCB-01	RCB-01	0.46
195	RCB-02	Gail/Hazel Ditches	0.96
196	RCB-03	North Rd Ditch	0.91
197	RCB-04	RCB-04	0.31
198	RCB-05	Estey/San Remo ditch	0.23
199	RCB-06	Flamingo/Bluebird ditch	0.25
200	RCB-07	RCB-07	0.12
201	RCB-08	Lotus Swale	0.03
202	S1S-00	Throat Canal	0.48
203	S1S-00	U.S. 41 Outfall Swale No. 1	1.90
204	S1S-01:S1S-06	S1S-06	3.66
205	SPO-00	Seminole Park Outlet	4.57
206	SPO-01	Riggs Rd	1.02
207	TRB-01:TRB-14	Alligator Alley Canal	19.95
208	UIB-00	Immokalee Main Canal	2.92
209	UIB-00	Madison ave Ditch	1.74
210	UIB-03	Urban Immokalee Canals	0.24
211	WBB-00	Old US41 Swales	1.33
212	WBB-00	Tarpon Cove Canal	0.68
213	WBB-00	Wiggins Bay	0.37
214	WBB-01	WBB-01	0.27
215	WBB-01	Wiggins Pass Outfall	0.01
216	WBB-01	Wiggins Bay	0.02
217	WBC-00	Coco West Outfall	0.31
218	WBC-00	Victoria Park Outfall West End	0.23
219	WBC-00	North Naples Water Treatment	0.46
220	WBC-01	West Branch Cocohatchee River	0.02
221	WPO-00	Winter Park Outfall	0.05
222	WPO-00	Haldemann Glades Outfall	1.00
Total			453.71

Table based on current Collier County GIS Database

Table 3: Existing Collier County Stormwater Control Structures

Structure ID	Facility Name	Overall Rating	
1	ARN-02-S0110	Four Seasons Outfall	C2
2	ARN-02-S0120	Four Seasons	C2
3	BRN-00-S0110	Sunniland	C1
4	C4C-00-S0110	Eagle Creek	C2
5	C4C-04-S0090	Naples manor Broad Crested Wier	TBD
6	D1C-00-S0120	Harvey #1	C2
7	D1C-00-S0150	Harvey #2	C1
8	D1C-01-S0102	VBR Weir (Roadside Water Quality Str)	C1
9	D2C-08-S0110	Islandwalk Inflow	C1
10	EBC-00-S0110	Coco East	C2
11	GRE-00-S0100	Gordon River	C2
12	GRE-00-S0124	Gordon River Extension	TBD
13	GRE-01-S0480	Goodlette Road Canal #1	C3
14	GRE-01-S0510	Goodlette Road Canal #2	C1
15	GRE-03-S0100	Freedom Park Overflow (Bypass) Weir	C1
16	GRE-04-S0110	Poinciana	TBD
17	GRE-09-S0100	Pine Ridge Industrial Park	TBD
18	GRE-10-S0100	Pine Ridge Industrial Park	TBD
19	GRE-12-S0100-1	Pine Ridge Industrial Park	TBD
20	GRE-12-S0100-2	Pine Ridge Industrial Park	TBD
21	GRE-17-S0114	Pine Ridge Industrial Park	TBD
22	GRE-36-S0100	FP Spreader Berm	TBD
23	GRE-36-S0120	FP Wetlands Weir	C1
24	GRE-36-S0240	FP Waterfall	TBD
25	GRE-39-S0100	West Lake Outfall	C1
26	GRE-41-S0130	Twin Lakes Outfall	C1
27	GRE-44-S0140	Sperling Lake Outfall	C1
28	GTB-00-S0100	Flap Gates	C2
29	GTB-01-S0090	Flap Gates	TBD
30	GTB-04-S0110	Gateway Triangle	C2
31	HCB-00-S0130	Haldeman Creek	C2
32	HCB-00-S0200	Lakewood County Club Weir	C1
33	HCB-00-S0220	Lely Branch Splitter	TBD
34	HCB-01-S0100	Lake Kelly	C1
35	HCB-02-S0106	Lake Avalon	C2
36	HEC-03-S0100	Henderson #2	C2
37	HEC-04-S0100	Henderson #4	TBD
38	HEC-05-S0100	Henderson #5	TBD
39	LCB-00-S0122	Doral Circle	C1
40	LCB-00-S0150	Royal Wood	C1
41	LCB-00-S0190	Santa Barbara #1	C1
42	LCB-00-S0210	Santa Barbara #2	C1
43	LCB-00-S0230	Santa Barbara #3	C1
44	LCB-01-S0140	Crown Pointe	C2
45	LCB-01-S0174	Davis Blvd	TBD
46	LCB-15-S0100	Rattlesnake Rd. Weir (Roadside Water Quality Str.)	C1
47	LCB-20-S0220	Whitaker Rd Ditch Block (West)	TBD
48	LCB-20-S0230	Whitaker Rd Weir	TBD
49	LMB-00-S0100	Lely Manor West Outfall Spreader Weir	C1
50	LMB-00-S0120	Lely Manor Circular Marsh Fixed Crest Weir	C1
51	LMB-00-S0150	Warren Street Weir	TBD
52	MGG-12-S0120	Immokale Road Water Quality Str at Fairgrounds Outfall	TBD
53	MGG-14-S0100	Naples Production Park (North)	TBD
54	MGG-16-S0140	Radio Rd.	C1
55	MGG-19-S0020	Boltt Canal	TBD
56	MGG-20-S0020	Boltt Canal - Flap Gate -1	TBD
57	MGG-20-S0040	Boltt Canal - Flap Gate -2	TBD
58	PLM-00-S0100	Palm River Weir	C2
59	PRC-00-S0110	Pine Ridge 1	C4
60	RCB-02-S0110	Hazel Rd. Weir	C2
61	RCB-04-S0110	Collier Co. Production Park (South)	C2
62	WBB-01-S0110	Wiggins Pass Weir	C2
63	WBC-00-S0110	Coco West	C2
64	WBC-04-S0130	Victoria Park West Outfall	TBD
65	WPO-00-S0100	Winter Park Weir	C2

Table based on current Collier County GIS Database

Table 4: Control Structure Inspection Rating System

Overall Rating	Description for the Overall Structure	Application
C1	All old deficiencies noted from the previous inspection have been corrected.	Applied when no further action is recommended for the structure.
C2	Most old deficiencies noted from the previous inspection have been corrected.	Applied when the overall recommendation is to monitor minor deficiencies. Deficiencies will generally be re-evaluated at the next five-year inspection of the structure. Provide overall recommendation on when (timeframe) to monitor deficiencies previous to the next structure inspection cycle.
C3	Deficiencies and/or several old deficiencies noted in the last inspection have not been corrected.	Applied when the overall recommendation is to repair the structure during the next maintenance cycle or within 5 to 10 year capital repair schedule. Maintenance repairs are generally estimated to cost less than \$50,000; will not require engineering design.
C4	Serious deficiencies exist that if not immediately corrected may lead to or cause deterioration of the structure.	Applied when the overall recommendation is to elevate repairs to the County's five-year capital repair program. Includes repairs that are generally estimated to cost \$50,000 or more, will require engineering design, or should be repaired within a five-year period.
C5	Major deficiencies exist such that the structural integrity of the structure will probably not withstand a major flood event.	Applied when the overall recommendation is to elevate repairs to the County's capital repair program, but repairs should be conducted in the next cycle of repairs. Generally the next cycle of repairs would include repair design in the fiscal year following inspection with repair in the fiscal year following design (two-year process).
C5 Critical	Emergency deficiencies exist that must be addressed immediately. Deficiencies include those that impede operation of the structure or jeopardize public safety.	Applied when immediate repairs are recommended. Generally the County would respond by dispatching its Field Station personnel to triage the deficiency (e.g., block access to the structure, reduced structure operating capacity) until repairs could be affected. Responding County design engineers would be altered to fast track repairs if triage does not ameliorate the deficiencies.

**TBD: Current condition not known at this time. Update upon next inspection.

Attachment “D”

BASINS AND SUB-BASIN REPORT

Objective: To guide the County’s Stormwater Management Program by utilizing a watershed management approach.

Purpose: To provide a general update on the basins/watersheds used for water resource management and planning within the County.

Considerations: The Stormwater Management Program began a new approach to water resource management with the BCC’s acceptance of the County Watershed Management Plan on December 13, 2011. The Plan provides assessment and management information for geographically defined watersheds including: analysis, actions, participants, and resources related to developing and implementing the Plan. Understanding issues on a basin by basin level allows for better quantitative analysis and program planning. The Board directed staff to implement the Plan as funding and resources became available. Staff continues to follow that directive when initiating Plan recommendations.

There are currently 51 basins in the Stormwater Management GIS database. Since 1990 (Ord. 90-10), the County has had a maximum allowable post-development stormwater runoff discharge rate of 0.15 cubic feet per second (cfs) per acre for all basins, with six (6) exception areas (basins) ranging from 0.04 to 0.13 cfs per acre. These more restrictive rates were established through modeling efforts that demonstrated the need to restrict flows from adjacent lands to the receiving canals. Stormwater discharge rates are limited so the rate at which runoff leaves a developed site will not cause adverse off-site (typically downstream) impacts.

In the development of the Watershed Management Plan (WMP), computer modeling was used to determine the maximum flow that can be conveyed by the various water management canal segments. Results from that effort indicated that various segments of the primary and secondary water management systems do not have the capacity to handle large storm events. Expansion or enlargement of this system to create additional system capacity is not a viable strategy for managing stormwater flows. One means of addressing this limited capacity is to restrict the maximum flow in the associated basins that feed into the canals. The WMP included recommendations to reduce the maximum allowable post-development discharge rates in several basins.

In addition to these recommendations in the WMP, two additional detailed stormwater management master plans, developed jointly by the South Florida Water Management District and the County for the Belle Meade and Immokalee areas, recommended further limiting the discharge rates for four (4) basins/sub-basins. Conditions may worsen in the future unless management actions are implemented to control the impact of subsequent changes to land use. In total, reducing maximum allowable post-development discharge rates in sixteen (16) basins/sub-basins will ensure adequate flood protection levels of service.

A feasibility study and impact analysis was completed to examine the effects of implementation of the discharge rate restrictions. Staff fully vetted the new restricted discharge rates with the Development Services Advisory Committee, the Collier County Planning Commission and, the

South Florida Water Management District. The new rates were then approved by the Board of County Commissioners on June 13, 2017 and became effective on August 4, 2017.

This report includes a listing of all basins with their respective acreage (Table 5); a map depicting all basins within the County (Figure 4); and, a map depicting the twenty-two (22) basins that have restricted stormwater discharge rates (Figure 5).

Basins and Discharge Rates

<u>Specific Discharge Limitation Basins</u>	<u>Rate</u>
1. Airport Road North Canal Basin	0.04 cfs/acre
2. Airport Road South Canal Basin	0.06 cfs/acre
3. Cocohatchee Canal Basin	0.04 cfs/acre
4. Lely Canal Basin	0.06 cfs/acre
5. Harvey Canal Basin	0.06 cfs/acre
6. Wiggins Bay Outlet Basin	0.13 cfs/acre
7. Henderson Creek - Belle Meade Basin North	0.06 cfs/acre
8. Henderson Creek - Belle Meade Basin South	0.04 cfs/acre
9. Immokalee Master Basin East	0.05 cfs/acre
10. Immokalee Master Basin West	0.10 cfs/acre
11. 951 Canal North Basin	0.11 cfs/acre
12. C-4 Canal Basin	0.11 cfs/acre
13. Corkscrew Canal Basin	0.04 cfs/acre
14. Cypress Canal Basin	0.06 cfs/acre
15. Faka-Union Canal Basin-N	0.09 cfs/acre
16. Gordon River Extension Basin	0.09 cfs/acre
17. I-75 Canal Basin	0.06 cfs/acre
18. Imperial Drainage Outlet Basin	0.12 cfs/acre
19. Lely Manor Canal Basin	0.06 cfs/acre
20. Main Golden Gate Canal Basin	0.04 cfs/acre
21. Palm River Canal Basin	0.13 cfs/acre
22. Pine Ridge Canal Basin	0.13 cfs/acre

Collier County Restricted Basin Discharge Rate Map

Legend

Allowable Discharge Rates

- 9CN, 951 Canal North Basin, 0.11 (cfs/ac)
- ARN, Airport Road North Canal Basin, 0.04 (cfs/ac)
- ARS, Airport Road South Canal Basin, 0.06 (cfs/ac)
- C4C, C-4 Canal Basin, 0.11 (cfs/ac)
- CCB, Corkscrew Canal Basin, 0.04 (cfs/ac)
- CRB, Cocohatchee River Canal Basin, 0.04 (cfs/ac)
- CYC, Cypress Canal Basin, 0.06 (cfs/ac)
- D1C, Harvey Canal Basin, 0.06 (cfs/ac)
- D2C, I-75 Canal Basin, 0.06 (cfs/ac)
- FKC-N, Faka-Union Canal Basin-N, 0.09 (cfs/ac)
- GRE, Gordon River Extension Basin, 0.09 (cfs/ac)
- HBM-N, Henderson Creek - Belle Meade Basin North, 0.06 (cfs/ac)
- HBM-S, Henderson Creek - Belle Meade Basin South, 0.06 (cfs/ac)
- IDO, Imperial Drainage Outlet Basin, 0.12 (cfs/ac)
- LCB, Lely Canal Basin, 0.06 (cfs/ac)
- LMB, Lely Manor Canal Basin, 0.06 (cfs/ac)
- MGG, Main Golden Gate Canal Basin, 0.04 (cfs/ac)
- PLM, Palm River Canal Basin, 0.13 (cfs/ac)
- PRC, Pine Ridge Canal Basin, 0.13 (cfs/ac)
- UIB-E, Urban Immokalee Basin East, 0.05 (cfs/ac)
- UIB-W, Urban Immokalee Basin West, 0.10 (cfs/ac)
- WBB, Wiggins Bay Outlet Basin, 0.13 (cfs/ac)
- All Other Basins (0.15 cfs/ac)

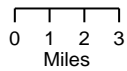
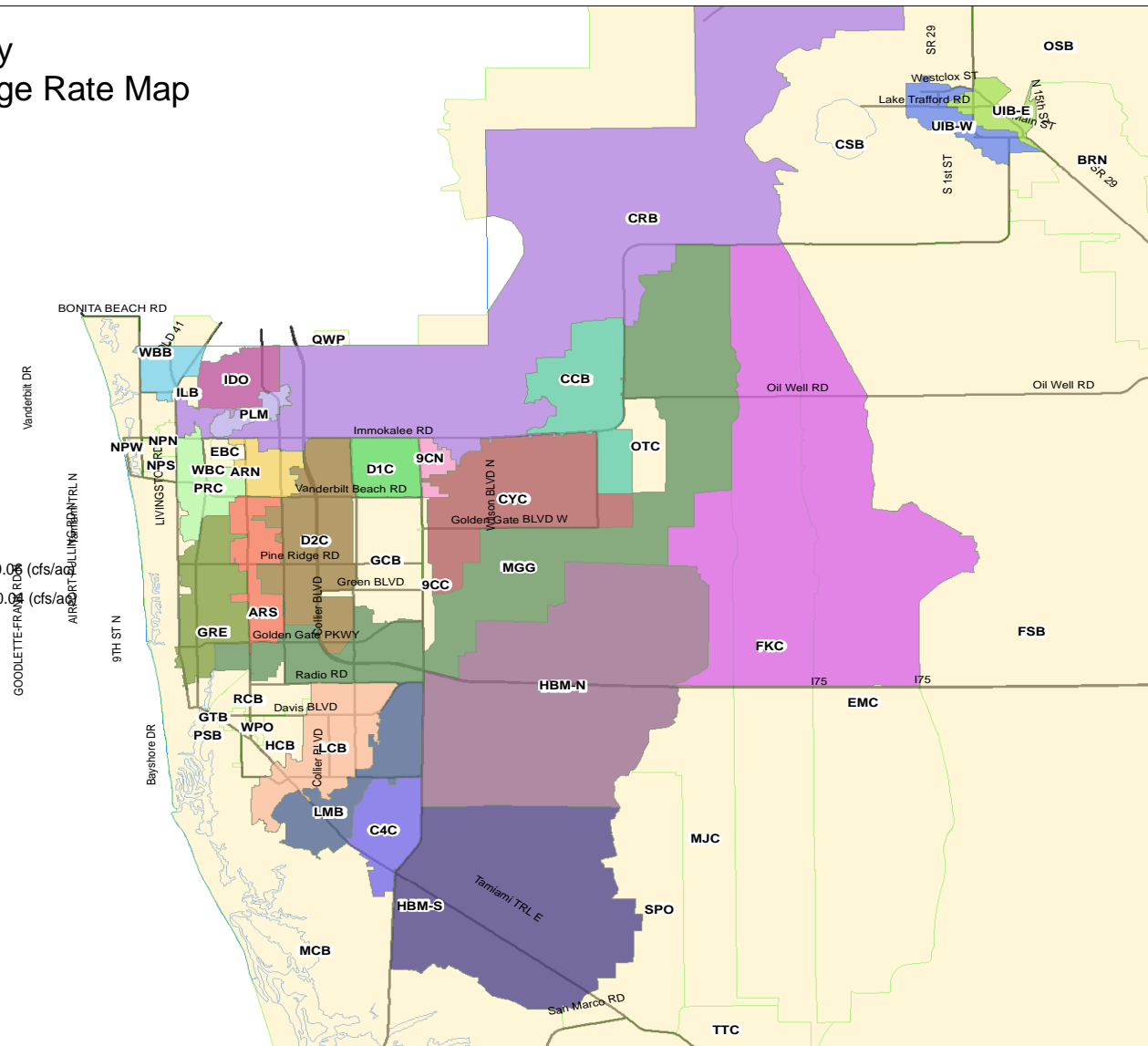


Figure 5: Collier County Basins with Restricted Allowable Discharge Rates Map

Table 5: Collier County Basins

	Basin ID	Name	Area (Acres)
1	9CC	951 Canal Central Basin	835
2	9CN	951 Canal North Basin**	828
3	ARN	Airport Road North Canal Basin **	1,717
4	ARS	Airport Road South Canal Basin **	3,124
5	BRC	Barron River Basin	27,635
6	BRN	Barron River Canal Basin (North)	16,873
7	C4C	C-4 Canal Basin**	3,582
8	CCB	Corkscrew Canal Basin**	6,466
9	CSB	Corkscrew Slough Basin	28,016
10	CSB	Cocohatchee River Canal Basin **	90,389
11	CYC	Cypress Canal Basin**	10,885
12	D1C	Harvey Canal Basin **	2,478
13	D2C	I-75 Canal Basin**	8,489
14	EBC	East Branch Cocohatchee	382
15	EMC	Merritt Canal Basin	43,772
16	FKC	Faka-Union Canal Basin**	35,581
18	FSB	Fakahatchee Strand Basin	146,611
19	GCB	Green Canal Basin	5,082
20	GHS	Gator Hook Strand Basin	262,969
21	GRE	Gordon River Extension Basin**	5,064
22	GTB	Gateway Triangle Basin	273
23	HCB	Haldeman Creek Basin	1,830
24	HBM-N	Henderson Creek – Belle Meade Basin North**	31,134
25	HBM-S	Henderson Creek – Belle Meade Basin South**	24,395
26	IDO	Imperial Drainage Outlet Basin**	2,528
27	ILB	Imperial West Landmark FPL Basin	275
28	L28	L-28 Tieback Basin	118,960
29	LCB	Lely Canal Basin **	5,853
30	LMB	Lely Manor Canal Basin**	5,306
31	MCB	Miscellaneous Coastal Basins	189,172
32	MGG	Main Golden Gate Canal Basin**	29,376
33	MJC	Miller Canal Basin	16,086
34	NPN	Naples Park North Basin	429
35	NPS	Naples Park South Basin	352
36	NPW	Naples Park West Basin	279
37	OSB	Okaloacoochee Slough Basin	146,766
38	OTC	Orange Tree Canal Basin	2,029
39	PLM	Palm River Canal Basin**	982
40	PRC	Pine Ridge Canal Basin**	2,659
41	PSB	Palm Street Basin	65
42	QWP	Quail West Phase II	319
43	RCB	Rock Creek Basin	1,884
44	SPO	Seminole Park Outlet Basin	10,752
45	TRB	Turner River Canal Basin	316,480
46	TTC	Tamiami Trail Canal Basin	4,611
47	UIB-E	Urban Immokalee Basin East**	1,691
48	UIB-W	Urban Immokalee Basin West**	2,459
49	WBB	Wiggins Bay Outlet Basin **	2,308
50	WBC	West Branch Cocohatchee River Basin	249
51	WPO	Winter Park Outlet Basin	173

** Basins with restricted discharge rates

EXHIBIT "A"
 COLLIER COUNTY SCHEDULE OF CAPITAL IMPROVEMENTS
 FISCAL YEARS 2018-2022

STORMWATER MANAGEMENT SYSTEM PROJECTS								
		CAPITAL IMPROVEMENTS	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT
PROJECT No.	PROJECT	SCHEDULE NOTES	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	TOTAL
	Countywide Programs, Planning & Maintenance		\$ 550,000	\$ 750,000	\$ 800,000	\$ 850,000	\$ 850,000	\$ 3,800,000
	Infrastructure & Capacity Projects		\$ 7,075,000	\$ 8,850,000	\$ 9,100,000	\$ 9,700,000	\$ 11,700,000	\$ 46,425,000
	STORMWATER MANAGEMENT SYSTEM PROJECT TOTALS		\$ 7,625,000	\$ 9,600,000	\$ 9,900,000	\$ 10,550,000	\$ 12,550,000	\$ 50,225,000
	Debt Service/Reserves		\$ -	\$ 35,000	\$ 35,000	\$ 35,000	\$ 35,000	\$ 140,000
	STORMWATER MANAGEMENT SYSTEM TOTAL PROGRAM COSTS		\$ 7,625,000	\$ 9,635,000	\$ 9,935,000	\$ 10,585,000	\$ 12,585,000	\$ 50,365,000

REVENUE KEY - REVENUE SOURCE	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	TOTAL
GR - Grants / Reimbursements	\$ 1,550,000	\$ -	\$ -	\$ -	\$ -	\$ 1,550,000
BP/RESTORE Act			\$ 500,000	\$ 1,000,000	\$ 1,000,000	\$ 2,500,000
Transfer from Naples Park Debt Svc	\$ 12,000					\$ 12,000
CF - Available Cash for Future Projects / Payment of Debt Service	\$ 102,000	\$ -	\$ -	\$ -	\$ -	\$ 102,000
RR - Revenue Reduction (less 5% required by law)	\$ (4,000)	\$ (2,000)	\$ (2,000)	\$ (2,000)	\$ (2,000)	\$ (12,000)
IN - Interest Revenue - Misc.	\$ 70,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 270,000
GF - General Fund (001)	\$ 1,627,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 9,627,000
GF - General Fund (111)	\$ 4,268,000	\$ 4,268,000	\$ 4,268,000	\$ 4,268,000	\$ 4,268,000	\$ 21,340,000
REVENUE TOTAL	\$ 7,625,000	\$ 6,316,000	\$ 6,816,000	\$ 7,316,000	\$ 7,316,000	\$ 35,389,000

APPENDIX H
 FUTURE COSTS AND REVENUES BY TYPE OF PUBLIC FACILITY
 FISCAL YEARS 2023-2027

STORMWATER MANAGEMENT SYSTEM PROJECTS									
			CAPITAL IMPROVEMENTS	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT
PROJECT No.	PROJECT	SCHEDULE NOTES	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	TOTAL	
	Stormwater Management System Projects		\$ 12,550,000	\$ 12,550,000	\$ 12,550,000	\$ 12,550,000	\$ 12,550,000	\$ 62,750,000	
	Reserves		\$ 35,000	\$ 35,000	\$ 35,000	\$ 35,000	\$ 35,000	\$ 175,000	
STORMWATER MANAGEMENT SYSTEM PROJECT TOTALS			\$ 12,585,000	\$ 12,585,000	\$ 12,585,000	\$ 12,585,000	\$ 12,585,000	\$ 62,925,000	

REVENUE KEY - REVENUE SOURCE	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	TOTAL
GR - Grants / Reimbursements	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CF - Available Cash for Future Projects / Payment of Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CRA - Community Redevelopment Area / Municipal Service Taxing Unit	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
GF - General Fund	\$ 12,585,000.00	\$ 12,585,000.00	\$ 12,585,000	\$ 12,585,000	\$ 12,585,000	\$ 62,925,000
REVENUE TOTAL	\$ 12,585,000.00	\$ 12,585,000.00	\$ 12,585,000	\$ 12,585,000	\$ 12,585,000	\$ 62,925,000

COUNTY WATER - SEWER DISTRICT – POTABLE WATER SYSTEM

CONTENTS

- **DISTRICT POTABLE WATER SYSTEM FACILITIES – SUMMARY**
- **INTRODUCTION**
- **TREATMENT FACILITIES LEVEL OF SERVICE STANDARD (LOSS) ASSESSMENT FOR SERVICE AREA**
- **TREATMENT FACILITIES LEVEL OF SERVICE STANDARD (LOSS) FOR SERVICE AREA – CHART**
- **EXISTING AND FUTURE WATER SERVICE AREAS – MAP**
- **POTABLE WATER SYSTEM SCHEDULES OF CAPITAL IMPROVEMENTS**

2017 AUIR FACILITY SUMMARY
POTABLE WATER SYSTEM FACILITIES

Facility Type: Collier County Water-Sewer District – Potable Water System Facilities

Level of Service Standard: 150 gallons per capita day (gpcd) ⁽¹⁾

Capacity:

Total Permitted Treatment Capacity, FY 18	52.75 MGD
Total Operational Treatment Capacity, FY 18	48.75 MGD
Required Treatment Capacity, FY 18	37.36 MGD
Total Permitted Treatment Capacity, FY 27	52.75 MGD
Total Operational Treatment Capacity, FY 27	up to 56.75 MGD
Required Treatment Capacity, FY 27	48.25 MGD

Expenditures FY18-FY22 ⁽²⁾

Debt Service	\$42,550,000
Expansion Related Projects - Other	\$72,000,000
Replacement & Rehabilitation Projects - Other	\$111,045,000
Departmental Capital	\$3,491,000
Reserve for Contingencies - Replacement & Rehabilitation Projects	<u>\$11,105,000</u>
TOTAL	<u>\$240,191,000</u>

Existing Revenue Sources FY18-FY22

Water System Development Fees / Impact Fees	\$36,500,000
Bonds	\$58,000,000
State Revolving Fund Loans	\$14,000,000
Water Capital Account	\$3,491,000
Rate Revenue	<u>\$128,200,000</u>
TOTAL	<u>\$240,191,000</u>

Surplus or (Deficit) for Five Year Program \$0

Recommended Action:

That the BCC find the Collier County Water-Sewer District Potable Water System in compliance with concurrency requirements found in FS Section 163, the Collier County Comprehensive Plan and the Land Development Code; and that it approve the proposed 2017 CCWSD Potable Water System Facilities AUIR and adopt the CIE update for FY 2017/18 - FY 2021/22.

Conclusion:

To ensure adequate treatment capacity for growth within the jurisdictional boundary of the Collier County Water-Sewer District, expansion related projects should commence in FY 2020 based on the Level of Service Standard, population projections and capacity as shown in the AUIR.

(1) Per the 2014 Water, Wastewater, Irrigation Quality Water and Bulk Potable Water Master/CIP Plan (reference 2015 AUIR, Appendix III).

(2) CIE consistent with Board approved: FY18 budget

(3) As per Florida Statutes Section 129.01(c), contingency reserves are up to 10% of expenses

Collier County Government
Public Utilities Department
2017 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

POTABLE WATER SYSTEM - TREATMENT FACILITIES

Introduction:

The Public Utilities Department's proposed 2017 CCWSD Potable Water System Treatment Facilities AUIR is based on peak season population estimates and projections for the CCWSD's potable water service area prepared by the Collier County Comprehensive Planning Section on July 17, 2017. Populations are based on using the Bureau of Economic and Business Research (BEBR) Medium Range growth rate through 2027. Below are notes and long-range planning comments:

- A. Concurrency is shown for 10 years for the current service area. This conforms with the State mandated CIE, concurrency regulations, and other Collier County Departments' AUIR submittals.
- B. The Orange Tree Service Area was integrated into the CCWSD on March 1, 2017. Acquisition of Golden Gate City Utilities from the Florida Governmental Utility Authority is anticipated in early FY 2018.
- C. To serve the current potable water service area, shown in blue in the "Current and Future Water Service Areas" map, up to 4 MGD new treatment capacity will be needed starting in FY 2023. This will be achieved through phased construction of the Northeast Utility Facilities (NEUF), which will also serve additional areas outside of the current potable water service area per note D below.
- D. The new regional water treatment plant within the NEUF will support proposed developments in the northeast region. The population, demand, and treatment capacity projections for these future developments are not included in this AUIR cycle since potential service agreements have yet to be completed. The NEUF are sited on 147 acres of County owned land at the east end of 39th Ave NE. 100% design documents were completed in 2010. The NEUF program has been reactivated, starting with updating the design criteria (FY 2017) and modifying the design plans to conform with current technologies (FY 2018). To facilitate reactivation, site work is planned to begin in FY 2018.

