



**ANNUAL UPDATE & INVENTORY REPORT/CAPITAL
IMPROVEMENT ELEMENT SCHEDULE
UPDATE ON PUBLIC FACILITIES
2016 AUIR/CIE**

**BOARD OF COUNTY COMMISSIONERS
NOVEMBER 15, 2016**

**Collier County
B.C.C.**

Donna Fiala, Chairwoman District 1
Georgia A. Hiller, District 2
Tom Henning, District 3
Penny Taylor, District 4
Tim Nance, Vice Chair District 5

**Prepared by:
Comprehensive Planning Section
Growth Management Division
2800 N. Horseshoe Drive
Naples, FL 34104**

Staff Report

Presentation to the Collier County Planning Commission of the 2016 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: Request that the Collier County Planning Commission (CCPC) review the combined 2016 Annual Update and Inventory Report (AUIR)/Capital Improvement Element (CIE) on public facilities 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 FY16/17 annual update (only Category “A” public facilities are included in the CIE). The AUIR identifies capital needs for new facilities to serve projected population growth in the five-year AUIR time period. Also like past AUIRs, 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 upon the appropriateness of the County’s current levels of service 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 levels of service.

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. It should be noted that changes initiated by HB7207 in 2011 [which is now Chapter 2011-139, Laws of Florida] only requires 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, based upon the perspective that maintaining concurrency management for the optional facilities is necessary to sustain the current 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 concurrency for Category “A” facilities and identification of additional facilities’ needs. 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 levels of service standards and collects impact fees. The Category “B” facilities are jail and correctional facilities, law enforcement, library buildings and collections, emergency medical services, government buildings, and a dependent fire district – Ochopee Fire Control and Rescue. Adoption of Category “B” facilities levels of service standards are necessary

in order to legally validate impact fees for these facilities, related to the levels of service provided within each impact fee. LDC Section 6.02.02 requires the preparation of an AUIR on Public Facilities for presentation to the Board of County Commissioners.

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 inclusion allows for a formal and predictable Board evaluation of the condition for each 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 the provisions of LDC Section 6.02.02, the Board’s options in response to the needs identified in the AUIR 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 AUIR, Public Facility projects can be added to the financially feasible Schedule of Capital Improvements in the Capital Improvements Element. Road projects must be in the first or second year of the next adopted Schedule of Capital Improvements in order 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 Amendments;
 - 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.

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

CIE ~ OBJECTIVE 2: (FINANCIAL FEASIBILITY)

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

It should be noted that CIE Policies 1.1 through 1.5 establish the standards for levels of service for Category “A” public facilities.

GROWTH MANAGEMENT IMPACT: The 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 FY16 Annual CIE Update and Amendment will establish and maintain concurrency for Category “A” public facilities, except roads, for the next twelve (12) months. Road projects needed to remedy level 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 one single public hearing before the governing board (Board) as an adoption hearing. This single hearing process allows for the concurrent hearing of the AUIR and CIE.

Dependent Fire Protection Districts: Prior to 2016 the County supported two dependent fire protection districts – Ochopee Fire Control and Isle of Capri Fire Rescue Services. The Isle of Capri service area has been merged into the reconfigured, independent “Greater Naples Fire Rescue District” [as of October 1, 2015 by HB 1265] and their update and inventory are no longer components of the AUIR.

Schools: The Schools section of the 2016 AUIR/CIE 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 special meeting is held to discuss the AUIR, 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 to the existing Immokalee High School and the planning and engineering phases for a new high school. It should be noted that 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 recommendation sought from the CCPC related to the School District’s proposed CIP is for a recommendation to include the District’s CIP by reference within the CIE and that no inconsistencies are contained within the District’s CIP compared against the other planned capital improvements within the AUIR or corresponding CIE.**

Levels of Service Appropriateness: As indicated within the Objective portion of this staff report, the AUIR provides the platform for the County to make evaluations and recommendations regarding the appropriateness of the County’s current levels of service and 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.** It should be noted that Public Utilities, Stormwater Management, and Transportation have developed a more complex formula and system for maintaining levels of service which dictates capital expansion, but the basic premise of additional demand requiring new improvements is the underlying fundamentals of the equation.

The AUIR provides an opportunity on an annual basis for the CCPC to evaluate and provide recommendations on the appropriateness of the currently adopted levels of service and levels of service standards. Within each individual section, the year-to-year demand for service or

demands upon the system have been included to assist the advisory boards and the Board in this determination.

Levels of Service Standards and Impact Fees: It should be noted that impact fee studies and methodologies do not establish levels of service, but at a minimum, they set a base line where levels of service cannot fall below without invalidating the impact fee. A level of service standard 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 that is higher than the achieved level of service. However, the difference between the achieved level of service and the adopted level of service 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.

It should be noted that the current level of service standards for most AUIR components are currently satisfied based upon the levels of service standards and current population levels, but the population growth over the past four years has begun 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 iteration of system expansion has begun and will result in a continued growth in the revenues needed to maintain the levels of service standards for the system providers.

Population: The population projections utilized with the 2016 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						
2011	327,062	332,699	338,433	344,267	350,200	356,788	9.09%	1.82%
2012	328,339	332,893	337,446	342,000	348,720	355,440	8.25%	1.65%
2013	335,405	341,055	346,800	353,792	360,925	368,202	9.78%	1.96%
2014	338,728	345,100	351,647	358,318	365,116	372,042	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%

The above table illustrates how 2016 provides a sixth year in which the annualized growth rate is projected at under two percent of the total population. This continued outlook reinforces the new 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 erode this capacity. As such, each of the AUIR providers continue the due diligence process for their next system expansion. It should be noted that the population increase for the five year population projection period totals 33,878 or

6,776 per year. The 6,776 of annual new population, utilizing the County's average 2.38 person per household rate, translates to **2,847** 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 the 2015-16 fiscal year, **3,325** units were completed. These facts are provided to better evaluate the market's response to the demand for new housing units.

FISCAL IMPACT: Revenues are required to fund the CIE projects proposed in the 2016 AUIR/CIE for the FY16-17 thru FY20-21 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 FY16-17 thru FY20-21 CIE planning period are set forth in each respective capital facilities section of the 2016 AUIR/CIE update. Project expenditures in excess of estimated impact fee, gas tax, and user fee revenues 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. When funding sources are not identified, the Board is provided five options to address the situation by Policy 2.9 of the Capital Improvement Element.

1. Remove through a plan amendment facility improvements or new facilities from the adopted Schedule of Capital Improvements that exceed the adopted levels 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-Capital Improvement Element capital project in order to fund an identified deficient Capital Improvement Element 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/or
5. Do not issue development orders that would continue to cause a deficiency based on the facility's adopted level of service standard (LOSS).

It should be pointed out that all of Category "B" facility improvements, with the exception of the dependent fire district, required loans from general governmental sources to meet the necessary revenue (option 3 above). Additionally, it should be noted that to fund the proposed five-year improvements contained within this year's CIE will require the Board to utilize Debt Service, or to initiate options four and/or five, identified above. The spreadsheets detailing the revenue and debt service for the AUIR divisions/departments for the five-year CIE period, as well as the long term debt financing schedules, have been provided within the AUIR/CIE book appendix.

RECOMMENDATION: That the Collier County Planning Commission in the form of recommendations to the Board of County Commissioners:

1. Accept and approve the attached document as the 2016 Annual Update and Inventory Report on Public Facilities.


2. Give the Board direction by separate motion and vote on Category "A", "B" and "C" facilities relative to projects and revenue sources, with Category "A" facilities set forth for inclusion in the FY16-17 Schedule of Capital Improvements of the Annual CIE Update and Amendment.
3. Provide a recommendation for the School District's CIP to be included in the FY16-17 Schedule of Capital Improvements of the Annual CIE Update and Amendment by reference.
4. Consider a recommendation to the Board upon an alternative LOSS for individual components of the AUIR where deemed appropriate.
5. Forward the GMP CIE Schedule of Capital Improvements update to the Board with a recommendation to adopt.

Prepared By: 
Mike Bosi, AICP, Director
Zoning Division

Date: 9-14-16

Approved By: 
James French, Deputy Department Head
Growth Management Department

Date: 9-14-16

Approved By: 
David S. Wilkison, Department Head
Growth Management Department

Date: 9/15/16

TABLE OF CONTENTS

INDIVIDUAL FACILITY REPORTS: CATEGORY “A” FACILITIES	11
1. Arterial & Collector Roads & Bridge Facilities	13
2. Stormwater Management System – Canals & Structures	30
3. Potable Water System – County Water-Sewer District	57
4. Wastewater Collection & Treatment Systems – County Water-Sewer District	67
- South County (SCWRF)	71
- North County (NCWRF)	74
5. Solid Waste Disposal Facilities	81
6. Collier County Schools – Capital Improvement Plan	93
7. Parks and Recreation Facilities	101
- Community Park Land	105
- Regional Park Land	108
8. CIE Amendment Submittals for Category A Facilities	119
- Exhibit “A”, Schedule of Capital Improvements (Years 1 – 5)	122
- Appendix “H”, Schedule of Capital Improvements (Future Years 6 – 10)	129
 INDIVIDUAL FACILITY REPORTS: CATEGORY “B” FACILITIES	 137
1. Jail & Correctional Facilities	140
2. Law Enforcement Facilities	147
3. Libraries	159
- Library Buildings	160
- Library Materials/Collections	164
4. Emergency Medical Services	175
5. Government Buildings	191
6. Ochopee Fire Control and Rescue District	201
 INDIVIDUAL FACILITY REPORTS: CATEGORY “C” AREAS	 209
County Coastal Zone Areas Management	210
 APPENDICES	 215
I. Population Estimates & Projections; Impact Fee Fund & Debt Service Expense Table; Countywide Population Data	216
II. Additional Support Materials, Inc. Parks & Recreation Facility Inventory & Operational Data	239

ANNUAL UPDATE AND INVENTORY REPORT ON PUBLIC FACILITIES 2016

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

CONTENTS

- **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**

2016 AIUR FACILITY SUMMARY

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

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

Unit Cost: Variable (Average = \$4,735,979/ lane mile) Per Current Approved Transportation Impact Fee

Recommended Work Program FY 17-21	\$365,370,000
Recommended Revenues FY17-21	\$365,370,000
Five-Year Surplus or (Deficit)	\$0

1. Existing Revenue Sources:

A. Current Revenues CIE FY 17-21

Impact Fees	\$48,900,000
Gas Taxes	\$96,735,000
General Fund 001/111	\$63,000,000
Grants/Reimbursements/DCAs/Interest	\$11,799,000
Unfunded needs	<u>\$129,353,000</u>

SUB TOTAL \$349,787,000

Carry Forward	\$16,958,000 *
Less 5% Required by Law	<u>(\$1,375,000)</u>

TOTAL \$365,370,000

2. Supplemental Revenue Sources:

A. Alternative I

None Required

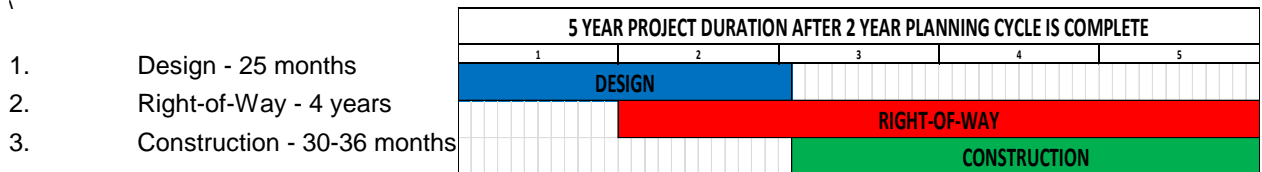
B. Alternative II

None Required

Recommended Action:

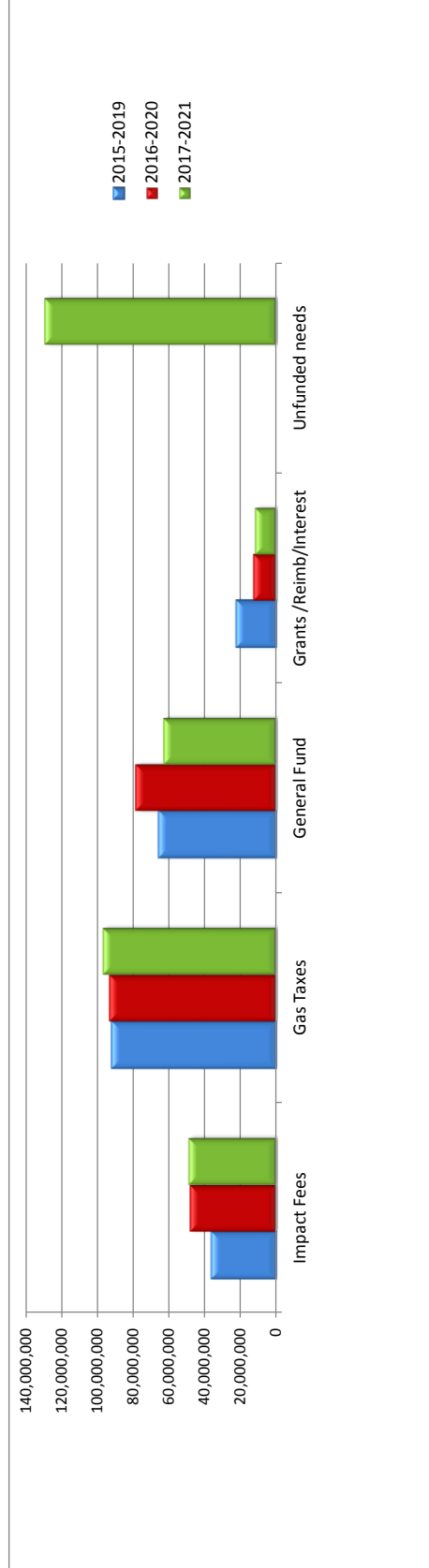
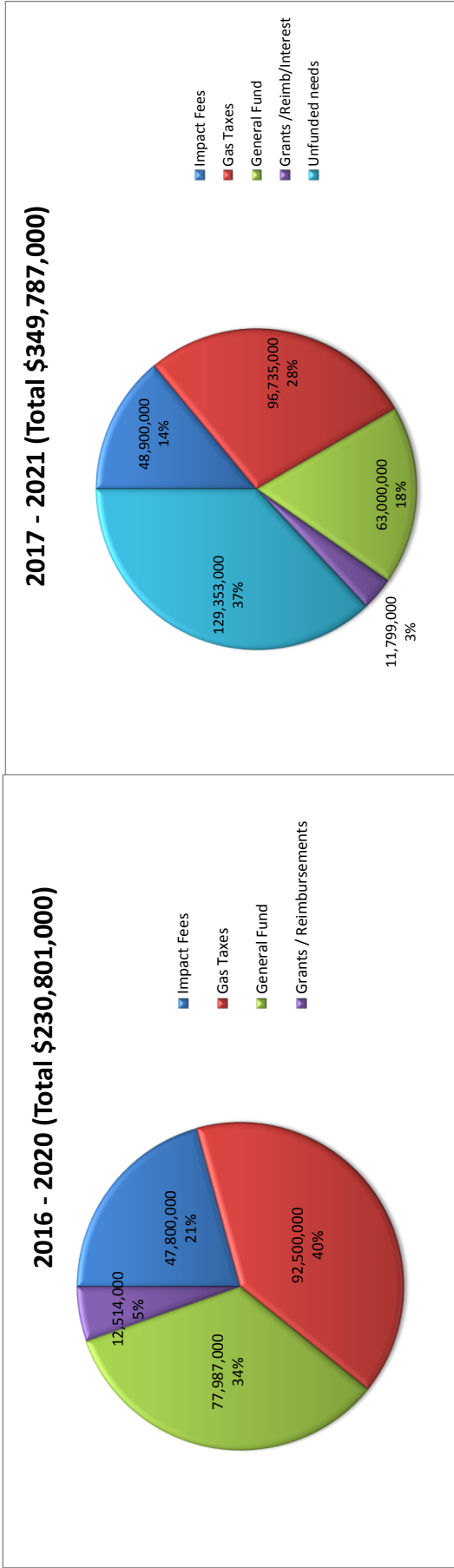
That the BCC direct the County Manager or his designee to (1) explore utilization of Collier County specific local data in lieu of FDOT data for the determination of peak hour, peak direction and seasonal factors (2) investigate possible debt service to be presented during the FY 17/18 budget process to provide revenue for unfunded needs and (3) 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

* Carry Forward includes the budgeted FY17 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, 2016. Attachment J provides a snapshot of prior year FY16 project activity as of June 30, 2016 for continuing projects. Project costs are generally paid out over the following schedule for phases (average time for payout):



Note: FY 2016 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.

Five Year Revenues: 2015 AUIR vs. 2016 AUIR



*Charts do not include Carry Forward of \$ 16,958,000 or a negative Revenue Reserve of \$ 1,375,000.

Attachment “B”

TRANSPORTATION EXISTING CONDITIONS REPORT – 2016

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. These factors are provided by the Florida Department of Transportation (FDOT). Now that Collier County has a robust traffic collection system, staff would like to review to determine if development of Collier County specific factors is appropriate.
- 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 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 in order 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”.
- Unfunded needs have been shown in this document. Per prior budget discussions it has been noted that it may become necessary to take on debt to provide for a source of funding for unfunded needs. If debt service is not pursued, projects such as Vanderbilt Beach Road Extension and Veterans Memorial Parkway (necessary relievers to Immokalee Road) and new bridges critical for the mobility of residents and reduction in emergency service response times on 16th Street and 47th Street Bridges would be further delayed.

Attachments

Attached is the 2016 Collier County Transportation Planning Database table, which incorporates the proposed FY 17 to FY 21 Capital Improvement Program (CIP).