Project reactivation is in anticipation of the quantity of large developments going through different stages of the Growth Management Department review process. The need for readiness is also supported by the "Collier County Water-Sewer District System Utilization and Diminishing Capacity Report" (the "Checkbook") which compares available treatment capacity to the quantity of Board-approved planned unit developments (PUDs). Currently, the Checkbook reports that if all active Board-approved PUDs within the current service area were to be constructed, there would be a 1% deficit in potable water treatment capacity in the regional system.

The 2017 Potable Water System AUIR is presented as a snapshot of concurrency conditions. The CCWSD is in compliance with concurrency requirements for FY 2018 and FY 2019, as required by FS Section 163, the Collier County Comprehensive Plan and the Land Development Code.

Recommendation:

The Public Utilities Department's staff recommends that the Collier County Board of County Commissioners approve the 2017 CCWSD Potable Water System Treatment Facilities AUIR.

Collier County Government
Public Utilities Department
2017 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

**POTABLE WATER SYSTEM - TREATMENT FACILITIES
LEVEL OF SERVICE STANDARDS (LOSS) ASSESSMENT FOR SERVICE AREA**

9/1/2017

1	2	3	4	5	6	7	8
Fiscal Year	Permanent Population Served on Oct. 1	Required Treatment Capacity at M3DD MGD	New Treatment Capacity MGD	Total Permitted Treatment Capacity MGD	Total Operational Treatment Capacity MGD	Retained Operational Treatment Capacity MGD	Percent of Total Permitted Capacity at MDD MGD
2013	159,862	31.2		52.00	48.00	16.8	62%
2014	162,673	31.7		52.00	48.00	16.3	63%
2015	168,994	33.0		52.00	48.00	15.0	66%
2016	176,475	34.4		52.00	48.00	13.6	69%
2017	181,003	35.3		52.00	48.00	12.7	70%
2018	191,610	37.4		52.75	48.75	11.4	74%
2019	208,750	40.7		52.75	48.75	8.0	80%
2020	214,033	41.7		52.75	48.75	7.0	82%
2021	218,937	42.7		52.75	48.75	6.1	84%
2022	223,883	43.7		52.75	48.75	5.1	86%
2023	228,898	44.6	up to 4.00	56.75	52.75	8.1	82%
2024	233,985	45.6		56.75	52.75	7.1	83%
2025	238,724	46.6		56.75	52.75	6.2	85%
2026	243,068	47.4		56.75	52.75	5.4	87%
2027	247,425	48.2		56.75	52.75	4.5	88%

Collier County Government
Public Utilities Department
2017 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

**POTABLE WATER SYSTEM - TREATMENT FACILITIES
LEVEL OF SERVICE STANDARDS (LOSS) ASSESSMENT FOR SERVICE AREA**

9/1/2017

Notes: (References are to the column numbers on previous page)

1. Fiscal Year starts October 1 and ends September 30.
2. Permanent Population Served on Oct. 1. Estimates and projections for the served area were prepared by the Collier County Comprehensive Planning Section on July 17, 2017. Populations are based on the Bureau of Economic and Business Research (BEBR) Medium Range growth rate applied through 2027. Permanent population is used in accordance with the Board adopted 2014 Water, Wastewater, Irrigation Quality Water and Bulk Potable Water Master/CIP Plan.

The population projections include the Orange Tree service area beginning in FY 2018 and the Golden Gate City service area (4 square miles) beginning in FY 2019 based on actual and anticipated acquisition dates during FY 2017 and FY 2018 respectively. The Florida Governmental Utility Authority (FGUA) presently supplies potable water to a population of approximately 12,404 in Golden Gate City. Based on the implementation plan outlined in the Board adopted "Technical Feasibility Study for Acquisition of FGUA Water and Wastewater Assets in Golden Gate," Phase 2 will increase the population served to 21,285 within 10 years.

3. Required Treatment Capacity at M3DD is obtained by multiplying the Permanent Population Served on Oct. 1 by 150 gallons per capita per day (gpcd) and by a maximum 3-day daily demand (M3DD) peaking factor of 1.3 and is expressed in million gallons per day (MGD). 150 gpcd is the established Level of Service Standard (LOSS) for the Potable Water Service Area, as adopted in the 2015 CCWSD Potable Water System AUIR, approved by the Board of County Commissioners on November 10, 2015, based on the Board adopted 2014 Water, Wastewater, Irrigation Quality Water and Bulk Potable Water Master/CIP Plan, which utilizes a M3DD basis for capacity analysis. Required Treatment Capacity at M3DD is plotted in the chart on the next page.
4. New Treatment Capacity is the additional treatment capacity in million gallons per day (MGD) placed into service by the start of the fiscal year through plant construction/expansion. Timing and capacity are tentative and may be adjusted with updates in development forecasts and adoption of developer agreements:

Fiscal Year	New Treatment Capacity	Comments
2018 to 2023	up to 4 MGD	Within Current Service Area: Design and permitting updates for additional potable water treatment capacity at the NEUF should start in FY 2018, to be online in FY 2023, as follows: a. Update design criteria, \$86,312, starting October 2017. b. Update construction drawings and bid package, \$500,000 - \$1,000,000 estimate, FY 2018-19. c. Construct site work, \$4,000,000 estimate, FY 2018-19. d. Construct potable water utility facilities, \$52,000,000 estimate, FY 2020-23. e. Construction Engineering & Inspection, \$5,600,000 estimate, FY 2018-23.
2020 to 2025	up to 4 MGD*	Outside Current Service Area: Additional water treatment capacity anticipated to support proposed developments (subject to Board approval) in the northeast area of the jurisdictional boundary of the Collier County Water-Sewer District, as established by special act (Chapter 2003-353, Laws of Florida)), as follows: a. Sub-regional transitional capacity, \$4,000,000 estimate, FY 2020-25.

*Not shown in Column 4.

Collier County Government
Public Utilities Department
2017 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

**POTABLE WATER SYSTEM - TREATMENT FACILITIES
LEVEL OF SERVICE STANDARDS (LOSS) ASSESSMENT FOR SERVICE AREA**

9/1/2017

5. Total Permitted Treatment Capacity is the total permitted finished water treatment capacity at the beginning of the fiscal year in million gallons per day (MGD), including New Treatment Capacity.

Capacity in FY 2018 increased by 0.75 MGD (as currently sited) because Orange Tree Utilities was integrated into the CCWSD during FY 2017.

Acquisition of the Golden Gate City Utility from the Florida Governmental Utility Authority is anticipated during the early part of FY 2018. Existing Golden Gate City Utility potable water facilities include a 2.1 MGD water treatment plant; however, no additional capacity is stated because this area will be served by the nearby CCWSD regional potable water system. Unused Golden Gate City Utility assets will be repurposed and/or decommissioned, depending on condition.

Twin Eagles potable water services transitioned from the Northeast Sub-Regional Water Treatment Plant (formerly the Orange Tree Utility Company) to the CCWSD Regional potable water system in October 2017. The corresponding capacity becomes available at the Northeast Sub-Regional Water Treatment Plant to serve the northeast region.

6. Total Operational Treatment Capacity is the Total Permitted Treatment Capacity less 4 MGD, the treatment capacity of a lime softening reactor/clarifier, which could be out of service during a period of peak demand, as plotted in the chart on the next page.

In accordance with the Board adopted 2014 Water, Wastewater, Irrigation Quality Water and Bulk Potable Water Master/CIP Plan, Total Operational Treatment Capacity must be sufficient for the M3DD.

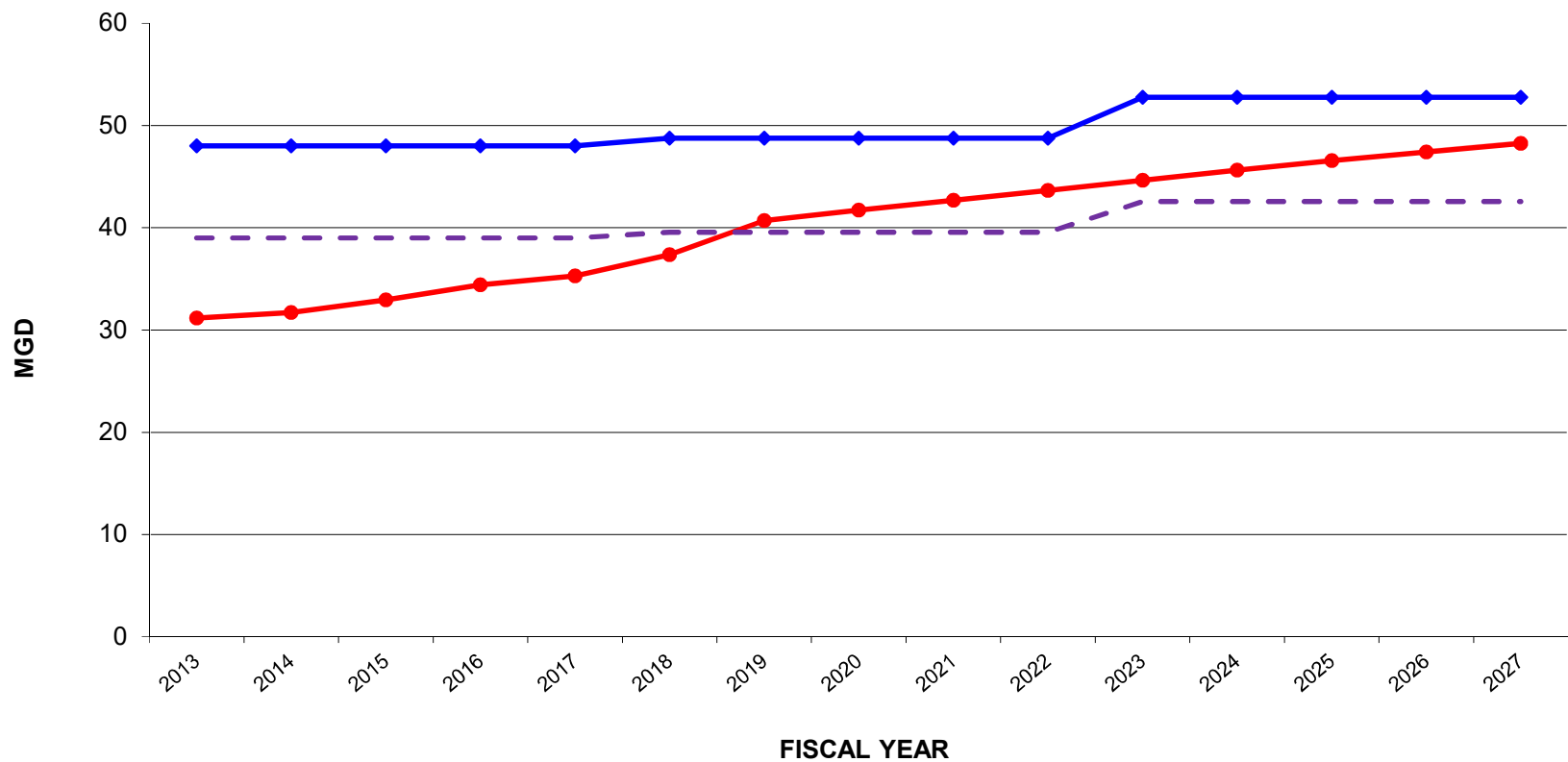
7. Retained Operational Treatment Capacity is the Total Operational Treatment Capacity minus the Required Treatment Capacity at M3DD.

8. Percent of Total Permitted Capacity at MDD per FAC 62-555.348 is the Maximum Daily Demand (MDD) as a percentage of Total Permitted Treatment Capacity. Per FAC 62-555.348, source/treatment/storage capacity analysis reporting to the Department of Environmental Protection (DEP) is triggered once MDD exceeds 75% of Total Permitted Treatment Capacity, as plotted in the chart on the next page.

Collier County Government
Public Utilities Department
2017 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

POTABLE WATER SERVICE AREA
Level of Service Standard: 150 GPCD

9/1/2017

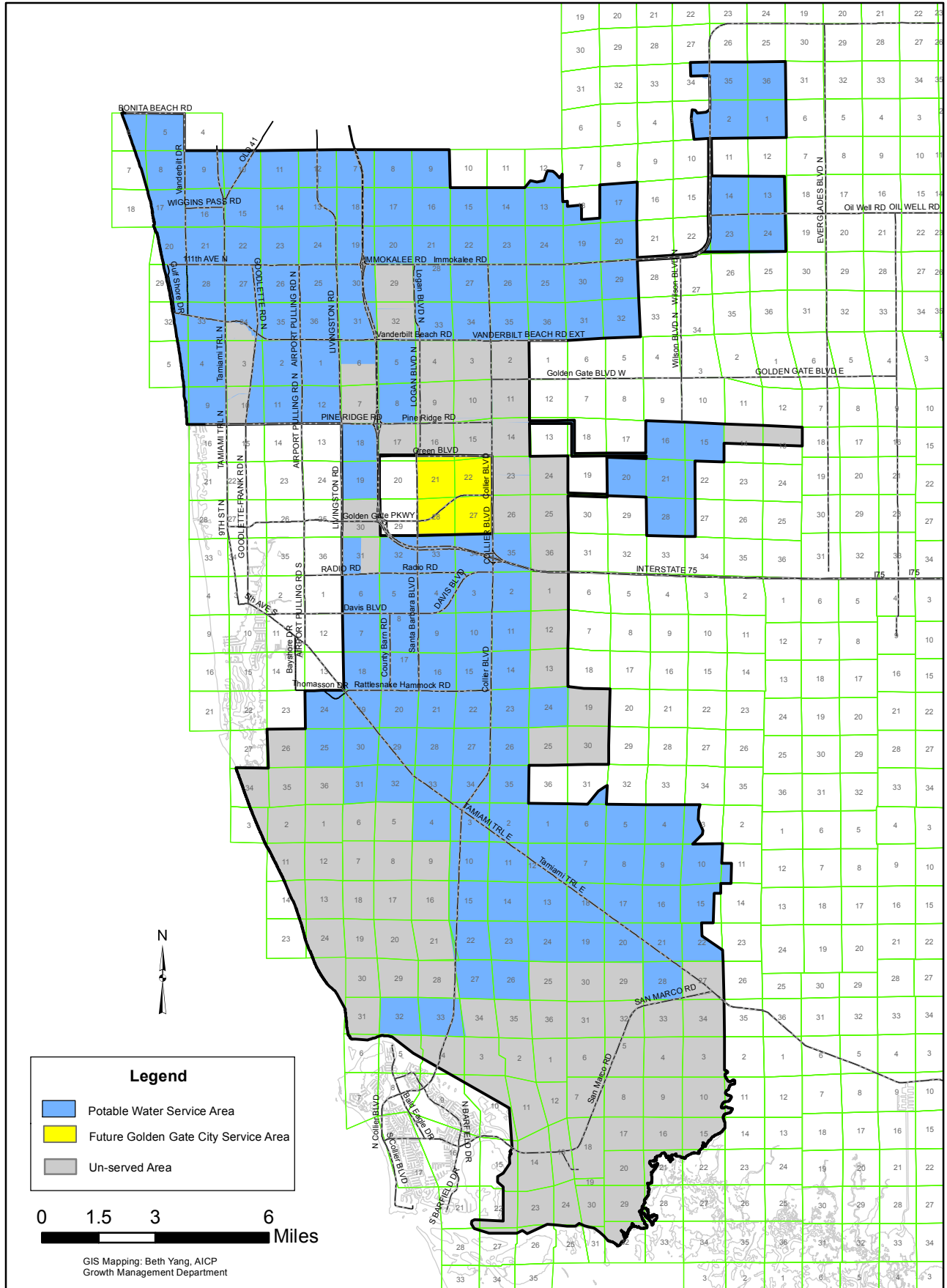


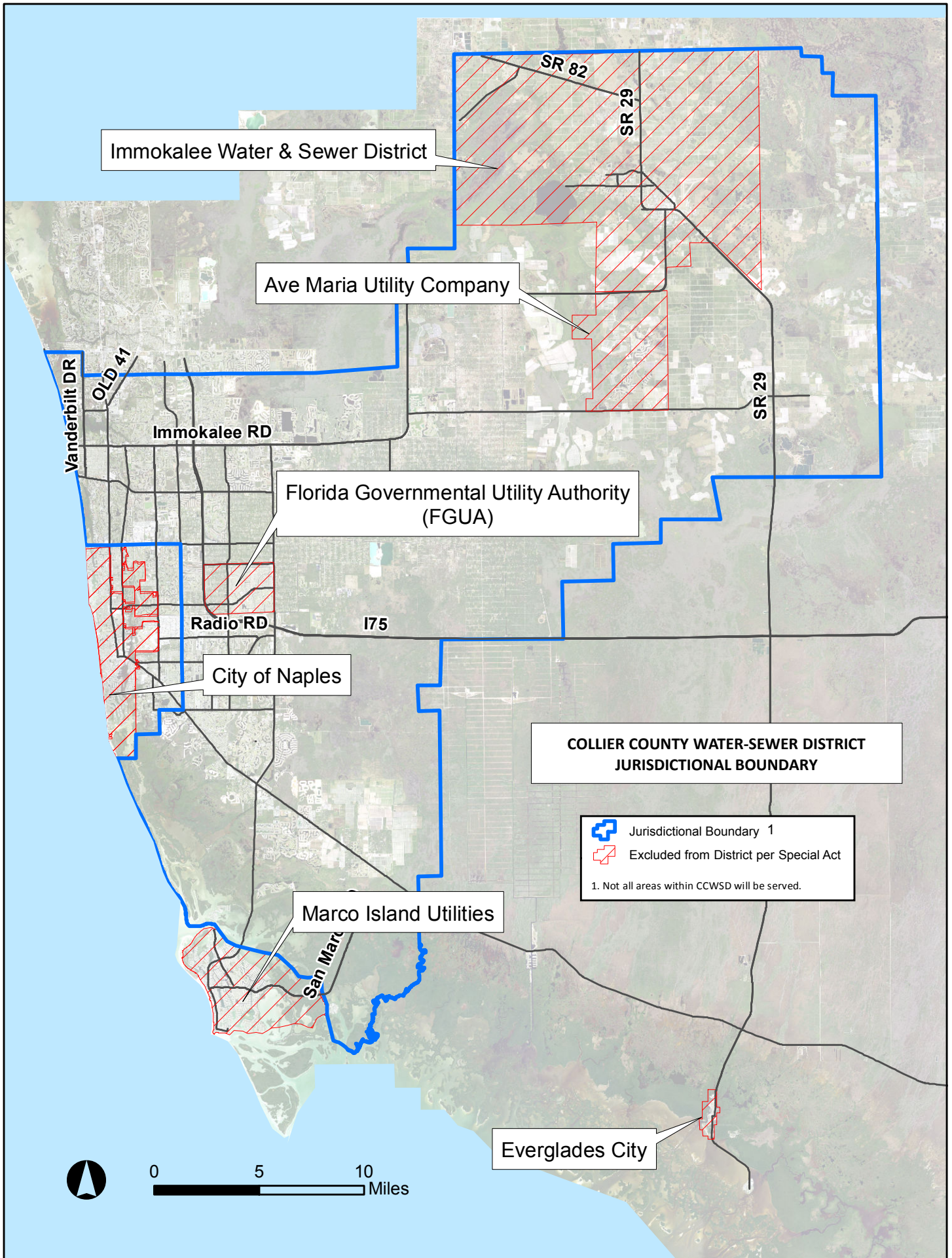
◆ Total Operational Treatment Capacity

● Required Treatment Capacity at M3DD

- - - 75% of Total Permitted Treatment Capacity per FAC 62-555.348

Current and Future Water Service Areas (2017 AUIR)





Immokalee Water & Sewer District

Ave Maria Utility Company



Florida Governmental Utility Authority (FGUA)

City of Naples

Marco Island Utilities

Everglades City

COLLIER COUNTY WATER-SEWER DISTRICT JURISDICTIONAL BOUNDARY

 Jurisdictional Boundary 1
 Excluded from District per Special Act
 1. Not all areas within CCWSD will be served.



COLLIER COUNTY WATER - SEWER DISTRICT SYSTEM UTILIZATION AND DIMINISHING CAPACITY REPORT ("CHECKBOOK")

WATER AND WASTEWATER
DATA: Current as of August 17, 2017

All amounts in Million Gallons per Day (MGD)

CURRENT AVAILABLE CAPACITY (BASED ON HISTORICAL FLOW)

- 1a. Existing Permitted Plant Capacity
- 1b. Existing Operational Plant Capacity (based on 2014 master plan)

- 2a. Highest 3-Day Consecutive Peak Demand ^[2]
- 2b. Highest Month Average Demand ^[3]

- 3a. Current Available Diminishing Capacity Based on 3-Day Peak (Line 1 - Line 2a)
- 3b. Current Available Diminishing Capacity Based on Highest Month Avg. (Line 1 - Line 2b)

WATER	WASTEWATER ^[1]	
	REGIONAL	NORTH
52.000	24.100	16.000
48.000	24.100	16.000
33.963	14.625	17.313
31.877	11.831	9.944
14.037	9.475	(1.313)
16.123	12.269	6.056

CURRENT AVAILABILITY WITHOUT FUTURE COMMITMENTS

- 4a. **SYSTEM AVAILABILITY BASED ON 3-DAY PEAK** (Line 3a / Line 1)
- 4b. **SYSTEM AVAILABILITY BASED ON HIGHEST MONTH AVG.** (Line 3b / Line 1)

29%	39%	-8%
34%	51%	38%

BCC-APPROVED, ACTIVE PUD COMMITMENTS (NOT INSTALLED) ^[4]

- 5. Total BCC-approved Active PUD commitments to date (per GMD PUD Master List) ^[5]

- 6a. Highest 3-Day Peak Demand Plus Active PUD Commitments to Date (Line 2a + Line 5)
- 6b. Highest Month Avg. Demand Plus Active PUD Commitments to Date (Line 2b + Line 5)

- 6c. Available Capacity Based on 3-Day Peak (Line 3a - Line 5)
- 6d. Available Capacity Based on Highest Month Average (Line 3b - Line 5)
- 6e. **SYSTEM AVAILABILITY BASED ON 3-DAY PEAK** (Line 6c / Line 1)
- 6f. **SYSTEM AVAILABILITY BASED ON HIGH MONTH AVG.** (Line 6d / Line 1)

14.493	5.012	5.877
48.456	19.637	23.190
46.370	16.843	15.821
(0.456)	4.463	(7.190)
1.630	7.257	0.179
-1%	19%	-45%
3%	30%	1%

FUTURE PLANT CAPACITY

- 7. Expansions Within Next 12 Months ^[6]

- 8a. Future Available Capacity After Expansions Based on 3-Day Peak (Line 6c + Line 7)
- 8b. Future Available Capacity After Expansions Based on Highest Month Avg (Line 6d + Line 7)

0.000	0.000	0.000
(0.456)	4.463	(7.190)
1.630	7.257	0.179

FORECAST - WITH FUTURE COMMITMENTS AND EXPANSIONS

- 11a. **SYSTEM AVAILABILITY BASED ON 3-DAY PEAK** (Line 8a / Line 1)
- 11b. **SYSTEM AVAILABILITY BASED ON HIGH MONTH AVG.** (Line 8b / Line 1)

-1%	19%	-45%
3%	30%	1%

FOOTNOTES/QUALIFIERS:

- [1] Wastewater North and South shown separately because of the finite capacity of the interconnect.
- [2] Line 2a: Mo-Yr of Highest 3-Day Consecutive Peak Demand since January 2003 =>
- [3] Line 2b: Mo-Yr of Highest Month Average Demand since January 2003 =>
- [4] Capacity requested by outstanding active BCC-approved PUD units as documented in the most current GMD PUD Master List. The outstanding PUD units are assumed to be developed before PUD closeout. Level of service for future commitments is defined by the FAC and the Master Plan.
- [5] Built-out, closed-out, inactive, and discontinued PUD's are not included in line 5; only active PUD's are included.
- [6] Planned Capacity Additions Scheduled to come online (according to the approved 2016 AUIR).

Apr-07	Jan-16	Sep-03
Apr-06	Feb-16	Jan-16

EXHIBIT "A"
COLLIER COUNTY SCHEDULE OF CAPITAL IMPROVEMENTS
 FISCAL YEARS 2018-2022

PUD

POTABLE WATER SYSTEM PROJECTS								
		CONSTRUCTION	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT
CIE #	PROJECT	SCHEDULE NOTES	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	TOTAL
	Debt Service		\$8,935,000	\$8,712,000	\$8,491,000	\$8,490,000	\$7,922,000	\$42,550,000
	Expansion Related Projects - Other		\$0	\$9,000,000	\$58,000,000	\$5,000,000	\$0	\$72,000,000
	Replacement & Rehabilitation Projects - Other		\$21,275,000	\$21,040,000	\$25,895,000	\$21,325,000	\$21,510,000	\$111,045,000
	Departmental Capital		\$671,000	\$684,000	\$698,000	\$712,000	\$726,000	\$3,491,000
	Reserve for Contingencies - Replacement & Rehabilitation Projects		\$2,128,000	\$2,104,000	\$2,589,500	\$2,132,500	\$2,151,000	\$11,105,000
	POTABLE WATER SYSTEM PROJECT TOTALS		\$33,009,000	\$41,540,000	\$95,673,500	\$37,659,500	\$32,309,000	\$240,191,000

REVENUE KEY - REVENUE SOURCE			FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	TOTAL
WIF - Water System Development Fees / Impact Fees			\$7,300,000	\$7,300,000	\$7,300,000	\$7,300,000	\$7,300,000	\$36,500,000
B1 - Bonds			\$0	\$0	\$58,000,000	\$0	\$0	\$58,000,000
SRF - State Revolving Fund Loans			\$0	\$9,000,000	\$0	\$5,000,000	\$0	\$14,000,000
WCA - Water Capital Account			\$671,000	\$684,000	\$698,000	\$712,000	\$726,000	\$3,491,000
REV - Rate Revenue			\$25,038,000	\$24,556,000	\$29,675,500	\$24,647,500	\$24,283,000	\$128,200,000
REVENUE TOTAL			\$33,009,000	\$41,540,000	\$95,673,500	\$37,659,500	\$32,309,000	\$240,191,000

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NOTE: Collier County has adopted a two-year Concurrency Management System. Figures provided for years three, four and five of this Schedule of Capital Improvements are not part of the Concurrency Management System but must be financially feasible with a dedicated revenue source or an alternative revenue source if the dedicated revenue source is not realized. Figures provided for years six through ten of the Schedule of Capital Improvements are estimates of revenues versus project costs but do not constitute a long term concurrency system.

DATA SOURCES:

• Expansion Related and Replacement & Rehabilitation Projects:

FY 2018 is obtained from the 2018 Proposed Budget.

• Department Capital:

FY 2018 is obtained from the 2018 Proposed Budget, split 50/50 between Water and Wastewater.

FY 2019 to FY 2027 is a 2% increase over each fiscal year from - FY 2019 through FY 2027 - (pursuant to CPI adjustments per Board policy).

• Debt Service:

FY 2018 - FY 2022 are obtained from the Collier County Water and Sewer District Financial Statements and Other Reports, Summary of Debt Service requirements to maturity. Total Debt Service amount is split 50/50 between Water and Wastewater.

• Reserve for Contingencies - Replacement and Rehabilitation Projects:

As per Florida Statutes, reserve for contingencies are up to 10% of expenses.

CIE consistent with Board approved: FY18 budget.