Observations

Of the 129 stations (covering 141 unique Segment ID’s and excluding those in the City of Naples) collecting traffic counts in the 2015/2016 program, the average increase in measured overall volume between 2015 and 2016 was 2.54%, system-wide. By comparison, the average increase between 2014 and 2015 reported in last year’s AUIR was 4.85%.

When reviewing only higher capacity 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 1.94% was experienced over 2015.

For the 2015/2016 traffic counts, 38 segments reflected a decrease, and 82 segments reflected an increase over the previous year (21 remained unchanged). Listed below are the numbers and corresponding percentages for the count stations, including the percentage changes between 2015/2016:

- 6.4% (9 segments) show an increase greater than 20% compared to 2015
- 10.6% (15 segments) show an increase of 10-20% compared to 2015
- 9.9% (14 segments) show an increase of up to 5-10% compared to 2015
- 65.2% (92 segments) show an insignificant change of -5% to 5% compared to 2015
- 2.1% (3 segments) show a decrease of 5-10% compared to 2015
- 0.7% (1 segment) show a decrease of 10-20% compared to 2015
- 5.0% (7 segments) show a decrease of greater than 20% compared to 2015

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**.

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

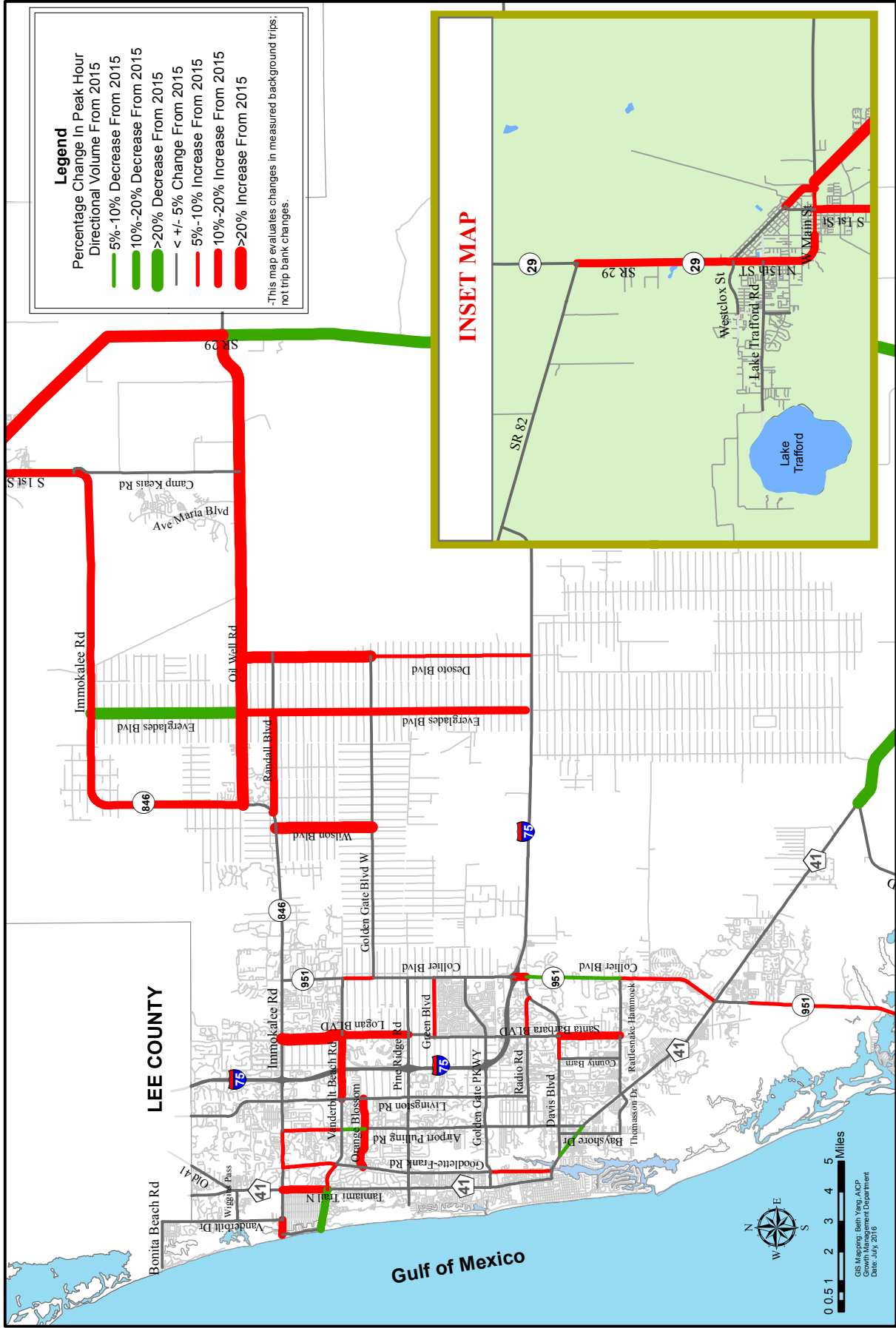
	North of Immokalee Road	North of Pine Ridge Road	North of Golden Gate Pkwy	West of Collier Blvd
2015	92,399	76,809	70,000	40,500
2014	85,506	70,332	64,000	36,500
2013	79,834	65,423	58,000	34,500
2012	75,022	62,897	55,000	31,000
2011	74,500	61,224	55,000	31,500
2010	75,500	59,784	55,000	32,500
2009	77,000	58,578	32,500	34,000
Total % Increase 5-Year 2010-2015	17.5%	28.5%	27.3%	24.6%
Avg Annual % Increase 5-Year 2010-2015	4.1%	5.1%	4.9%	4.5%
Avg Annual % Increase 2-Year 2013-2015	7.6%	8.4%	9.9%	8.3%

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 2015

Growth Management Department
Transportation Planning

Attachment D
FY17 - FY21 5 YEAR WORK PROGRAM/CIE (TIED TO FY17 ADOPTED BUDGET) **
(Dollars shown in Thousands)

Project #	Project Name	FY17 Amount		FY18 Amount		FY19 Amount		FY20 Amount		FY21 Amount		Amount
SUMMARY OF PROJECTS												
60144	Oil Well (Everglades to Oil Well Grade)	1,400	A	300	A	300	A	300	A	300	A	2,600
60168	Vanderbilt Beach Rd/Collier Blvd-8th Street	2,000	R/D	25,160	R/M					61,050	C	88,210
60145	Golden Gate Blvd 20th St to Everglades	5,100	R/D/A	9,900	D/R/A	8,800	A	4,100	C			27,900
60129	Wilson Benfield Ext (Lord's Way to City Gate N)	2,466	S/C									2,466
60116	US41/SR 951 Intersection/Resurfacing	500	R									500
60148	Airport Rd-Davis Blvd Intersection	1,900	R/C									1,900
60198	Veterans Memorial	100	R/DBO			2,000	A	2,500	A			4,600
60199	Vanderbilt Beach Rd (US41 to E of Goodlette)	200	D					8,870	C			9,070
33340	8th Street Bridge--LAP--Design Build	9,899	R/D/C									9,899
TBD	16th Street Bridge			208	R			8,100	C			8,308
TBD	47th Street Bridge			195	R			9,770	C			9,965
60200	Goodland Road (CR 92A) Roadway Improvements	400	D/C/I									400
60201	Pine Ridge Rd (Livingston to I75)	500	D	250	R					5,000	C	5,750
TBD	Orange Blossom (Airport to Livingston)			200	S/D					3,000	R/A	3,200
TBD	Airport Rd Vanderbilt Bch Rd to Immokalee Rd									3,000	D	3,000
60147	Randall/Imm Rd Intersection			350	D							350
TBD	Big Corkscrew Park Access Road			1,000	C***							1,000
	Contingency	3,168		34		1,088		783		1,086		6,159
	Total	27,633		37,597		12,188		34,423		73,436		185,277
Operations Improvements/Programs												
66066	Bridge Repairs/Improvements	6,800		21,800		6,800		6,800		6,800		49,000
60016	Intersection Safety/Capacity/Enhancements	2,000		2,000		2,000		2,000		2,000		10,000
60146	TMC Relocation Fund 310	200		400		400		400		400		1,800
60197	RM Facility Fund 310	350		400		400		400		400		1,950
60172	Traffic Ops Upgrades/Enhancements	1,100		590		590		590		590		3,460
60183	Sign Retroreflectivity Requirement	580		50		50		50		50		780
60189	LED Replacement Program	480		3,000								3,480
60163	Traffic Studies/Advanced Planning	200		200		200		200		200		1,000
60118	Countywide Pathways/Sidewalks Non PIL /LAP	1,098		500		250		250		250		2,348
69081	Pathways/Sidewalks Bike Lanes Maint/Enhance	1,358										1,358
60191	Lap Design Phase	129										129
60077	Striping and Marking	850		950		950		950		950		4,650
60130	Wall/Barrier Replacement	800		250		250		250		250		1,800
60131	Road Resurfacing 101/111	5,000		4,000		4,000		4,000		4,000		21,000
60128	Limerock Road Conversion 111	300		3,200								3,500
	Subtotal Operations Improvements/Programs	21,245		37,340		15,890		15,890		15,890		106,255
60003	Marco Island/Asset Mgmt/Planning	2,846		750		750		750		750		5,846
60171	Multi Project	50		50		50		50		50		250
	Impact Fee Refunds	393		400		400		400		400		1,993
	Transfer to 309 CDES	75										75
	Debt Service Payments	13,135		13,136		13,132		13,137		13,134		65,674
	Total Funding Request All Funds	65,377		89,273		42,410		64,650		103,660		365,370
REVENUES												
	Impact Fees/COA Revenue	9,300		9,500		9,900		10,100		10,100		48,900
	Gas Tax Revenue	18,735		19,500		19,500		19,500		19,500		96,735
	DCA											-
	Unfunded needs			46,263				22,040		61,050		129,353
	Grants/Reimbursements	9,549										9,549
	Transfer 001 to 313	1,619		10,260 ***		9,260		9,260		9,260		39,659
	Transfer 001 to 310	6,841										6,841
	Transfer 111 to 313	3,300		3,300		3,300		3,300		3,300		16,500
	Interest Fund 313 Gas Tax	200		200		200		200		200		1,000
	Interest Impact Fees	250		250		250		250		250		1,250
	Carry Forward 310											-
	Carry Forward 313											-
	Revenue Reduction (Less 5% Required by Law)	(1,375)										(1,375)
	Total 5 Year Revenues	48,419		89,273		42,410		64,650		103,660		348,412
	Beginning Carry Forward	16,958										16,958
	Fiscal Year Surplus/(Shortfall)	-		-		-		-		-		-

GRANT FUNDING SUMMARY

	FY17	FY18	FY19	FY20	FY21
8th Street Bridge	9,549				
Total Grants	9,549	0	0	0	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.
 - Project Costs may be offset based on future development agreements, grants or other funding sources.
- **Debt Service and Gas Tax revenue are not tied to budget.
***General Fund Dollars have been increased in FY 18 for Big Corkscrew Access Rd.
"Highlighted projects are subject to debt scenarios to be discussed during upcoming budget workshops".

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 17	FY 18	FY 19	FY 20	FY 21	5 Year Total
Project/Program Commitments	51,849,000	75,737,000	28,878,000	51,113,000	90,126,000	297,703,000
Existing Debt Service	13,135,000	13,136,000	13,132,000	13,137,000	13,134,000	65,674,000
Impact Fee Refunds	393,000	400,000	400,000	400,000	400,000	1,993,000
Total Expenses	65,377,000	89,273,000	42,410,000	64,650,000	103,660,000	365,370,000
Impact Fee Revenue	9,300,000	9,500,000	9,900,000	10,100,000	10,100,000	48,900,000
DCA						
Gas Tax Revenue	18,735,000	19,500,000	19,500,000	19,500,000	19,500,000	96,735,000
Debt Svc General Fund Transfer	8,460,000	10,260,000	9,260,000	9,260,000	9,260,000	46,500,000
Transfer in from Fund 111	3,300,000	3,300,000	3,300,000	3,300,000	3,300,000	16,500,000
Interest Gas Tax/Impact Fee	450,000	450,000	450,000	450,000	450,000	2,250,000
Grants/Reimbursements *	9,549,000	46,263,000		22,040,000	61,050,000	9,549,000
Unfunded needs						
Revenue Reserve (5% Budgeted by Statute)	(1,375,000)					(1,375,000)
Total Revenues	48,419,000	89,273,000	42,410,000	64,650,000	103,660,000	348,412,000
Carry Forward (Surplus or Shortfall) **	16,958,000					16,958,000
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 FY17 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, 2016 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.

ID#	CIE#	Proj#	Road#	Link	From	To	Exist Road	Cnt. Sta.	Min Sid	Peak Dir	2016 Peak Hour		2016 1/7th Trip		2016 1/7th Total		1/7th TB 2016 Volume	1/7th TB Remain. Capacity	1/7th TB V/C	L O S	Traffic Count		1/7th Trip Bank Year
											Peak Dir Service Volume	Peak Dir Volume	2016 Trip Bank	1/7th Trip Bank	2016 Trip Bank	1/7th Trip Bank					Expected	Deficient	
121.1				Oil Well Road	DeSoto Boulevard	Oil Well Grade	2U	694	D	W	1,100	280	0	209	0	489	611	44.5%	B				
121.2				Oil Well Road	Oil Well Grade	Ave Maria Blvd	4D	694	D	W	2,000	280	0	209	0	489	1511	24.5%	B				
122.0				Oil Well Road	Ave Maria Blvd	SR 29	2U	694	D	W	800	280	0	65	0	345	455	43.1%	B				
60040				Golden Gate Boulevard	Wilson Boulevard	18th Street NE/SE	4U 2U	652	D	E	2,300	1080	0	0	0	1080	1220	47.0%	B				
60040				Golden Gate Boulevard	18th Street NE/SE	Everglades Boulevard	2U	652	D	E	1,010	1080	0	0	0	1080	700	106.9%	F	Existing			
60040				Golden Gate Boulevard	Everglades Boulevard	DeSoto Boulevard	2U	Manual	D	E	1,010	218	0	0	0	218	792	21.6%	B				
124.0				Pine Ridge Road	Logan Boulevard	Collier Boulevard	4D	535	D	E	2,400	1290	0	7	0	1297	1103	54.0%	C				
132.0				Randal Boulevard	Immokatee Road	Everglades Boulevard	2U	651	D	E	900	850	45	36	81	931	631	103.4%	F	Existing			
133.0				Randal Boulevard	Everglades Boulevard	DeSoto Boulevard	2U	Manual	D	E	900	614	0	20	20	634	266	70.4%	C				
134.0				Everglades Boulevard	1-75	Golden Gate Blvd	2U	637S	D	S	800	410	0	0	0	410	390	51.3%	B				
135.0				Everglades Boulevard	Golden Gate Boulevard	Oil Well Road	2U	636S	D	N	800	310	0	20	20	330	470	41.3%	B				
136.0				Everglades Boulevard	Oil Well Road	Immokatee Road	2U	635S	D	N	800	390	0	0	0	390	410	48.8%	B				
137.0				DeSoto Boulevard	1-75	Golden Gate Boulevard	2U	639A	D	S	800	140	0	0	0	140	660	17.5%	B				
138.0				DeSoto Boulevard	Golden Gate Boulevard	Oil Well Road	2U	638A	D	S	800	100	0	0	0	100	700	12.5%	B				
142.0				Orange Blossom Drive	Orange Blossom Drive	Goodlette-Frank Road	2D	647	D	W	1,200	600	0	0	0	600	600	50.0%	B				
143.0				Orange Blossom Drive	Airport Road	Livingston Road	2U	647	D	W	1,000	600	0	0	0	600	400	60.0%	C				
144.0				Shadowlawn Drive	US 41 (Tammami Trail)	Davis Boulevard	2U	523	D	N	800	230	0	0	0	230	570	28.8%	B				
66066				Bridge Repairs/Improvements																			
60016				Intersection Safety/Capacity Improve																			
60172				Traffic Ops Enhancements																			
60163				Traffic Calming/Studies																			
69081				Pathways/Sidewalks/Bike Lanes																			
35010				Transit Facility & Transfer Site																			
61010				Transit Enhancements																			
60077				Enhanced Resurfacing (Transfer to 101/111)																			
60077				Safety Enhancements																			
60003				Collector Roads/Minor Arterial Roads																			
60171				Advanced ROW																			
158.0				Transfers to other funds																			
159.0				Impater Fee Refunds																			
161.0				Debt Service Payments																			
162.0				Contingency																			

2015 AIUR 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

2016 Existing Deficiencies Based on Traffic Counts						
ID#	Map	Roadway	From	To	Trip Bank (17th)	Remaining Capacity
123.1		Golden Gate Boulevard	18th Street NE/SE	Everglades Boulevard	0	-70
						106.9%
						No
						Programmed for CST in the CIE
						Solutions

2016 Existing Deficiencies Based on Traffic Counts + Trip Bank & 17th Vested Trips						
ID#	Map	Roadway	From	To	Trip Bank (17th)	Remaining Capacity
67.2		Pine Ridge Road	Livingston Road	I-75	220	-170
						105.7%
132.0		Randal Boulevard	Immokalee Road	Everglades Boulevard	81	-31
						103.4%
						No
						Part of East Central TCMA - Pursue Detailed Capacity/Operational Analysis of Intersections and Interchange
						Immokalee Rd @ Randal Blvd Intersection Improvement PD&E Underway;
						Randal Blvd Corridor Study Underway
						Solutions