**APPENDIX H
FUTURE COSTS AND REVENUES BY TYPE OF PUBLIC FACILITY
FISCAL YEARS 2023-2027**

PUD

POTABLE WATER PROJECTS								
		CONSTRUCTION	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT
CIE #	PROJECT	SCHEDULE NOTES	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	TOTAL
	Expansion Related Projects - Generally		\$5,000,000	\$0	\$5,000,000	\$0	\$5,000,000	\$15,000,000
	Replacement & Rehabilitation Projects - Generally		\$21,980,000	\$22,375,000	\$17,755,000	\$17,815,000	\$23,495,000	\$103,420,000
	Debt Service		\$5,602,000	\$5,602,000	\$5,318,000	\$4,541,000	\$3,720,000	\$24,783,000
	Departmental Capital		\$741,000	\$756,000	\$771,000	\$786,000	\$802,000	\$3,856,000
	Reserve for Contingencies - Replacement & Rehabilitation Projects		\$2,198,000	\$2,238,000	\$1,776,000	\$1,782,000	\$2,350,000	\$10,344,000
	POTABLE WATER PROJECT TOTALS		\$35,521,000	\$30,971,000	\$30,620,000	\$24,924,000	\$35,367,000	\$157,403,000

REVENUE KEY - REVENUE SOURCE	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	TOTAL
REV - Rate Revenue	\$22,480,000	\$22,915,000	\$22,549,000	\$16,838,000	\$27,265,000	\$112,047,000
RR - Operating Reserve Revenues	\$0	\$0	\$0	\$0	\$0	\$0
B1 - Bonds	\$0	\$0	\$0	\$0	\$0	\$0
SRF - State Revolving Fund Loans	\$5,000,000	\$0	\$0	\$0	\$0	\$5,000,000
WCA - Water Capital Account	\$741,000	\$756,000	\$771,000	\$786,000	\$802,000	\$3,856,000
WIF - Water System Development Fees	\$7,300,000	\$7,300,000	\$7,300,000	\$7,300,000	\$7,300,000	\$36,500,000
REVENUE TOTAL	\$35,521,000	\$30,971,000	\$30,620,000	\$24,924,000	\$35,367,000	\$157,403,000

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NOTE: Collier County has adopted a two-year Concurrency Management System. Figures provided for years three, four and five of this Schedule of Capital Improvements are not part of the Concurrency Management System but must be financially feasible with a dedicated revenue source or an alternative revenue source if the dedicated revenue source is not realized. Figures provided for years six through ten of the Schedule of Capital Improvements are estimates of revenues versus project costs but do not constitute a long term concurrency system.

COUNTY WATER - SEWER DISTRICT – WASTEWATER TREATMENT SYSTEMS

CONTENTS

- **DISTRICT WASTEWATER TREATMENT SYSTEM FACILITIES – SUMMARY**
- **INTRODUCTION**
- **TREATMENT FACILITIES LEVEL OF SERVICE STANDARD (LOSS) ASSESSMENT FOR SOUTH COUNTY WATER RECLAMATION FACILITY (SCWRF) SERVICE AREA, CHART & TABLE**
- **TREATMENT FACILITIES LEVEL OF SERVICE STANDARD (LOSS) ASSESSMENT FOR NORTH COUNTY WATER RECLAMATION FACILITY (NCWRF) SERVICE AREA, CHART & TABLE**
- **EXISTING AND FUTURE WASTEWATER SERVICE AREA MAP**
- **WASTEWATER TREATMENT SYSTEM SCHEDULES OF CAPITAL IMPROVEMENTS**

2017 AUIR FACILITY SUMMARY
WASTEWATER TREATMENT SYSTEM FACILITIES

Facility Type: Collier County Water-Sewer District – Wastewater Treatment System

Level of Service Standard: 100 gallons per capita day (gpcd) ⁽¹⁾

Capacity: South Service Area (SCWRF)

Permitted/Operational Treatment Capacity, FY 18	16.00 MGD
Required Treatment Capacity, FY 18	14.71 MGD
Permitted/Operational Treatment Capacity, FY 27	16.00 MGD
Required Treatment Capacity, FY 27	16.00 MGD

Capacity: North Service Area (NCWRF) & Northeast Service Area (NEWRF)

Permitted/Operational Treatment Capacity, FY 18	24.85 MGD
Required Treatment Capacity, FY 18	17.46 MGD
Permitted/Operational Treatment Capacity, FY 27	up to 30.10 MGD
Required Treatment Capacity, FY 27	23.75 MGD

Expenditures FY18-FY22 ⁽²⁾

Debt Service	\$42,550,000
Expansion Related Projects - Other	\$51,000,000
Replacement & Rehabilitation Projects - Other	\$209,175,000
Departmental Capital	\$3,491,000
Reserve for Contingencies - Replacement & Rehabilitation Projects	<u>\$20,919,000</u>
TOTAL	\$327,135,000

Existing Revenue Sources FY18-FY22

Wastewater System Development Fees / Impact Fees	\$36,495,000
Bonds	\$43,000,000
State Revolving Fund Loans	\$8,000,000
Wastewater Capital Account - Transfers	\$3,491,000
Rate Revenue	<u>\$236,149,000</u>
TOTAL	\$327,135,000

Surplus or (Deficit) for Five Year Program \$0

Recommended Action:

That the BCC find the Collier County Water-Sewer District Wastewater Treatment System in compliance with concurrency requirements found in FS Section 163, the Collier County Comprehensive Plan and the Land Development Code; and that it approve the proposed 2017 CCWSD Wastewater Treatment Facilities AUIR and adopt the CIE Update for FY2017/18 - FY 2021/22.

Conclusion:

To ensure adequate treatment capacity for growth within the jurisdictional boundary of the Collier County Water-Sewer District, expansion related projects should commence in FY 2020 based on the Level of Service Standard, population projections and capacity as shown in the AUIR.

(1) Per the 2014 Water, Wastewater, Irrigation Quality Water and Bulk Potable Water Master/CIP Plan (reference 2015 AUIR, Appendix III).

(2) CIE consistent with Board approved: FY18 budget

(3) As per Florida Statutes Section 129.01(c), contingency reserves are up to 10% of expenses

Collier County Government
Public Utilities Department
2017 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

WASTEWATER SYSTEM - TREATMENT FACILITIES

Introduction:

The Public Utilities Department's proposed 2017 CCWSD Wastewater System Treatment Facilities AUIR is based on peak season population estimates and projections for the CCWSD's wastewater service areas prepared by the Collier County Comprehensive Planning Section on July 17, 2017. Populations are based on using the Bureau of Economic and Business Research (BEBR) Medium Range growth rate through 2027. Below are notes and long-range planning comments:

- A. Concurrency is shown for 10 years for the current service area. This conforms with the State mandated CIE, concurrency regulations, and other Collier County Departments' AUIR submittals.
- B. The Orange Tree Service Area was integrated into the CCWSD on March 1, 2017. Acquisition of Golden Gate City utilities from the Florida Governmental Utility Authority is anticipated in early FY 2018.
- C. To serve the current north and south wastewater service areas, shown in red and green in the Current and Future Wastewater Service Areas" map, up to 4 MGD new treatment capacity will be needed starting in FY 2023. This will be achieved through phased construction of the Northeast Utility Facilities (NEUF), which will also serve additional areas outside of the current northeast wastewater service area per note D below.
- D. The new regional water reclamation facility within the NEUF will support proposed developments in the northeast region. The population, flow, and treatment capacity projections for these future developments are not included in this AUIR cycle since potential service agreements have yet to be completed. The NEUF is sited on 147 acres of County owned land at the east end of 39th Ave NE. 100% design documents were completed in 2010. The NEUF program has been reactivated, starting with updating the design criteria (FY 2017) and modifying the design plans to conform with current technologies (FY 2018). To facilitate reactivation, site work is planned to begin in FY 2018.

Project reactivation is in anticipation of the quantity of large developments going through different stages of the Growth Management Department review process. The need for readiness is also supported by the "Collier County Water-Sewer District System Utilization and Diminishing Capacity Report" (the "Checkbook") which compares available treatment capacity to the quantity of Board-approved planned unit developments (PUDs). Currently, the Checkbook reports that if all active Board-approved PUDs were to be constructed, there would be 19% remaining capacity at the North County Water Reclamation Facility (NCWRF) while the South County Water Reclamation Facility (SCWRF) would have a 45% deficit.

The 2017 Wastewater System AUIR is presented as a snapshot of concurrency conditions. The CCWSD is in compliance with concurrency requirements for FY 2018 and FY 2019, as required by FS Section 163, the Collier County Comprehensive Plan, and the Land Development Code.

Recommendation:

The Public Utilities Department's staff recommends that the Collier County Board of County Commissioners approve the 2017 CCWSD Wastewater System Treatment Facilities AUIR.

Collier County Government
Public Utilities Department
2017 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

**WASTEWATER SYSTEM - TREATMENT FACILITIES
LEVEL OF SERVICE STANDARDS (LOSS) ASSESSMENT FOR
SOUTH COUNTY WATER RECLAMATION FACILITY (SCWRF) SERVICE AREA**

9/1/2017

1	2	3	4	5	6	7	8	9
Fiscal Year	Permanent Population Served on Oct. 1	Max. 3-Day Daily Flow (M3DF) MGD	New Treatment Capacity MGD	Permitted / Operational Treatment Capacity MGD	Retained Operational Treatment Capacity MGD	Max. 3-Day Daily Flow Diverted to NCWRF MGD	Required Treatment Capacity at SCWRF MGD	Percent of Permitted Capacity at MMDF MGD
2013	86,490	13.0		16.00	3.0		13.0	65%
2014	86,781	13.0		16.00	3.0		13.0	65%
2015	90,395	13.6		16.00	2.4		13.6	68%
2016	94,517	14.2		16.00	1.8		14.2	71%
2017	96,410	14.5		16.00	1.5		14.5	72%
2018	98,070	14.7		16.00	1.3		14.7	74%
2019	99,764	15.0		16.00	1.0		15.0	75%
2020	101,325	15.2		16.00	0.8		15.2	76%
2021	102,747	15.4		16.00	0.6		15.4	77%
2022	104,194	15.6		16.00	0.4		15.6	78%
2023	106,665	16.0		16.00	0.0		16.0	80%
2024	107,161	16.1		16.00		0.1	16.0	80%
2025	108,522	16.3		16.00		0.3	16.0	81%
2026	109,742	16.5		16.00		0.5	16.0	82%
2027	110,978	16.6		16.00		0.6	16.0	83%

Collier County Government
Public Utilities Department
2017 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

**WASTEWATER SYSTEM - TREATMENT FACILITIES
LEVEL OF SERVICE STANDARDS (LOSS) ASSESSMENT FOR
SOUTH COUNTY WATER RECLAMATION FACILITY (SCWRF) SERVICE AREA**

9/1/2017

Notes: (References are to the column numbers on previous page)

1. Fiscal Year starts October 1 and ends September 30.
2. Permanent Population Served on Oct. 1. Estimates and projections for the served area were prepared by the Collier County Comprehensive Planning Section on July 17, 2017. Populations are based on the Bureau of Economic and Business Research (BEBR) Medium Range growth rate applied through 2027. Permanent population is used in accordance with the Board adopted 2014 Water, Wastewater, Irrigation Quality Water and Bulk Potable Water Master/CIP Plan.
3. Max. 3-Day Daily Flow (M3DF) is obtained by multiplying the Permanent Population Served on Oct. 1 by 100 gallons per capita per day (gpcd) and by a maximum 3-day daily flow (M3DF) peaking factor of 1.5 and is expressed in million gallons per day (MGD). 100 gpcd is the established Level of Service Standard (LOSS) for the South Service Area, as adopted in the 2015 CCWSD Wastewater System AUIR, approved by the Board of County Commissioners on November 10, 2015, based on the 2014 Water, Wastewater, Irrigation Quality Water and Bulk Potable Water Master/CIP Plan, which utilizes a M3DF basis for capacity analysis.
4. New Treatment Capacity is the additional treatment capacity in million gallons per day (MGD) placed into service by the start of the fiscal year through plant construction/expansion, as follows:

Fiscal Year	New Treatment Capacity	Comments
NA	0	The SCWRF site is built-out.

5. Permitted / Operational Treatment Capacity is the permitted treatment capacity at the beginning of the fiscal year with no deduction for the largest unit being out of service given that the SCWRF is designed for Class I reliability. Permitted / Operational Treatment Capacity is plotted in the chart on the next page.

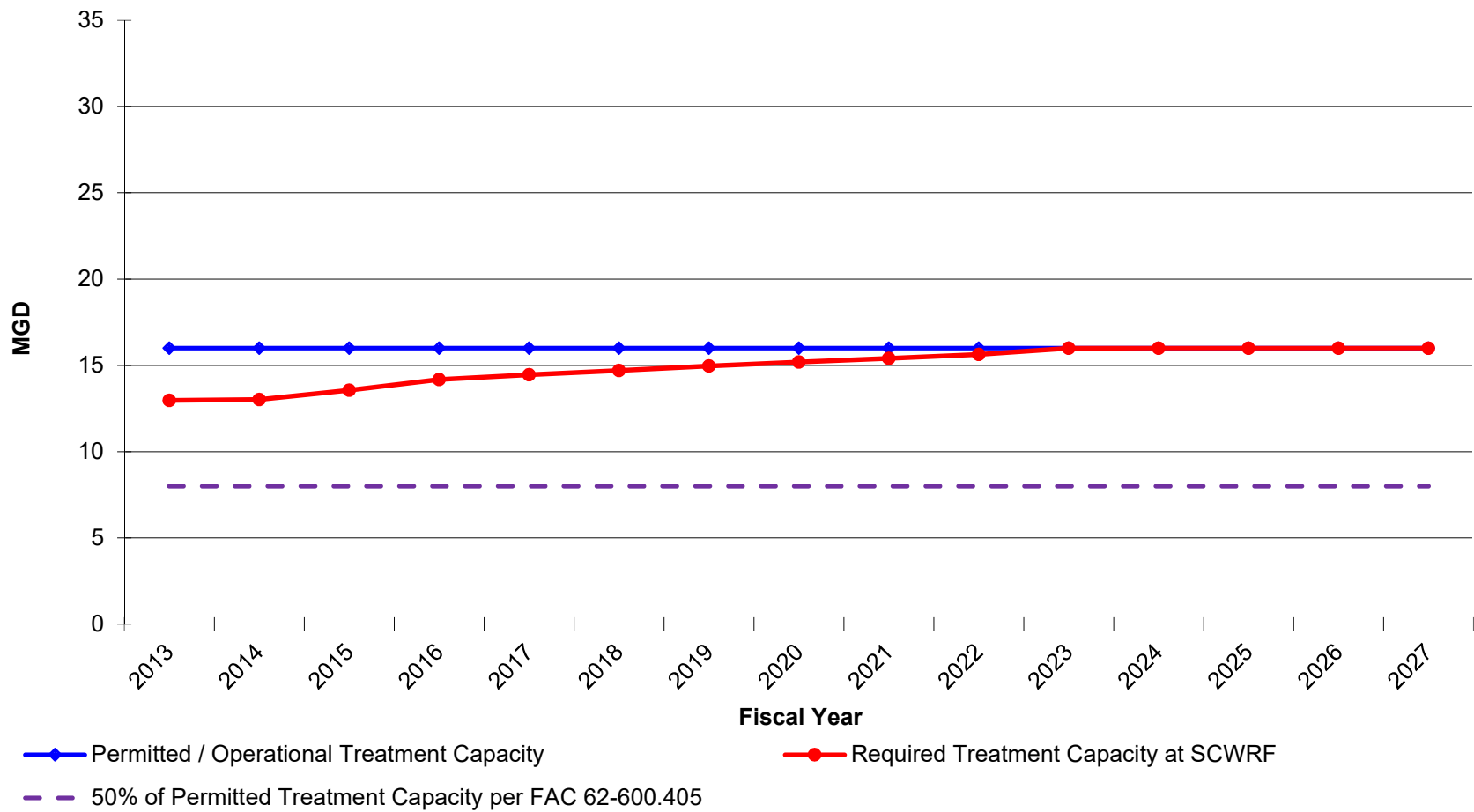
In accordance with the Board adopted 2014 Water, Wastewater, Irrigation Quality Water and Bulk Potable Water Master/CIP Plan, Total Operational Treatment Capacity must be sufficient for the M3DF.

6. Retained Operational Treatment Capacity is the Permitted / Operational Treatment Capacity minus the Max. 3-Day Daily Flow (M3DF). Any deficit in operational treatment capacity is countered by diverting flow to the NCWRF.
7. Max. 3-Day Daily Flow Diverted to NCWRF is the minimum M3DF flow to be diverted to the NCWRF to avoid exceeding the permitted capacity of the SCWRF.
8. Required Treatment Capacity at SCWRF is equal to the Max. 3-Day Daily Flow (M3DF) less the Max. 3-Day Daily Flow Diverted to NCWRF and is plotted in the chart on the next page.
9. Percent of Permitted Capacity at MMDF is the Maximum Month Daily Flow (MMDF) as a percentage of Permitted / Operational Treatment Capacity. Per FAC 62-600.405, capacity analysis reporting to the Department of Environmental Protection (DEP) is triggered once MMDF exceeds 50% of permitted capacity, as plotted in the chart on the next page.

Collier County Government
Public Utilities Department
2017 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

SOUTH COUNTY WATER RECLAMATION FACILITY (SCWRF) SERVICE AREA
Level of Service Standard: 100 gpcd

9/1/2017



Collier County Government
Public Utilities Department
2017 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

**WASTEWATER SYSTEM - TREATMENT FACILITIES
LEVEL OF SERVICE STANDARDS (LOSS) ASSESSMENT FOR
NORTH COUNTY WATER RECLAMATION FACILITY (NCWRF) SERVICE AREA**

9/1/2017

1	2	3	4	5	6	7	8	9
Fiscal Year	Permanent Population Served on Oct. 1	Max. 3-Day Daily Flow (M3DF) MGD	New Treatment Capacity MGD	Permitted / Operational Treatment Capacity MGD	Retained Operational Treatment Capacity MGD	Max. 3-Day Daily Flow Diverted to NCWRF MGD	Required Treatment Capacity at NCWRF MGD	Percent of Permitted Capacity at MMDF MGD
2013	96,549	14.5		24.10	9.6		14.5	48%
2014	98,136	14.7		24.10	9.4		14.7	49%
2015	100,947	15.1		24.10	9.0		15.1	50%
2016	104,444	15.7		24.10	8.4		15.7	52%
2017	107,245	16.1		24.10	8.0		16.1	53%
2018	116,421	17.5		24.85	7.4		17.5	56%
2019	132,099	19.8		26.10	6.3		19.8	61%
2020	136,148	20.4		26.10	5.7		20.4	63%
2021	137,937	20.7		26.10	5.4		20.7	63%
2022	140,747	21.1		26.10	5.0		21.1	65%
2023	143,605	21.5	up to 4.00	30.10	8.6		21.5	57%
2024	146,513	22.0		30.10	8.1	0.1	22.1	58%
2025	149,190	22.4		30.10	7.7	0.3	22.7	59%
2026	151,594	22.7		30.10	7.4	0.5	23.2	60%
2027	154,007	23.1		30.10	7.0	0.6	23.7	61%

Collier County Government
Public Utilities Department
2017 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

**WASTEWATER SYSTEM - TREATMENT FACILITIES
LEVEL OF SERVICE STANDARDS (LOSS) ASSESSMENT FOR
NORTH COUNTY WATER RECLAMATION FACILITY (NCWRF) SERVICE AREA**

9/1/2017

Notes: (References are to the column numbers on previous page)

1. Fiscal Year starts October 1 and ends September 30.
2. Permanent Population Served on Oct. 1. Estimates and projections for the served area were prepared by the Collier County Comprehensive Planning Section on July 17, 2017. Populations are based on the Bureau of Economic and Business Research (BEBR) Medium Range growth rate applied through 2027. Permanent population is used in accordance with the Board adopted 2014 Water, Wastewater, Irrigation Quality Water and Bulk Potable Water Master/CIP Plan.

The population projections include the Orange Tree service area beginning in FY 2018 and the Golden Gate City service area (4 square miles) beginning in FY 2019 based on actual and anticipated acquisition dates during FY 2017 and FY 2018 respectively. The Florida Governmental Utility Authority (FGUA) presently provides wastewater service to a population of approximately 12,404 in Golden Gate City. Based on the implementation plan outlined in the Board adopted "Technical Feasibility Study for Acquisition of FGUA Water and Wastewater Assets in Golden Gate," Phase 3 will increase the population served to 15,000 within 20 years.

3. Max. 3-Day Daily Flow (M3DF) is obtained by multiplying the Permanent Population Served on Oct. 1 by 100 gallons per capita per day (gpcd) and by a maximum 3-day daily flow (M3DF) peaking factor of 1.5 and is expressed in million gallons per day (MGD). 100 gpcd is the established Level of Service Standard (LOSS) for the North Service Area, as adopted in the 2015 CCWSD Wastewater System AUIR, approved by the Board of County Commissioners on November 10, 2015, based on the 2014 Water, Wastewater, Irrigation Quality Water and Bulk Potable Water Master/CIP Plan, which utilizes a M3DF basis for capacity analysis.
4. New Treatment Capacity is the additional treatment capacity in million gallons per day (MGD) placed into service by the start of the fiscal year through plant construction/expansion. Timing and capacity are tentative and may be adjusted with updates in development forecasts and adoption of developer agreements:

Fiscal Year	New Treatment Capacity	Comments
2018 to 2023	up to 4 MGD	Within Current Service Area: Design and permitting updates for additional wastewater treatment capacity at the NEUF should start in FY 2018, to be online in FY 2023, as follows: <ol style="list-style-type: none"> a. Update design criteria, \$86,312, starting October 2017. b. Update construction drawings and bid package, \$500,000 - \$1,000,000 estimate, FY 2018-19. c. Construct site work, \$3,000,000 estimate, FY 2018-19. d. Construct wastewater utility facilities, \$39,000,000 estimate, FY 2020-23. e. Construction Engineering & Inspection, \$4,200,000 estimate, FY 2018-23.
2020 to 2025	up to 4 MGD*	Outside Current Service Area: Additional water treatment capacity anticipated to support proposed developments (subject to Board approval) in the northeast area of the jurisdictional boundary of the Collier County Water-Sewer District, as established by special act (Chapter 2003-353, Laws of Florida), as follows: <ol style="list-style-type: none"> a. Sub-regional transitional capacity, \$4,000,000 estimate, FY 2020-25.

*Not shown in Column 4.

Collier County Government
Public Utilities Department
2017 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

**WASTEWATER SYSTEM - TREATMENT FACILITIES
LEVEL OF SERVICE STANDARDS (LOSS) ASSESSMENT FOR
NORTH COUNTY WATER RECLAMATION FACILITY (NCWRF) SERVICE AREA**

9/1/2017

5. Permitted / Operational Treatment Capacity is the permitted treatment capacity at the beginning of the fiscal year in million gallons per day (MGD) with no deduction for the largest unit being out of service given that the NCWRF is designed for Class I reliability. Permitted / Operational Treatment Capacity is plotted in the chart on the next page.

In accordance with the Board adopted 2014 Water, Wastewater, Irrigation Quality Water and Bulk Potable Water Master/CIP Plan, Total Operational Treatment Capacity must be sufficient for the M3DF.

Capacity in FY 2018 increased by 0.75 MGD (as currently sited) because Orange Tree Utilities was integrated into the CCWSD during FY 2017.

Acquisition of the Golden Gate City Utility from the Florida Governmental Utility Authority is anticipated during the early part of FY 2018. Existing Golden Gate City Utility wastewater facilities include a 1.25 MGD wastewater treatment plant that will continue operation.

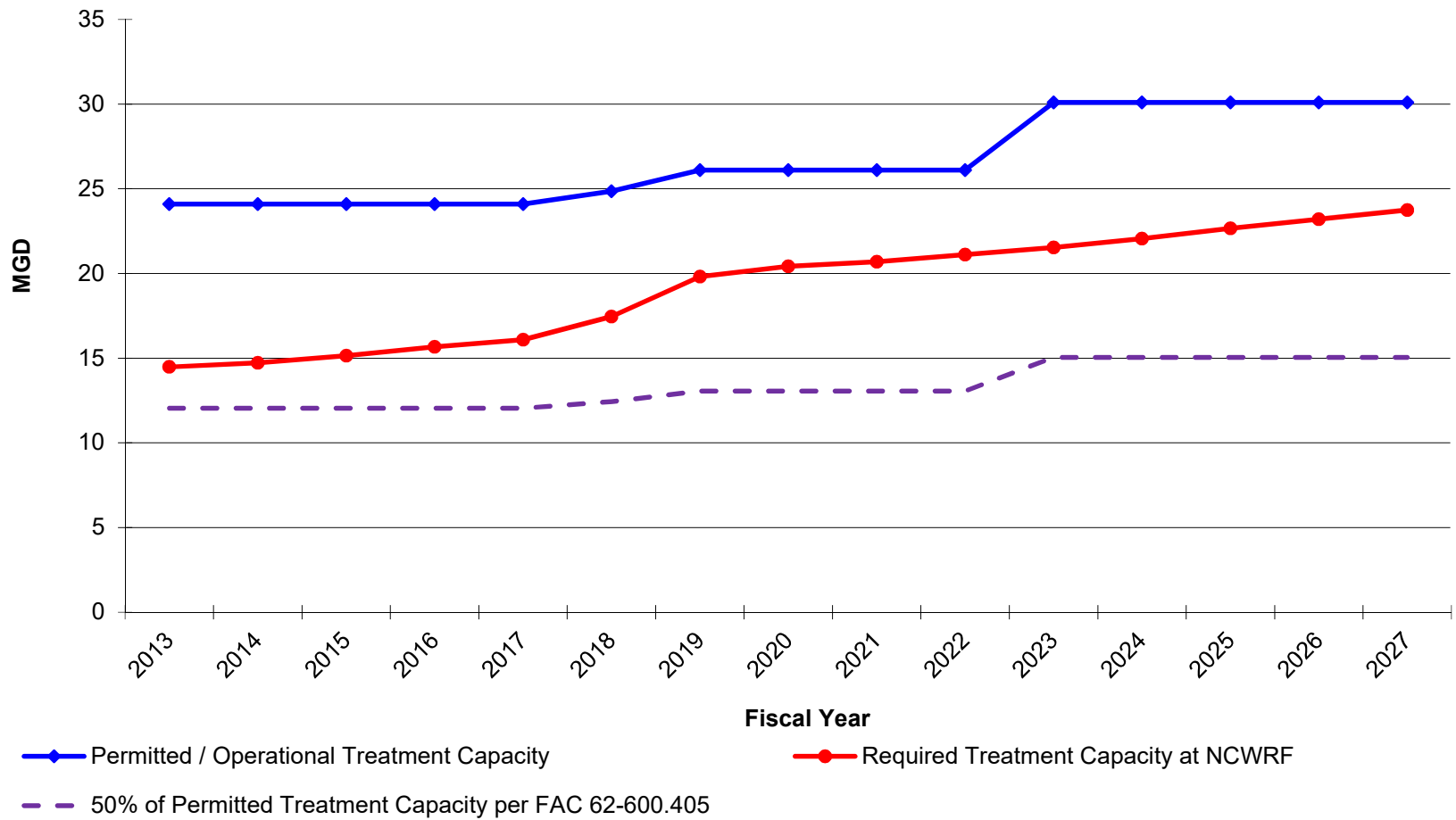
Twin Eagles wastewater services will transition from the Northeast Sub-Regional Wastewater Plant (formerly the Orange Tree Utility Company) to the NCWRF, anticipated in 2018. The corresponding capacity will become available at the Northeast Sub-Regional Wastewater Treatment Plant to serve the northeast region.

6. Retained Operational Treatment Capacity is the Permitted / Operational Treatment Capacity minus the Max. 3-Day Daily Flow (M3DF).
7. Max. 3-Day Daily Flow Diverted to NCWRF is the minimum M3DF flow to be diverted to the NCWRF to avoid exceeding the permitted capacity of the SCWRF.
8. Required Treatment Capacity at NCWRF is equal to the Max. 3-Day Daily Flow (M3DF) plus the Max. 3-Day Daily Flow Diverted to NCWRF and is plotted in the chart on the next page.
9. Percent of Permitted Capacity at MMDF is the Maximum Month Daily Flow (MMDF) as a percentage of Permitted / Operational Treatment Capacity. Per FAC 62-600.405, capacity analysis reporting to the Department of Environmental Protection (DEP) is triggered once MMDF exceeds 50% of permitted capacity, as plotted in the chart on the next page.