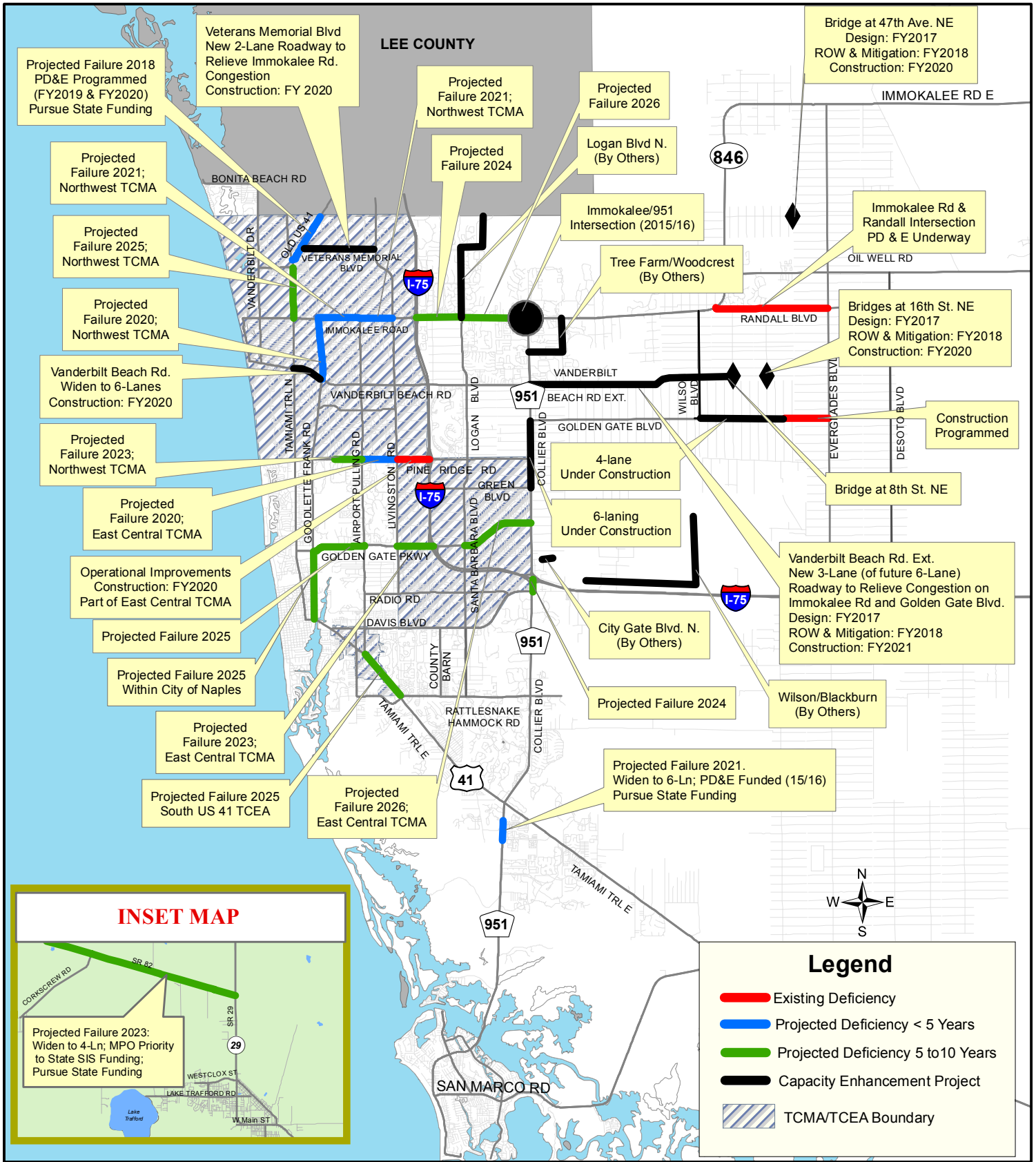
Projected Deficiencies 2017-2021 (Traffic Counts + Trip Bank & 17th Vested Trips)						
ID#	Map	Roadway	From	To	Trip Bank (17th)	Remaining Capacity
23.0		Goodlette-Frank Road	Immokalee Road	Vanderbilt Beach Road	58	82
						91.8%
36.2		Collier Boulevard	Wal-Mart Driveway	Manatee Road	122	144
						92.8%
41.2		Immokalee Road	Goodlette-Frank Road	Airport Road	76	504
						83.7%
42.1		Immokalee Rd	Airport Road	Livingston Rd.	24	216
						90.8%
62.0		Old US 41	US 41	Lee County Line	11	29
						97.1%
67.1		Pine Ridge Road	Airport Road	Livingston Rd.	149	191
						93.6%
						Yes
						Projected failure 2020; Northwest TCMA - Continue to Monitor; Evaluate for CIE Funding in 2021-2025
						Projected failure 2021; Widen to 6-Ln; PD&E Funded (15/16) ; State Funded Improvement Proposed in MPO Cost Feasible Plan 2026-2030
						Projected failure 2021; Northwest TCMA - Pursue Detailed Capacity/Operational Analysis
						Projected failure 2021; Northwest TCMA - Pursue Detailed Capacity/Operational Analysis
						Projected failure 2018; Widen to 4-Lanes; PD&E Study Programmed by FDOT; Pursue State Funding
						Projected failure 2020; East Central TCMA - Pursue Detailed Capacity/Operational Analysis and Alternative Corridors
						Solutions

Projected Deficiencies 2022-2026 (Traffic Counts + Trip Bank & 17th Vested Trips)						
ID#	Map	Roadway	From	To	Trip Bank (17th)	Remaining Capacity
19.0		Golden Gate Parkway	Goodlette-Frank Road	Airport Road	9	511
						84.5%
20.2		Golden Gate Pkwy	Livingston Road	I-75	2	408
						87.6%
22.0		Golden Gate Parkway	Santa Barbara Boulevard	Collier Boulevard	53	297
						83.5%
26.0		Goodlette-Frank Road	Golden Gate Parkway	US 41 (Tamiami Trail)	0	450
						83.3%
33		Collier Boulevard	I-75	Davis Boulevard	359	431
						88.0%
43.1		Immokalee Road	I-75	Logan Boulevard	474	616
						82.4%
43.2		Immokalee Road	Logan Boulevard	Collier Boulevard	603	637
						80.1%
66.0		Pine Ridge Road	Shirley Street	Airport Road	220	330
						88.2%
88.0		SR 82	Lee County Line	SR 29	0	90
						88.8%
92.0		Tamiami Trail East	Airport Road	Rattlesnake Hammock Road	269	391
						86.5%
99.0		Tamiami Trail North	Wiggins Pass Road	Immokalee Road	55	485
						84.4%
						Yes
						Projected failure 2025; Northwest TCMA; Continue to Monitor
						Projected failure 2023; Widen to 4-Ln; MPO Priority for State SIS Funding; Pursue State Funding
						Projected failure 2025; Included in South US 41 TCEA; Continue to Monitor; Pursue Detailed Operational Analysis if Warranted
						Projected failure 2024; Continue to Monitor; Interchange Improvements Proposed in MPO Cost Feasible Plan 2021-2025, Anticipate Future VBR Extension to Reduce Volumes
						Projected failure 2026; Continue to Monitor; Anticipate Future VBR Extension to Reduce Volumes
						Projected failure 2023; Northwest TCMA; Continue to Monitor; Pursue Detailed Operational Analysis if Warranted
						Projected failure 2024; Continue to Monitor; Interchange Improvements Scheduled by FDOT 2020/21
						Projected failure 2026; East Central TCMA - Continue to Monitor and Review with Future I-75 Interchange Operation Analysis Report
						Projected failure 2026; Within the City of Naples; Pursue Detailed Capacity/Operational Analysis
						Projected failure 2025 - Continue to Monitor;
						Projected failure 2023; East Central TCMA - Continue to Monitor; Interchange Improvements Proposed in MPO Cost Feasible Plan 2021-2025
						Projected failure 2025 - Continue to Monitor;
						Solutions

Prepared By: _____ Date: _____

- NOTES:
- Transportation Planning
 - Roadway/Name
 - = State Facility
 - TCEA = Transportation Concurrency Exception Area
 - TCMA = Transportation Concurrency Management Area
 - EC = East Central TCMA
 - NW = Northwest TCMA
 - ITMS = Intelligent Traffic Management Systems

ATTACHMENT H



PROJECTED COLLIER COUNTY DEFICIENT ROADS FY 2016 - FY 2025

Growth Management Department
Transportation Planning

0 1 2 4 6 Miles

GIS Mapping: Beth Yang, AICP
Growth Management Department

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	0.64	1.04	6	6.24	6.24
32.2	Collier Boulevard	Golden Gate Pwky	Golden Gate Main Canal	0.63	1.01	4	4.04	4.04
32.3	Collier Boulevard	Golden Gate Main Canal	I-75	0.43	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	0.80	1.71	4	6.83	6.83
15.0	Davis Boulevard	County Barn Road	Santa Barbara Boulevard	0.71	0.75	4	3.02	3.02
16.1	Davis Boulevard	Santa Barbara Boulevard	Radio Rd.	0.24	2.62	6	15.71	15.71
16.2	Davis Boulevard	Radio Rd.	Collier Boulevard	0.40	2.32	6	13.93	13.93
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	0.84	2.21	4	8.84	8.84
27.0	Green Boulevard	Santa Barbara Boulevard	Collier Boulevard	0.80	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	0.42	1.41	6	8.49	8.49
49.0	Logan Boulevard	Pine Ridge Road	Green Boulevard	0.74	0.88	4	3.53	3.53
67.1	Pine Ridge Road	Airport Road	Livingston Rd.	0.94	2.09	6	12.56	12.56
67.2	Pine Ridge Road	Livingston Rd.	I-75	1.06	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	0.54	1.88	4	7.53	7.53
70.0	Radio Road	Livingston Road	Santa Barbara Boulevard	0.62	2.00	4	7.98	7.98
71.0	Radio Road	Santa Barbara Boulevard	Davis Boulevard	0.37	1.34	4	5.36	5.36
76.0	Santa Barbara Boulevard	Green Boulevard	Golden Gate Parkway	0.59	1.70	4	6.81	6.81
77.0	Santa Barbara Boulevard	Golden Gate Parkway	Radio Road	0.59	1.40	6	8.43	8.43
78.0	Santa Barbara Boulevard	Radio Road	Davis Boulevard	0.49	1.05	6	6.32	6.32
					35.44		180.10	166.91

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

Total Lane Miles: 180.10
Lane Miles <=1.00 V/C: 166.91
Percent Lane Miles Meeting Standard: 92.7%

TCMA Report
Collier County Transportation Concurrency Management System

AUIR ID	Street Name	From	To	PKHR-PkDir V/C Ratio ⁽¹⁾	Length	#Lanes	Lane Miles	Lane Miles @ VC <= 1.00
Northwest TCMA								
66.0	Pine Ridge Road	Shirley Street	Airport Road	0.88	0.81	6	4.9	4.88
98.0	Tamiami Trail North	Lee County Line	Wiggins Pass Road	0.68	1.67	6	10.0	10.02
99.0	Tamiami Trail North	Wiggins Pass Road	Immokalee Road	0.84	1.52	6	9.1	9.11
100.0	Tamiami Trail North	Immokalee Road	Vanderbilt Beach Road	0.74	1.51	6	9.1	9.06
101.0	Tamiami Trail North	Vanderbilt Beach Road	Gulf Park Drive	0.74	1.26	6	7.6	7.58
102.0	Tamiami Trail North	Gulf Park Drive	Pine Ridge Road	0.60	1.44	6	8.6	8.64
109.0	Vanderbilt Beach Road	Gulfshore Drive	Tamiami Trail	0.65	1.34	2	2.7	2.68
110.1	Vanderbilt Beach Road	Tamiami Trail	Goodlette-Frank Road	0.78	1.87	4	7.5	7.50
111.1	Vanderbilt Beach Road	Airport Road	Livingston Rd.	0.62	3.22	6	19.3	19.30
114.0	Vanderbilt Drive	Lee County Line	Wiggins Pass Road	0.45	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	0.42	1.05	2	2.1	2.10
1.0	Airport Road	Immokalee Road	Vanderbilt Beach Road	0.58	1.97	4	7.9	7.89
2.1	Airport Road	Vanderbilt Beach Road	Orange Blossom Dr.	0.70	1.53	6	9.2	9.18
20.1	Golden Gate Parkway	Airport Road	Livingston Rd.	0.69	1.97	6	11.8	11.81
23.0	Goodlette-Frank Road	Immokalee Road	Vanderbilt Beach Road	0.92	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	0.64	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.	0.65	1.47	6	8.8	8.84
42.1	Immokalee Road	Airport Road	Livingston Rd.	0.91	1.96	6	11.8	11.79
51.0	Livingston Road	Imperial Street	Immokalee Road	0.47	3.31	6	19.8	19.85
52.0	Livingston Road	Immokalee Road	Vanderbilt Beach Road	0.54	1.99	6	12.0	11.96
53.0	Livingston Road	Vanderbilt Beach Road	Pine Ridge Road	0.52	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	0.68	0.50	6	3.0	3.02
65.0	Pine Ridge Road	Goodlette-Frank Road	Shirley Street	0.69	0.67	6	4.0	4.05
2.2	Airport Road	Orange Blossom Dr.	Pine Ridge Rd.	0.69	2.92	6	17.5	17.51
20.2	Golden Gate Pwky	Livingston Rd.	I-75	0.88	1.97	6	11.8	11.82
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	0.72	1.78	7	12.5	12.48
62.0	Old US 41	US 41 (Tamiami Trail)	Lee County line	0.97	1.57	2	3.1	3.14
110.2	Vanderbilt Beach Road	Goodlette-Frank Rd.	Airport Road	0.68	2.40	4	9.6	9.58
111.2	Vanderbilt Beach Road	Livingston Rd.	Logan Blvd.	0.70	3.11	6	18.7	18.68
							299.80	299.80

Total Lane Miles: 299.8
Lane Miles <=1.0 V/C: 299.8
Percent Lane Miles Meeting Standard: 100.0%

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

Attachment J

**FY16 Activity Report on continuing Projects under Contract/DCA/Advanced Construction
(Dollars shown in Thousands)**

Project Number	SUMMARY OF PROJECTS BY NAME	FY16 Amount
60040	Golden Gate Blvd Wilson to 20th	20,398
68056	Collier Blvd (Green to Golden Gate Blvd)	18,678
61001	Tree Farm/Woodcrest	1,943
60132	Immokalee Road/CR 951	4,496
	Total	45,515

****As of 6/30/16**

The following are Developer Agreements with Active Commitments:

- Ave Maria**
- Benderson (Collier Blvd Mixed Use & Golden Gate Commerce Park)**
- Caloosa Reserve (Mockingbird Crossing)**
- City Gate**
- E's Country Store**
- Florida Rock**
- Hacienda Lakes**
- Orange Blossom Ranch**
- Parklands**
- Randall Blvd (Emergent Group)**
- Warm Springs**

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**

2016 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	465 Miles
-----------------------	-----------

System Maintained By Collier County:

Based on current Collier County GIS Database

Existing Major Canals	110 Miles
Proposed Reconstruction/Additions within 5-Year Planning Period	2.8 Miles
Existing Water Control Structures	63
Proposed Replacement/Additional Structures within 5-Year Planning Period	6

Stormwater Program Summary FY 2017 thru FY 2021

Recommended Work Program	\$ 33,135,000
Recommended Operating Costs	\$ 5,402,000
Interest/Misc	\$ 142,000

Recommended Revenues	\$ 38,679,000
Five-Year Surplus or (Deficit)	\$ 0

1. Existing Revenue Sources FY 17-21

General Fund (001)	\$ 13,406,000
General Fund (111)	\$ 22,150,000
Big Cypress Basin (BCB) Grant	\$ 800,000
Dep. of Environmental Protection (DEP) Grant	\$ 375,000
BP/RESTORE Act	\$ 1,500,000
Interest/Misc	\$ 250,000
Carry forward	\$ 208,000
Less 5% required by law	\$ (10,000)
Total	\$ 38,679,000

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 2016 Stormwater Management System AUIR and adopt the CIE Update for FY2016/17 – FY2020/21.

EXISTING MAJOR CANAL SYSTEMS AND CONTROL STRUCTURES

Currently, the County maintains 110 miles of canal (including ditches) and 63 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.

Each control structure (Table 3) has an overall condition rating based on a 2012 evaluation. The condition of the structure is 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. Design of three (3) structure replacements has been completed and construction planning is currently underway.

Collier County Major Stormwater Conveyance System

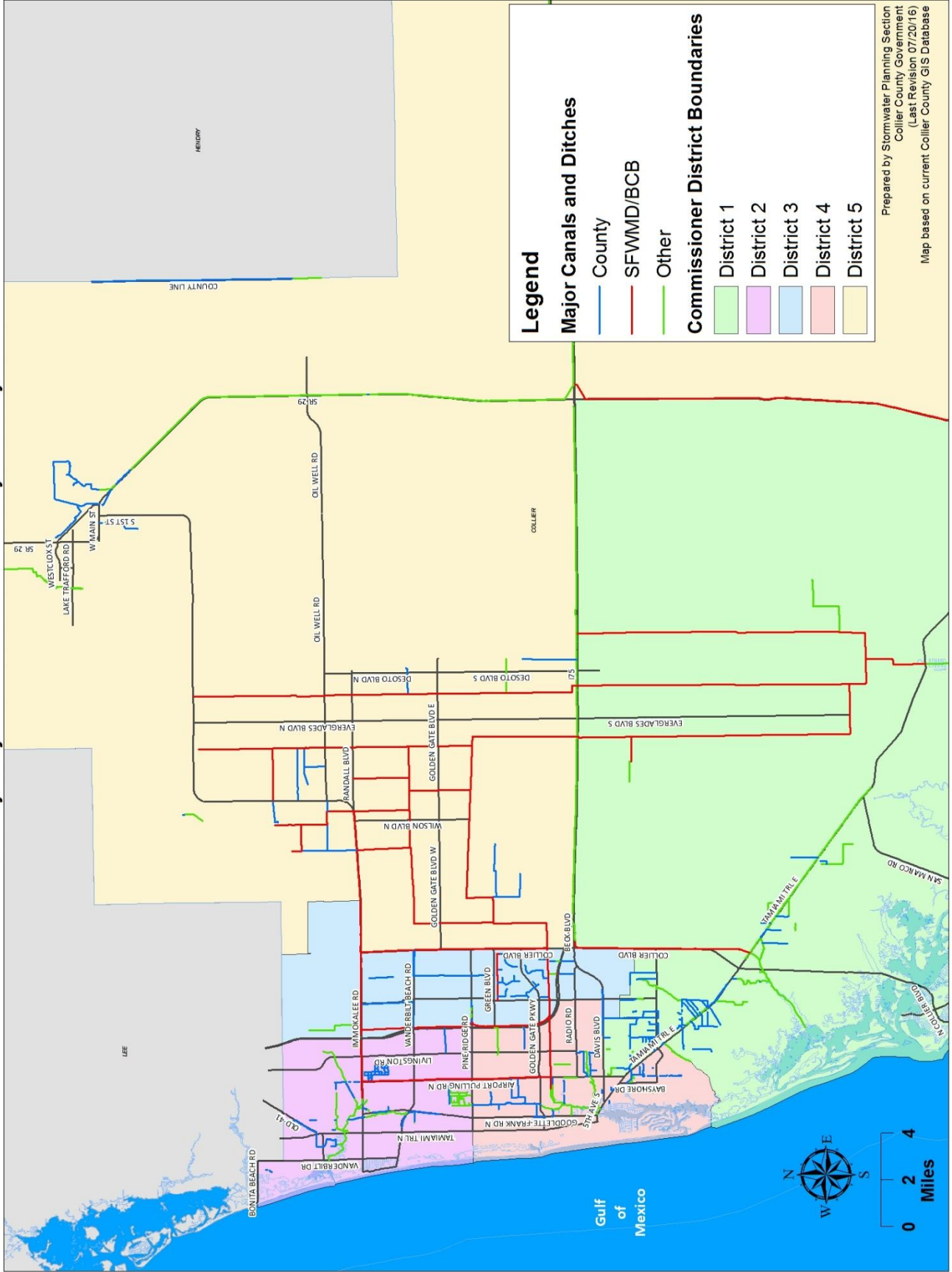


Figure 1: Collier County Major Stormwater Canal System

Collier County Major Stormwater Control Structures

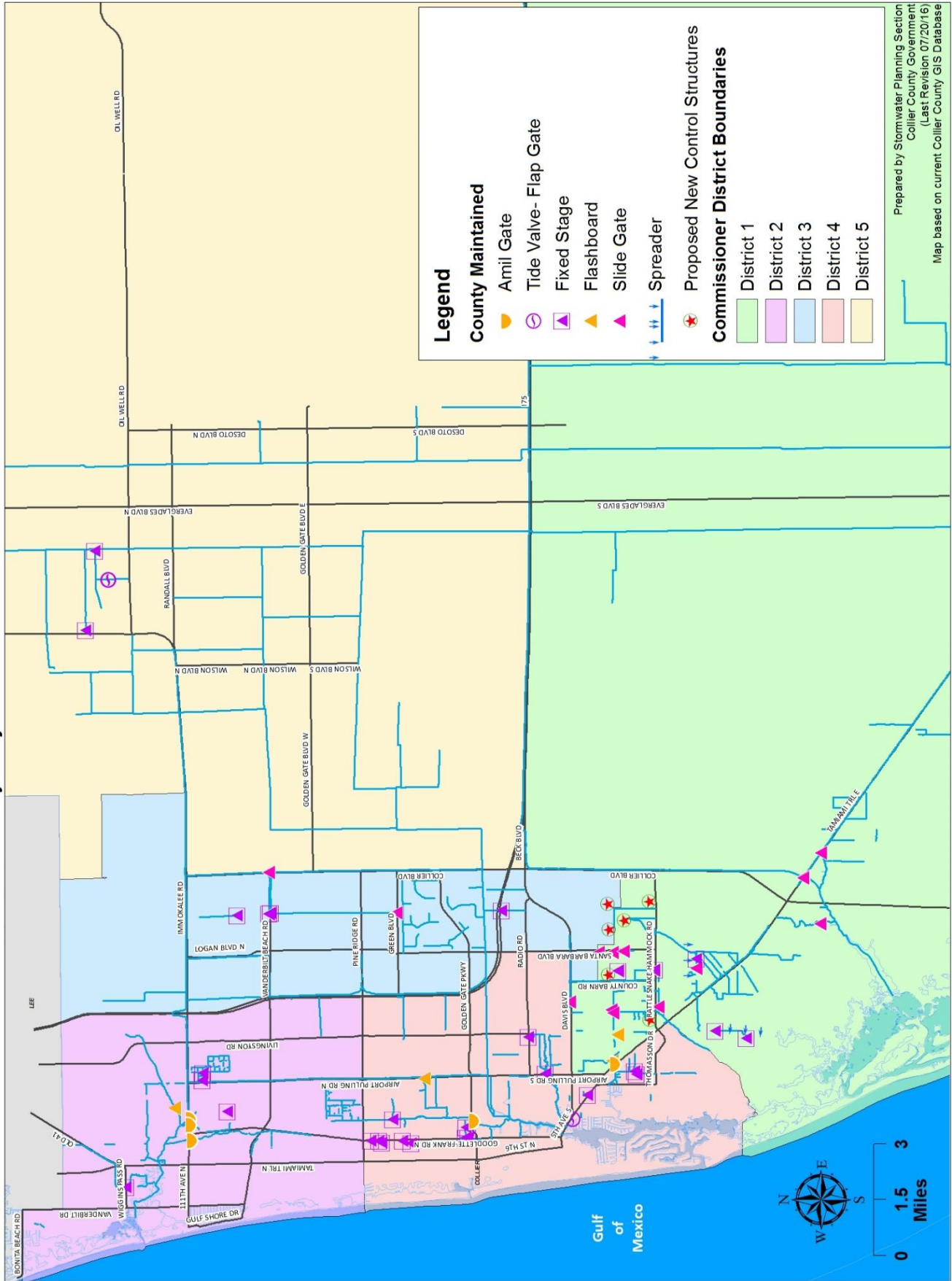


Figure 2: Collier County Major Stormwater Control Structures

2016 AIUR FACILITY 5-YEAR WORK PROGRAM - Stormwater Management

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

Table 1: FY 17 - FY 21

Plan Year		1		2		3		4		5		5 - Year Totals
Fiscal Year		FY 17		FY 18		FY 19		FY 20		FY 21		
Proj. No.	County Wide Programs, Planning & Maintenance											
51144	Stormwater Feasibility and Preliminary Design	300	P	300	P	300	P	300	P	300	P	1,500
60121	NPDES MS4 Program	100	P	100	P	150	P	150	P	150	P	650
60094	Secondary System Repair	100	M	100	M	100	M	100	M	100	M	500
60194	Stormwater Maintenance	50	M	100	M	100	M	100	M	100	M	450
	Infrastructure & Capacity Projects											
51101	LASIP	127	M									127
51029	GG City Outfall Replacements	500	C	1,000	DC	1,000	DC	1,000	DC	1,000	DC	4,500
51803	Gateway Triangle Improvements	150	RD									150
60126	Pine Ridge SW Improvements (FKA Mockingbird Lake)	100	PD	200	PDC	131	DC	100	DC	100	DC	631
60103	Haldeman Creek Weir Replacement *	1,800	C									1,800
60119	Pine Ridge Canal Weir Replacement	100	C									100
60122	Vanderbilt Drive Area SW Improvements	50	C									50
60143	Immokalee Stormwater Improvements	1,000	DR	531	RDC	596	RDC	662	RDC	730	DC	3,519
60139	Naples Park SW Improvements	1,767	DC	1,600	DC	1,600	DC	1,600	DC	1,600	DC	8,167
60142	W. Goodlette-Frank Road Stormwater Improvements	500	D	532	C	596	C	662	C	730	C	3,020
TBD	Lely Branch Canal Weir			220	DA	200	C					420
60195	Harbor Lane Brookside	60	DP	500	C							560
60102	Gordon River Stormwater Improvements	100	P	100	D	1,000	RA	1,312	A	1,396	C	3,908
60196	Griffin Road Area Stormwater Improvements	300	D	283	C							583
60127	North Golden Gate Estates Flowway	200	PA	200	PA	200	PA	200	PR	200	PR	1,000
TBD	RESTORE**							500	PD	1,000	PD	1,500
	Total Projects	7,304		5,766		5,973		6,686		7,406		33,135
	Reserves	2		35		35		35		35		142
												0
	Stormwater Operating (Fund 324)	822		1,145		1,145		1,145		1,145		5,402
												0
	Total Program Cost***	8,128		6,946		7,153		7,866		8,586		38,679

* Denotes projects with FY 17 funding including grant awards; see program revenue section below.

** Funding reflected in FY20 & FY21 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. 2017 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 17		FY 18		FY 19		FY 20		FY 21		
	Trans fm 001	2,525		2,601		2,679		2,759		2,842		13,406
	Trans fm 111 Unincorporated	4,172		4,297		4,426		4,559		4,696		22,150
	BCB Grant Award to Haldeman Creek Weir	800										800
	DEP Grant Award to Naples Park	375										375
	BP/RESTORE Act							500		1,000		1,500
	Interest/Misc	50		50		50		50		50		250
	Neg 5% Revenue Reserve	(2)		(2)		(2)		(2)		(2)		(10)
	Carry Forward	208										208
	Total Program Revenue	8,128		6,946		7,153		7,866		8,586		38,679

FY 17 – 21 PROJECT DESCRIPTIONS

Countywide Programs, Planning & Maintenance

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

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)

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. Secondary System Repair (P/N 60094)

Planning and execution on an as-needed or contingency basis of unexpected necessary system infrastructure repairs or replacements. These efforts are characteristically slightly more complex than typical operation and maintenance repairs, requiring some basic planning, permitting, design, and construction oversight

4. Stormwater Maintenance (P/N 60194)

Project includes funding of various maintenance activities associated with certain existing stormwater assets.

Infrastructure & Capacity Projects

5. LASIP (P/N 51101)

Major improvements to the Lely Canal, Lely Branch Canal, and Lely-Manor Canal Systems in the East Naples area. Construction of the last three (3) segments, of the original 27 component project which began in 2006, is underway and will be complete in 2017. Subsequent to the project's overall completion, funding will continue to provide for recurrent maintenance and monitoring, assuring total system effectiveness.

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

Project is to improve 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 the replacement and improvements to 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 basins, re-grading and sodding of swales to prevent erosion, and providing water quality improvement.

7. 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. Next steps are thorough vetting with homeowners.

8. Pine Ridge Stormwater Management Improvements (FKA Mockingbird Lake) (P/N 60126)

This project includes replacement and improvements to existing aging infrastructure in Pine Ridge Estates such as catch basins, culverts and re-grading and sodding of swales.

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

This project includes the design and 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 has reached the end of its useable life cycle and is in need of full replacement; it has structural and mechanical deficiencies, as well as operational and maintenance issues and thus cannot meet stormwater management goals. Haldeman Creek flows into Naples Bay just south of the Royal Harbor neighborhood.

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

The weir has current documented structural and mechanical deficiencies as well as operational and maintenance issues (2012 CH2MHill Report). This project has been initiated to first evaluate the existing conditions of the basin, verifying peak discharge rates and stages, and based on findings, recommend the degree of necessary remediation. Subsequent efforts will include design, permitting and construction activities necessary for weir replacement.

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

This project will include reconstruction of the roadside swale along the east side of Vanderbilt Drive adjacent to Naples Park, and in the Conner's Sub-division (west of Vanderbilt Drive). Design has been completed. Construction expected to begin in FY17.

12. Immokalee Stormwater Improvements (P/N 60143)

This project includes an update to the Immokalee Stormwater Master Plan, future stormwater treatment pond site 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.

13. Naples Park Stormwater Improvements (P/N 60139)

In coordination with the Public Utilities Division, this project will include water main and possibly sanitary sewer collection system replacements, this project is consideration of roadside swale stormwater management system reconstruction in conjunction with utility replacement work; includes all east-west streets in the Naples Park Subdivision.

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

Project planning has begun in coordination with the City of Naples Wastewater Collection System improvements 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. Work will include water quality improvements designed to decrease nutrient concentrations in sensitive impaired receiving waters.

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

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. A feasibility analysis has been completed.

16. Harbor Lane Brookside (P/N 60195)

Funds are available to begin a survey of the existing street and stormwater management system.

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

The project focus 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, and supplemental native vegetation plantings to improve water quality, flow conveyance and aquifer recharge.

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. 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 currently conveyed to the canal system into surrounding low-lying wetland areas. 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.

Collier County Stormwater 2016 AUIR Project Location Map

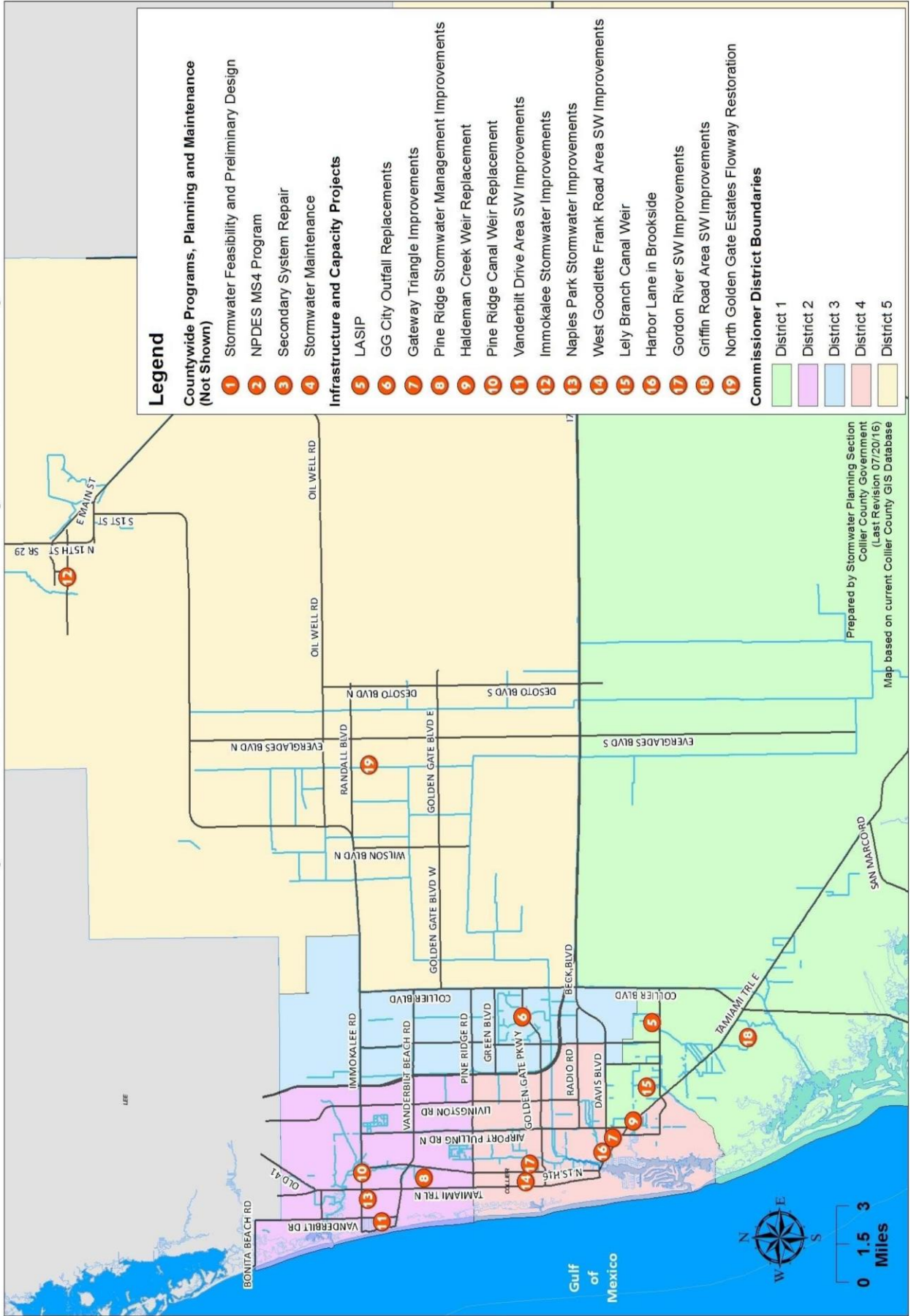


Figure 3: 2016 AUIR Project Location Map

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 four years staff has been identifying existing stormwater management assets and sequentially building the stormwater management system geodatabase. The database currently includes 100% of the main canals and ditches, water level, and flow control structures and 90% of the 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). The effort to complete the database is ongoing and will continue for several more years. Updates will continue perpetually.