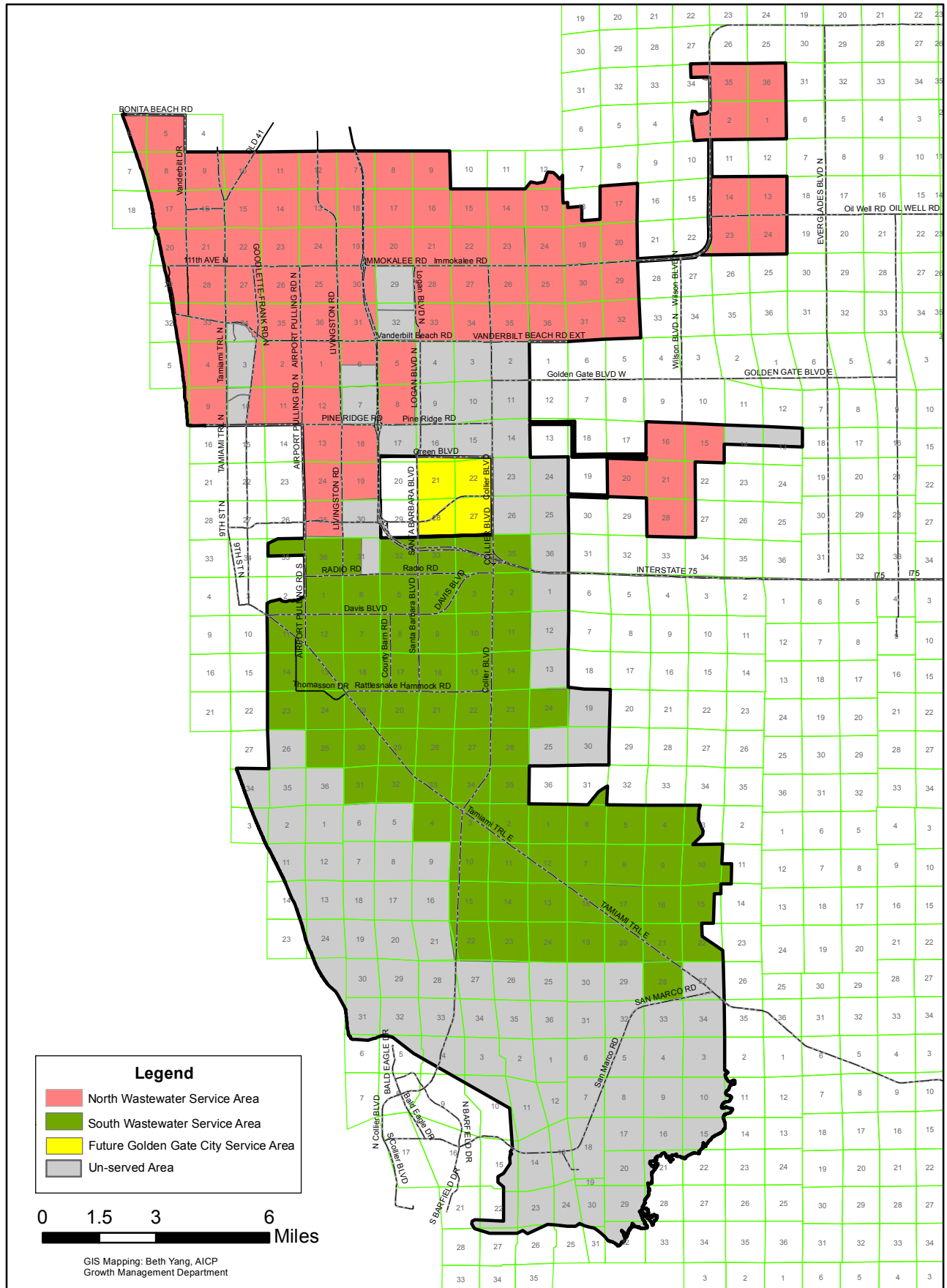
Collier County Government
Public Utilities Department
2017 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

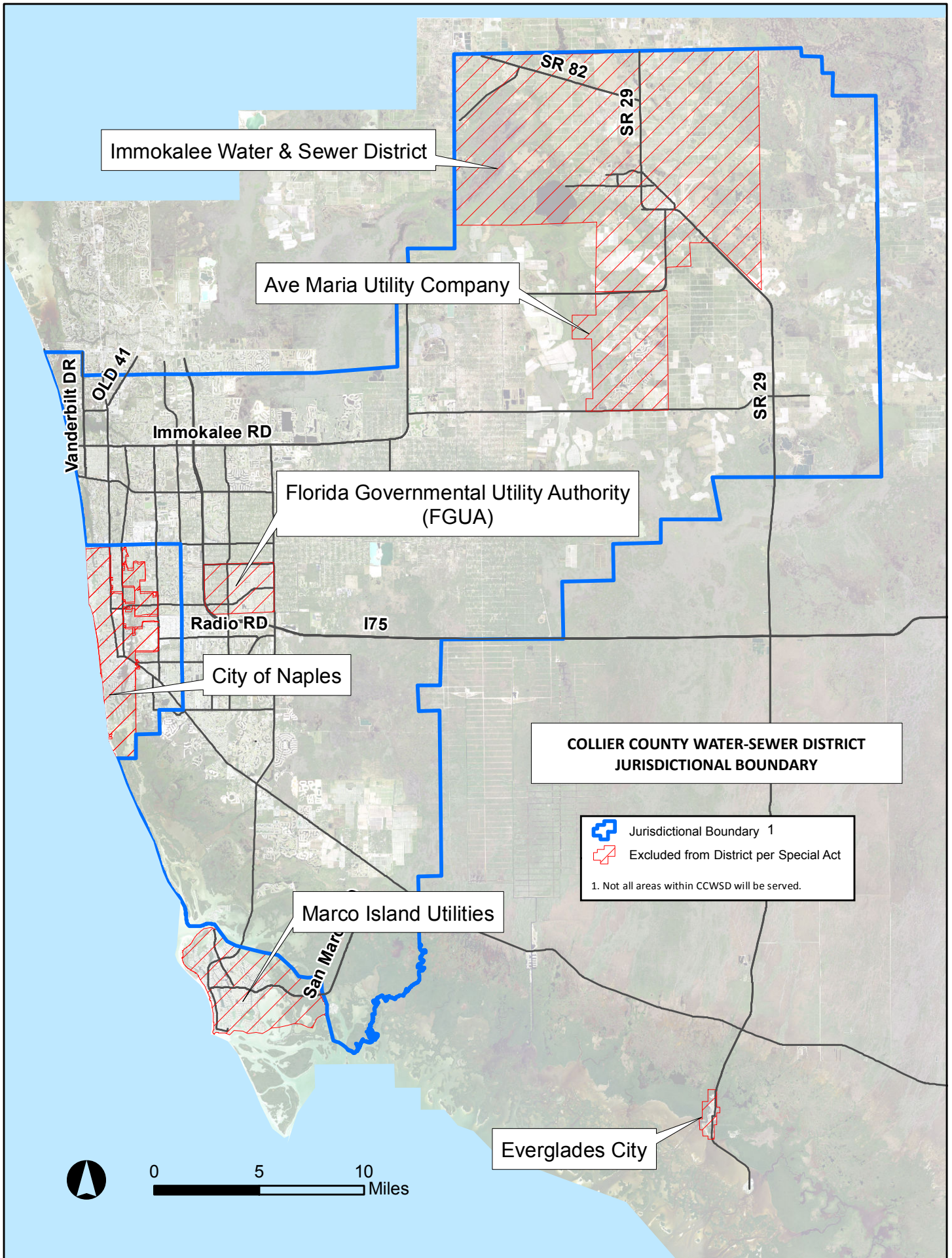
NORTH COUNTY WATER RECLAMATION FACILITY (NCWRF) SERVICE AREA
Level of Service Standard: 100 gpcd

9/1/2017





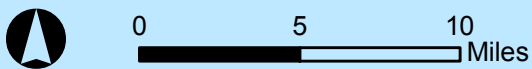
Current and Future Wastewater Service Areas (2017 AUIR)





COLLIER COUNTY WATER-SEWER DISTRICT JURISDICTIONAL BOUNDARY

-  Jurisdictional Boundary 1
 -  Excluded from District per Special Act
1. Not all areas within CCWSD will be served.



COLLIER COUNTY WATER - SEWER DISTRICT SYSTEM UTILIZATION AND DIMINISHING CAPACITY REPORT ("CHECKBOOK")

WATER AND WASTEWATER
DATA: Current as of August 17, 2017

All amounts in Million Gallons per Day (MGD)

CURRENT AVAILABLE CAPACITY (BASED ON HISTORICAL FLOW)

- 1a. Existing Permitted Plant Capacity
- 1b. Existing Operational Plant Capacity (based on 2014 master plan)

- 2a. Highest 3-Day Consecutive Peak Demand ^[2]
- 2b. Highest Month Average Demand ^[3]

- 3a. Current Available Diminishing Capacity Based on 3-Day Peak (Line 1 - Line 2a)
- 3b. Current Available Diminishing Capacity Based on Highest Month Avg. (Line 1 - Line 2b)

WATER	WASTEWATER ^[1]	
	REGIONAL	NORTH
52.000	24.100	16.000
48.000	24.100	16.000
33.963	14.625	17.313
31.877	11.831	9.944
14.037	9.475	(1.313)
16.123	12.269	6.056

CURRENT AVAILABILITY WITHOUT FUTURE COMMITMENTS

- 4a. **SYSTEM AVAILABILITY BASED ON 3-DAY PEAK** (Line 3a / Line 1)
- 4b. **SYSTEM AVAILABILITY BASED ON HIGHEST MONTH AVG.** (Line 3b / Line 1)

29%	39%	-8%
34%	51%	38%

BCC-APPROVED, ACTIVE PUD COMMITMENTS (NOT INSTALLED) ^[4]

- 5. Total BCC-approved Active PUD commitments to date (per GMD PUD Master List) ^[5]

- 6a. Highest 3-Day Peak Demand Plus Active PUD Commitments to Date (Line 2a + Line 5)
- 6b. Highest Month Avg. Demand Plus Active PUD Commitments to Date (Line 2b + Line 5)

- 6c. Available Capacity Based on 3-Day Peak (Line 3a - Line 5)
- 6d. Available Capacity Based on Highest Month Average (Line 3b - Line 5)
- 6e. **SYSTEM AVAILABILITY BASED ON 3-DAY PEAK** (Line 6c / Line 1)
- 6f. **SYSTEM AVAILABILITY BASED ON HIGH MONTH AVG.** (Line 6d / Line 1)

14.493	5.012	5.877
48.456	19.637	23.190
46.370	16.843	15.821
(0.456)	4.463	(7.190)
1.630	7.257	0.179
-1%	19%	-45%
3%	30%	1%

FUTURE PLANT CAPACITY

- 7. Expansions Within Next 12 Months ^[6]

- 8a. Future Available Capacity After Expansions Based on 3-Day Peak (Line 6c + Line 7)
- 8b. Future Available Capacity After Expansions Based on Highest Month Avg (Line 6d + Line 7)

0.000	0.000	0.000
(0.456)	4.463	(7.190)
1.630	7.257	0.179

FORECAST - WITH FUTURE COMMITMENTS AND EXPANSIONS

- 11a. **SYSTEM AVAILABILITY BASED ON 3-DAY PEAK** (Line 8a / Line 1)
- 11b. **SYSTEM AVAILABILITY BASED ON HIGH MONTH AVG.** (Line 8b / Line 1)

-1%	19%	-45%
3%	30%	1%

FOOTNOTES/QUALIFIERS:

- [1] Wastewater North and South shown separately because of the finite capacity of the interconnect.
- [2] Line 2a: Mo-Yr of Highest 3-Day Consecutive Peak Demand since January 2003 =>
- [3] Line 2b: Mo-Yr of Highest Month Average Demand since January 2003 =>
- [4] Capacity requested by outstanding active BCC-approved PUD units as documented in the most current GMD PUD Master List. The outstanding PUD units are assumed to be developed before PUD closeout. Level of service for future commitments is defined by the FAC and the Master Plan.
- [5] Built-out, closed-out, inactive, and discontinued PUD's are not included in line 5; only active PUD's are included.
- [6] Planned Capacity Additions Scheduled to come online (according to the approved 2016 AUIR).

Apr-07	Jan-16	Sep-03
Apr-06	Feb-16	Jan-16

EXHIBIT "A"
COLLIER COUNTY SCHEDULE OF CAPITAL IMPROVEMENTS
 FISCAL YEARS 2018-2022

PUD

WASTEWATER TREATMENT SYSTEM PROJECTS								
		CONSTRUCTION	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT
CIE #	PROJECT	SCHEDULE NOTES	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	TOTAL
	Debt Service		\$8,935,000	\$8,712,000	\$8,491,000	\$8,490,000	\$7,922,000	\$42,550,000
	Expansion Related Projects - Other		\$0	\$8,000,000	\$43,000,000	\$0	\$0	\$51,000,000
	Replacement & Rehabilitation Projects - Other		\$55,780,000	\$38,050,000	\$38,085,000	\$39,885,000	\$37,375,000	\$209,175,000
	Departmental Capital		\$671,000	\$684,000	\$698,000	\$712,000	\$726,000	\$3,491,000
	Reserve for Contingencies - Replacement & Rehabilitation Projects		\$5,578,000	\$3,805,000	\$3,809,000	\$3,989,000	\$3,738,000	\$20,919,000
	WASTEWATER TREATMENT SYSTEM PROJECT TOTALS		\$70,964,000	\$59,251,000	\$94,083,000	\$53,076,000	\$49,761,000	\$327,135,000

REVENUE KEY - REVENUE SOURCE			FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	TOTAL
SIF - Wastewater System Development Fees / Impact Fees			\$7,299,000	\$7,299,000	\$7,299,000	\$7,299,000	\$7,299,000	\$36,495,000
B1 - Bonds			\$0	\$0	\$43,000,000	\$0	\$0	\$43,000,000
SRF - State Revolving Fund Loans			\$0	\$8,000,000	\$0	\$0	\$0	\$8,000,000
SCA - Wastewater Capital Account - Transfers			\$671,000	\$684,000	\$698,000	\$712,000	\$726,000	\$3,491,000
REV - Rate Revenue			\$62,994,000	\$43,268,000	\$43,086,000	\$45,065,000	\$41,736,000	\$236,149,000
REVENUE TOTAL			\$70,964,000	\$59,251,000	\$94,083,000	\$53,076,000	\$49,761,000	\$327,135,000

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<p>NOTE: Collier County has adopted a two-year Concurrency Management System. Figures provided for years three, four and five of this Schedule of Capital Improvements are not part of the Concurrency Management System but must be financially feasible with a dedicated revenue source or an alternative revenue source if the dedicated revenue source is not realized. Figures provided for years six through ten of the Schedule of Capital Improvements are estimates of revenues versus project costs but do not constitute a long term concurrency system. Revenue sources are estimates only; both the mix of sources and amounts will change when a rate study is conducted.</p>	<p>DATA SOURCES:</p> <ul style="list-style-type: none"> • <u>Expansion Related and Replacement & Rehabilitation Projects:</u> FY 2018 is obtained from the 2018 Proposed Budget. • <u>Department Capital:</u> FY 2018 is obtained from the 2018 Proposed Budget, split 50/50 between Water and Wastewater. FY 2019 to FY 2027 is a 2% increase over each fiscal year from - FY 2019 through FY 2027 - (pursuant to CPI adjustments per Board policy). • <u>Debt Service:</u> FY 2018 - FY 2022 are obtained from the Collier County Water and Sewer District Financial Statements and Other Reports, Summary of Debt Service requirements to maturity. Total Debt Service amount is split 50/50 between Water and Wastewater. • <u>Reserve for Contingencies - Replacement and Rehabilitation Projects:</u> As per Florida Statutes Section 129.01(c), reserve for contingencies are up to 10% of expenses.
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CIE consistent with Board approved: FY18 budget.

APPENDIX H
FUTURE COSTS AND REVENUES BY TYPE OF PUBLIC FACILITY
 FISCAL YEARS 2023 - 2027

PUD

WASTEWATER PROJECTS								
		CONSTRUCTION	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT
CIE #	PROJECT	SCHEDULE NOTES	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	TOTAL
	Expansion Related Projects - Other		\$0	\$0	\$5,000,000	\$5,000,000	\$5,000,000	\$15,000,000
	Replacement & Rehabilitation Projects - Other		\$36,850,000	\$35,695,000	\$37,220,000	\$33,595,000	\$35,205,000	\$178,565,000
	Departmental Capital		\$741,000	\$756,000	\$771,000	\$786,000	\$802,000	\$3,856,000
	Debt Service		\$5,602,000	\$8,262,000	\$7,978,000	\$7,201,000	\$6,380,000	\$35,423,000
	Reserve for Contingencies - Replacement & Rehabilitation Projects		\$3,685,000	\$3,570,000	\$3,722,000	\$3,360,000	\$3,521,000	\$17,858,000
	SEWER - WASTEWATER PROJECT TOTALS		\$46,878,000	\$48,283,000	\$54,691,000	\$49,942,000	\$50,908,000	\$250,702,000

REVENUE KEY - REVENUE SOURCE	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	TOTAL
REV - Rate Revenue	\$38,838,000	\$40,228,000	\$46,621,000	\$41,857,000	\$42,807,000	\$210,351,000
RR - Operating Reserve Revenues	\$0	\$0	\$0	\$0	\$0	\$0
B1 - Bonds	\$0	\$0	\$0	\$0	\$0	\$0
SRF - State Revolving Fund Loans	\$0	\$0	\$0	\$0	\$0	\$0
SCA - Wastewater Capital Account - Transfers	\$741,000	\$756,000	\$771,000	\$786,000	\$802,000	\$3,856,000
SIF - Wastewater System Development Fees / Impact Fees	\$7,299,000	\$7,299,000	\$7,299,000	\$7,299,000	\$7,299,000	\$36,495,000
REVENUE TOTAL	\$46,878,000	\$48,283,000	\$54,691,000	\$49,942,000	\$50,908,000	\$250,702,000

NOTE: Collier County has adopted a two-year Concurrency Management System. Figures provided for years three, four and five of this Schedule of Capital Improvements are not part of the Concurrency Management System but must be financially feasible with a dedicated revenue source or an alternative revenue source if the dedicated revenue source is not realized. Figures provided for years six through ten of the Schedule of Capital Improvements are

SOLID WASTE DISPOSAL FACILITIES

CONTENTS

- **SOLID WASTE DISPOSAL FACILITIES – SUMMARY**
- **INTRODUCTION**
- **TABLE 1 – COLLIER COUNTY LANDFILL DISPOSAL CAPACITY LEVEL OF SERVICE STANDARD: TEN YEARS OF PERMITTED LANDFILL CAPACITY AT PREVIOUS THREE YEARS AVERAGE TONS PER CAPITA DISPOSAL RATE, INC. NOTES**
- **CHART 1 – TEN YEARS OF PERMITTED LANDFILL CAPACITY**
- **TABLE 2 – COLLIER COUNTY LANDFILL DISPOSAL CAPACITY LEVEL OF SERVICE STANDARD: TWO YEARS OF LINED CELL CAPACITY AT PREVIOUS THREE YEARS AVERAGE TONS PER CAPITAL DISPOSAL RATE, INC. NOTES**
- **CHART 2 – TWO YEARS OF LINED CELL CAPACITY**
- **SOLID WASTE DISPOSAL FACILITIES SCHEDULES OF CAPITAL IMPROVEMENTS**

2017 AUIR SUMMARY
SOLID WASTE DISPOSAL FACILITIES

Facility Type: Solid Waste Disposal Facilities

Level of Service Standard: 10 years of permitted landfill capacity and 2 years of lined cell capacity at previous 3 years average tons per capita disposal rate

Capacity:

Total Permitted Landfill Capacity Remaining, 2017	17,244,316 Tons
Required Permitted Landfill Capacity, 2017	2,625,495 Tons
Total Lined Cell Capacity Remaining, 2017	2,372,915 Tons
Required Lined Cell Capacity, 2017	490,736 Tons
Estimated Life of landfill	50 Years

The Collier County Landfill is financed and operated under a design/build/operate Landfill Operating Agreement (LOA) with Waste Management Inc. of Florida (WWIF). All capital revenue and expenses incurred, including new cell construction, are paid through tipping fees paid to WWIF.

Under the LOA:

- No debt is carried by Collier County
- Design/build/operate provisions ensure proper cell capacity
- Landfill cells vary by size and disposal capacity

Recommended Action:

That the BCC find the Collier County Landfill Disposal Capacity in compliance with concurrency requirements found in FS Section 163, the Collier County Comprehensive Plan and the Land Development Code; that it continue its support of the Integrated Solid Waste Management Strategy initiatives to increase recycling to reach the 75% state goal; and that it approve the 2017 Solid Waste Disposal Facilities AUIR.

Note: The Solid and Hazardous Waste Management Division reached a milestone in 2016, achieving a 66% recycling rate as reported by FDEP.

COLLIER COUNTY LANDFILL DISPOSAL CAPACITY

Introduction:

The Public Utilities Division's 2017 AUIR submittals are based on "Collier County Peak Season Population Estimates and Projections" dated May 26, 2017, prepared by Collier County Comprehensive Planning Section. Populations are derived from data obtained from: 2000 Census and 2010 Census; Bureau of Economic and Business Research (BEBR) population bulletins; Collier County Comprehensive Planning staff; and, Planning staff from Naples and Marco Island. Peak Season population is derived by increasing each year's October 1 permanent population by 20% (.20). Based upon BEBR Medium Range growth rate projections.

1. The 2017 Solid Waste AUIR projects that the Collier County Landfill will have zero capacity remaining in FY 2068, while the 2016 Solid Waste AUIR projects that the Collier County Landfill would have zero capacity remaining in FY 2070. The decrease of two years of capacity was directly impacted by the upward shift of Collier County's Peak Population Growth, resulting in an increase of annual tons disposed. This represents 50 years of estimated life of the landfill. In 2016, the Florida Department of Environmental Protection certified the countywide traditional recycling rate for the commercial sector at 62% and residential at 78%. The Solid & Hazardous Waste Management Division continues to maximize and expand commercial recycling efforts through increased commercial recycling compliance and sustainability.
2. The projected Tons Per Capita Disposal Rate in the 2017 Solid Waste AUIR for 2018 forward is 0.55. The Per Capita Disposal Rate for 2017 increased by 0.01% to .56 from the projected Tons Per Capita Disposal Rate in the 2016 Solid Waste AUIR of 0.55.
3. Based on an estimate of 10 years for all federal, state and local permitting, site selection for a new landfill should be completed by 2048, to allow for permitting by 2058, preserving ten years of permitted landfill capacity in advance of 2068.

The 2017 Solid Waste AUIR is presented as a snapshot of concurrency conditions. The Collier County Solid and Hazardous Waste Management Division is in compliance with concurrency requirements for FY 2018 and FY 2019, as required by FS Section 163, the Collier County Comprehensive Plan and the Land Development Code.

Recommendations:

The Solid and Hazardous Waste Management Division reached a milestone, achieving a recycling rate of 66% in 2016, as reported by FDEP. In addition, Collier County has ranked 4th in traditional recycling in comparison to other Florida Counties and was awarded the Household Hazardous Waste Program of the Year by the North American Hazardous Materials Management Association for excellence in the industry and for showcasing a unique approach to the collection and disposal of 2.1 million pounds of household hazardous waste annually. The Public Utilities Department's staff recommends that the Collier County Board of County Commissioners approve the 2017 Collier County Landfill Disposal Capacity AUIR and continue to support the Integrated Solid Waste Management Strategy initiatives to increase recycling to reach the 75% State goal, and to divert recyclables and hazardous waste from the Collier County Landfill.

Collier County Government
Public Utilities Division
2017 Annual Update and Inventory Report (AUIR)

Table 1: Collier County Landfill Disposal Capacity
Level of Service Standard: Ten Years of Permitted Landfill Capacity
at Previous Three Years Average Tons Per Capita Disposal Rate

May 26, 2017

1	2	3	4	5	6	7
Fiscal Year	Peak Population	Tons Per Capita Disposal Rate	Annual Tons Disposed	Total Landfill Capacity Balance (tons)	Next Ten Years Landfill Capacity Requirement (tons)	Ten Year Permitted Landfill Capacity Surplus or Deficiency (tons)
2000	309,511	1.23	381,499	4,537,914	2,851,851	1,686,063
2001	325,159	1.32	430,511	4,107,403	2,623,566	1,483,837
2002	341,954	1.07	366,547	3,740,856	2,460,204	1,280,652
2003	359,191	0.80	288,409	5,820,359	2,381,106	3,439,253
2004	374,384	0.78	291,903	9,130,976	2,307,141	6,823,835
2005	386,668	0.71	274,777	9,695,124	2,256,842	7,438,282
2006	396,310	0.70	278,384	9,920,278	2,214,289	7,705,988
2007	400,027	0.64	254,889	9,594,647	2,192,730	7,401,917
2008	399,532	0.61	241,816	9,282,412	2,188,799	7,093,613
2009	399,979	0.54	215,338	9,067,074	2,215,991	6,851,084
2010	387,183	0.54	209,277	8,857,797	2,253,542	6,604,256
2011	392,180	0.52	202,226	8,655,571	2,302,083	6,353,488
2012	398,107	0.51	203,185	18,566,434	2,353,717	16,212,717
2013	402,268	0.52	209,311	18,524,000	2,403,242	16,120,758
2014	408,351	0.53	217,938	18,186,000	2,448,271	15,737,729
2015	416,590	0.54	224,479	17,961,521	2,490,536	15,470,985
2016	424,463	0.55	233,647	17,497,454	2,585,253	14,912,201
2017	432,990	0.56	241,084	17,244,316	2,625,495	14,618,821
2018	441,688	0.55	242,353	17,001,964	2,668,313	14,333,651
2019	450,560	0.55	247,221	16,754,743	2,710,159	14,044,584
2020	458,959	0.55	251,829	16,502,914	2,751,107	13,751,807
2021	466,863	0.55	256,166	16,246,748	2,791,236	13,455,512
2022	474,904	0.55	260,578	15,986,170	2,830,512	13,155,657
2023	483,083	0.55	265,066	15,721,103	2,868,903	12,852,200
2024	491,404	0.55	269,632	15,451,472	2,906,376	12,545,096
2025	498,986	0.55	273,792	15,177,680	2,943,377	12,234,303
2026	505,805	0.55	277,533	14,900,147	2,980,372	11,919,775
2027	512,717	0.55	281,326	14,618,821	3,017,353	11,601,468
2028	519,723	0.55	285,170	14,333,651	3,054,314	11,279,337
2029	526,825	0.55	289,067	14,044,584	3,091,249	10,953,335
2030	533,586	0.55	292,777	13,751,807	3,128,391	10,623,416
2031	539,997	0.55	296,295	13,455,512	3,165,979	10,289,533
2032	546,485	0.55	299,855	13,155,657	3,204,018	9,951,639
2033	553,052	0.55	303,457	12,852,200	3,242,515	9,609,685
2034	559,697	0.55	307,104	12,545,096	3,281,474	9,263,623
2035	566,422	0.55	310,794	12,234,303	3,320,901	8,913,402
2036	573,227	0.55	314,528	11,919,775	3,360,801	8,558,974
2037	580,115	0.55	318,307	11,601,468	3,401,181	8,200,287
2038	587,085	0.55	322,131	11,279,337	3,442,046	7,837,290
2039	594,139	0.55	326,002	10,953,335	3,483,403	7,469,932
2040	601,277	0.55	329,919	10,623,416	3,525,256	7,098,160
2041	608,502	0.55	333,883	10,289,533	3,567,612	6,721,922

Collier County Government
Public Utilities Division
2017 Annual Update and Inventory Report (AUIR)

Table 1: Collier County Landfill Disposal Capacity
Level of Service Standard: Ten Years of Permitted Landfill Capacity
at Previous Three Years Average Tons Per Capita Disposal Rate

May 26, 2017

1	2	3	4	5	6	7
Fiscal Year	Peak Population	Tons Per Capita Disposal Rate	Annual Tons Disposed	Total Landfill Capacity Balance (tons)	Next Ten Years Landfill Capacity Requirement (tons)	Ten Year Permitted Landfill Capacity Surplus or Deficiency (tons)
2042	615,813	0.55	337,894	9,951,639	3,610,476	6,341,163
2043	623,212	0.55	341,954	9,609,685	3,653,856	5,955,829
2044	630,700	0.55	346,063	9,263,623	3,697,757	5,565,865
2045	638,277	0.55	350,221	8,913,402	3,742,186	5,171,216
2046	645,946	0.55	354,428	8,558,974	3,787,148	4,771,825
2047	653,707	0.55	358,687	8,200,287	3,832,651	4,367,636
2048	661,562	0.55	362,997	7,837,290	3,878,700	3,958,590
2049	669,510	0.55	367,358	7,469,932	3,925,303	3,544,629
2050	677,554	0.55	371,772	7,098,160	3,972,465	3,125,695
2051	685,695	0.55	376,239	6,721,922	4,020,194	2,701,727
2052	693,934	0.55	380,759	6,341,163	4,068,497	2,272,666
2053	702,272	0.55	385,334	5,955,829	4,117,380	1,838,449
2054	710,709	0.55	389,964	5,565,865	4,166,850	1,399,015
2055	719,249	0.55	394,649	5,171,216	4,216,915	954,301
2056	727,890	0.55	399,391	4,771,825	4,267,581	504,244
2057	736,636	0.55	404,189	4,367,636	4,318,856	48,779
2058	745,487	0.55	409,046	3,958,590	4,370,747	N/A
2059	754,444	0.55	413,961	3,544,629	3,956,787	N/A
2060	763,508	0.55	418,934	3,125,695	N/A	N/A
2061	772,682	0.55	423,968	2,701,727	N/A	N/A
2062	781,966	0.55	429,062	2,272,666	N/A	N/A
2063	791,361	0.55	434,217	1,838,449	N/A	N/A
2064	800,869	0.55	439,434	1,399,015	N/A	N/A
2065	810,492	0.55	444,714	954,301	N/A	N/A
2066	820,230	0.55	450,057	504,244	N/A	N/A
2067	830,085	0.55	455,464	48,779	N/A	N/A
2068	840,058	0.55	460,937	(412,157)	N/A	N/A

Collier County Government
Public Utilities Division
2017 Annual Update and Inventory Report (AUIR)

**Table 1: Collier County Landfill Disposal Capacity
Level of Service Standard: Ten Years of Permitted Landfill Capacity
at Previous Three Years Average Tons Per Capita Disposal Rate**

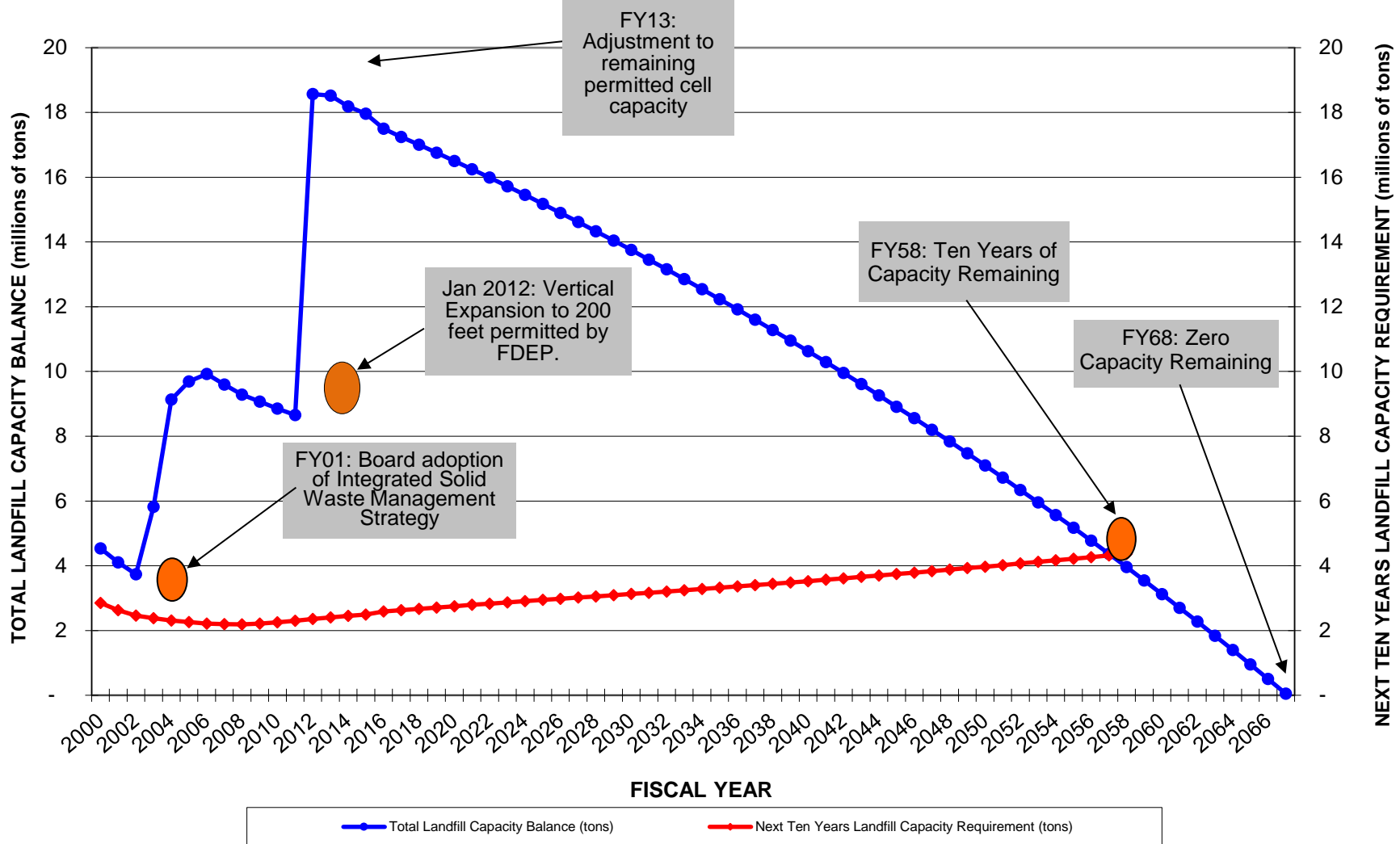
May 26, 2017

NOTES: (References are to the column numbers on previous page)

1. Fiscal Year starts October 1 and ends September 30.
2. Peak Population. Estimates and projections for the existing service area are based on "Collier County Peak Season Population Estimates and Projections" dated May 26, 2017, prepared by Collier County Comprehensive Planning Section. Populations are derived from data obtained from: 2000 Census and 2010 Census; Bureau of Economic and Business Research (BEBR) population bulletins; Collier County Comprehensive Planning staff; and, Planning staff from Naples and Marco Island. Peak Season population is derived by increasing each year's October 1 permanent population by 20% (.20). Based upon BEBR Medium Range growth rate projections.
3. Tons Per Capita Disposal Rate for FY 2000 - FY 2017 is calculated by dividing the actual Annual Tons Disposed (column 4) by the Peak Population (column 2). FY 2018 forward is the average Tons Per Capita Disposal Rate (column 3) of FY 2015, FY 2016, and FY 2017.
4. Annual Tons Disposed for FY 2016 is actual tonnage amount buried at the Collier County Landfill. FY 2017 reflects the projected tons disposed from the current year forecast multiplied by the long term cover and fill to waste ton ratio of 1.05. FY 2018 forward are derived from Peak Population (column 2) multiplied by the Tons Per Capita Disposal Rate
5. Total Landfill Capacity Balance (tons) is the previous years Total Landfill Capacity Balance (column 5) minus Annual Tons Disposed (column 4) at the Collier County Landfill. The bolded value in the Total Landfill Capacity Balance (column 5) is from Waste Management, Inc. of Florida's (WMIF) Annual Estimate of Remaining Life and Capacity Letter that includes the Board approved and FDEP permitted vertical expansion plus 930,000 tons of contracted disposal capacity at the Okeechobee Landfill. See graph on page SW-5.
6. Next Ten Years Landfill Capacity Requirement (tons) is the sum of the next ten years of Annual Tons Disposed (column 4) at the Collier County Landfill. See graph on page SW-5.
7. Ten Year Permitted Landfill Capacity Surplus or Deficiency (tons) is the Total Landfill Capacity Balance (column 5) minus the Next Ten Years Landfill Capacity Requirement (column 6).

CHART 1: TEN YEARS OF PERMITTED LANDFILL CAPACITY
 Level of Service Standard = Ten Years of Permitted Landfill Capacity at Previous Three Years Average Tons Per Capita Disposal Rate
 May 26, 2017

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COLLIER COUNTY PEAK SEASON POPULATION ESTIMATES and PROJECTIONS

2000 & 2010 - 2034

	estimates 2000	estimates 2010	estimates 2011	estimates 2012	projections 2013	projections 2014	projections 2015	projections 2016	projections 2017	projections 2018	projections 2019	projections 2020	projections 2021
Unincorporated Area	265,366	343,593	348,497	354,268	358,404	364,414	372,134	379,704	387,748	395,964	404,353	412,249	419,631
COUNTYWIDE	309,511	387,183	392,180	398,107	402,268	408,351	416,402	424,463	432,990	441,688	450,560	458,959	466,863

	projections 2022	projections 2023	projections 2024	projections 2025	projections 2026	projections 2027	projections 2028	projections 2029	projections 2030	projections 2031	projections 2032	projections 2033	projections 2034
Unincorporated Area	427,149	434,805	442,603	449,667	455,971	462,368	468,860	475,448	481,666	487,505	493,421	499,414	505,487
COUNTYWIDE	474,904	483,083	491,404	498,986	505,805	512,717	519,723	526,825	533,586	539,997	546,485	553,052	559,697

notes:

- 1) Estimates and projections are derived from data obtained from: 2000 Census and 2010 Census; Bureau of Economic and Business Research (BEBR) population bulletins; Collier County Comprehensive Planning staff; and, Planning staff from Naples and Marco Island.
- 2) Peak Season population is derived by increasing each year's October 1 permanent population (2010).
- 3) Based upon BEBR Medium Range growth rate projections.

Prepared by Collier County Comprehensive Planning Section May 26, 2017.

Year

2000	309,511	
2010	387,183	12.69%
2011	392,180	1.29%
2012	398,107	1.51%
2013	402,268	1.05%
2014	408,351	1.51%
2015	416,402	1.97%
2016	424,463	1.94%
2017	432,990	2.01%
2018	441,688	2.01%
2019	450,560	2.01%
2020	458,959	1.86%
2021	466,863	1.72%
2022	474,904	1.72%
2023	483,083	1.72%
2024	491,404	1.72%
2025	498,986	1.54%
2026	505,805	1.37%
2027	512,717	1.37%

Collier County Government
Public Utilities Division
2017 Annual Update and Inventory Report (AUIR)

**Table 2: Collier County Landfill Disposal Capacity
Level of Service Standard: Two Years of Lined Cell Capacity
at Previous Three Years Average Tons Per Capita Disposal Rate**

May 26, 2017

1	2	3	4	5	6	7
Fiscal Year	Peak Population	Tons Per Capita Disposal Rate	Annual Tons Disposed	Lined Cell Capacity Balance (tons)	Next Two Years Lined Cell Capacity Requirement (tons)	Projected Lined Cell Capacity Surplus or Deficiency (tons)
2000	309,511	1.23	381,499	1,019,063	797,058	222,005
2001	325,159	1.32	430,511	588,552	654,956	(66,404)
2002	341,954	1.07	366,547	2,325,580	580,312	1,745,268
2003	359,191	0.80	288,409	2,037,171	566,680	1,470,491
2004	374,384	0.78	291,903	1,745,268	553,161	1,192,107
2005	386,668	0.71	274,777	1,470,491	533,273	937,218
2006	396,310	0.70	278,384	1,973,878	496,705	1,477,173
2007	400,027	0.64	254,889	1,718,989	457,154	1,261,835
2008	399,532	0.61	241,816	1,477,173	424,615	1,052,558
2009	399,979	0.54	215,338	2,107,085	411,503	1,695,582
2010	387,183	0.54	209,277	2,027,287	405,411	1,621,876
2011	392,180	0.52	202,226	1,825,061	412,496	1,412,565
2012	398,107	0.51	203,185	1,621,876	427,249	1,194,627
2013	402,268	0.52	209,311	2,237,565	442,417	1,795,149
2014	408,351	0.53	217,938	1,630,910	460,310	1,559,318
2015	416,590	0.54	224,479	1,374,671	460,728	1,334,421
2016	424,463	0.55	233,647	1,813,328	484,012	1,329,316
2017	432,990	0.56	241,084	2,372,915	490,736	1,882,178
2018	441,688	0.55	242,928	2,127,915	500,235	1,627,679
2019	450,560	0.55	247,808	1,882,915	509,202	1,373,713
2020	458,959	0.55	252,427	1,635,465	517,972	1,117,493
2021	466,863	0.55	256,775	1,393,649	526,893	866,756
2022	474,904	0.55	261,197	1,178,311	535,968	642,343
2023	483,083	0.55	265,696	969,034	544,715	424,319
2024	491,404	0.55	270,272	766,808	552,635	214,173
2025	498,986	0.55	274,442	563,623	560,187	3,436
2026	505,805	0.55	278,193	354,312	567,842	(213,530)
2027	512,717	0.55	281,994	136,374	575,601	(439,228)

Collier County Government
Public Utilities Division
2017 Annual Update and Inventory Report (AUIR)

**Table 2: Collier County Landfill Disposal Capacity
Level of Service Standard: Two Years of Lined Cell Capacity
at Previous Three Years Average Tons Per Capita Disposal Rate**

May 26, 2017

NOTES: (References are to the column numbers on previous page)

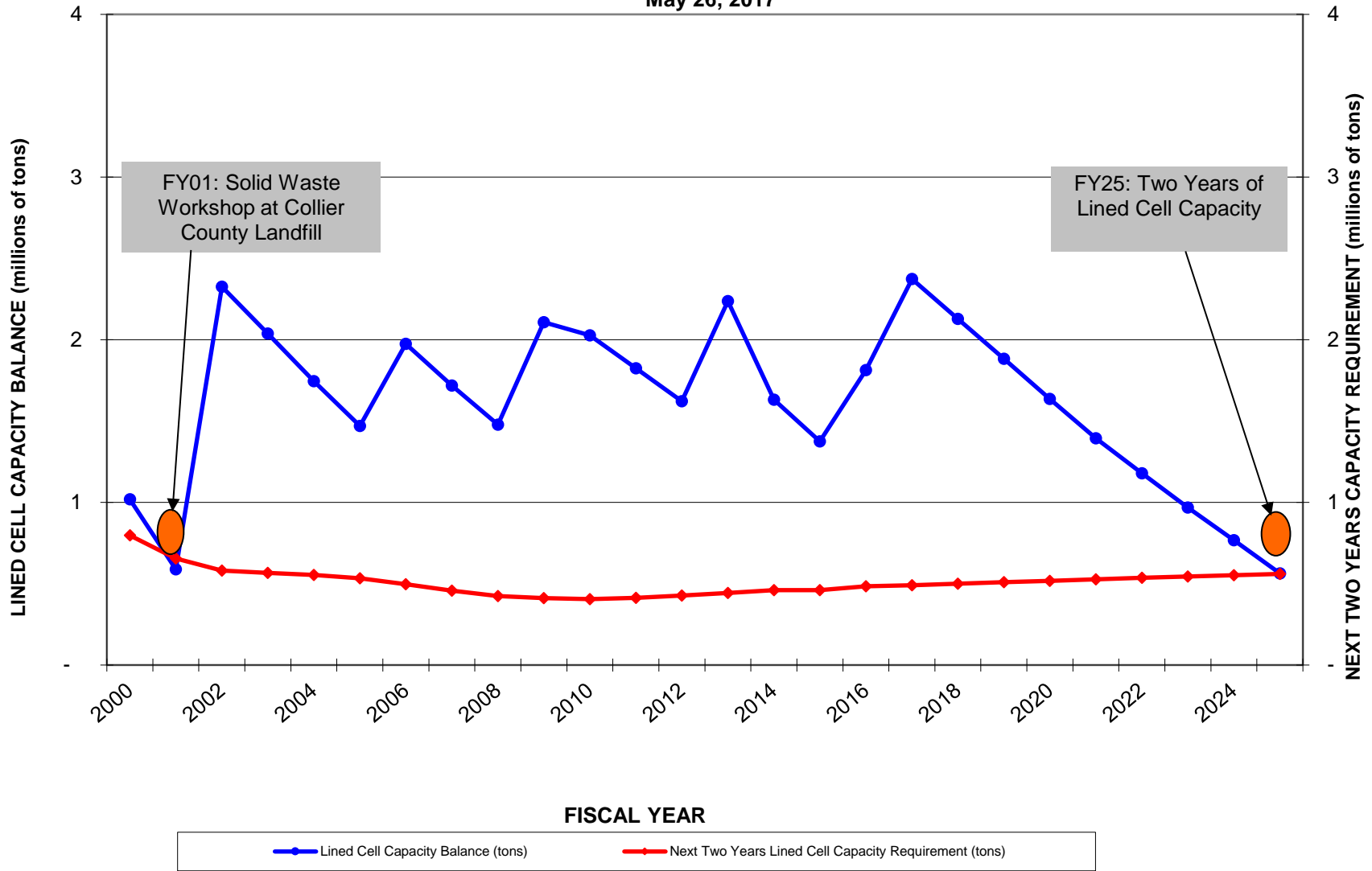
1. Fiscal Year starts October 1 and ends September 30.
2. Peak Population. Estimates and projections for the existing service area are based on "Collier County Peak Season Population Estimates and Projections" dated May 26, 2017, prepared by Collier County Comprehensive Planning Section. Populations are derived from data obtained from: 2000 Census and 2010 Census; Bureau of Economic and Business Research (BEBR) population bulletins; Collier County Comprehensive Planning staff; and, Planning staff from Naples and Marco Island. Peak Season population is derived by increasing each year's October 1 permanent population by 20% (.20). Based upon BEBR Medium Range growth rate
3. Tons Per Capita Disposal Rate for FY 2000 - FY 2017 is calculated by dividing the actual Annual Tons Disposed (column 4) by the Peak Population (column 2). FY 2018 forward is the average Tons Per Capita Disposal Rate (column 3) of FY 2015, FY 2016, and FY 2017.
4. Annual Tons Disposed for FY 2016 is actual tonnage amount buried at the Collier County Landfill. FY 2017 to 2020 reflects the projected tons disposed of provided by Waste Management Industries . FY 2021 forward are derived from Peak Population (column 2) multiplied by the Tons Per Capita Disposal Rate (column 3).
5. Lined Cell Capacity Balance (tons) is the previous years Lined Cell Capacity Balance (column 5) minus Annual Tons Disposed (column 4) at the Collier County Landfill. See below for explanations of the bolded values in the Lined Cell Capacity Balance (column 5). Also see graph on page SW-9.

Fiscal Year	New Capacity (tons)	Description	Source of Information
2002	930,000	Contracted disposal capacity at the Okeechobee Landfill.	June 12, 2001 Disposal Capacity Agreement, as amended.
2002	1,173,575	Lined Cell Expansion	Complete.
2006	911,250	Lined Cell Expansion	Complete.
2009	845,250	Lined Cell Expansion	Complete.
2016	771,200	Lined Cell Expansion	Waste Management, Inc. of Florida (WMIF) Commence Construction of Cell A6 / Cell Development Schedule
2017	1,465,000	Lined Cell Expansion	WMIF 5-year Cell Development Completed Cell A6/Cell Development

6. Next Two Years Lined Cell Capacity Requirement (tons) is the sum of the next two years of Annual Tons Disposed (column 4) at the Collier County Landfill. See graph on page SW-9.
7. Projected Lined Cell Capacity Surplus or Deficiency (tons) is the Lined Cell Capacity Balance (column 5) minus the Next Two Years Lined Cell Capacity Requirement (column 6).

CHART 2: TWO YEARS OF LINED CELL CAPACITY

Level of Service Standard = Two Years of Lined Cell Capacity at Previous Three Years Average Tons Per Capita Disposal Rate
 May 26, 2017

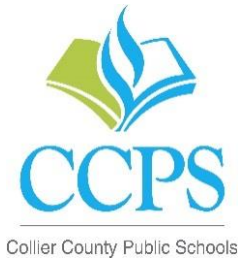


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COLLIER COUNTY SCHOOL CAPITAL IMPROVEMENT PLAN

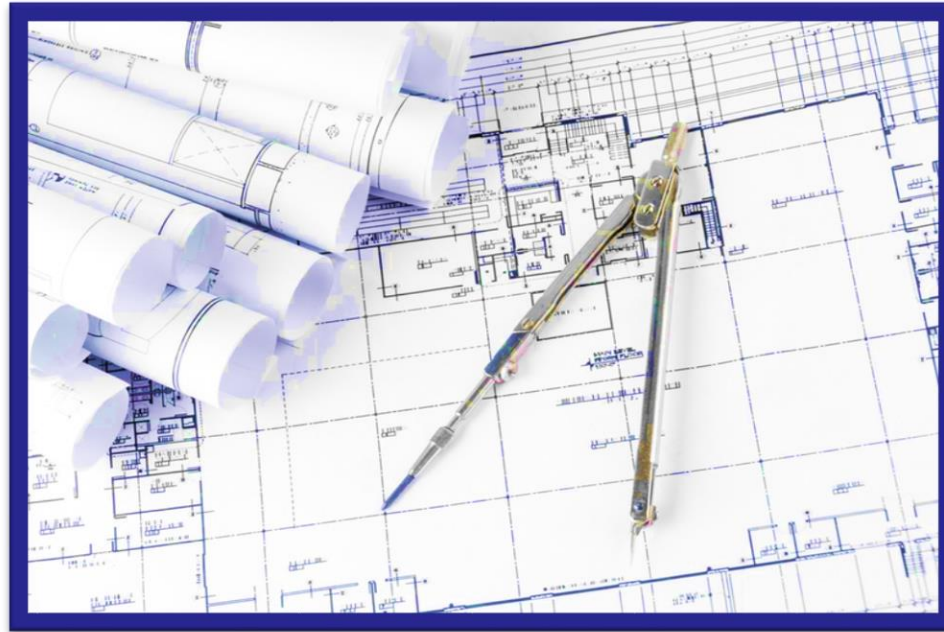
CONTENTS

- **SUMMARY OF DISTRICT SCHOOL BOARD OF COLLIER COUNTY CAPITAL IMPROVEMENT PLAN (CIP) FOR NEXT FIVE YEARS**
- **COUNTYWIDE SCHOOLS INVENTORY – MAP**



Collier County Public Schools

Planning for the future . . .



Capital Improvement Plan

Fiscal Years 2018 through 2037

May 9, 2017

5 Year Capital Budget Summary

Project	FY 2017 2018	FY 2018 2019	FY 2019 2020	FY 2020 2021	FY 2021 2022	Five Year Total
Capital Construction Program						
New Schools/Additions						
Growth High School		100,000	4,000,000	500,000	86,000,000	90,600,000
Immokalee High School Addition/Renovations		500,000	100,000	10,570,000		11,170,000
Subtotal New Schools/Additions		600,000	4,100,000	11,070,000	86,000,000	101,770,000
Capital Maintenance/Renovations (see Chapter 6)						
Electrical	7,560,000	5,406,000	7,828,000	6,303,000	8,385,000	35,482,000
Emergency Maintenance Projects	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	15,000,000
Facilities Renovation Other	1,030,000	40,000	1,010,000	1,041,000	153,000	3,274,000
Facility Modifications/Special Needs	3,500,000	3,500,000	3,500,000	3,500,000	3,500,000	17,500,000
HVAC	20,563,000	13,128,000	27,328,000	16,018,000	40,336,000	117,373,000
P25 Radio System	2,500,000					2,500,000
Roads and Bridge	15,000	26,000	10,000	36,000	45,000	132,000
Roofing	4,545,000	1,975,000	9,235,000	13,515,000	15,650,000	44,920,000
School Maintenance and Renovations	13,433,000	6,489,000	8,753,000	5,497,000	3,997,000	38,169,000
Subtotal Capital Maintenance/Renovations (see Chapter 6)	56,146,000	33,564,000	60,664,000	48,910,000	75,066,000	274,350,000
Subtotal Capital Construction Program	56,146,000	34,164,000	64,764,000	59,980,000	161,066,000	376,120,000
Other Items						
Site Acquisition/Asset Management						
Elementary L Site Preparation	850,000					850,000
Property Management	530,000	40,000	40,000	40,000	40,000	690,000
Site Acquisition		50,000				50,000
Site Development	60,000	100,000				160,000
Transportation Facility			800,000	11,000,000		11,800,000

Project	FY	FY	FY	FY	FY	Five Year Total
	2017 2018	2018 2019	2019 2020	2020 2021	2021 2022	
Subtotal Site Acquisition/Asset Management	1,440,000	190,000	840,000	11,040,000	40,000	13,550,000
Health and Safety						
Access Control Enhancements	250,000	1,500,000	1,250,000	1,100,000	1,200,000	5,300,000
Fire Safety	522,866	532,364	533,052	533,752	534,467	2,656,501
Health, Safety, and Security	527,813	525,721	545,819	542,076	565,158	2,706,587
Security Camera Replacements/Additions	298,102	304,064	310,146	316,349	322,676	1,551,337
Surveillance/Security Camera Maintenance	149,051	152,032	155,073	186,175	189,899	832,230
Subtotal Health and Safety	1,747,832	3,014,181	2,794,090	2,678,352	2,812,200	13,046,655
Portables						
Portable Leasing	277,000	430,000	502,000	502,000	358,000	2,069,000
Portable Renovation	70,000	70,000	70,000	70,000	70,000	350,000
Portable Setup	1,032,000	497,000	362,000	120,000	320,000	2,331,000
Subtotal Portables	1,379,000	997,000	934,000	692,000	748,000	4,750,000
Technology (*Transfer to General)						
Classroom Technology Equipment *	4,560,600	4,700,000	4,770,000	4,887,000	5,305,000	24,222,600
Enterprise Software/Current Year	10,000					10,000
Enterprise Software/Prior Year	13,049,000					13,049,000
Technology Cabling	1,100,000	1,125,000	1,150,000	1,175,000	1,200,000	5,750,000
Technology Infrastructure *	3,176,000	3,848,000	3,678,000	4,070,000	3,870,000	18,642,000
Technology Retrofit *	1,426,098	1,429,446	1,360,348	1,439,000	1,448,000	7,102,892
Subtotal Technology (*Transfer to General)	23,321,698	11,102,446	10,958,348	11,571,000	11,823,000	68,776,492
Equipment and Vehicles (*Transfer to General)						
District Capital Equipment	898,325	206,955	88,553	123,658	145,848	1,463,339
Districtwide Equipment Transfer*	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	6,000,000
Equipment/Portables *	45,000	185,000	105,000	25,000	25,000	385,000
School Buses	9,784,500	9,080,480	1,278,385	399,938	274,624	20,817,927
Vehicles other than Buses	436,000	351,797	488,516	576,520	528,509	2,381,342
Subtotal Equipment and Vehicles (*Transfer to General)	12,363,825	11,024,232	3,160,454	2,325,116	2,173,981	31,047,608

Project	FY 2017 2018	FY 2018 2019	FY 2019 2020	FY 2020 2021	FY 2021 2022	Five Year Total
Planning and Staff Support						
Building & Equipment Maintenance Staff	10,878,538	11,158,825	11,447,465	11,745,311	12,069,314	57,299,453
Facilities Staff	1,435,868	1,475,488	1,516,297	1,558,329	1,601,622	7,587,604
Other Capital Staff	600,411	617,018	634,117	651,732	669,875	3,173,153
Permitting Services	135,000	135,000	135,000	175,000	175,000	755,000
Printing Services	18,000	18,000	18,000	50,000	50,000	154,000
Professional Services Retainer-Engineer/Architect/Other	90,000	90,000	90,000	150,000	150,000	570,000
Site/Facility Testing	45,000	45,000	45,000	100,000	100,000	335,000
Subtotal Planning and Staff Support	13,202,817	13,539,331	13,885,879	14,430,372	14,815,811	69,874,210
Carry Forward/Debt Service/Insurance/Transfer/Contingency						
Carry Forward for Subsequent Years	118,538	122,803	135,391	2,758	160,813	540,303
Charter School Capital Flow Thru	565,000	565,000	565,000	565,000	565,000	2,825,000
Charter School Millage Share	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	15,000,000
Debt Service	43,900,000	43,900,000	34,300,000	35,700,000	36,800,000	194,600,000
Property Insurance	4,540,000	4,585,000	4,605,000	4,615,000	4,700,000	23,045,000
Reserve for Future Schools/Current Year	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	75,000,000
Reserve for Future Schools/Prior Years	51,335,000					51,335,000
Reserve for Future Vehicles	1,945,342					1,945,342
Self-Insured Retention/Current Year	12,000,000	9,000,000	9,000,000	9,000,000	9,000,000	48,000,000
Self-Insured Retention/Prior Year	15,000,000					15,000,000
Transfer to General Maintenance	4,025,000	4,125,000	4,225,000	4,325,000	4,425,000	21,125,000
Subtotal Carry Forward/Debt Service/Insurance/Transfer/Contingency	151,428,880	80,297,803	70,830,391	72,207,758	73,650,813	448,415,645
Subtotal Other Items	204,884,052	120,164,993	103,403,162	114,944,598	106,063,805	649,460,610
Total Projects	261,030,052	154,328,993	168,167,162	174,924,598	267,129,805	1,025,580,610