Attachment “C”

Table 2 - Current Collier County Canal System

	Branch ID	Facility Name	Length (MI)
1	SC-1027	SC-1027	0.02
2	9CC-00	951 Canal	4.97
3	9CN-00	951 Canal	1.98
4	ARN-00	Airport Road North Canal	1.84
5	ARN-01	Four Seasons Perimeter Ditch	1.59
6	ARN-02	Four Seasons Perimeter Ditch	1.25
7	ARN-03	Four Seasons Lateral Ditches	0.05
8	ARN-04	Four Seasons Lateral Ditches	0.06
9	ARN-05	Four Seasons Lateral Ditches	0.05
10	ARN-06	Four Seasons Lateral Ditches	0.11
11	ARN-07	Four Seasons Lateral Ditches	0.11
12	ARN-08	Four Seasons Lateral Ditches	0.06
13	ARN-09	Four Seasons Lateral Ditches	0.14
14	ARN-11	Four Seasons Lateral Ditches	0.07
15	ARN-12	Four Seasons Lateral Ditches	0.18
16	ARN-13	Four Seasons Lateral Ditches	0.10
17	ARN-14	Four Seasons Lateral Ditches	0.08
18	ARN-15	Four Seasons Lateral Ditches	0.05
19	ARN-16	Four Seasons Lateral Ditches	0.08
20	ARN-17	Four Seasons Lateral Ditches	0.07
21	ARN-18	Four Seasons Lateral Ditches	0.07
22	ARN-20	Four Seasons Lateral Ditches	0.06
23	ARN-21	Four Seasons Lateral Ditches	0.10
24	ARN-22	Four Seasons Lateral Ditches	0.08
25	ARS-00	Airport Road South Canal	4.92
26	BRC-00	SR 29 Canal (Barron River)	26.65
27	BRC-01	SR 29 Canal (Barron River)	4.28
28	BRN-00	Barron River North Canal	11.22
29	BRN-01	Barron River North Canal	0.47
30	BRN-01	Immokalee Airport Perimeter Canal	3.56
31	BRN-02	Immokalee Airport Perimeter Canal	1.37
32	BRN-04	BRN-04	0.24
33	BRN-05	BRN-05	0.14
34	C4C-00	Eagle Creek Canal	0.39
35	C4C-00	C-4 Canal	0.98
36	C4C-01	Wing South	1.45
37	C4C-02	Skyway Drive	0.72
38	C4C-03	C4C-03	0.93
39	C4C-04	C4C-04	1.24
40	CCB-00	Corkscrew Canal	5.57
41	CCB-01	CCB-01	1.87
42	CCB-01	Twin Eagles Ditch	2.10
43	CCB-02	Twin Eagles Ditch	1.02
44	CCB-03	Twin Eagles Ditch	0.37
45	CCB-04	CCB-04	0.04
46	CCB-05	Corkscrew Sanctuary Ditch	0.85
47	CCB-06	CCB-06	0.99
48	CCB-07	Corkscrew Sanctuary Ditch	0.94
49	CRB-00	Cocohatchee River Canal	11.81
50	CRB-01	CRB-01	0.32
51	CRB-01	Horse Creek	0.34
52	CRB-02	CRB-02	0.21
53	CRB-03	CRB-03	0.05
54	CRB-04	CRB-04	2.18
55	CRB-05	CRB-05	0.05
56	CRB-05	Encore Way Outfall	0.23
57	CRB-06	Encore Way Outfall	0.20
58	CSB-04	CSB-09	0.40
59	CSB-05	Fish Creek	4.64
60	CYC-00	Cypress Canal	8.17
61	CYC-01	Curry Canal	2.00
62	D1C-00	Harvey Canal	3.04
63	D1C-01	D1C-01	0.92
64	D2C-00	I-75 Canal	7.29
65	D2C-01	D2C-02	0.47

66	D2C-01	Napa Ditch	0.13
67	D2C-02	Oaks/ Vanderbilt Canal	0.98
68	D2C-03	D2C-03	0.03
69	D2C-03	Wyndemere south outfall	0.81
70	D2C-04	Livingston Woods Outfall	0.92
71	D2C-05	Kensington Canal	0.99
72	D2C-05	D2C-05	0.13
73	D2C-06	Oaks/ Vanderbilt Canal	1.92
74	D2C-07	D2C-07	1.35
75	D2C-08	D2C-08	0.88
76	D2C-09	D2C-09	0.01
77	Davis	Davis	0.11
78	EBC-00	Coco East Outfall	0.24
79	EMC-00	EMC-00	0.07
80	EMC-00	Merritt Canal	12.04
81	EMC-02	EMC-02	0.94
82	EMC-02	Desoto Ditch	2.05
83	EMC-03	EMC-03	9.36
84	FKC-00	FKC-00	3.85
85	FKC-00	Faka Union Canal	29.39
86	FKC-01	FKC-01	1.03
87	FKC-02	FKC-02	1.24
88	FKC-03	FKC-03	1.29
89	FKC-04	Desoto Ditch	1.02
90	FPC-00	Prairie Canal	3.03
91	GCB-00	Green Canal	1.94
92	GCB-00	Sunrise Canal	0.73
93	GCB-01	Neptune Canal	0.59
94	GCB-02	Hunter Canal	0.90
95	GCB-03	Tahiti Canal	0.19
96	GCB-04	Lucerne Canal	0.21
97	GCB-05	Sunset Canal	0.18
98	GCB-06	Sunshine Canal	0.38
99	GCB-06	Sunshine Canal	0.37
100	GCB-07	Serenade Canal	0.12
101	GRE-00	Forest Lakes West Side	5.98
102	GRE-01	GRE-01	0.34
103	GRE-01	Goodlette Rd. Pine Ridge to GG Blvd.	0.38
104	GRE-02	GRE-02	0.21
105	GRE-03	Wilderness Ditch	0.41
106	GRE-04	Poinciana Village (Estuary Canal)	1.49
107	GRE-05	Poinciana Village	0.73
108	GRE-07	GRE-07	0.19
109	GRE-08	Forest Lakes South Side	0.49
110	GRE-09	Pine Ridge I.P. Ditches	0.07
111	GRE-10	Pine Ridge I.P. Ditches	0.19
112	GRE-11	Pine Ridge I.P. Ditches	0.03
113	GRE-12	Pine Ridge I.P. Ditches	0.70
114	GRE-13	Yahl Street Canal	0.25
115	GRE-14	Pine Ridge I.P. Ditches	0.05
116	GRE-15	Pine Ridge I.P. Ditches	0.30
117	GRE-16	Pine Ridge I.P. Ditches	0.00
118	GRE-17	GRE-17	0.70
119	GRE-18	Pine Ridge I.P. Ditches	0.05
120	GRE-20	Pine Ridge I.P. Ditches	0.11
121	GRE-21	Pine Ridge I.P. Ditches	0.11
122	GRE-22	Pine Ridge I.P. Ditches	0.20
123	GRE-23	Pine Ridge I.P. Ditches	0.29
124	GRE-24	Pine Ridge I.P. Ditches	0.03
125	GRE-28	Pine Ridge I.P. Ditches	0.12
126	GRE-29	Pine Ridge I.P. Ditches	0.04
127	GRE-30	Pine Ridge I.P. Ditches	0.03
128	GRE-31	Pine Ridge I.P. Ditches	0.01
129	GRE-32	Pine Ridge I.P. Ditches	0.33
130	GRE-33	Pine Ridge I.P. Ditches	0.06
131	GRE-34	Pine Ridge I.P. Ditches	0.05
132	GRE-35	Pine Ridge I.P. Ditches	0.04
133	GRE-37	Pine Ridge I.P. Ditches	0.03
134	GRE-51	Baily Lane Ditch	0.12
135	GRE-52	Baily Lane Ditch	0.04
136	GTB-05	GTB-05	0.10

137	GTB-05	Manorca Street Swale	0.08
138	GTB-14	Village Plaza Ditch	0.11
139	HCB-00	Haldeman Creek	1.48
140	HCB-01	Lake Kelly Outfall	0.90
141	HCB-02	Sugden Park (Lake Avalon)	0.07
142	HCB-07	Guilford Rd.	0.43
143	HCB-08	Guilford Rd.	0.30
144	HCB-09	HCB-09	0.25
145	HCB-10	HCB-10	0.13
146	HCB-17	HCB-17	0.09
147	HCB-18	HCB-18	0.10
148	HCB-19	HCB-19	0.09
149	HCB-20	HCB-20	0.06
150	HEC-00	Henderson Creek	4.61
151	HEC-00	Henderson Canal	8.61
152	HEC-03	HEC-03	0.98
153	HEC-04	HEC-04	1.09
154	HEC-05	HEC-05	0.25
155	HEC-06	HEC-06	6.16
156	HEC-07	Roost Rd	0.89
157	IDO-00	Horse Creek	1.11
158	IDO-00	Palm River Eastwood Ditched	0.27
159	IWO-01	Imperial/FPL Ditch	0.29
160	L28-00	L-28 Tieback	9.69
161	L28-01	Alligator Alley Canal	33.26
162	L28-01	L28-01	0.98
163	LCB-00	Lely Canal Branch	1.25
164	LCB-00	Lely Main Canal East-West	0.87
165	LCB-00	Lely Main Canal North-South	0.33
166	LCB-00	Naples Mobile Estates Ditch	0.02
167	LCB-00	Santa Barbara Ext Canal	0.82
168	LCB-01	Davis Blvd. ditch	1.41
169	LCB-01	LCB-01	0.00
170	LCB-01	Lely Main Canal North-South	0.08
171	LCB-01	Riviera Golf Estates Ditch	0.05
172	LCB-01	Riviera Powerline Canal	0.98
173	LCB-02	Boca Ciega Ditch	0.49
174	LCB-02	Hawaii Blvd Ditches	0.09
175	LCB-03	Boca Ciega Ditch	0.06
176	LCB-04	Saint Peters Swales	0.22
177	LCB-05	Hawaii Blvd Ditches	0.19
178	LCB-06	Queens Park North	0.05
179	LCB-07	Hawaii Blvd Ditches	0.18
180	LCB-08	Colony Pines Ditch	0.18
181	LCB-09	County Barn Rd	1.73
182	LCB-10	Riviera Golf Estates Ditch	0.93
183	LCB-11	Naples Mobile Estates Ditch	0.71
184	LCB-12	Lely Canal Branch	0.25
185	LCB-13	Lake Lenore Ditch	0.37
186	LCB-13	Lely Main Canal East-West	0.06
187	LCB-15	Naples Mobile Estates Ditch	0.01
188	LCB-17	Lely Main Canal North-South	0.02
189	LCB-19	LCB-19	0.13
190	LCB-20	LCB-20	0.01
191	LMB-00	Lely Manor Outfall Canal	0.82
192	LMB-00	Lely Manor Outfall South Section	0.77
193	LMB-00	Naples Manor North Canal	1.29
194	LMB-01	Myrtle Cove West	0.53
195	LMB-01	Naples Manor Perimeter Ditch	0.69
196	LMB-03	Myrtle Cove East	0.48
197	LMB-03	Naples Manor Ditches	0.50
198	LMB-04	Lely Manor Canal	0.19
199	LMB-05	Naples Manor Ditches	0.84
200	LMB-06	Lely Manor Canal	0.71
201	LMB-07	Naples Manor Ditches	0.01
202	LMB-07	Treviso Canal East	0.86
203	LMB-07	Treviso Canal West	0.50
204	LMB-08	Lely Manor Canal	0.17
205	LMB-09	Lely Manor Canal	0.20
206	LMB-10	Lely Manor Canal	0.05
207	LMB-10	Naples Manor Perimeter Ditch	0.13

208	LMB-11	Lely Manor Canal	0.23
209	LMB-11	Saint Andrews Daycare Ditch	0.03
210	LMB-13	Lely Manor Canal	0.01
211	LMB-13	Naples Manor Ditches	0.22
212	LMB-14	Four Fountains Ditch	0.09
213	LMB-15	Lely Manor Canal	0.17
214	MCB-00	Cocohatchee River (Horse Creek)	1.78
215	MCB-01	MCB-01	0.22
216	MCB-06	MCB-06	0.13
217	MCB-07	MCB-07	0.75
218	MCB-09	MCB-09	1.14
219	MCB-09	Benson/Porter Ditch	0.70
220	MCB-10	MCB-10	0.09
221	MCB-10	Benson/Porter Ditch	0.69
222	MCB-11	MCB-11	0.33
223	MCB-12	Trail Acres	0.73
224	MCB-13	MCB-13	1.94
225	MCB-14	MCB-14	0.16
226	MCB-15	Lake Park Rd	0.34
227	MCB-17	MCB-17	0.21
228	MGG-00	Main Golden Gate Canal	27.67
229	MGG-01	Sunflower Canal	0.30
230	MGG-02	Shell Canal	0.17
231	MGG-02	Tropicana Canal	1.20
232	MGG-03	Sunfish Canal	0.31
233	MGG-04	Coronado Canal	1.07
234	MGG-04	Santa Barbara Canal	0.20
235	MGG-05	Ibis Canal	0.20
236	MGG-06	Coronado Canal	0.13
237	MGG-09	C-2 North/South canal	1.90
238	MGG-10	C-2 East/West Canal	2.06
239	MGG-12	Fairgrounds Canal	1.98
240	MGG-13	Corkscrew Canal	0.12
241	MGG-13	Golden Gate Side Branch Cana	1.89
242	MGG-14	MGG-14	0.46
243	MGG-15	MGG-15	0.36
244	MGG-15	Palm Springs Outfall	0.50
245	MGG-16	MGG-16	0.33
246	MGG-16	Radio Rd outfall	0.60
247	MGG-17	Coconut Outfall Swale	0.93
248	MGG-18	Transfere Station Ditch	0.73
249	MGG-19	Boltt Canal	1.40
250	MGG-20	MGG-20	0.07
251	MGG-20	Boltt Canal	0.66
252	MJC-00	Miller Canal	19.16
253	MJC-01	MJC-01	1.31
254	MJC-02	MJC-02	0.68
255	MJC-03	C-1 Canal	1.67
256	OSB-01	County Line Rd Canal	8.71
257	OTC-00	Orange Tree Canal	2.12
258	PLM-00	Palm River Canal	1.12
259	PLM-00	Palm River Raven Way Ditch	0.37
260	PLM-01	Plam River Slough	1.61
261	PRC-00	Goodlette Rd. VBR to Pine Ridge	1.19
262	PRC-00	Pine Ridge 1 Canal	0.83
263	PRC-00	Pine Ridge Canal	1.44
264	PRC-01	Hickory Road Ditch	0.47
265	PRC-02	Carica Road Ditch	0.33
266	PSB-00	Palm Street Outfall	0.10
267	RCB-00	Rock Creek	2.76
268	RCB-01	RCB-01	0.46
269	RCB-02	Gail/Hazel Ditches	0.96
270	RCB-03	North Rd Ditch	0.91
271	RCB-04	RCB-04	0.31
272	RCB-05	Estey/San Remo ditch	0.23
273	RCB-06	Flamingo/Bluebird ditch	0.25
274	RCB-07	RCB-07	0.12
275	RCB-08	Lotus Swale	0.03
276	S1S-00	Paradise Point Canal	0.48
277	S1S-00	U.S. 41 Outfall Swale No. 1	1.89
278	S1S-01	S1S-01	0.61

279	S1S-02	S1S-02	1.28
280	S1S-04	S1S-04	0.74
281	S1S-04	Manatee Canal	0.56
282	S1S-05	S1S-05	0.36
283	S1S-06	S1S-06	0.11
284	S2S-01	S2S-01	0.01
285	SPO-00	Seminole Park Outlet	4.05
286	SPO-01	Riggs Rd	1.02
287	TRB-01	TRB-01	1.50
288	TRB-01	Bamboo Strand	0.06
289	TRB-01	Doctors Prair	0.06
290	TRB-01	Firewater Canal	25.98
291	TRB-01	Jabba Canal	0.06
292	TRB-01	LITTLE MARSH	0.05
293	TRB-01	Rest Area Canal	0.57
294	TRB-01	Wilson Cypress Canal	0.05
295	UIB-00	Immokalee Main Canal	3.29
296	UIB-03	UIB-03	0.08
297	UIB-03	Urban Immokalee Canals	0.51
298	WBB-00	Old US41 Swales	1.33
299	WBB-00	Tarpon Cove Canal	0.68
300	WBB-00	Wiggins Bayr	0.95
301	WBB-01	WBB-01	0.30
302	WBC-00	Coco West Outfall	0.31
303	WBC-00	North Naples Water Treatment	0.46
304	WBC-00	Victoria Park Outfall West End	0.23
305	WBC-00	West Branch Cocohatchee River	0.15
306	WBC-01	West Branch Cocohatchee River	0.02
307	WPO-00	Haldemann Glades Outfall	1.00
308	WPO-00	Winter Park Outfall	0.05
TOTAL			465.10

Table based on current Collier County GIS Database

Table 3: Existing Collier County Stormwater Control Structures

	Structure ID	Facility Name	Overall Rating
1	9CN-00-S0204	CR951 # 2	TBD
2	ARN-02-S0110	Four Seasons Outfall	C2
3	ARN-02-S0120	Four Seasons	C2
4	BRN-00-S0110	Sunniland	C1
5	C4C-00-S0110	Eagle Creek	C2
6	C4C-04-S0090	C4C-04-S0091	TBD
7	C4C-04-S0090	R.H. Slough Weir 1 Naples Manor	TBD
8	D1C-00-S0120	Harvey #1	C2
9	D1C-00-S0150	Harvey #2	C1
10	D1C-01-S0102	VBR Weir	C1
11	D2C-07-S0150	Islandwalk	TBD
12	D2C-08-S0110	Islandwalk Inflow	C1
13	EBC-00-S0110	Coco East	C2
14	GRE-00-S0100	Gordon River	C2
15	GRE-00-S0124	Gordon River Extension	TBD
16	GRE-01-S0480	Goodlette Road Canal #1	C3
17	GRE-01-S0510	Goodlette Road Canal #2	C1
18	GRE-03-S0100	Freedom Park Overflow (Bypass)	C1
19	GRE-04-S0110	Poinciana	TBD
20	GRE-36-S0100	FP Spreader Berm	TBD
21	GRE-36-S0120	FP Wetlands Weir	C1
22	GRE-36-S0240	FP Waterfall	TBD
23	GRE-39-S0100	West Lake Outfall	C1
24	GRE-41-S0130	Twin Lakes Outfall	C1
25	GRE-44-S0140	Sperling Lake Outfall	C1
26	GTB-00-S0100	Flap Gates	C2
27	GTB-01-S0090	Flap Gates	TBD
28	GTB-04-S0110	Gateway Triangle	C2
29	HCB-00-S0130	Haldeman Creek	C2
30	HCB-00-S0200	Lakewood County Club Weir	C1
31	HCB-00-S0220	Weir- Slide Gate	TBD
32	HCB-01-S0100	Lake Kelly	C1
33	HCB-02-S0106	Lake Avalon	C2
34	HEC-03-S0100	Henderson #2	C2
35	HEC-04-S0100	Henderson #4	TBD
36	HEC-05-S0100	Henderson #5	TBD
37	LCB-00-S0122	Doral Circle	C1
38	LCB-00-S0150	Royal Wood	C1
39	LCB-00-S0190	Santa Barbara #1	C1
40	LCB-00-S0210	Santa Barbara #2	C1
41	LCB-00-S0230	Santa Barbara #3	C1
42	LCB-01-S0140	Crown Pointe	C2
43	LCB-01-S0174	Weir- Slide Gate	TBD
44	LCB-15-S0100	Rattlesnake Rd. Weir	C1
45	LCB-20-S0220	LCB-20-S0220	TBD
46	LCB-20-S0230	Whitaker Rd Weir	TBD
47	LMB-00-S0100	LMB-00-S0100	TBD
48	LMB-00-S0100	Manor South	C1
49	LMB-00-S0120	Manor North	C1
50	LMB-00-S0150	Warren Street Weir	TBD
51	MGG-12-S0120	Fairgrounds	TBD
52	MGG-16-S0140	Radio Rd.	C1
53	MGG-19-S0020	Bolt Canal	TBD
54	MGG-20-S0010	Bolt Canal - Flap Gate -1	TBD
55	MGG-20-S0020	Bolt Canal - Flap Gate -2	TBD
56	PLM-00-S0100	Palm River Weir	C2
57	PRC-00-S0110	Pine Ridge 1	C4
58	RCB-02-S0110	Hazel Rd. Weir	C2
59	RCB-04-S0110	Production Park South	C2
60	WBB-01-S0110	Wiggins Pass Weir	C2
61	WBC-00-S0110	Coco West	C2
62	WBC-04-S0130	Victoria Park West Outfall	TBD
63	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.