Summary of Estimated Revenue

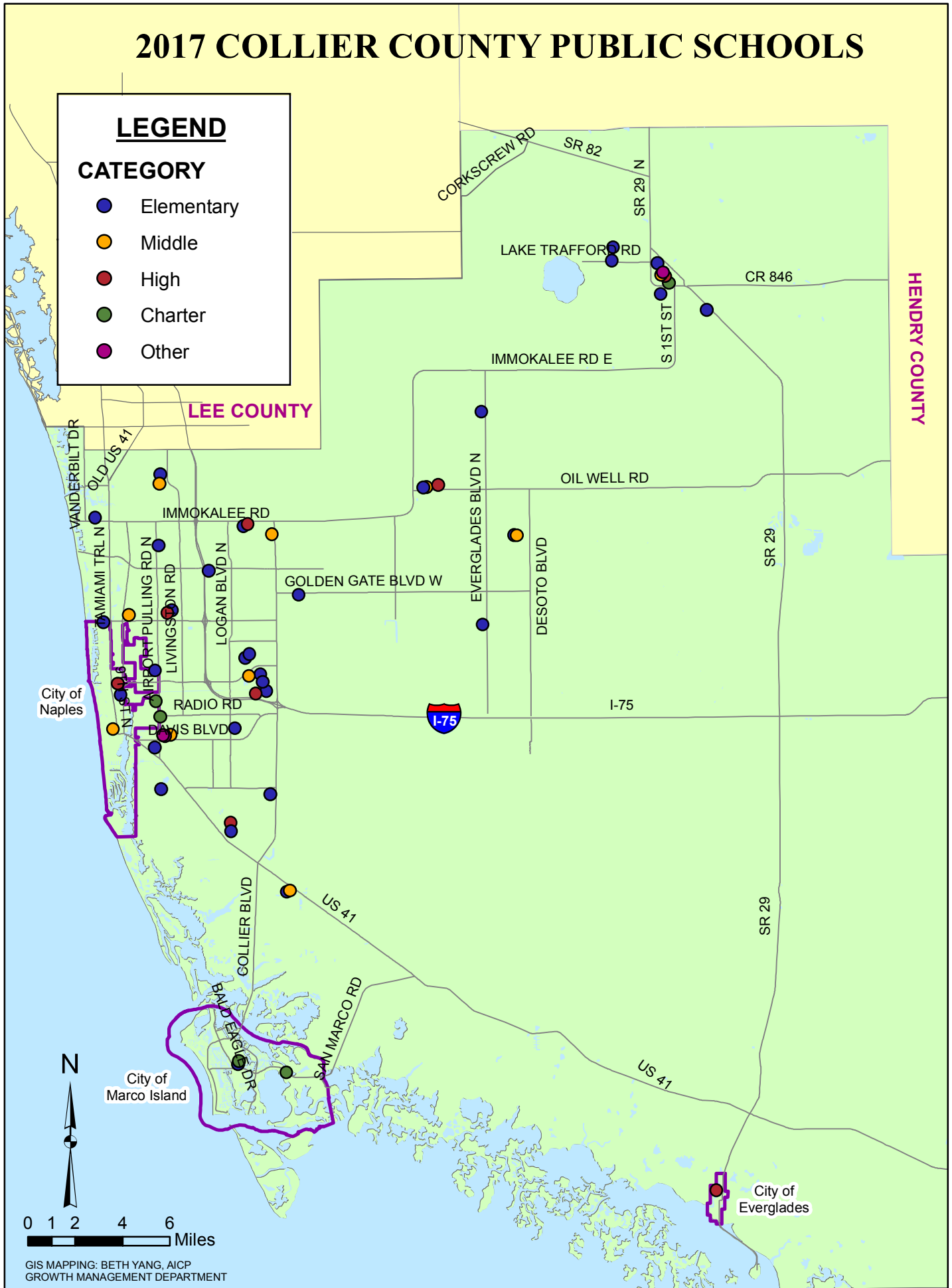
Estimated Revenue	FY 2017 2018	FY 2018 2019	FY 2019 2020	FY 2020 2021	FY 2021 2022	Five Year Total
Local Sources						
Impact Fees	14,000,000	14,000,000	14,000,000	14,000,000	14,000,000	70,000,000
Interest Income	850,000	850,000	850,000	850,000	850,000	4,250,000
Capital Improvement Tax	127,544,400	136,824,912	146,658,816	157,403,664	168,741,504	737,173,296
Beginning Balance	34,600,000	118,538	122,803	135,391	2,758	34,979,490
Other	12,000	12,000	12,000	12,000	12,000	60,000
Future School Reserve Usage			4,000,000		81,000,000	85,000,000
Future Vehicle Reserve Usage	300,000	300,000	300,000	300,000	300,000	1,500,000
CFWD of Designated Reserves	81,500,109					81,500,109
Subtotal Local Sources	258,806,509	152,105,450	165,943,619	172,701,055	264,906,262	1,014,462,895
State						
CO & DS	558,543	558,543	558,543	558,543	558,543	2,792,715
PECO Maint.	1,100,000	1,100,000	1,100,000	1,100,000	1,100,000	5,500,000
Charter Capital Flow Thru	565,000	565,000	565,000	565,000	565,000	2,825,000
Subtotal State	2,223,543	2,223,543	2,223,543	2,223,543	2,223,543	11,117,715
Total	261,030,052	154,328,993	168,167,162	174,924,598	267,129,805	1,025,580,610

2017 COLLIER COUNTY PUBLIC SCHOOLS

LEGEND

CATEGORY

- Elementary
- Middle
- High
- Charter
- Other



COUNTY PARKS AND RECREATION FACILITIES

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2017 AUIR SUMMARY
COMMUNITY AND REGIONAL PARK LANDS

Facility Type: Community and Regional Park Land (Category A)

Level of Service Standards (LOSS): 1.2 acres per 1,000/population (Community)
 2.7 acres per 1,000/population (Regional)

Unit Costs: \$119,947 per acre* (Community)
 \$504,450 per acre* (Regional)

Community Parks: Using the Peak Season population for unincorporated area of the County, the following is set forth:

	<u>Acres</u>	<u>Value</u>
Available Inventory as of 9/30/2017	594.74	\$71,337,279
Required Inventory as of 9/30/2022	512.58 **	\$61,482,433
Proposed AUIR FY 2017/18-2021/22	<u>0.00</u>	<u>\$0</u>
5-year Surplus or (Deficit)	82.16	\$9,854,846

Regional Parks: Using the Countywide Peak Season population, the following is set forth:

Available Inventory as of 9/30/2017	1,237.87	\$624,443,522
Required Inventory as of 9/30/2022	1,282.24 ***	\$646,825,968
Proposed AUIR FY 2017/18-2021/22	<u>110.00</u> ****	<u>\$55,489,500</u>
5-year Surplus or (Deficit)	65.63	\$33,107,054

Expenditures

Proposed AUIR FY 17/18-21/22 (value of) Acquisitions	\$55,489,500
Debt Service Payments for 2011/2013 Bonds	<u>\$17,489,200</u>
Total Expenditures	\$72,978,700

Revenues

Impact Fees anticipated	\$44,135,000
Interest/Misc	\$520,000
Grant/Reimbursement	\$0
Available Cash for Future Projects/Payment of Debt Service	\$3,926,800
Proposed added value through commitments, leases and governmental transfers	<u>\$0</u>
Total Revenues	\$48,581,800

Surplus or (Deficit) Revenues (\$24,396,900)

Revenues needed to maintain existing LOSS none

Recommendation:

That the BCC approve the proposed Community and Regional Park Lands AUIR and adopt the CIE Update for FY 2017/18- FY 2021/22.

Notes:

* Community Park Land and Regional Park Land Unit Cost values are based on the 2017 Impact Fee Study Update

** Peak Season population for the unincorporated area of the County of 427,149 x 0.0012 LOSS
= 512.58 acres

*** Countywide Peak Season population of 474,904 x 0.0027 LOSS = 1,282.24 acres

**** **Proposed AUIR FY 2017/2018 - FY2021/2022**

The 110 acres Sports Complex

2017 AUIR

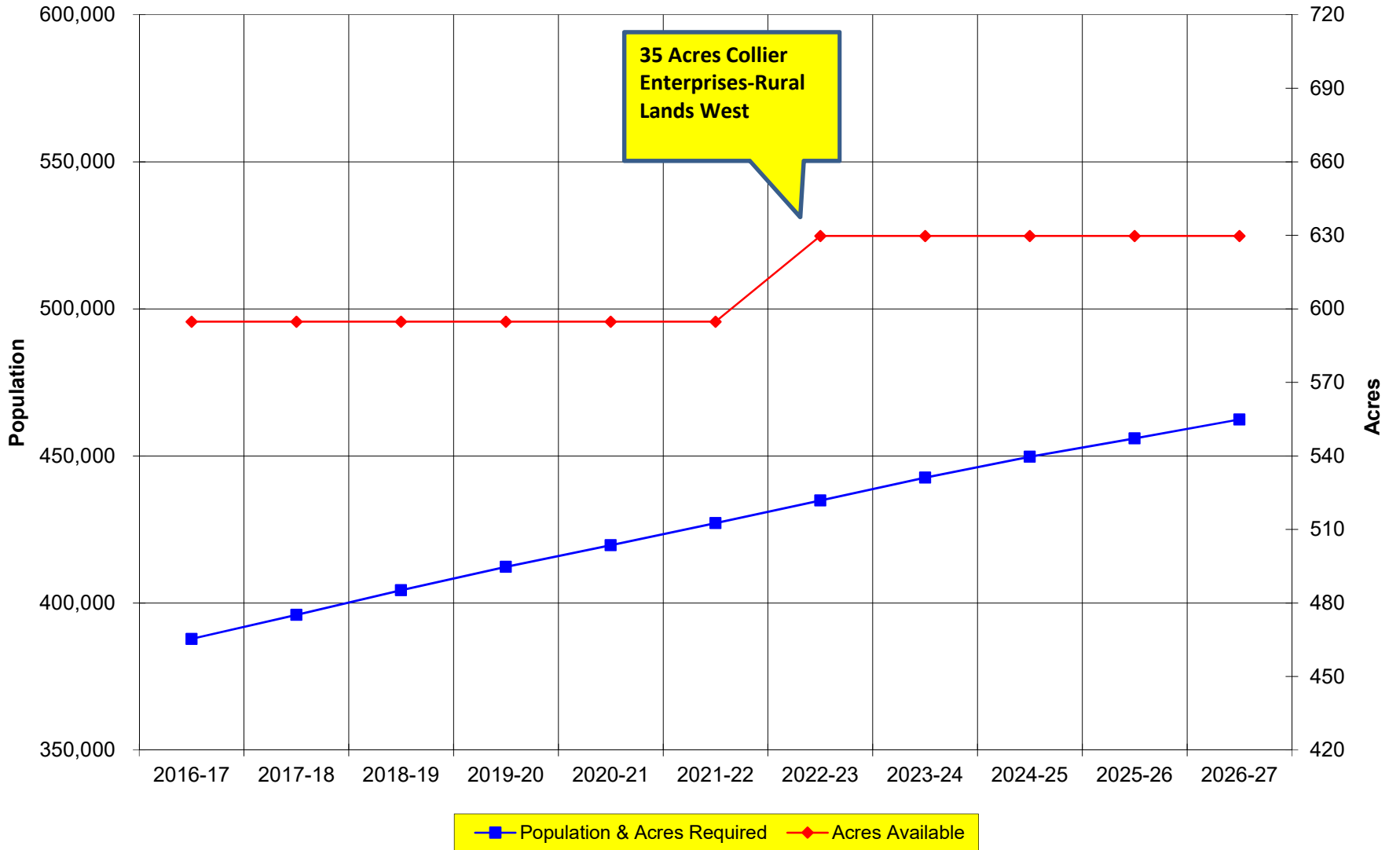
Community Park Acres
LOSS: 1.2 Acres/1000 Population

FISCAL YEAR	POPULATION UNINCORPORATED	PARK ACRES REQUIRED 0.0012000	PARK ACRES PLANNED IN AUIR	PARK ACRES AVAILABLE *	SURPLUS/ (DEFICIENCY)	REQUIRED COST AT \$119,947	TOTAL/VALUE AVAILABLE \$119,947
2016-17	387,748	465.30		594.74	129.44	\$55,811,339	\$71,337,279
2017-18	395,964	475.16		594.74	119.58	\$56,994,017	\$71,337,279
2018-19	404,353	485.22		594.74	109.52	\$58,200,683	\$71,337,279
2019-20	412,249	494.70		594.74	100.04	\$59,337,781	\$71,337,279
2020-21	419,631	503.56		594.74	91.18	\$60,400,511	\$71,337,279
2021-22	427,149	512.58		594.74	82.16	\$61,482,433	\$71,337,279
1st 5-Year Growth (2018-2022)	39,401	47.28	0.00				
2022-23	434,805	521.77	35.00	629.74	107.97	\$62,584,746	\$75,535,424
2023-24	442,603	531.12		629.74	98.62	\$63,706,251	\$75,535,424
2024-25	449,667	539.60		629.74	90.14	\$64,723,401	\$75,535,424
2025-26	455,971	547.17		629.74	82.57	\$65,631,400	\$75,535,424
2026-27	462,368	554.84		629.74	74.90	\$66,551,393	\$75,535,424
2nd 5-Year Growth (2023-2027)	35,219	42.26	35.00				
Total 10-Year Growth (2018-2027)	74,620	89.54	35.00				

Note:
2023/2023 35 Acres Collier Enterprise- Rural Lands West

2017 AUIR Community Park Acres, LOSS: 1.2 Acres / 1,000 Population

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Anticipated Changes in Community Park Land Inventory FY 17/18 to FY 26/27

FY	Action	Acquisition Type	Location	Acres	Value	Cash Expenditure
					\$119,947	
2017/18					\$0	
FY 17/18 TOTAL				0	\$0	\$0
2018/19					\$0	
FY 18/19 TOTAL				0	\$0	\$0
2019/20					\$0	\$0
FY 19/20 TOTAL				0	\$0	\$0
2020/21					\$0	
FY 20/21 TOTAL				0	\$0	\$0
2021/22					\$0	
FY 21/22 TOTAL				0	\$0	\$0
FY 17/18 TO FY 21/22 FIVE-YEAR SUBTOTAL				0	\$0	\$0
2022/23		Rural Lands West		35	\$4,198,145	
FY 22/23 TOTAL				35	\$4,198,145	\$0
2023/24					\$0	
FY 23/24 TOTAL				0	\$0	\$0
2024/25					\$0	
FY 24/25 TOTAL				0	\$0	\$0
2025/26					\$0	
FY 25/26 TOTAL				0	\$0	\$0
2026/27					\$0	
FY 26/27 TOTAL				0	\$0	\$0
FY 22/23 TO FY 26/27 FIVE-YEAR SUBTOTAL				35	\$4,198,145	\$0
FY 17/18 TO FY 26/27 TEN-YEAR TOTAL				35	\$4,198,145	\$0

2017 AUIR

Regional Park Land Acres

LOSS: 2.7 Acres / 1000 Population

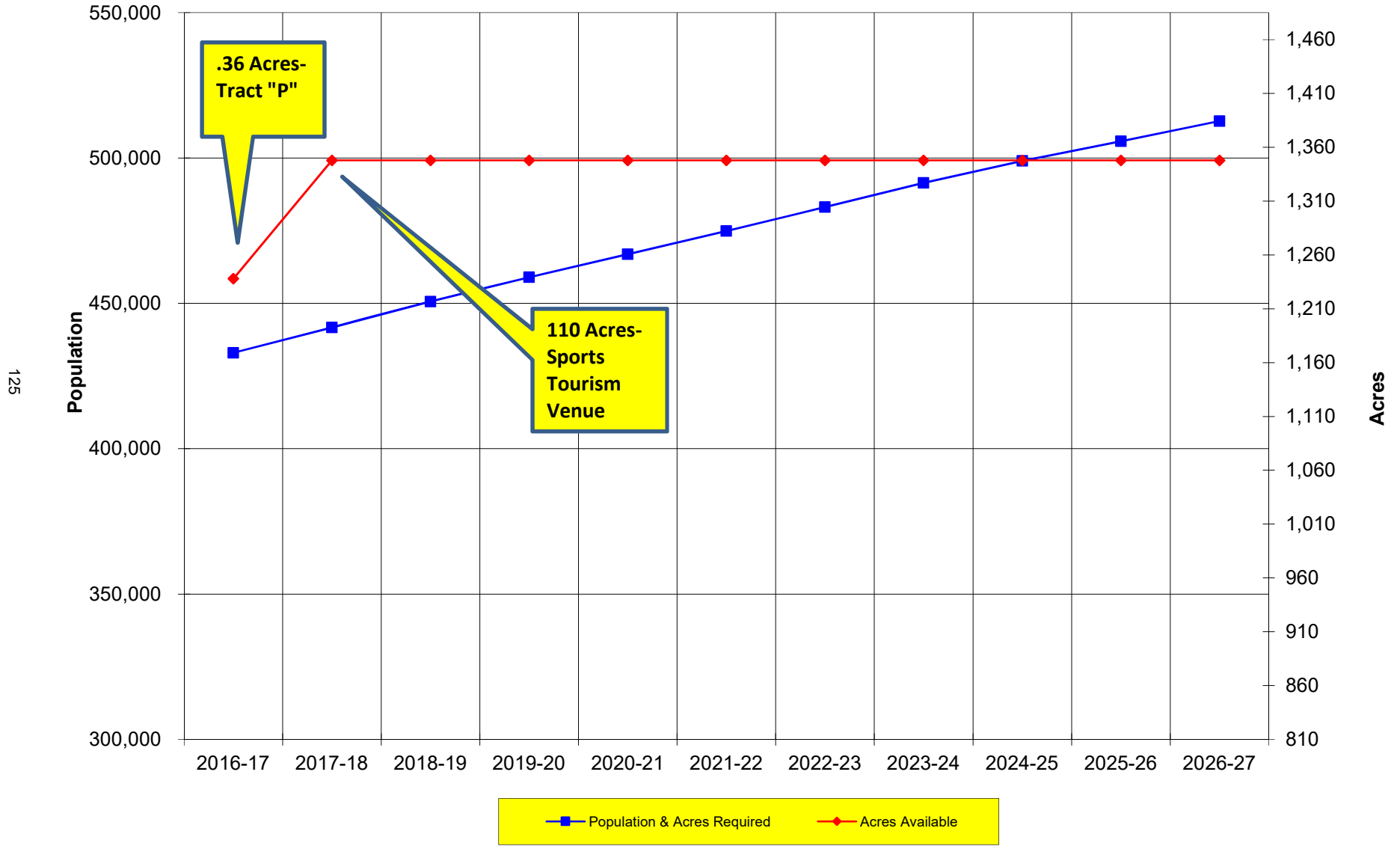
FISCAL YEAR	POPULATION CO-WIDE	FACILITIES REQUIRED 0.0027000	FACILITIES PLANNED IN AUIR	PARK ACRES AVAILABLE*	PARK ACRES SURPLUS/ (DEFICIENCY)	REQUIRED COST AT \$504,450	TOTAL/VALUE AVAILABLE \$504,450
2016-17	432,990	1,169.07	0.36	1,237.87	68.80	\$589,737,362	\$624,443,522
2017-18	441,688	1,192.56	110.00	1,347.87	155.31	\$601,586,892	\$679,933,022
2018-19	450,560	1,216.51	0.00	1,347.87	131.36	\$613,668,470	\$679,933,022
2019-20	458,959	1,239.19	0.00	1,347.87	108.68	\$625,109,396	\$679,933,022
2020-21	466,863	1,260.53	0.00	1,347.87	87.34	\$635,874,359	\$679,933,022
2021-22	474,904	1,282.24	0.00	1,347.87	65.63	\$646,825,968	\$679,933,022
1st 5-Year Growth (2018-2022)	41,914	113.17	110.00				
2022-23	483,083	1,304.32	0.00	1,347.87	43.55	\$657,964,224	\$679,933,022
2023-24	491,404	1,326.79	0.00	1,347.87	21.08	\$669,299,216	\$679,933,022
2024-25	498,986	1,347.26	0.00	1,347.87	0.61	\$679,625,307	\$679,933,022
2025-26	505,805	1,365.67	0.00	1,347.87	(17.80)	\$688,912,232	\$679,933,022
2026-27	512,717	1,384.34	0.00	1,347.87	(36.47)	\$698,330,313	\$679,933,022
2nd 5-Year Growth (2023-2027)	37,813	102.10	0.00				
Total 10-Year Growth (2018-2027)	79,727	215.26	110.00				

Note:

2016/2017: .36 Acres Tract "P"

2017/2018: 100 Acres Sport Tourism Venue

2017 AUIR Regional Park Acres, LOSS: 2.7 Acres/1000 Population



Anticipated Changes in Regional Park Land Inventory FY 17/18 to FY 26/27

FY	Action	Acquisition Type	Location	Acres	Value	Cash Expenditure
					\$504,450	
2017/18		Sport Tourism		110.00	\$55,489,500	
				FY 17/18 TOTAL	110.00	\$55,489,500
2018/19					\$0	
				FY 18/19 TOTAL	0.00	\$0
2019/20					\$0	
				FY 19/20 TOTAL	0.00	\$0
2020/21					\$0	
				FY 20/21 TOTAL	0.00	\$0
2021/22					\$0	
				FY 21/22 TOTAL	0.00	\$0
				FY 17/18 TO FY 21/22 FIVE-YEAR SUBTOTAL	110.00	\$55,489,500
2022/23				0.00	\$0	
				FY 22/23 TOTAL	0.00	\$0
2023/24				0.00	\$0	
				FY 23/24 TOTAL	0.00	\$0
2024/25				0.00	\$0	
				FY 24/25 TOTAL	0.00	\$0
2025/26				0.00	\$0	
				FY 25/26 TOTAL	0.00	\$0
2026/27				0.00	\$0	
				FY 26/27 TOTAL	0.00	\$0
				FY 22/23 TO FY 26/27 FIVE-YEAR SUBTOTAL	0.00	\$0
				FY 17/18 TO FY 26/27 TEN-YEAR TOTAL	110.00	\$55,489,500

2017 Collier County Park Land Inventory

Commissioner District	District	Location	Type	Acreage	Community Park Acres	Regional Park Acres	Regional Park Pathway Acres	Neighborhood Park Acres	Notes
1	Marco	Caxambas Park	Regional	4.20		4.20			
1	Marco	Collier Blvd Boating Park	Regional	0.50		0.50			
1	Marco	Goodland Boating Park	Regional	5.00		5.00			
1	Marco	Isle of Capri Land Parcels	Neighborhood	0.11				0.11	
1	Marco	Isles of Capri NP	Neighborhood	0.15				0.15	
1	Marco	Isles of Capri Paddlecraft Park	Regional	9.00		9.00			
1	Marco	Mar Good Harbor Park	Regional	2.50		2.50			
1	Marco	South Marco Beach Access	Regional	5.00		5.00			
1	Marco	Tigertail Beach Park	Regional	31.60		31.60			
2	North Naples	Barefoot Beach Access	Regional	5.00		5.00			
2	North Naples	Barefoot Beach Preserve	Regional	159.60		159.60			
2	North Naples	Barefoot Beach State Land	Regional	186.00		186.00			
2	North Naples	Clam Pass Park	Regional	35.00		35.00			
2	North Naples	Cocohatchee River Park	Regional	7.56		7.56			
2	North Naples	Conner Park	Regional	5.00		5.00			2016/17 .36 acres Tract "P"
2	North Naples	Naples Park Elementary	Community	5.00	5.00				
2	North Naples	North Collier RP	Regional	207.70		207.70			
4	North Naples	North Gulfshore Beach Access	Regional	0.50		0.50			
2	North Naples	North Naples NP (Best Friends-surplus)	Neighborhood						
3	North Naples	Oakes NP	Neighborhood	2.00				2.00	
2	North Naples	Osceola Elementary	Community	3.20	3.20				
2	North Naples	Palm River NP	Neighborhood	3.00				3.00	
2	North Naples	Pelican Bay CP	Community	15.00	15.00				
4	North Naples	Poinciana NP	Neighborhood	0.30				0.30	
2	North Naples	Vanderbilt Beach	Regional	5.00		5.00			
2	North Naples	Veterans CP	Community	43.64	43.64				
2	North Naples	Veterans Memorial Elementary	Community	4.00	4.00				
3	North Naples	Vineyards CP	Community	35.50	35.50				
2	North Naples	Willoughby Park	Neighborhood	1.20				1.20	
3	Golden Gate	Aaron Lutz NP	Neighborhood	3.20				3.20	
4	Golden Gate	Coconut Circle NP	Neighborhood	1.20				1.20	
3	Golden Gate	Golden Gate Community Center	Community	21.00	21.00				
3	Golden Gate	Golden Gate CP	Community	35.00	35.00				
3	Golden Gate	Golden Gate Greenway / Pathway	Community	3.00	3.00				
3	Golden Gate	Palm Springs NP	Neighborhood	6.70				6.70	
3	Golden Gate	Rita Eaton NP	Neighborhood	4.80				4.80	
4	East Naples	Bay Street Land Parcels	Regional	1.34		1.34			
4	East Naples	Bayview Park	Regional	6.27		6.27			
1	East Naples	Cindy Mysels CP	Community	5.00	5.00				
4	East Naples	East Naples CP	Community	47.00	47.00				
1	East Naples	Naples Manor NP	Neighborhood	0.30				0.30	
4	East Naples	Sugden RP	Regional	120.00		120.00			
1	South Naples	Eagle Lakes CP	Community	32.00	32.00				
1	South Naples	Manatee CP	Community	60.00	60.00				
1	South Naples	Panther NP	Neighborhood	0.50				0.50	
1	South Naples	Port of The Islands	Regional	5.55		5.55			
4	Central Naples	Fred W. Coyle Freedom Park	Regional	25.16		25.16			
4	Central Naples	Gordon River Greenway Park	Regional	79.00		79.00			
4	Central Naples	Naples Zoo	Regional	50.00		50.00			
1	Central Naples	Rock Harbor Parcels	Neighborhood	0.10				0.10	
5	Immokalee	Airport Park	Community	19.00	19.00				
5	Immokalee	Ann Oleski Park	Regional	2.30		2.30			
5	Immokalee	Dreamland NP - *School fenced in area	Neighborhood	0.50				0.50	
5	Immokalee	Eden Park Elementary	Community	2.80	2.80				
5	Immokalee	Immokalee CP	Community	23.00	23.00				
5	Immokalee	Immokalee High School	Community	1.00	1.00				
5	Immokalee	Immokalee Sports Complex	Community	14.00	14.00				
5	Immokalee	Immokalee South Park	Community	3.20	3.20				
5	Immokalee	Oil Well Park	Neighborhood	5.50				5.50	
5	Immokalee	Pepper Ranch	Regional	50.00		50.00			
5	Immokalee	Tony Rosbough CP	Community	7.00	7.00				
5	Urban Estates	Big Corkscrew Island RP	Regional	62.00		62.00			
5	Urban Estates	Big Corkscrew Island RP - Lake	Regional	90.00		90.00			
5	Urban Estates	Corkscrew Elementary/Middle	Community	16.90	16.90				
5	Urban Estates	Livingston Woods NP (surplus)	Neighborhood						
5	Urban Estates	Max A Hasse CP	Community	20.00	20.00				
5	Urban Estates	Palmetto Elementary	Community	2.00	2.00				
5	Urban Estates	Randall Curve Property	Community	47.00	47.00				
1	Urban Estates	Rich King Greenway - (FPL)	Regional	37.50			37.50		
5	Urban Estates	Sabal Palm Elementary	Community	9.50	9.50				
5	Urban Estates	Vanderbilt Extension CP	Community	120.00	120.00				
		Total Collier Units	71	1,822.58	594.74	1,160.78	37.50	29.56	

2017 Collier County Park Land Inventory

District	Location	Type	Acreage	Community Park Acres	Regional Park Acres	Regional Park Pathway Acres	Neighborhood Park Acres
City of Naples	Beach Accesses	Regional	0.50		0.50		
City of Naples	Naples Landings	Regional	3.81		3.81		
City of Naples	Fleischmann Park	Community	25.26				
City of Naples	Cambier Park	Community	12.84				
City of Naples	Baker Park	Regional	15.20		15.20		
City of Naples	Lowdermilk Park	Regional	10.30		10.30		
City of Naples	River Park CC	Community	1.61				
City of Naples	Naples Preserve	Regional	9.78		9.78		
City of Naples	Anthony Park	Neighborhood	7.00				
	Total Naples Units		86.30		39.59		
City of Marco Island	Jane Hittler	Neighborhood	0.25				
City of Marco Island	Veterans' Memorial	Neighborhood	0.25				
City of Marco Island	Leigh Plummer	Neighborhood	3.50				
City of Marco Island	Racquet Center	Community	2.97				
City of Marco Island	Frank Mackle	Community	30.00				
City of Marco Island	Winterberry	Neighborhood	5.00				
	Total Marco Units		41.97				
Everglades City	Community Park	Community	0.86				
Everglades City	McLeod Park	Community	1.04				
	Total Everglades Units		1.90				
	Total Units		1,952.75	594.74	1,237.87		29.56

Totals	Acreage	Community Park Acres	Regional Park Acres	Neighborhood Park Acres
Value per Unit		\$119,947	\$504,450	
Total Value	\$695,780,800	\$71,337,279	\$624,443,522	

Notes: Only acreage within municipalities that have regional park type designations are inventoried for purposes of the AUIR
 Park land and amenities located in Private communities are taken into consideration when planning new parks and facilities but cannot be counted as inventory due to lack of public access

Summary of Changes in Parks and Recreation Inventory FY 16 to FY 17

Community Park Land Changes

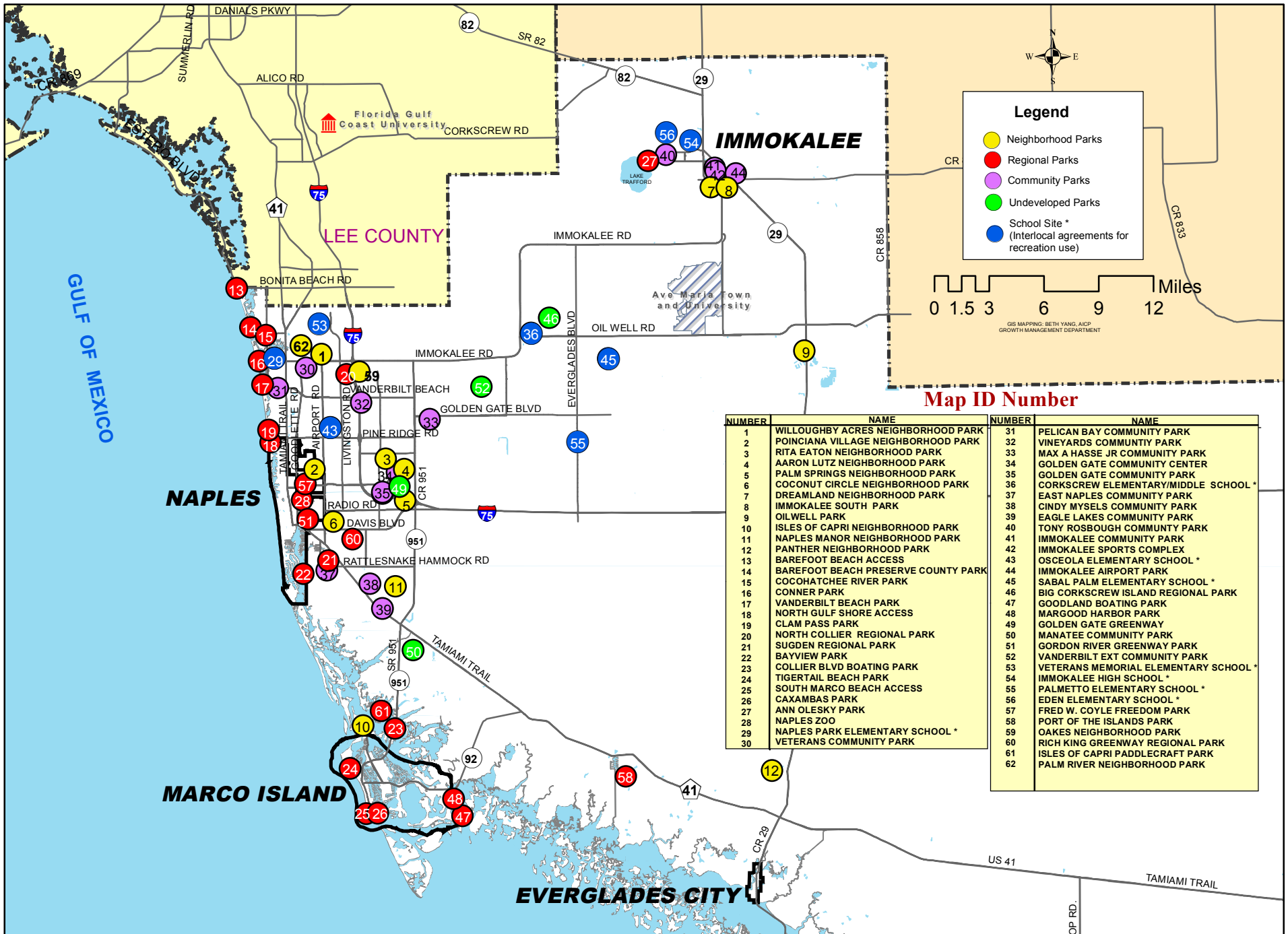
Action	Location	Acres	Explanation
NET CHANGE TO COMMUNITY PARK ACREAGE		0	

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Regional Park Land Changes

Action	Location	Acres	Explanation
Add	Tract "P"	0.36	
NET CHANGE TO REGIONAL PARK ACREAGE		0.36	

2017 PARKS INVENTORY



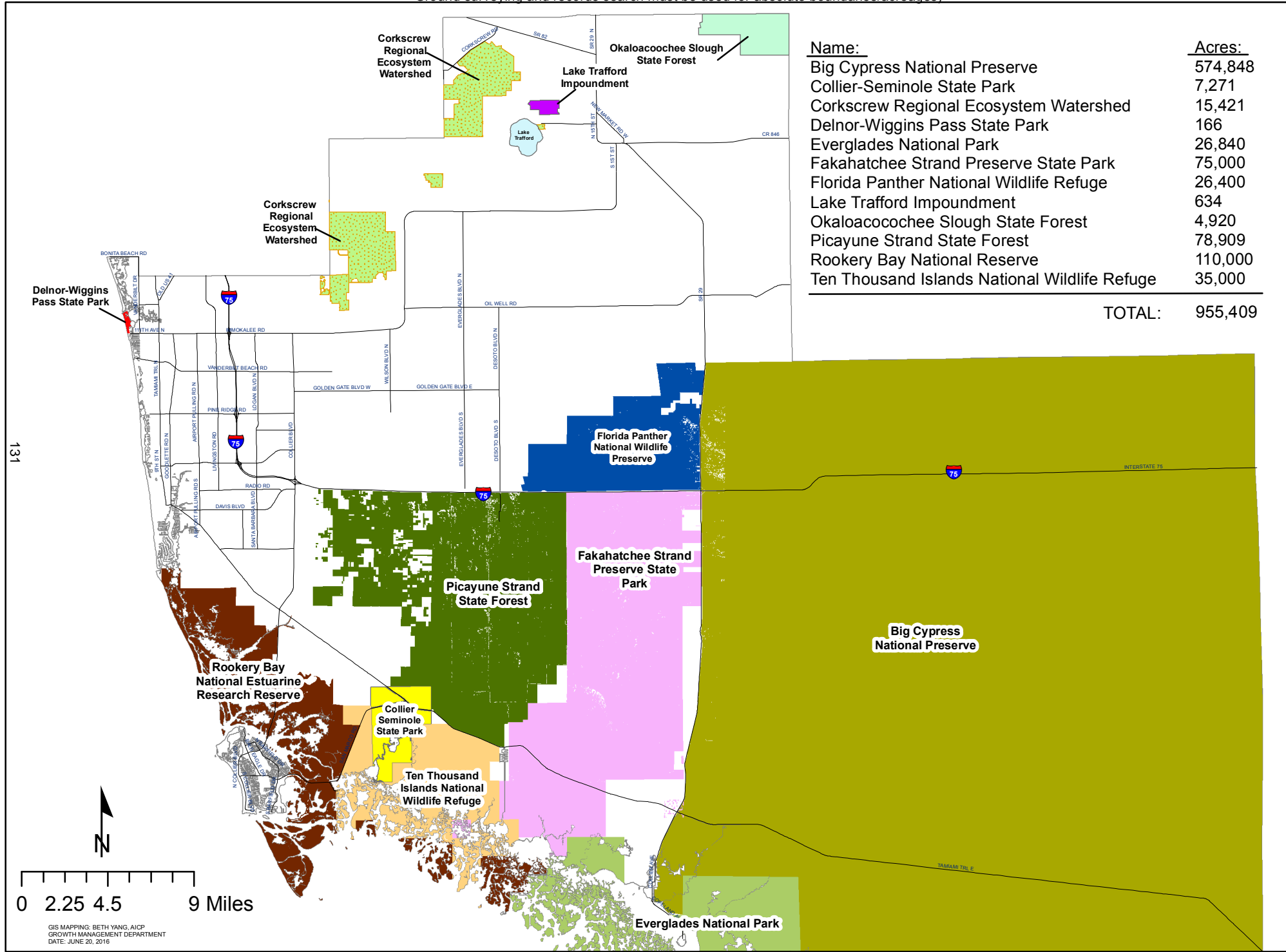
Map ID Number

NUMBER	NAME	NUMBER	NAME
1	WILLOUGHBY ACRES NEIGHBORHOOD PARK	31	PELICAN BAY COMMUNITY PARK
2	POINCIANA VILLAGE NEIGHBORHOOD PARK	32	VINEYARDS COMMUNITY PARK
3	RITA EATON NEIGHBORHOOD PARK	33	MAX A HASSE JR COMMUNITY PARK
4	AARON LUTZ NEIGHBORHOOD PARK	34	GOLDEN GATE COMMUNITY CENTER
5	PALM SPRINGS NEIGHBORHOOD PARK	35	GOLDEN GATE COMMUNITY PARK
6	COCONUT CIRCLE NEIGHBORHOOD PARK	36	CORKSCREW ELEMENTARY/MIDDLE SCHOOL *
7	DREAMLAND NEIGHBORHOOD PARK	37	EAST NAPLES COMMUNITY PARK
8	IMMOKALEE SOUTH PARK	38	CINDY MYSELS COMMUNITY PARK
9	OILWELL PARK	39	EAGLE LAKES COMMUNITY PARK
10	ISLES OF CAPRI NEIGHBORHOOD PARK	40	TONY ROSBOUGH COMMUNITY PARK
11	NAPLES MANOR NEIGHBORHOOD PARK	41	IMMOKALEE COMMUNITY PARK
12	PANTHER NEIGHBORHOOD PARK	42	IMMOKALEE SPORTS COMPLEX
13	BAREFOOT BEACH ACCESS	43	OSCEOLA ELEMENTARY SCHOOL *
14	BAREFOOT BEACH PRESERVE COUNTY PARK	44	IMMOKALEE AIRPORT PARK
15	COCOHATCHEE RIVER PARK	45	SABAL PALM ELEMENTARY SCHOOL *
16	CONNOR PARK	46	BIG CORKSCREW ISLAND REGIONAL PARK
17	VANDERBILT BEACH PARK	47	GOODLAND BOATING PARK
18	NORTH GULF SHORE ACCESS	48	MARGOOD HARBOR PARK
19	CLAM PASS PARK	49	GOLDEN GATE GREENWAY
20	NORTH COLLIER REGIONAL PARK	50	MANATEE COMMUNITY PARK
21	SUGDEN REGIONAL PARK	51	GORDON RIVER GREENWAY PARK
22	BAYVIEW PARK	52	VANDERBILT EXT COMMUNITY PARK
23	COLLIER BLVD BOATING PARK	53	VETERANS MEMORIAL ELEMENTARY SCHOOL *
24	TIGERTAIL BEACH PARK	54	IMMOKALEE HIGH SCHOOL *
25	SOUTH MARCO BEACH ACCESS	55	PALMETTO ELEMENTARY SCHOOL *
26	CAXAMBAS PARK	56	EDEN ELEMENTARY SCHOOL *
27	ANN OLESKY PARK	57	FRED W. COYLE FREEDOM PARK
28	NAPLES ZOO	58	PORT OF THE ISLANDS PARK
29	NAPLES PARK ELEMENTARY SCHOOL *	59	OAKES NEIGHBORHOOD PARK
30	VETERANS COMMUNITY PARK	60	RICH KING GREENWAY REGIONAL PARK
		61	ISLES OF CAPRI PADDLECRRAFT PARK
		62	PALM RIVER NEIGHBORHOOD PARK



FEDERAL AND STATE OWNED PARK LAND

(Disclaimer: The information provided is to be used for general mapping purposes only. Ground surveying and records search must be used for absolute boundaries/acreages)



Name:	Acre:
Big Cypress National Preserve	574,848
Collier-Seminole State Park	7,271
Corkscrew Regional Ecosystem Watershed	15,421
Delnor-Wiggins Pass State Park	166
Everglades National Park	26,840
Fakahatchee Strand Preserve State Park	75,000
Florida Panther National Wildlife Refuge	26,400
Lake Trafford Impoundment	634
Okaloacocochee Slough State Forest	4,920
Picayune Strand State Forest	78,909
Rookery Bay National Reserve	110,000
Ten Thousand Islands National Wildlife Refuge	35,000
TOTAL:	955,409

CAPITAL IMPROVEMENT ELEMENT (CIE) AMENDMENT SUBMITTALS FOR CATEGORY “A” FACILITIES

CONTENTS

- **EXHIBIT “A”, SCHEDULE OF CAPITAL IMPROVEMENTS FOR NEXT 5 FISCAL YEARS**
- **APPENDIX “H”, SCHEDULE OF CAPITAL IMPROVEMENTS FOR FUTURE FISCAL YEARS 6 – 10**

Updates and Amendments to the Capital Improvement Element

The Annual Update and Inventory Report includes updates to the Capital Improvement Element of the Growth Management Plan needed to eliminate existing deficiencies, replace obsolete or worn out facilities, and make available adequate facilities for future growth. These updates include the two following tables and two Collier County Public School District planning documents as provided for in Policy 4.2 of the Capital Improvement Element.

What follows as Exhibit A is the Schedule of Capital Improvements for the next five year period [Fiscal years 2018 through 2022]. Exhibit A is a component of the Capital Improvement Element and indicates the County's needs for arterial and collector roads and bridge facilities, parks and recreation facilities, stormwater management system, potable water system, solid waste disposal facilities, and wastewater collection and treatment system improvements – all Category "A" facilities subject to concurrency. Public schools are also Category "A" facilities, and planning for public schools over the next five year period is provided by the financially feasible five-year project programming in the Collier County Public School District *Capital Improvement Plan for Fiscal Years 2018 through 2037* that is incorporated by reference in the Capital Improvement Element. School planning for this period is also provided by the Collier County Public School District *Facilities Work Program*, as incorporated into the Capital Improvement Element as data and analysis.

What follows as Appendix H is the Schedule of Capital Improvements for the future five year period [Fiscal years 2023 through 2027]. Appendix H supplements the Capital Improvement Element for long term facilities planning of the same Category "A" facilities. Long term planning for public schools is provided by the Collier County Public School District *Capital Improvement Plan for Fiscal Years 2018 through 2037*.

Each Schedule of Capital Improvements table represents the revenue sources and expenditures for Category "A" public facilities to maintain the levels of service standards established by the Capital Improvement Element. These updated tables, together with updated references to School District documents and their incorporation into the Capital Improvement Element as data and analysis, constitute the amendments to the Capital Improvement Element.

EXHIBIT "A"
COLLIER COUNTY SCHEDULE OF CAPITAL IMPROVEMENTS
 FISCAL YEARS 2018-2022

ARTERIAL & COLLECTOR ROADS AND BRIDGE PROJECTS								
PROJECT No.	PROJECT	CAPITAL IMPROVEMENT SCHEDULE NOTES	\$ AMOUNT FY 2018	\$ AMOUNT FY 2019	\$ AMOUNT FY 2020	\$ AMOUNT FY 2021	\$ AMOUNT FY 2022	\$ AMOUNT TOTAL
60144	Oil Well Rd - Everglades Blvd to Oil Well Grade	Advanced Construction	\$820,000	\$300,000	\$300,000	\$300,000	\$300,000	\$2,020,000
60168	Vanderbilt Beach Rd - Collier Blvd to 8th St	R/D 18, R/M 19, C 21	\$5,700,000	\$19,920,000	\$0	\$61,050,000	\$0	\$86,670,000
60200	Goodland Rd (CR 92A) Improvements	D 18, C 20	\$500,000		\$3,000,000			\$3,500,000
60129	Wilson / Benfield Extension - Lord's Way to City Gate N	C 18, R 21-22	\$428,000			\$1,000,000	\$1,000,000	\$2,428,000
TBD	Orange Blossom - Airport Rd to Livingston Blvd	S 18, R 19, R/A 21, A 22	\$200,000	\$600,000		\$4,000,000	\$2,450,000	\$7,250,000
TBD	Airport Rd - Vanderbilt Beach Rd to Immokalee Rd	D 21, A 22				\$3,000,000	\$10,000,000	\$13,000,000
TBD	Big Corkscrew Park Access Rd	Construction	\$0	\$1,000,000	\$0	\$0	\$0	\$1,000,000
60201	Pine Ridge Rd - Airport Rd to Livingston Blvd	S/R 19, A 21-22	\$0	\$250,000	\$0	\$5,000,000	\$2,450,000	\$7,700,000
60145	Golden Gate Blvd - 20th St to Everglades Blvd	Design, Construction	\$23,000,000	\$0	\$0	\$0	\$0	\$23,000,000
60148	Airport Rd/Davis Blvd Intersection	ROW Acquisition, Construction	\$500,000	\$0	\$0	\$0	\$0	\$500,000
60198	Veterans Memorial	R 18, A 19-21, C 22	\$300,000	\$2,000,000	\$2,900,000	\$2,000,000	\$2,500,000	\$9,700,000
60199	Vanderbilt Beach Rd - US 41 to E of Goodlette	Design 18, Construction 20	\$300,000		\$5,200,000	\$0		\$5,500,000
60147	Randall/Immokalee Roads Intersection	D 19, R 20, C 22	\$0	\$650,000	\$500,000	\$0	\$6,000,000	\$7,150,000
60213	St Andrews Intersection Improvement	Design, Construction	\$500,000					\$500,000
TBD	16th St Bridge (LAP)	D/M 19, C 21		\$900,000		\$8,000,000		\$8,900,000
TBD	47th St Bridge (LAP)	R 18, D/M 20, C 22	\$200,000	\$0	\$900,000	\$0	\$8,800,000	\$9,900,000
TBD	Whippoorwill	C 22					\$3,000,000	\$3,000,000
	Contingency		\$10,870,000	\$0	\$5,133,000	\$0	\$0	\$16,003,000
Sbttl	Operations Improvements/Programs		\$17,053,000	\$34,650,000	\$17,250,000	\$17,000,000	\$18,000,000	\$103,953,000
60037	Asset Management		\$250,000	\$100,000	\$100,000	\$100,000	\$100,000	\$650,000
60171	Multi Project		\$0	\$50,000	\$50,000	\$50,000	\$50,000	\$200,000
	Transfers to Other Funds (309)		\$0	\$0	\$0	\$0	\$0	\$0
	Impact Fee Refunds		\$170,000	\$400,000	\$400,000	\$400,000	\$400,000	\$1,770,000
	Debt Service Payments		\$13,136,000	\$13,132,000	\$13,137,000	\$13,134,000	\$13,131,000	\$65,670,000
	ARTERIAL & COLLECTOR ROADS AND BRIDGE PROJECT TOTALS		\$73,927,000	\$73,952,000	\$48,870,000	\$115,034,000	\$68,181,000	\$379,964,000

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REVENUE KEY - REVENUE SOURCE	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	TOTAL
IF - Impact Fees / COA Revenue	\$13,000,000	\$13,500,000	\$14,000,000	\$14,500,000	\$15,000,000	\$70,000,000
Unfunded Needs	\$1,000,000	\$24,557,000	\$0	\$63,189,000	\$16,361,000	\$105,107,000
GA - Gas Tax Revenue	\$21,390,000	\$21,390,000	\$21,390,000	\$21,390,000	\$21,390,000	\$106,950,000
GR - Grants / Reimbursements	\$0	\$0	\$0	\$1,500,000	\$0	\$1,500,000
CF - Available Cash for Future Projects/Payment of Debt Service	\$25,149,000	\$0	\$0	\$0	\$0	\$25,149,000
GF - General Fund 001	\$10,650,000	\$11,500,000	\$10,500,000	\$10,500,000	\$10,500,000	\$53,650,000
IN - Interest Revenue - Fund 313 Gas Tax & Impact Fees	\$458,000	\$450,000	\$450,000	\$450,000	\$450,000	\$2,258,000
TR - MSTU General Fund 111 Transfers	\$4,000,000	\$4,300,000	\$4,300,000	\$5,300,000	\$6,300,000	\$24,200,000
RR - Revenue Reduction (less 5% required by law)	(\$1,720,000)	(\$1,745,000)	(\$1,770,000)	(\$1,795,000)	(\$1,820,000)	(\$8,850,000)
REVENUE TOTAL	\$73,927,000	\$73,952,000	\$48,870,000	\$115,034,000	\$68,181,000	\$379,964,000

CUMMULATIVE FOR FY22 CAPITAL FUNDING	\$0	\$0	\$0	\$0	\$0	\$0
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EXHIBIT "A"
COLLIER COUNTY SCHEDULE OF CAPITAL IMPROVEMENTS
 FISCAL YEARS 2018-2022

PARKS & RECREATION FACILITIES PROJECTS								
		CAPITAL IMPROVEMENT	\$ VALUE	\$ VALUE	\$ VALUE	\$ VALUE	\$ VALUE	\$ VALUE
PROJECT No.	PROJECT	SCHEDULE NOTES	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	TOTAL
	110 Acres – Sports Tourism Venue		\$55,489,500	\$0	\$0	\$0	\$0	\$55,489,500
	Fund 345 Debt Service (2011/2013 Bonds)		\$150,000	\$0	\$0	\$0	\$0	\$150,000
	Fund 346 Debt Service (2013 Bond)		\$123,500	\$123,500	\$123,500	\$123,500	\$185,300	\$679,300
	Fund 346 Debt Service (2011 Bond)		\$2,666,100	\$2,819,700	\$2,816,000	\$2,824,500	\$5,533,600	\$16,659,900
	PARKS & RECREATION FACILITIES PROJECT TOTALS		\$58,429,100	\$2,943,200	\$2,939,500	\$2,948,000	\$5,718,900	\$72,978,700

REVENUE KEY - REVENUE SOURCE	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	TOTAL
IF - Impact Fees / COA Revenue	\$8,500,000	\$8,671,700	\$8,834,100	\$8,986,900	\$9,142,300	\$44,135,000
DIF - Deferred Impact Fees	\$0	\$0	\$0	\$0	\$0	\$0
GR - Grants / Reimbursements	\$0	\$0	\$0	\$0	\$0	\$0
IN - Interest / Misc.	\$104,000	\$104,000	\$104,000	\$104,000	\$104,000	\$520,000
RR - Revenue Reduction (<i>less 5% required by law</i>)	\$0	\$0	\$0	\$0	\$0	\$0
CF - Available Cash for Future Projects/Payment of Debt Service	\$3,926,800	\$0	\$0	\$0	\$0	\$3,926,800
TR - Added Value through Commitments, Leases & Transfers	\$0	\$0	\$0	\$0	\$0	\$0
GF - General Fund 001	\$0	\$0	\$0	\$0	\$0	\$0
REVENUE TOTAL	\$12,530,800	\$8,775,700	\$8,938,100	\$9,090,900	\$9,246,300	\$48,581,800

NOTE: Except for the Sports Tourism Venue acreage, all Community Park Land and Regional Park Land transactions are being facilitated through interdepartmental transfers exchanging land holdings for park lands, or using other methods not involving expenditure of capital funds. These transactions represent changes to the value of land holdings only.

EXHIBIT "A"
COLLIER COUNTY SCHEDULE OF CAPITAL IMPROVEMENTS
 FISCAL YEARS 2018-2022

STORMWATER MANAGEMENT SYSTEM PROJECTS								
		CAPITAL IMPROVEMENT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT
PROJECT No.	PROJECT	SCHEDULE NOTES	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	TOTAL
	Countywide Programs, Planning & Maintenance		\$550,000	\$750,000	\$800,000	\$850,000	\$850,000	\$3,800,000
	Infrastructure & Capacity Projects		\$7,075,000	\$8,850,000	\$9,100,000	\$9,700,000	\$11,700,000	\$46,425,000
	STORMWATER MANAGEMENT SYSTEM PROJECT TOTALS		\$7,625,000	\$9,600,000	\$9,900,000	\$10,550,000	\$12,550,000	\$50,225,000
	Stormwater Management Operating		\$0	\$0	\$0	\$0	\$0	\$0
	Debt Service / Reserves		\$0	\$35,000	\$35,000	\$35,000	\$35,000	\$140,000
	STORMWATER MANAGEMENT SYSTEM TOTAL PROGRAM COSTS		\$7,625,000	\$9,635,000	\$9,935,000	\$10,585,000	\$12,585,000	\$50,365,000

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REVENUE KEY - REVENUE SOURCE	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	TOTAL
GR - Grants / Reimbursements	\$1,550,000	\$0	\$0	\$0	\$0	\$1,550,000
BP/RESTORE Act	\$0	\$0	\$500,000	\$1,000,000	\$1,000,000	\$2,500,000
TR - Transfer from Naples Park Debt Service	\$12,000	\$0	\$0	\$0	\$0	\$12,000
CF - Available Cash for Future Projects/Payment of Debt Service	\$102,000	\$0	\$0	\$0	\$0	\$102,000
RR - Revenue Reduction <i>(less 5% required by law)</i>	(\$4,000)	(\$2,000)	(\$2,000)	(\$2,000)	(\$2,000)	(\$12,000)
IN - Interest Revenue - misc.	\$70,000	\$50,000	\$50,000	\$50,000	\$50,000	\$270,000
GF - General Fund (001)	\$1,627,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$9,627,000
GF - MSTU General Fund (111)	\$4,268,000	\$4,268,000	\$4,268,000	\$4,268,000	\$4,268,000	\$21,340,000
REVENUE TOTAL	\$7,625,000	\$6,316,000	\$6,816,000	\$7,316,000	\$7,316,000	\$35,389,000

EXHIBIT "A"
COLLIER COUNTY SCHEDULE OF CAPITAL IMPROVEMENTS
 FISCAL YEARS 2018-2022

POTABLE WATER SYSTEM PROJECTS								
		CAPITAL IMPROVEMENT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT
PROJECT No.	PROJECT	SCHEDULE NOTES	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	TOTAL
	Debt Service		\$8,935,000	\$8,712,000	\$8,491,000	\$8,490,000	\$7,922,000	\$42,550,000
	Expansion Related Projects		\$0	\$9,000,000	\$58,000,000	\$5,000,000	\$0	\$72,000,000
	Replacement & Rehabilitation Projects		\$21,275,000	\$21,040,000	\$25,895,000	\$21,325,000	\$21,510,000	\$111,045,000
	Departmental Capital		\$671,000	\$684,000	\$698,000	\$712,000	\$726,000	\$3,491,000
	Reserve for Contingencies – Replacement & Rehabilitation Projects		\$2,128,000	\$2,104,000	\$2,589,500	\$2,132,500	\$2,151,000	\$11,105,000
	POTABLE WATER SYSTEM PROJECT TOTALS		\$33,009,000	\$41,540,000	\$95,673,500	\$37,659,500	\$32,309,000	\$240,191,000

REVENUE KEY - REVENUE SOURCE			FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	TOTAL
WIF - Water System Development Fees / Impact Fees			\$7,300,000	\$7,300,000	\$7,300,000	\$7,300,000	\$7,300,000	\$36,500,000
RR - Reserve Reduction (less 5% required by law)			\$0	\$0	\$0	\$0	\$0	\$0
B - Bond Proceeds			\$0	\$0	\$58,000,000	\$0	\$0	\$58,000,000
LOC - Commercial Paper			\$0	\$0	\$0	\$0	\$0	\$0
SRF - State Revolving Fund Loans			\$0	\$9,000,000	\$0	\$5,000,000	\$0	\$14,000,000
WCA - Water Capital Account			\$671,000	\$684,000	\$698,000	\$712,000	\$726,000	\$3,491,000
REV - Rate Revenue			\$25,038,000	\$24,556,000	\$29,675,500	\$24,647,500	\$24,283,000	\$128,200,000
REVENUE TOTAL			\$33,009,000	\$41,540,000	\$95,673,500	\$37,659,500	\$32,309,000	\$240,191,000

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NOTE: Collier County has adopted a two-year Concurrency Management System. Figures provided for years three, four and five of this Schedule of Capital Improvements are not part of the Concurrency Management System but must be financially feasible with a dedicated revenue source or an alternative revenue source if the dedicated revenue source is not realized. Figures provided for years six through ten of the Schedule of Capital Improvements are estimates of revenues versus project costs but do not constitute a long term concurrency system. Revenue sources are estimates only; both the mix of sources and amounts will change when a rate study is completed.