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 six (6) of the basins that have restricted stormwater discharge rates per Ordinance 2001-27, and sixteen (16) additional basins with proposed restricted discharge rates (Figure 5).

A feasibility study and impact analysis is currently underway to examine the effects of the implementation of the discharge rate restrictions. Staff will meet with the Development Services Advisory Committee to discuss issues such as, but not limited to, redevelopment thresholds, vested future development rights, and incentives. Subsequent actions will include the review and recommendation of Growth Management Plan amendments and Land Development Code amendments (and/or amendments to the Code of Laws and Ordinances) by the Collier County Planning Commission and, the review and final action by the Board of County Commissioners.

Basins and Discharge Rates

<u>Current Six Specific Discharge Limitation Basins</u>	<u>Rate</u>
1. Airport Road North Sub-Basin (North of Vanderbilt Beach Road)	0.04 cfs/acre
2. Airport Road South Sub-basin (South of Vanderbilt Beach Road)	0.06 cfs/acre
3. Cocohatchee Canal Basin	0.04 cfs/acre
4. Lely Canal Basin	0.06 cfs/acre
5. Harvey Basin	0.055 cfs/acre
6. Wiggins Bay Outlet Basin	0.13 cfs/acre
<u>Proposed Additional Basins**</u>	
1. Henderson Creek Belle Meade Basin (North of Sabal Palm Rd.)	0.06 cfs/acre
2. Henderson Creek Belle Meade Basin (South of Sabal Palm Rd.)	0.04 cfs/acre
3. Immokalee Master Plan Area (East of SR 29)	0.05 cfs/acre
4. Immokalee Master Plan Area (West of SR 29)	0.10 cfs/acre
5. CR 951 North Canal Basin	0.11 cfs/acre
6. C4 Basin	0.11 cfs/acre
7. Corkscrew Canal Basin	0.04 cfs/acre
8. Cypress Canal Basin	0.06 cfs/acre
9. Faka Union Canal Basin (North of I-75)	0.09 cfs/acre
10. Gordon River Extension Basin	0.09 cfs/acre
11. I-75 Canal Basin	0.06 cfs/acre
12. Imperial Drainage Outlet Basin	0.12 cfs/acre
13. Lely Manor Canal Basin	0.06 cfs/acre
14. Main Golden Gate Canal Basin	0.04 cfs/acre
15. Palm River Canal Basin	0.13 cfs/acre
16. Pine Ridge Canal Basin	0.13 cfs/acre

**A feasibility study and impact analysis is underway to determine the effects from the implementation of discharge rate restrictions in the 16 additional recommended basins.

Collier County Basins Map

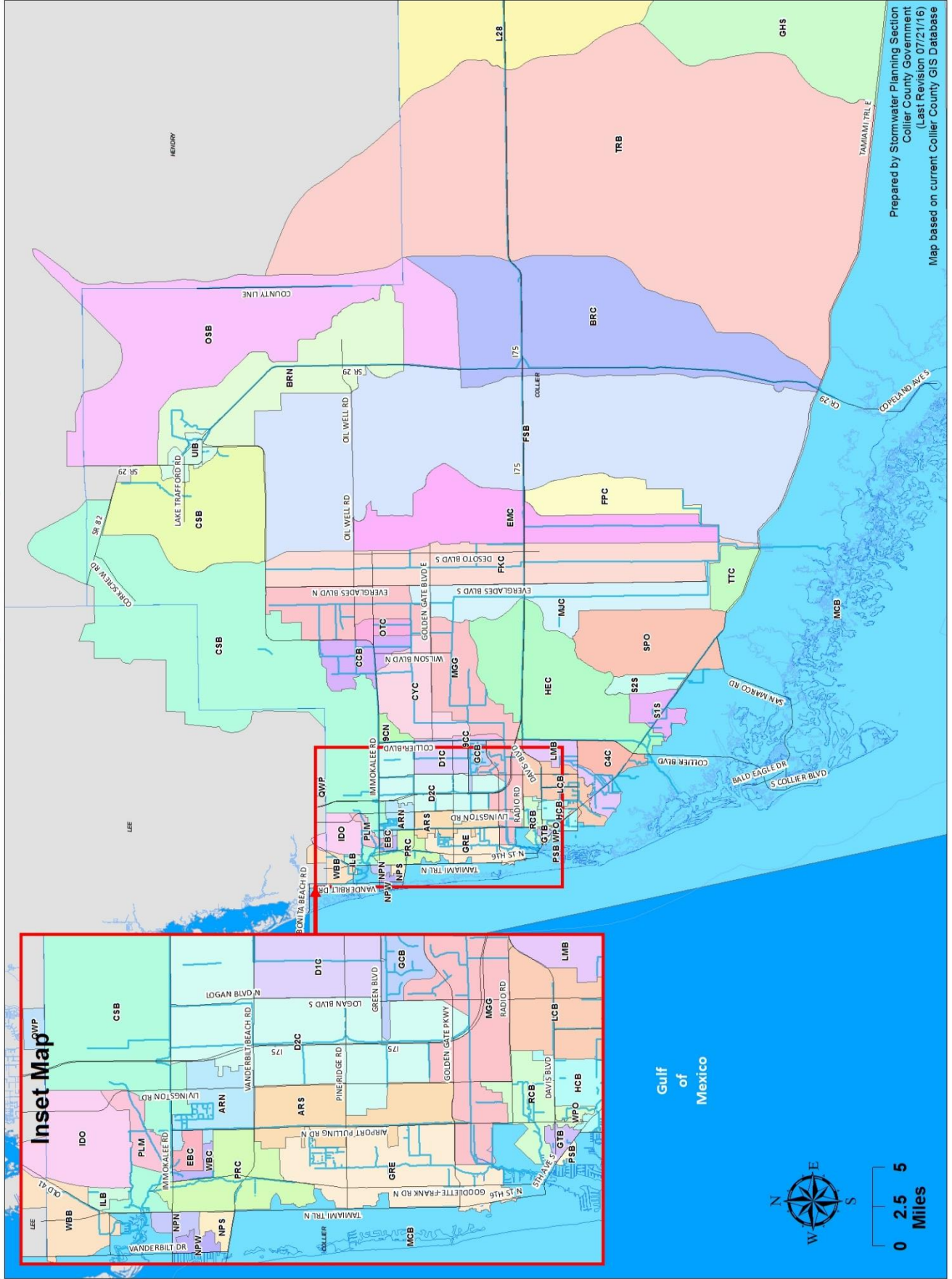


Figure 4: Collier County Basins Map

Collier County Basins Discharge Rate Map

Legend

Current Basins with Restricted Discharge

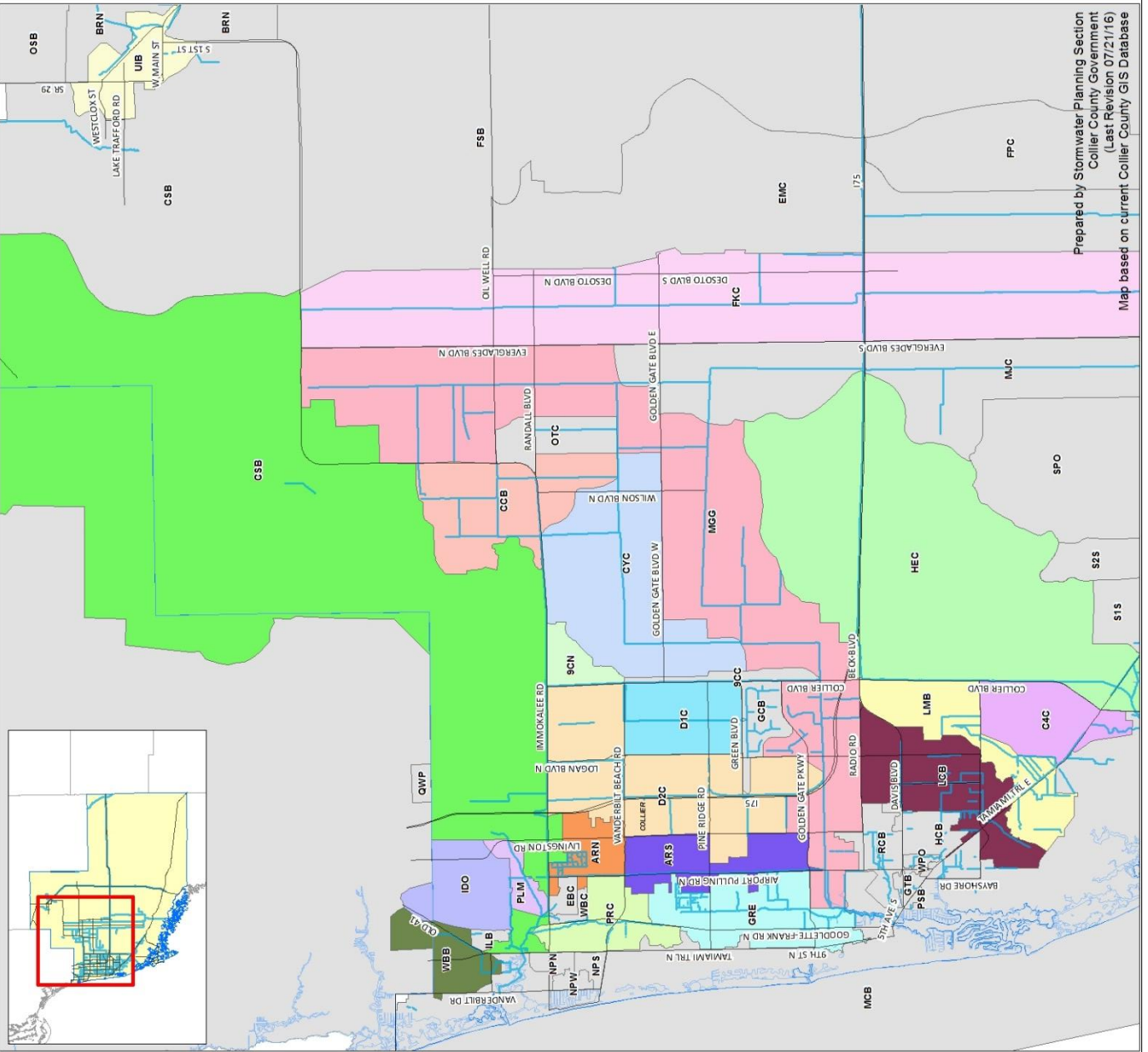
- ARN, Airport Road North Canal Basin (0.04 cfs/ac)
- ARS, Airport Road South Canal Basin (0.06 cfs/ac)
- CSB, Cocohatchee River Canal Basin (0.04 cfs/ac)
- D1C, Harvey Canal Basin (0.055cfs/ac)
- LCB, Lely Canal Basin (0.06 cfs/ac)
- WBB, Wiggins Bay Outlet Basin (0.13 cfs/ac)
- All other Basins (0.15 cfs/ac)

Additional Basins with Proposed Restricted Discharges

- 9CN, 951 Canal North Basin (0.11 cfs/ac)
- C4C, C-4 Canal Basin (0.11 cfs/ac)
- CCB, Corkscrew Canal Basin (0.04 cfs/ac)
- CYC, Cypress Canal Basin (0.06 cfs/ac)
- D2C, I-75 Canal Basin (0.06 cfs/ac)
- FKC, Faka-Union Canal Basin (North of I-75) (0.09 cfs/ac)
- GRE, Gordon River Extension Basin (0.09 cfs/ac)
- HEC, Henderson Creek Basin (North of Sabl Rd., 0.06 cfs/ac) (South of Sabal Rd., 0.04 cfs/ac)
- IDO, Imperial Drainage Outlet Basin (0.12 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, Urban Immokalee Basin (East of SR-29, 0.05 cfs/ac) (West of SR-29, 0.10 cfs/ac)



0 1 2 Miles



Prepared by Stormwater Planning Section
Collier County Government
(Last Revision 07/21/16)
Map based on current Collier County GIS Database

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	756
2	9CN	951 Canal North Basin	1,205
3	ARN	Airport Road North Canal Basin **	1,820
4	ARS	Airport Road South Canal Basin **	3,428
5	BRC	Barron River Basin	67,089
6	BRN	Barron River Canal Basin (North)	32,656
7	C4C	C-4 Canal Basin	3,690
8	CCB	Corkscrew Canal Basin	6,564
9	CSB	Corkscrew Slough Basin	29,468
10	CSB	Cocohatchee River Canal Basin **	85,351
11	CYC	Cypress Canal Basin	10,702
12	D1C	Harvey Canal Basin **	3,708
13	D2C	I-75 Canal Basin	10,833
14	EBC	East Branch Cocohatchee	381
15	EMC	Merritt Canal Basin	30,078
16	FKC	Faka-Union Canal Basin	36,185
17	FPC	Prairie Canal Basin	11,122
18	FSB	Fakahatchee Strand Basin	140,757
19	GCB	Green Canal Basin	1,359
20	GHS	Gator Hook Strand Basin	97,924
21	GRE	Gordon River Extension Basin	5,126
22	GTB	Gateway Triangle Basin	284
23	HCB	Haldeman Creek Basin	1,868
24	HEC	Henderson Creek Basin	31,117
25	IDO	Imperial Drainage Outlet Basin	3,227
26	ILB	Imperial West Landmark FPL Basin	256
27	L28	L-28 Tieback Basin	116,952
28	LCB	Lely Canal Basin **	5,990
29	LMB	Lely Manor Canal Basin	5,080
30	MCB	Miscellaneous Coastal Basins	367,613
31	MGG	Main Golden Gate Canal Basin	31,331
32	MJC	Miller Canal Basin	19,071
33	NPN	Naples Park North Basin	418
34	NPS	Naples Park South Basin	349
35	NPW	Naples Park West Basin	279
36	OSB	Okaloacoochee Slough Basin	74,404
37	OTC	Orange Tree Canal Basin	2,065
38	PLM	Palm River Canal Basin	867
39	PRC	Pine Ridge Canal Basin	2,686
40	PSB	Palm Street Basin	74
41	QWP	Quail West Phase II	320
42	RCB	Rock Creek Basin	1,675
43	S1S	US-41 Outfall Swale No.1 Basin	3,684
44	S2S	US-41 Outfall Swale No.2 Basin	2,706
45	SPO	Seminole Park Outlet Basin	18,723
46	TRB	Turner River Canal Basin	245,441
47	TTC	Tamiami Trail Canal Basin	4,668
48	UIB	Urban Immokalee Basin	3,125
49	WBB	Wiggins Bay Outlet Basin **	2,178
50	WBC	West Branch Cocohatchee River Basin	246
51	WPO	Winter Park Outlet Basin	174

** Basins with restricted allowable discharge

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**

2016 AUIR FACILITY SUMMARY
POTABLE WATER SYSTEM - TREATMENT FACILITIES

Facility Type: Collier County Water-Sewer District (CCWSD) – Potable Water System – Treatment Facilities

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

Capacity:

Constructed On-line Plant Capacity, FY 17	52.75 MGD
Required Plant Capacity, FY 17	34.70 MGD
Constructed On-line Plant Capacity, FY 26	52.75 MGD
Required Plant Capacity, FY 26	41.90 MGD

Expenditures FY17-FY21 ⁽²⁾

Expansion Related Projects	\$50,000
Replacement & Rehabilitation (R&R) Projects	\$102,702,000
Departmental Capital	\$2,707,000
Debt Service	\$44,922,000
Reserve for Contingencies - R&R Projects ⁽³⁾	<u>\$10,270,000</u>
TOTAL	\$160,651,000

Existing Revenue Sources FY17-FY21

Water System Development Fees / Impact Fees	\$34,000,000
Water Capital Account	\$2,707,000
Rate Revenue	\$123,944,000
State Revolving Fund Loan	<u>\$0</u>
TOTAL	\$160,651,000

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

Recommended Action:

That the BCC find the Collier County Water-Sewer District Potable Water System Treatment Facilities 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 2016 CCWSD Potable Water System Treatment Facilities AUIR and adopt the CIE update for FY 2016/17 - FY 2020/21.