DATA SOURCES:
 - Expansion Related and Replacement & Rehabilitation Projects:
 FY 2018 is obtained from the 2018 Proposed Budget.
 - Department Capital:
 FY 2018 is obtained from the 2018 Proposed Budget, split 50/50 between Water and Wastewater.
 FY 2019 to FY 2027 is a 2% increase over each fiscal year from FY 2019 through FY 2027 (pursuant to CPI adjustments per Board policy).
 - Debt Service:
 FY 2018 to 2022 are obtained from the Collier County Water and Sewer District Financial Statements and Other Reports, Summary of Debt service requirements to maturity. Total Debt Service amount is split 50/50 between Water and Wastewater.
 - Reserve for Contingencies -- Replacement and Rehabilitation Projects:
 As per Florida Statutes, reserve for contingencies are up to 10% of expenses.

EXHIBIT "A"
COLLIER COUNTY SCHEDULE OF CAPITAL IMPROVEMENTS
 FISCAL YEARS 2018-2022

SOLID WASTE DISPOSAL FACILITIES PROJECTS									
			CAPITAL IMPROVEMENT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT
PROJECT No.	PROJECT	NOTES	SCHEDULE NOTES	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	TOTAL
TBD	County Landfill Cell Construction			\$0	\$0	\$0	\$0	\$0	\$0
SOLID WASTE DISPOSAL FACILITIES PROJECT TOTALS				\$0	\$0	\$0	\$0	\$0	\$0

REVENUE KEY - REVENUE SOURCE	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	TOTAL
LTF - Landfill Tipping Fees	\$0	\$0	\$0	\$0	\$0	\$0
REVENUE TOTAL	\$0	\$0	\$0	\$0	\$0	\$0

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NOTE: Collier County has adopted a two-year Concurrency Management System. Figures provided for years three, four and five of this Schedule of Capital Improvements are not part of the Concurrency Management System but must be financially feasible with a dedicated revenue source or an alternative revenue source if the dedicated revenue source is not realized. Figures provided for years six through ten of the Schedule of Capital Improvements are estimates of revenues versus project costs but do not constitute a long term concurrency system.

* Pursuant to the Landfill Operating Agreement (LOA) with Waste Management, Inc. of Florida (WMIF), landfill cell construction is scheduled and guaranteed by WMIF over the life of the Collier County Landfill. Collier County landfill expansion costs are paid for by WMIF through agreed upon Collier County landfill tipping fees. By contract under the LOA, WMIF will construct any future required cells. Landfill cells vary in size and disposal capacity.

EXHIBIT "A"
COLLIER COUNTY SCHEDULE OF CAPITAL IMPROVEMENTS
 FISCAL YEARS 2018-2022

WASTEWATER COLLECTION & TREATMENT SYSTEM PROJECTS								
PROJECT No.	PROJECT	CAPITAL IMPROVEMENT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT
		SCHEDULE NOTES	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	TOTAL
	Debt Service (CAFR)		\$8,935,000	\$8,712,000	\$8,491,000	\$8,490,000	\$7,922,000	\$42,550,000
	Expansion Related Projects		\$0	\$8,000,000	\$43,000,000	\$0	\$0	\$51,000,000
	Replacement & Rehabilitation Projects		\$55,780,000	\$38,050,000	\$38,085,000	\$39,885,000	\$37,375,000	\$209,175,000
	Departmental Capital		\$671,000	\$684,000	\$698,000	\$712,000	\$726,000	\$3,491,000
	Reserve for Contingencies – Replacement & Rehabilitation Projects		\$5,578,000	\$3,805,000	\$3,809,000	\$3,989,000	\$3,738,000	\$20,919,000
WASTEWATER COLLECTION & TREATMENT SYSTEM PROJECT TOTALS			\$70,964,000	\$59,251,000	\$94,083,000	\$53,076,000	\$49,761,000	\$327,135,000

REVENUE KEY - REVENUE SOURCE	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	TOTAL
SIF - Wastewater System Development Fees / Impact Fees	\$7,299,000	\$7,299,000	\$7,299,000	\$7,299,000	\$7,299,000	\$36,495,000
RR - Reserve Reduction (less 5% required by law)	\$0	\$0	\$0	\$0	\$0	\$0
B - Bond Proceeds	\$0	\$0	\$43,000,000	\$0	\$0	\$43,000,000
SRF - State Revolving Fund Loans	\$0	\$8,000,000	\$0	\$0	\$0	\$8,000,000
LOC - Commercial Paper, Additional Senior Lien	\$0	\$0	\$0	\$0	\$0	\$0
SCA - Wastewater Capital Account - Transfers	\$671,000	\$684,000	\$698,000	\$712,000	\$726,000	\$3,491,000
REV - Rate Revenue	\$62,994,000	\$43,268,000	\$43,086,000	\$45,065,000	\$41,736,000	\$236,149,000
REVENUE TOTAL	\$70,964,000	\$59,251,000	\$94,083,000	\$53,076,000	\$49,761,000	\$327,135,000

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NOTE: Collier County has adopted a two-year Concurrency Management System. Figures provided for years three, four and five of this Schedule of Capital Improvements are not part of the Concurrency Management System but must be financially feasible with a dedicated revenue source or an alternative revenue source if the dedicated revenue source is not realized. Figures provided for years six through ten of the Schedule of Capital Improvements are estimates of revenues versus project costs but do not constitute a long term concurrency system. Revenue sources are estimates only; both the mix of sources and amounts will change when a rate study is conducted.

DATA SOURCES:
 - Expansion Related and Replacement & Rehabilitation Projects:
 FY 2018 is obtained from the 2018 Proposed Budget.
 - Department Capital:
 FY 2018 is obtained from the 2018 Proposed Budget, split 50/50 between Water and Wastewater.
 FY 2019 to FY 2027 is a 2% increase over each fiscal year from FY 2019 through FY 2017 (pursuant to CPI adjustments per Board policy).
 - Debt Service:
 FY 2018 to 2022 are obtained from the Collier County Water and Sewer District Financial Statements and Other Reports, Summary of Debt Service requirements to maturity. Total Debt Service amount is split 50/50 between Water and Wastewater.
 - Reserve for Contingencies -- Replacement and Rehabilitation Projects:
 As per Florida Statutes Section 129.01(c), reserve for contingencies are up to 10% of expenses.

EXHIBIT "A"
COLLIER COUNTY SCHEDULE OF CAPITAL IMPROVEMENTS
COST AND REVENUE SUMMARY TABLE
 FISCAL YEARS 2018-2022

The table below itemizes the types of public facilities and the sources of revenue. The "Revenue Amount" column contains the 5-Year amount of facility revenues. The right column is a calculation of expenses versus revenues for each type of public facility. All deficits are accumulated as a subtotal. The subtotal deficit is the source of additional revenue utilized by Collier County to fund the deficit in order to maintain the levels of service standards as referenced in the Capital Improvement Element.

<u>Projects</u>	<u>Revenue Sources</u>	<u>Expenditure</u>	<u>Revenue Amount</u>	<u>Total</u>
ARTERIAL & COLLECTOR ROADS AND BRIDGE PROJECTS				
Revenues:	IF - Impact Fees / COA Revenue		\$70,000,000	
	Unfunded Needs		\$105,107,000	
	GA - Gas Tax Revenue		\$106,950,000	
	GR - Grants / Reimbursements		\$1,500,000	
	AC - Available Cash for Future Projects/Payment of Debt Service		\$25,149,000	
	GF - General Fund (001)		\$53,650,000	
	IN - Interest Revenue - Fund 313 Gas Tax & Impact Fees		\$2,258,000	
	TR - MSTU General Fund 111 Transfers		\$24,200,000	
	RR - Revenue Reduction (<i>less 5% required by law</i>)		-\$8,850,000	\$379,964,000
Less Expenditures:		\$379,964,000		<u>\$379,964,000</u>
			Balance	\$0
POTABLE WATER SYSTEM PROJECTS				
Revenues:	WIF - Water System Development Fees/Impact Fees		\$36,500,000	
	RR - Revenue Reduction (<i>less 5% required by law</i>)		\$0	
	B - Bond Proceeds		\$58,000,000	
	LOC - Commercial Paper 1		\$0	
	SRF - State Revolving Fund Loans		\$14,000,000	
	WCA - Water Capital Account		\$3,491,000	
	REV - Rate Revenue		\$128,200,000	\$240,191,000
Less Expenditures:		\$240,191,000		<u>\$240,191,000</u>
			Balance	\$0
WASTEWATER COLLECTION & TREATMENT SYSTEM PROJECTS				
Revenues:	SIF - Wastewater System Development Fees/Impact Fees		\$36,495,000	
	RR - Revenue Reduction (<i>less 5% required by law</i>)		\$0	
	B - Bond Proceeds		\$43,000,000	
	SRF - State Revolving Fund Loans		\$8,000,000	
	LOC - Commercial Paper, Additional Senior Lien		\$0	
	SCA - Wastewater Capital Account, Transfers		\$3,491,000	
	REV - Rate Revenue		\$236,149,000	\$327,135,000
Less Expenditures:		\$327,135,000		<u>\$327,135,000</u>
			Balance	\$0
SOLID WASTE DISPOSAL FACILITIES PROJECTS				
Revenues:	LTF - Landfill Tipping Fees		\$0	\$0
Less Expenditures:		\$0		<u>\$0</u>
			Balance	\$0
PARKS & RECREATION FACILITIES PROJECTS				
Revenues:	IF - Impact Fees		\$44,135,000	
	DIF - Deferred Impact Fees		\$0	
	GR - Grants / Reimbursements		\$0	
	IN - Interest		\$520,000	
	RR - Revenue Reduction (<i>less 5% required by law</i>)		\$0	
	AC - Available Cash for Future Projects/Payment of Debt Service		\$3,926,800	
	TR - Added Value through Commitments, Leases & Transfers		\$0	
	GF - General Fund (001)		\$0	\$48,581,800
Less Expenditures:		\$72,978,700		<u>\$48,581,800</u>
			Balance	(\$24,396,900)
STORMWATER MANAGEMENT SYSTEM PROJECTS				
Revenues:	GR - Grants / Reimbursements		\$1,550,000	
	BP/RESTORE Act		\$2,500,000	
	TR - Transfer from Naples Park Debt Service		\$12,000	
	CF - Available Cash for Future Projects/Payment of Debt Service		\$102,000	
	IN - Interest Revenue		-\$12,000	
	RR - Revenue Reduction (<i>less 5% required by law</i>)		\$270,000	
	GF - General Fund (001)		\$9,627,000	
	GF - MSTU General Fund (111)		\$21,340,000	\$35,389,000
Less Expenditures:		\$50,365,000		<u>\$50,365,000</u>
			Balance	(\$14,976,000)
TOTAL PROJECTS		\$1,070,633,700	TOTAL REVENUE SOURCES	\$1,031,260,800

**APPENDIX H
FUTURE COSTS AND REVENUES BY TYPE OF PUBLIC FACILITY
FISCAL YEARS 2023-2027**

ARTERIAL AND COLLECTOR ROAD PROJECTS								
		CAPITAL IMPROVEMENT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	
PROJECT No.	PROJECT	SCHEDULE NOTES	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	TOTAL
	Contingency		\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$5,000,000
Sbttl	Operations Improvements/Programs		\$9,310,000	\$9,778,000	\$10,260,040	\$10,756,541	\$11,267,938	\$51,372,519
Sbttl	Transfers to Other Funds (312)		\$3,300,000	\$3,300,000	\$3,300,000	\$3,300,000	\$3,300,000	\$16,500,000
	Impact Fee Refunds		\$400,000	\$400,000	\$400,000	\$400,000	\$400,000	\$2,000,000
	Capacity Improvement Projects - All Phases		\$8,080,000	\$8,322,400	\$8,572,072	\$8,829,234	\$9,094,111	\$42,897,817
	Debt Service Payments		\$14,600,000	\$14,600,000	\$14,600,000	\$14,600,000	\$14,600,000	\$73,000,000
ARTERIAL AND COLLECTOR ROAD PROJECT TOTALS			\$36,690,000	\$37,400,400	\$38,132,112	\$38,885,775	\$39,662,049	\$190,770,336

REVENUE KEY - REVENUE SOURCE	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	TOTAL
IF - Impact Fees / COA Revenue	\$8,080,000	\$8,322,400	\$8,572,072	\$8,829,234	\$9,094,111	\$42,897,817
GA - Gas Tax Revenue	\$15,600,000	\$16,068,000	\$16,550,040	\$17,046,541	\$17,557,938	\$82,822,519
GR - Grants / Reimbursements	\$0	\$0	\$0	\$0	\$0	\$0
AC - Available Cash for Future Projects/Payment of Debt Service	\$0	\$0	\$0	\$0	\$0	\$0
TR - Transfers	\$0	\$0	\$0	\$0	\$0	\$0
GF - General Fund (001)	\$12,560,000	\$12,560,000	\$12,560,000	\$12,560,000	\$12,560,000	\$62,800,000
DC - Developer Contribution Agreements / Advanced Reimbursements	\$0	\$0	\$0	\$0	\$0	\$0
IN - Interest - Fund 313 (Gas Tax & Interest Impact Fees)	\$450,000	\$450,000	\$450,000	\$450,000	\$450,000	\$2,250,000
RR - Revenue Reduction (less 5% required by law)	\$0	\$0	\$0	\$0	\$0	\$0
REVENUE TOTAL	\$36,690,000	\$37,400,400	\$38,132,112	\$38,885,775	\$39,662,049	\$190,770,336

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**APPENDIX H
FUTURE COSTS AND REVENUES BY TYPE OF PUBLIC FACILITY
FISCAL YEARS 2023-2027**

PARKS AND RECREATION FACILITIES PROJECTS								
		CAPITAL IMPROVEMENT	\$ VALUE	\$ VALUE	\$ VALUE	\$ VALUE	\$ VALUE	\$ VALUE
PROJECT No.	PROJECT	SCHEDULE NOTES	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	TOTAL
	35 Acres – Collier Enterprises - Rural Lands West		\$4,198,145	\$0	\$0	\$0	\$0	\$4,198,145
PARKS AND RECREATION FACILITIES PROJECT TOTALS			\$4,198,145	\$0	\$0	\$0	\$0	\$4,198,145

REVENUE KEY - REVENUE SOURCE			FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	TOTAL
IF - Impact Fees / COA Revenue			\$4,198,145	\$0	\$0	\$0	\$0	\$4,198,145
GR - Grants / Reimbursements			\$0	\$0	\$0	\$0	\$0	\$0
GF - General Fund (001)			\$0	\$0	\$0	\$0	\$0	\$0
REVENUE TOTAL			\$4,198,145	\$0	\$0	\$0	\$0	\$4,198,145

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NOTE: All Community Park Land and Regional Park Land transactions are being facilitated through interdepartmental transfers exchanging land holdings for park lands, or using other methods not involving expenditure of capital funds. These transactions represent changes to the value of land holdings only.

APPENDIX H
FUTURE COSTS AND REVENUES BY TYPE OF PUBLIC FACILITY
 FISCAL YEARS 2023-2027

STORMWATER MANAGEMENT SYSTEM PROJECTS							
		CAPITAL IMPROVEMENT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT
PROJECT No.	PROJECT	SCHEDULE NOTES	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
	Stormwater Management System Projects	Continuous	\$12,550,000	\$12,550,000	\$12,550,000	\$12,550,000	\$12,550,000
	Stormwater Management Operations & Reserves		\$35,000	\$35,000	\$35,000	\$35,000	\$35,000
	STORMWATER MANAGEMENT SYSTEM PROJECT TOTALS		\$12,585,000	\$12,585,000	\$12,585,000	\$12,585,000	\$12,585,000
							\$62,925,000

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REVENUE KEY - REVENUE SOURCE	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	TOTAL
GR - Grants / Reimbursements	\$0	\$0	\$0	\$0	\$0	\$0
AC - Available Cash for Future Projects/Payment of Debt Service	\$0	\$0	\$0	\$0	\$0	\$0
CRA - Community Redevelopment Area / Municipal Service Taxing Unit	\$0	\$0	\$0	\$0	\$0	\$0
GF - General Fund (001)	\$12,585,000	\$12,585,000	\$12,585,000	\$12,585,000	\$12,585,000	\$62,925,000
REVENUE TOTAL	\$12,585,000	\$12,585,000	\$12,585,000	\$12,585,000	\$12,585,000	\$62,925,000

**APPENDIX H
FUTURE COSTS AND REVENUES BY TYPE OF PUBLIC FACILITY
FISCAL YEARS 2023-2027**

POTABLE WATER SYSTEM PROJECTS								
		CAPITAL IMPROVEMENT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT
PROJECT No.	PROJECT	SCHEDULE NOTES	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	TOTAL
	Expansion Related Projects		\$5,000,000	\$0	\$5,000,000	\$0	\$5,000,000	\$15,000,000
	Replacement & Rehabilitation Projects		\$21,980,000	\$22,375,000	\$17,755,000	\$17,815,000	\$23,495,000	\$103,420,000
	Debt Service		\$5,602,000	\$5,602,000	\$5,318,000	\$4,541,000	\$3,720,000	\$24,783,000
	Departmental Capital		\$741,000	\$756,000	\$771,000	\$786,000	\$802,000	\$3,856,000
	Reserve for Contingencies - Replacement & Rehabilitation Projects		\$2,198,000	\$2,238,000	\$1,776,000	\$1,782,000	\$2,350,000	\$10,344,000
	POTABLE WATER SYSTEM PROJECT TOTALS		\$35,521,000	\$30,971,000	\$30,620,000	\$24,924,000	\$35,367,000	\$157,403,000

REVENUE KEY - REVENUE SOURCE			FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	TOTAL
WIF - Water System Development Fees			\$7,300,000	\$7,300,000	\$7,300,000	\$7,300,000	\$7,300,000	\$36,500,000
RR - Revenue Reduction <i>(less 5% required by law)</i>			\$0	\$0	\$0	\$0	\$0	\$0
B - Bond Proceeds			\$0	\$0	\$0	\$0	\$0	\$0
SRF - State Revolving Loan Funds			\$5,000,000	\$0	\$0	\$0	\$0	\$5,000,000
WCA - Water Capital Account			\$741,000	\$756,000	\$771,000	\$786,000	\$802,000	\$3,856,000
REV - Rate Revenue			\$22,480,000	\$22,915,000	\$22,549,000	\$16,838,000	\$27,265,000	\$112,047,000
REVENUE TOTAL			\$35,521,000	\$30,971,000	\$30,620,000	\$24,924,000	\$35,367,000	\$157,403,000

NOTE: Collier County has adopted a two-year Concurrency Management System. Figures provided for years three, four and five of this Schedule of Capital Improvements are not part of the Concurrency Management System but must be financially feasible with a dedicated revenue source or an alternative revenue source if the dedicated revenue source is not realized. Figures provided for years six through ten of the Schedule of Capital Improvements are estimates of revenues versus project costs but do not constitute a long term concurrency system.

APPENDIX H
FUTURE COSTS AND REVENUES BY TYPE OF PUBLIC FACILITY
 FISCAL YEARS 2023-2027

SOLID WASTE DISPOSAL FACILITIES PROJECTS									
			CAPITAL IMPROVEMENT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT
PROJECT No.	PROJECT		SCHEDULE NOTES	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	TOTAL
TBD	County Landfill Cell Construction			\$0	\$0	\$0	\$0	\$0	\$0
SOLID WASTE DISPOSAL FACILITIES PROJECT TOTALS				\$0	\$0	\$0	\$0	\$0	\$0

REVENUE KEY - REVENUE SOURCE	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	TOTAL
LTF - Landfill Tipping Fees	\$0	\$0	\$0	\$0	\$0	\$0
REVENUE TOTAL	\$0	\$0	\$0	\$0	\$0	\$0

NOTE: Collier County has adopted a two-year Concurrency Management System. Figures provided for years three, four and five of this Schedule of Capital Improvements are not part of the Concurrency Management System but must be financially feasible with a dedicated revenue source or an alternative revenue source if the dedicated revenue source is not realized. Figures provided for years six through ten of the Schedule of Capital Improvements are estimates of revenues versus project costs but do not constitute a long term concurrency system.

* Pursuant to the Landfill Operating Agreement (LOA) with Waste Management, Inc. of Florida (WMIF), landfill cell construction is scheduled and guaranteed by WMIF over the life of the Collier County Landfill. Collier County landfill expansion costs are paid for by WMIF through agreed upon Collier County landfill tipping fees. By contract under the LOA, WMIF will construct any future required cells.

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APPENDIX H
FUTURE COSTS AND REVENUES BY TYPE OF PUBLIC FACILITY
 FISCAL YEARS 2023 - 2027

WASTEWATER TREATMENT SYSTEM PROJECTS									
PROJECT No.	PROJECT	CAPITAL IMPROVEMENT		\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT
		SCHEDULE NOTES		FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	TOTAL
	Expansion Related Projects			\$0	\$0	\$5,000,000	\$5,000,000	\$5,000,000	\$15,000,000
	Replacement & Rehabilitation Projects			\$36,850,000	\$35,695,000	\$37,220,000	\$33,595,000	\$35,205,000	\$178,565,000
	Departmental Capital			\$741,000	\$756,000	\$771,000	\$786,000	\$802,000	\$3,856,000
	Debt Service			\$5,602,000	\$8,262,000	\$7,978,000	\$7,201,000	\$6,380,000	\$35,423,000
	Reserve for Contingencies - Replacement & Rehabilitation Projects			\$3,685,000	\$3,570,000	\$3,722,000	\$3,360,000	\$3,521,000	\$17,858,000
	WASTEWATER TREATMENT SYSTEM PROJECT TOTALS			\$46,878,000	\$48,283,000	\$54,691,000	\$49,942,000	\$50,908,000	\$250,702,000

REVENUE KEY - REVENUE SOURCE	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	TOTAL
SIF - Wastewater System Development Fees / Impact Fees	\$7,299,000	\$7,299,000	\$7,299,000	\$7,299,000	\$7,299,000	\$36,495,000
RR - Revenue Reduction (less 5% required by law)	\$0	\$0	\$0	\$0	\$0	\$0
B - Bond Proceeds	\$0	\$0	\$0	\$0	\$0	\$0
SRF - State Revolving Fund Loans	\$0	\$0	\$0	\$0	\$0	\$0
LOC - Commercial Paper, Additional Senior Lien	\$0	\$0	\$0	\$0	\$0	\$0
SCA - Wastewater Capital Account - Transfers	\$741,000	\$756,000	\$771,000	\$786,000	\$802,000	\$3,856,000
REV - Rate Revenue	\$38,838,000	\$40,228,000	\$46,621,000	\$41,857,000	\$42,807,000	\$210,351,000
REVENUE TOTAL	\$46,878,000	\$48,283,000	\$54,691,000	\$49,942,000	\$50,908,000	\$250,702,000

NOTE: Collier County has adopted a two-year Concurrency Management System. Figures provided for years three, four and five of this Schedule of Capital Improvements are not part of the Concurrency Management System but must be financially feasible with a dedicated revenue source or an alternative revenue source if the dedicated revenue source is not realized. Figures provided for years six through ten of the Schedule of Capital Improvements are estimates of revenues versus project costs but do not constitute a long term concurrency system.

**APPENDIX H
FUTURE COSTS AND REVENUES BY TYPE OF PUBLIC FACILITY
COST AND REVENUE SUMMARY TABLE
FISCAL YEARS 2023-2027**

The table below itemizes the types of public facilities and the sources of revenue. The "Revenue Amount" column contains the 5-Year amount of facility revenues. The right column is a calculation of expenses versus revenues for each type of public facility. All deficits are accumulated as a subtotal. The subtotal deficit is the source of additional revenue utilized by Collier County to fund the deficit in order to maintain the levels of service standards as referenced in the Capital Improvement Element.

Projects	Revenue Sources	Expenditure	Revenue Amount	Total
ARTERIAL AND COLLECTOR ROAD PROJECTS				
Revenues:	IF - Impact Fees / COA Revenue		\$42,897,817	
	GA - Gas Tax Revenue		\$82,822,519	
	GR - Grants / Reimbursements		\$0	
	AC - Available Cash for Future Projects/Payment of Debt Service		\$0	
	TR - Transfers		\$0	
	GF - General Fund (001)		\$62,800,000	
	DC - Developer Contribution Agreements / Advanced		\$0	
	IN - Interest - Fund 313 (Gas Tax & Interest Impact Fees)		\$2,250,000	
	RR - Revenue Reduction <i>(less 5% required by law)</i>		\$0	\$190,770,336
Less Expenditures:		\$190,770,336		<u><u>\$190,770,336</u></u>
			Balance	<u><u>\$0</u></u>
POTABLE WATER SYSTEM PROJECTS				
Revenues:	WIF - Water System Development Fees		\$36,500,000	
	RR - Revenue Reduction <i>(less 5% required by law)</i>		\$0	
	B - Bond Proceeds		\$0	
	SRF - State Revolving Fund Loans		\$5,000,000	
	WCA - Water Capital Account		\$3,856,000	
	REV - Rate Revenue		\$112,047,000	\$157,403,000
Less Expenditures:		\$157,403,000		<u><u>\$157,403,000</u></u>
			Balance	<u><u>\$0</u></u>
WASTEWATER TREATMENT SYSTEM PROJECTS				
Revenues:	SIF - Wastewater System Development Fees		\$36,495,000	
	RR - Revenue Reduction <i>(less 5% required by law)</i>		\$0	
	B - Bond Proceeds		\$0	
	SRF - State Revolving Fund Loans		\$0	
	LOC - Commercial Paper, Additional Senior Lien		\$0	
	SCA - Wastewater Capital Account		\$3,856,000	
	REV - Rate Revenue		\$210,351,000	\$250,702,000
Less Expenditures:		\$250,702,000		<u><u>\$250,702,000</u></u>
			Balance	<u><u>\$0</u></u>
SOLID WASTE DISPOSAL FACILITIES PROJECTS				
Revenues:	LTF - Landfill Tipping Fees		\$0	\$0
Less Expenditures:		\$0		<u><u>\$0</u></u>
			Balance	<u><u>\$0</u></u>
PARKS & RECREATION FACILITIES PROJECTS				
Revenues:	IF - Impact Fees		\$4,198,145	
	GR - Grants / Reimbursements		\$0	
	GF - General Fund (001)		\$0	\$4,198,145
Less Expenditures:		\$0		<u><u>\$0</u></u>
			Balance	<u><u>\$4,198,145</u></u>
STORMWATER MANAGEMENT SYSTEM PROJECTS				
Revenues:	GR - Grants / Reimbursements		\$0	
	AC - Available Cash for Future Projects/Payment of Debt Service		\$0	
	CRA - Community Redevelopment Area/Municipal Service Taxing		\$0	
	GF - General Fund (001)		\$62,925,000	\$62,925,000
Less Expenditures:		\$62,925,000		<u><u>\$62,925,000</u></u>
			Balance	<u><u>\$0</u></u>
TOTAL PROJECTS		\$661,800,336	TOTAL REVENUE SOURCES	\$665,998,481