Conclusion: No new treatment plant capacity is planned in the ten-year timeframe 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: FY17 budget

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

Collier County Government
Public Utilities Department
2016 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

POTABLE WATER SYSTEM - TREATMENT FACILITIES

Introduction:

The Public Utilities Department's proposed 2016 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 May 26, 2016. Populations are based on using the Bureau of Economic and Business Research (BEBR) Medium Range growth rate through 2026. Below are two notes and one long-range planning comment:

- A. Concurrency is shown for 10 years. This format is consistent with the State mandated CIE, concurrency regulations, and other Collier County Departments' AUIR submittals.
- B. The Orange Tree Service Area is anticipated to be integrated into the CCWSD in FY 2017.
- C. New plant capacity of 5.4 MGD (per the 2014 Water, Wastewater, Irrigation Quality Water and Bulk Potable Water Master/CIP Plan) will be needed by 2028; siting should be established by 2020.

The 2016 Potable Water System AUIR is presented as a snapshot of concurrency conditions. The CCWSD is in compliance with concurrency requirements for FY 2017 and FY 2018, 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 2016 CCWSD Potable Water System Treatment Facilities AUIR.

Collier County Government
Public Utilities Department
2016 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

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

7/20/2016

1	2	3	4	5	6	7	8	9
Fiscal Year	Population Served	Required Plant Capacity at 150 gpcd MGD	Required Plant Capacity Increase from Previous Year MGD	Constructed Plant Capacity On-line MGD	New Plant Capacity MGD	Total Available Constructed Capacity MGD	Retained/ (Deficit) Constructed Capacity MGD	Retained/(Deficit) Constructed Capacity Target Values MGD
2012	191,834	28.8		52.00		52.00	23.2	0.9 (Min) - 7.8 (Max)
2013	195,207	29.3	0.5	52.00		52.00	22.7	0.9 (Min) - 7.8 (Max)
2014	202,793	30.4	1.1	52.00		52.00	21.6	0.9 (Min) - 7.8 (Max)
2015	211,771	31.8	1.3	52.00		52.00	20.2	0.9 (Min) - 7.8 (Max)
2016	217,574	32.6	0.9	52.00		52.00	19.4	0.9 (Min) - 7.8 (Max)
2017	231,258	34.7	2.1	52.75		52.75	18.1	0.9 (Min) - 7.8 (Max)
2018	237,564	35.6	0.9	52.75		52.75	17.1	0.9 (Min) - 7.8 (Max)
2019	243,373	36.5	0.9	52.75		52.75	16.2	0.9 (Min) - 7.8 (Max)
2020	248,667	37.3	0.8	52.75		52.75	15.5	0.9 (Min) - 7.8 (Max)
2021	254,051	38.1	0.8	52.75		52.75	14.6	0.9 (Min) - 7.8 (Max)
2022	259,527	38.9	0.8	52.75		52.75	13.8	0.9 (Min) - 7.8 (Max)
2023	265,097	39.8	0.8	52.75		52.75	13.0	0.9 (Min) - 7.8 (Max)
2024	270,160	40.5	0.8	52.75		52.75	12.2	0.9 (Min) - 7.8 (Max)
2025	274,700	41.2	0.7	52.75		52.75	11.5	0.9 (Min) - 7.8 (Max)
2026	279,303	41.9	0.7	52.75		52.75	10.9	0.9 (Min) - 7.8 (Max)

Collier County Government
Public Utilities Department
2016 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

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

7/20/2016

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

1. Fiscal Year starts October 1 and ends September 30.
2. Population Served. Estimates and projections for the served area were prepared by the Collier County Comprehensive Planning Section on May 26, 2016. Populations are based on using the Bureau of Economic and Business Research (BEBR) Medium Range growth rate through 2026. The population projections include the Orange Tree service area beginning in FY 2017.
3. Required Plant Capacity at 150 gpcd is obtained by multiplying the Population Served (Column 2) times 150 gallons per capita per day (gpcd) and is expressed in million gallons per day (MGD). 150 gpcd is the established Level of Service Standard (LOSS) as adopted in the 2014 CCWSD Potable Water System AUIR approved by the Board of County Commissioners on November 18, 2014, based on the 2014 Water, Wastewater, Irrigation Quality Water and Bulk Potable Water Master/CIP Plan.
4. Required Plant Capacity Increase from Previous Year is the increase in the Required Plant Capacity at 150 gpcd (Column 3) for the year listed compared to the previous year.
5. Constructed Plant Capacity On-line is the total finished water treatment capacity at the beginning of the fiscal year in million gallons per day (MGD). Capacity in FY 2017 is increased by 0.75 MGD (as currently sited) when Orange Tree Utilities is anticipated to be integrated into the CCWSD.
6. New Plant Capacity:

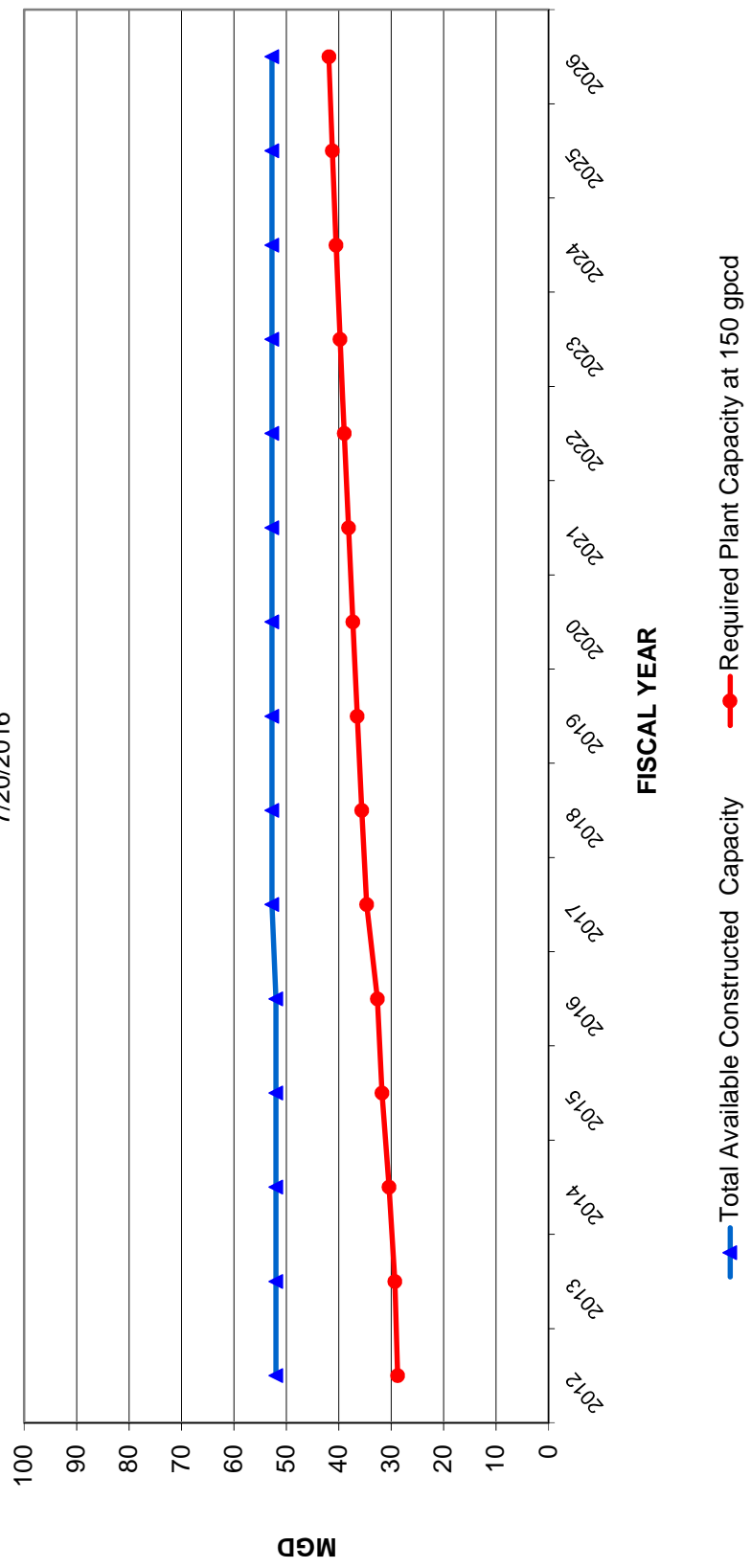
Fiscal Year	New Plant Capacity	Source of Information
NA	0	No new plant capacity is planned through 2026 based on concurrency analysis.

7. Total Available Constructed Capacity is the total of Constructed Plant Capacity On-line (Column 5) plus New Plant Capacity (Column 6).
8. Retained/(Deficit) Constructed Capacity is the difference between Total Available Constructed Capacity (Column 7) and Required Plant Capacity at 150 gpcd (Column 3).
9. Retained/(Deficit) Constructed Capacity Target Values for planning purposes are 0.9 MGD minimum and 7.8 MGD maximum through FY 2026. The target minimum capacity represents the average projected increase in the next year's demand and the target maximum capacity represents the average projected increase in demand for the next eight years.

Collier County Government
 Public Utilities Department
 2016 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

POTABLE WATER SERVICE AREA
 Level of Service Standard: 150 GPCD

7/20/2016



Existing and Future Water Service Areas 2016 Potable Water AUIR

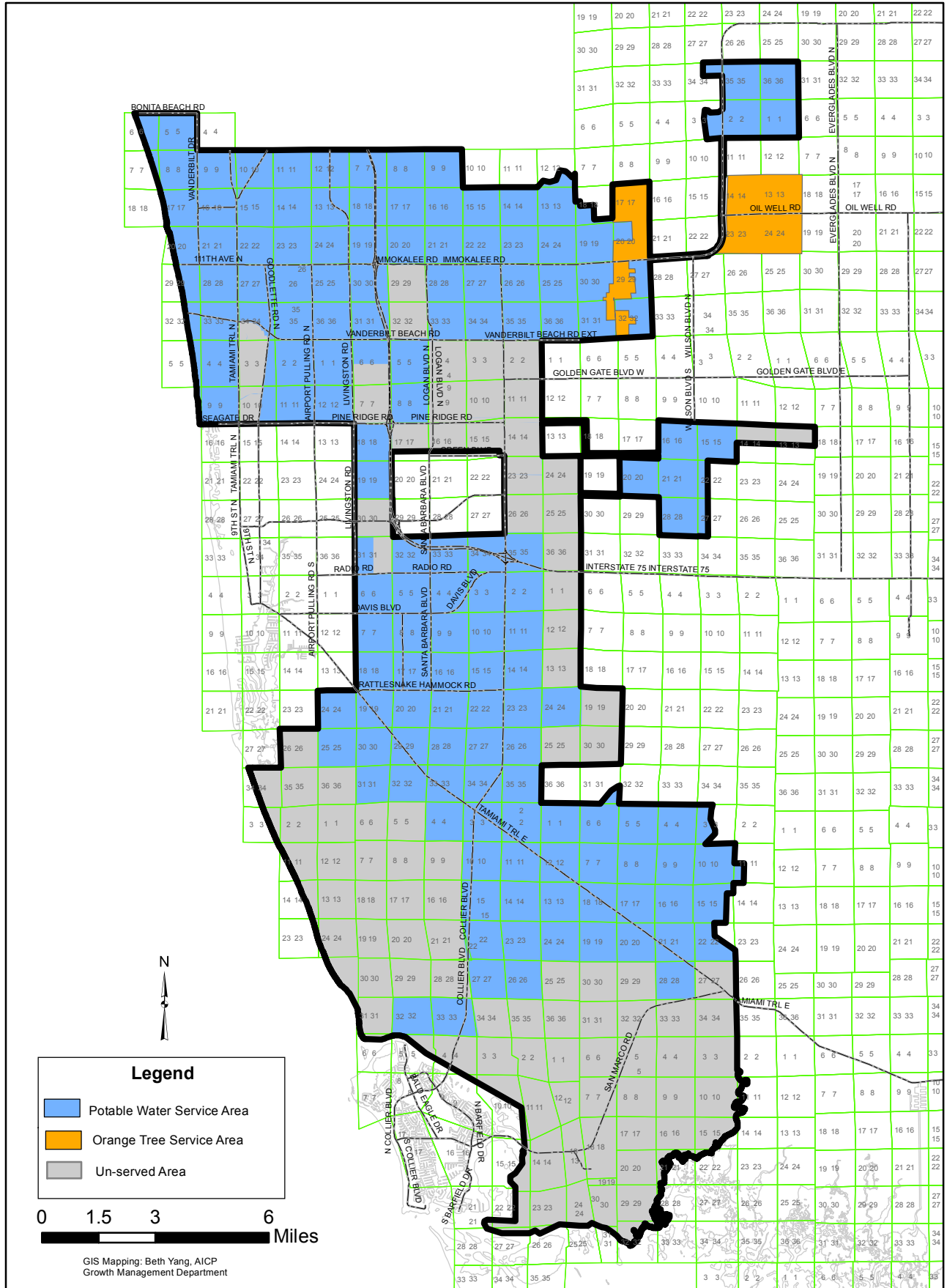


EXHIBIT "A"
COLLIER COUNTY SCHEDULE OF CAPITAL IMPROVEMENTS
 FISCAL YEARS 2017-2021

POTABLE WATER SYSTEM PROJECTS		CONSTRUCTION SCHEDULE NOTES	\$ AMOUNT					\$ AMOUNT
CIE #	PROJECT		FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
	Debt Service		\$9,250,000	\$9,251,000	\$8,807,000	\$8,807,000	\$8,807,000	\$44,922,000
	Expansion Related Projects - Other		\$50,000	\$0	\$0	\$0	\$0	\$50,000
	Replacement & Rehabilitation Projects - Other		\$17,878,000	\$20,580,000	\$20,992,000	\$21,410,000	\$21,842,000	\$102,702,000
	Departmental Capital		\$525,000	\$538,000	\$537,000	\$548,000	\$559,000	\$2,707,000
	Reserve for Contingencies - Replacement & Rehabilitation Projects		\$1,788,000	\$2,058,000	\$2,099,000	\$2,141,000	\$2,184,000	\$10,270,000
	POTABLE WATER SYSTEM PROJECT TOTALS		\$29,491,000	\$32,427,000	\$32,435,000	\$32,906,000	\$33,392,000	\$160,651,000

REVENUE KEY - REVENUE SOURCE		FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	TOTAL
WIF - Water System Development Fees / Impact Fees		\$6,800,000	\$6,800,000	\$6,800,000	\$6,800,000	\$6,800,000	\$34,000,000
RR - Reserve Reduction (less 5% required by law)		\$0	\$0	\$0	\$0	\$0	\$0
B1 - Bonds		\$0	\$0	\$0	\$0	\$0	\$0
LOC - Commercial Paper		\$0	\$0	\$0	\$0	\$0	\$0
SRF - State Revolving Fund Loans		\$0	\$0	\$0	\$0	\$0	\$0
WCA - Water Capital Account		\$525,000	\$538,000	\$537,000	\$548,000	\$559,000	\$2,707,000
REV - Rate Revenue		\$22,166,000	\$25,089,000	\$25,098,000	\$25,558,000	\$26,033,000	\$123,944,000
REVENUE TOTAL		\$29,491,000	\$32,427,000	\$32,435,000	\$32,906,000	\$33,392,000	\$160,651,000

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.

DATA SOURCES:

- Expansion Related and Replacement & Rehabilitation Projects: FY 2017 is obtained from the 2017 Proposed Budget, split 50/50 between Water and Wastewater. FY 2018 to FY 2019 are obtained from the 2014 User Rate Study and FY 2020 and FY 2021 is 2% increase over FY 2019 and FY 2020 (pursuant to CPI adjustments per Board policy).
- Department Capital: FY 2017 is obtained from the 2017 Proposed Budget, split 50/50 between Water and Wastewater. FY 2018 to FY 2019 are obtained from the 2014 User Rate Study and FY 2020 and FY 2021 is 2% increase over FY 2019 and FY 2020 (pursuant to CPI adjustments per Board policy).
- Debt Service: FY 2017 - FY 2021 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.

**APPENDIX H
FUTURE COSTS AND REVENUES BY TYPE OF PUBLIC FACILITY
FISCAL YEARS 2022-2026**

POTABLE WATER PROJECTS										
CIE #	PROJECT	CONSTRUCTION SCHEDULE NOTES	\$ AMOUNT		\$ AMOUNT		\$ AMOUNT		\$ AMOUNT	
			FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	TOTAL		
	Expansion Related Projects - Generally		\$3,500,000	\$5,520,000	\$0	\$30,000,000	\$0	\$0	\$39,020,000	
	Replacement & Rehabilitation Projects - Generally		\$22,286,000	\$22,737,000	\$23,149,000	\$23,637,000	\$24,118,000	\$0	\$115,927,000	
	Debt Service		\$8,238,000	\$5,828,000	\$5,828,000	\$5,435,000	\$4,600,000	\$0	\$29,929,000	
	Departmental Capital		\$570,000	\$581,000	\$593,000	\$605,000	\$617,000	\$0	\$2,966,000	
	Reserve for Contingencies - Replacement & Rehabilitation Projects		\$2,229,000	\$2,274,000	\$2,315,000	\$2,364,000	\$2,412,000	\$0	\$11,594,000	
	POTABLE WATER PROJECT TOTALS		\$36,823,000	\$36,940,000	\$31,885,000	\$62,041,000	\$31,747,000	\$0	\$199,436,000	

REVENUE KEY - REVENUE SOURCE						
	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	TOTAL
REV - Rate Revenue	\$29,453,000	\$29,559,000	\$24,492,000	\$29,636,000	\$24,330,000	\$137,470,000
RR - Operating Reserve Revenues	\$0	\$0	\$0	\$0	\$0	\$0
WCA - Water Capital Account	\$570,000	\$581,000	\$593,000	\$605,000	\$617,000	\$2,966,000
WIF - Water System Development Fees	\$6,800,000	\$6,800,000	\$6,800,000	\$31,800,000	\$6,800,000	\$59,000,000
REVENUE TOTAL	\$36,823,000	\$36,940,000	\$31,885,000	\$62,041,000	\$31,747,000	\$199,436,000

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.

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**

2016 AUIR FACILITY SUMMARY
WASTEWATER SYSTEM - TREATMENT FACILITIES

Facility Type: Collier County Water-Sewer District (CCSWD) – Wastewater System – Treatment Facilities

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

Capacity: South Service Area (SCWRF)

Constructed On-line Plant Capacity, FY 17	16.0 MGD
Required Plant Capacity, FY 17	11.90 MGD
Constructed On-line Plant Capacity, FY 26	16.0 MGD
Required Plant Capacity, FY 26	13.90 MGD

Capacity: North Service Area (NCWRF)

Constructed On-line Plant Capacity, FY 17	24.7 MGD
Required Plant Capacity, FY 17	14.0 MGD
Constructed On-line Plant Capacity, FY 26	24.7 MGD
Required Plant Capacity, FY 26	16.80 MGD

Expenditures FY17-FY21 ⁽²⁾

Expansion Related Projects	\$0
Replacement & Rehabilitation (R&R) Projects	\$180,637,000
Departmental Capital	\$2,936,000
Debt Service	\$44,922,000
Reserve for Contingencies - R&R Projects ⁽³⁾	<u>\$18,063,000</u>
TOTAL	\$246,558,000

Existing Revenue Sources FY17-FY21

Wastewater System Development Fees / Impact Fees	\$32,500,000
Wastewater Capital Account	\$2,936,000
Rate Revenue	\$211,122,000
State Revolving Fund Loans	<u>\$0</u>
TOTAL	\$246,558,000

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

Recommended Action:

That the BCC find the Collier County Water-Sewer District Wastewater System Treatment Facilities 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 2016 CCWSD Wastewater System Treatment Facilities AUIR and adopt the CIE update for FY 2016/17 - FY 2020/21.

Conclusion: No new treatment plant capacity is planned in the ten-year timeframe 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: FY17 budget

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

Collier County Government
Public Utilities Department
2016 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

WASTEWATER SYSTEM - TREATMENT FACILITIES

Introduction:

The Public Utilities Department's proposed 2016 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 May 26, 2016. Populations are based on using the Bureau of Economic and Business Research (BEBR) Medium Range growth rate through 2026. Below are two notes and one long-range planning comment:

- A. Concurrency is shown for 10 years. This format is consistent with the State mandated CIE, concurrency regulations, and other Collier County Departments' AUIR submittals.
- B. The Orange Tree Service Area is anticipated to be integrated into the CCWSD in FY 2017.
- C. New plant capacity of 4.9 MGD (per the 2014 Water, Wastewater, Irrigation Quality Water and Bulk Potable Water Master/CIP Plan) will be needed by 2030; siting should be established by 2022.

The 2016 Wastewater System AUIR is presented as a snapshot of concurrency conditions. The CCWSD is in compliance with concurrency requirements for FY 2017 and FY 2018, 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 2016 CCWSD Wastewater System Treatment Facilities AUIR.

Collier County Government
Public Utilities Department
2016 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**

7/20/2016

1	2	3	4	5	6	7	8	9
Fiscal Year	Population Served	Required Plant Capacity at 100 gpcd MGD	Required Plant Capacity Increase from Previous Year MGD	Constructed Plant Capacity On-line MGD	New Plant Capacity MGD	Total Available Constructed Capacity MGD	Retained/(Deficit) Constructed Capacity MGD	Retained/(Deficit) Constructed Capacity Target Values MGD
2012	102,588	10.3		16.0		16.0	5.7	0.3 (Min) - 2.1 (Max)
2013	104,137	10.4	0.2	16.0		16.0	5.6	0.3 (Min) - 2.1 (Max)
2014	108,474	10.8	0.4	16.0		16.0	5.2	0.3 (Min) - 2.1 (Max)
2015	113,420	11.3	0.5	16.0		16.0	4.7	0.3 (Min) - 2.1 (Max)
2016	116,021	11.6	0.3	16.0		16.0	4.4	0.3 (Min) - 2.1 (Max)
2017	118,676	11.9	0.3	16.0		16.0	4.1	0.3 (Min) - 2.1 (Max)
2018	121,386	12.1	0.3	16.0		16.0	3.9	0.3 (Min) - 2.1 (Max)
2019	123,883	12.4	0.2	16.0		16.0	3.6	0.3 (Min) - 2.1 (Max)
2020	126,159	12.6	0.2	16.0		16.0	3.4	0.3 (Min) - 2.1 (Max)
2021	128,473	12.8	0.2	16.0		16.0	3.2	0.3 (Min) - 2.1 (Max)
2022	130,827	13.1	0.2	16.0		16.0	2.9	0.3 (Min) - 2.1 (Max)
2023	133,221	13.3	0.2	16.0		16.0	2.7	0.3 (Min) - 2.1 (Max)
2024	135,397	13.5	0.2	16.0		16.0	2.5	0.3 (Min) - 2.1 (Max)
2025	137,349	13.7	0.2	16.0		16.0	2.3	0.3 (Min) - 2.1 (Max)
2026	139,327	13.9	0.2	16.0		16.0	2.1	0.3 (Min) - 2.1 (Max)

Collier County Government
Public Utilities Department
2016 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**

7/20/2016

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

1. Fiscal Year starts October 1 and ends September 30.
2. Population Served. Estimates and projections for the served area were prepared by the Collier County Comprehensive Planning Section on May 26, 2016. Populations are based on using the Bureau of Economic and Business Research (BEBR) Medium Range growth rate through 2026.
3. Required Plant Capacity at 100 gpcd is obtained by multiplying the Population Served (Column 2) times 100 gallons per capita per day (gpcd) 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 2014 CCWSD Wastewater System AUIR approved by the Board of County Commissioners on November 18, 2014, based on the 2014 Water, Wastewater, Irrigation Quality Water and Bulk Potable Water Master/CIP Plan.
4. Required Plant Capacity Increase from Previous Year is the increase in the Required Plant Capacity at 100 gpcd (Column 3) for the year listed compared to the previous year.
5. Constructed Plant Capacity On-line is the plant capacity at the beginning of the fiscal year in million gallons per day (MGD).
6. New Plant Capacity:

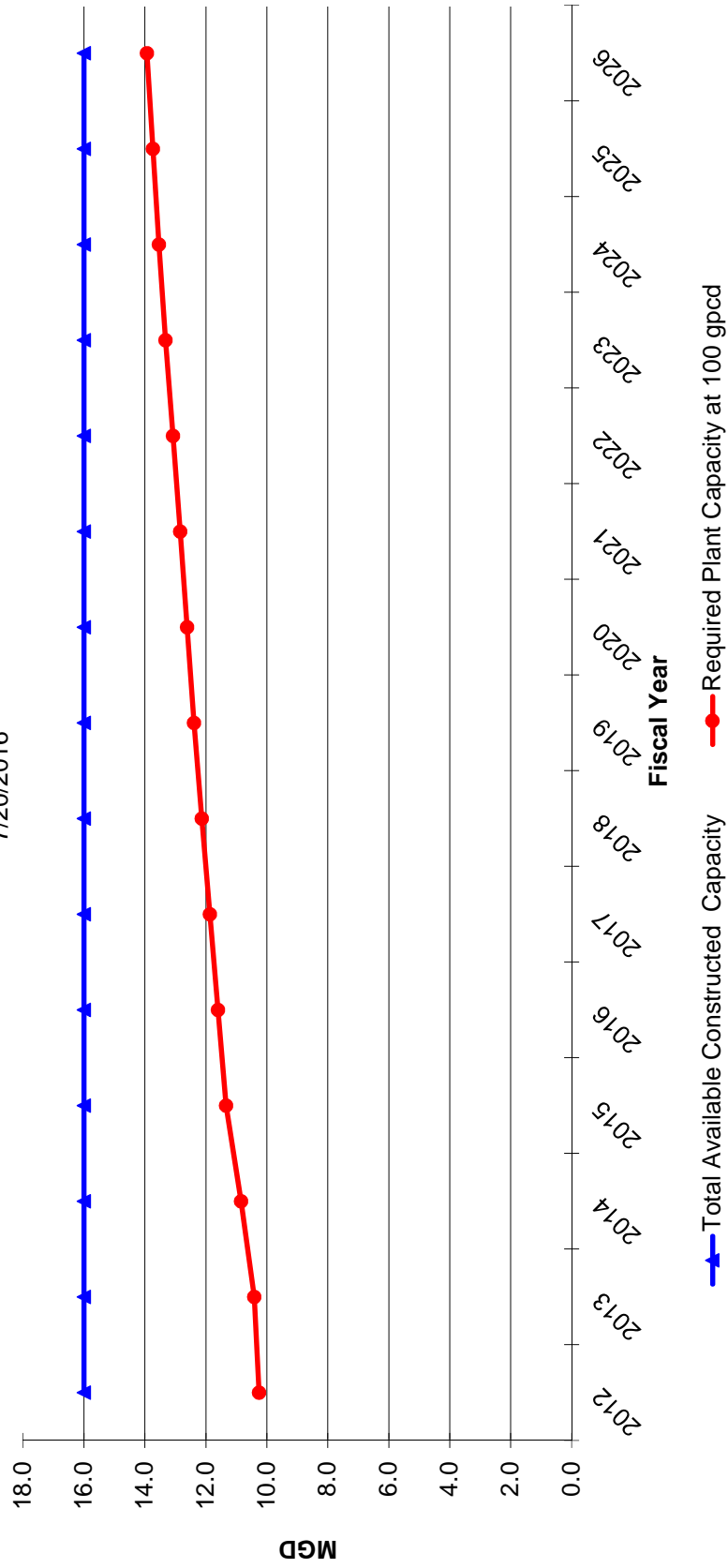
Fiscal Year	New Plant Capacity	Source of Information
NA	0	No new plant capacity is planned through 2026 based on concurrency analysis.

7. Total Available Constructed Capacity is the total of Constructed Plant Capacity On-line (Column 5) plus New Plant Capacity (Column 6).
8. Retained/(Deficit) Constructed Capacity is the difference between Total Available Constructed Capacity (Column 7) and Required Plant Capacity at 100 gpcd (Column 3).
9. Retained/(Deficit) Constructed Capacity Target Values for planning purposes are 0.3 MGD minimum and 2.1 MGD maximum through FY 2026. The target minimum capacity represents the average projected increase in the next year's demand. The SCWRF does not have a target maximum capacity due to limited space for expansion given current technologies.

Collier County Government
 Public Utilities Department
 2016 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

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

7/20/2016



Collier County Government
Public Utilities Department
2016 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**

7/20/2016

1	2	3	4	5	6	7	8	9
Fiscal Year	Population Served	Required Plant Capacity at 100 gpcd MGD	Required Plant Capacity Increase from Previous Year MGD	Constructed Plant Capacity On-line MGD	New Plant Capacity MGD	Total Available Constructed Capacity MGD	Retained/ (Deficit) Constructed Capacity MGD	Retained/(Deficit) Constructed Capacity Target Values MGD
2012	115,859	11.6		24.1		24.1	12.5	0.4 (Min) - 3.2 (Max)
2013	117,752	11.8	0.2	24.1		24.1	12.3	0.4 (Min) - 3.2 (Max)
2014	121,136	12.1	0.3	24.1		24.1	12.0	0.4 (Min) - 3.2 (Max)
2015	125,333	12.5	0.4	24.1		24.1	11.6	0.4 (Min) - 3.2 (Max)
2016	128,669	12.9	0.3	24.1		24.1	11.2	0.4 (Min) - 3.2 (Max)
2017	139,834	14.0	1.1	24.7		24.7	10.7	0.4 (Min) - 3.2 (Max)
2018	143,568	14.4	0.4	24.7		24.7	10.3	0.4 (Min) - 3.2 (Max)
2019	147,009	14.7	0.3	24.7		24.7	10.0	0.4 (Min) - 3.2 (Max)
2020	150,144	15.0	0.3	24.7		24.7	9.7	0.4 (Min) - 3.2 (Max)
2021	153,332	15.3	0.3	24.7		24.7	9.4	0.4 (Min) - 3.2 (Max)
2022	156,575	15.7	0.3	24.7		24.7	9.0	0.4 (Min) - 3.2 (Max)
2023	159,874	16.0	0.3	24.7		24.7	8.7	0.4 (Min) - 3.2 (Max)
2024	162,872	16.3	0.3	24.7		24.7	8.4	0.4 (Min) - 3.2 (Max)
2025	165,561	16.6	0.3	24.7		24.7	8.1	0.4 (Min) - 3.2 (Max)
2026	168,288	16.8	0.3	24.7		24.7	7.9	0.4 (Min) - 3.2 (Max)

Collier County Government
Public Utilities Department
2016 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**

7/20/2016

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

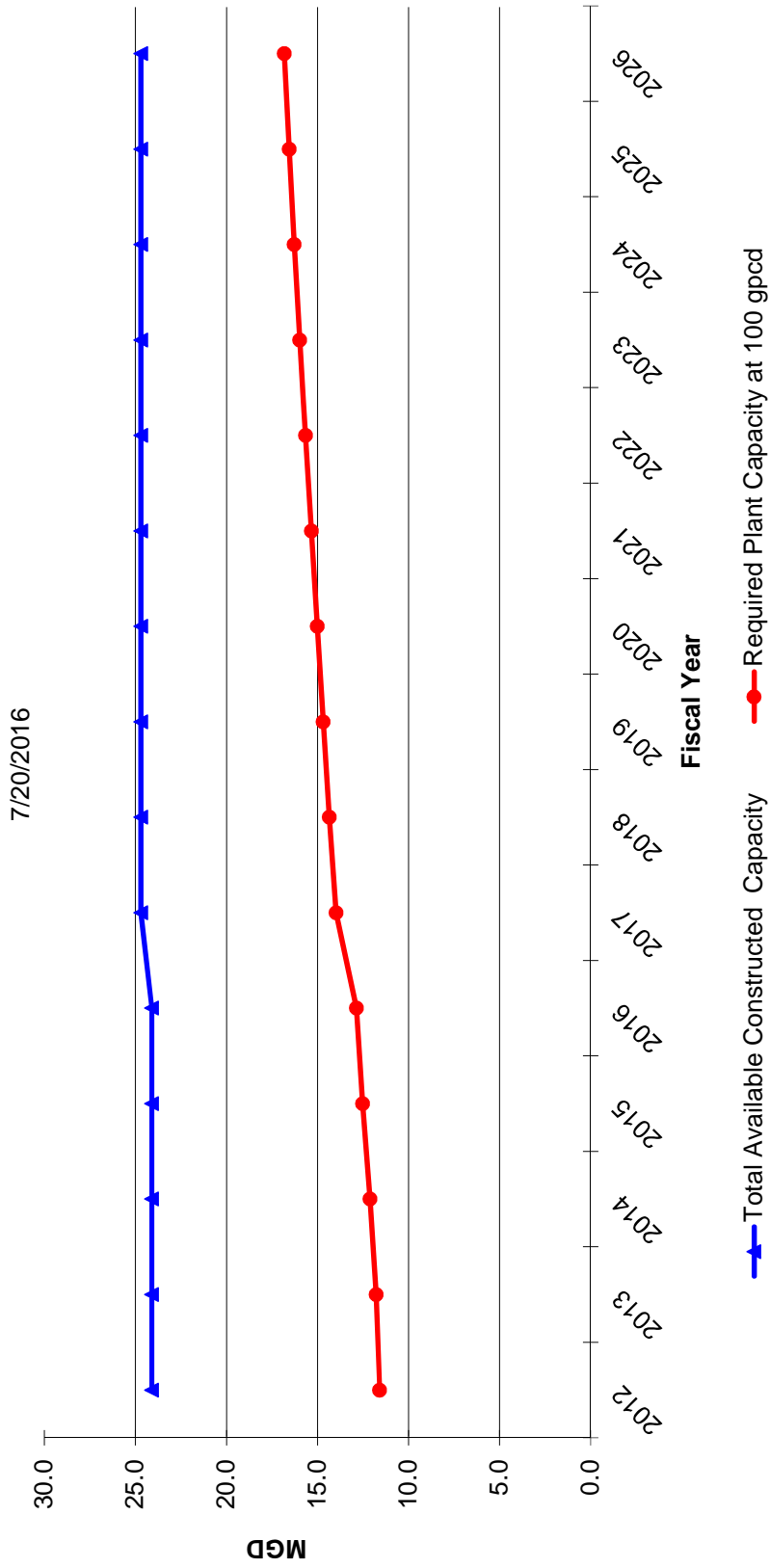
1. Fiscal Year starts October 1 and ends September 30.
2. Population Served. Estimates and projections for the served area were prepared by the Collier County Comprehensive Planning Section on May 26, 2016. Populations are based on using the Bureau of Economic and Business Research (BEBR) Medium Range growth rate through 2026. The population projections include the Orange Tree service area beginning in FY 2017.
3. Required Plant Capacity at 100 gpcd is obtained by multiplying the Population Served (Column 2) times 100 gallons per capita per day (gpcd) 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 2014 CCWSD Wastewater System AUIR approved by the Board of County Commissioners on November 18, 2014, based on the 2014 Water, Wastewater, Irrigation Quality Water and Bulk Potable Water Master/CIP Plan.
4. Required Plant Capacity Increase from Previous Year is the increase in the Required Plant Capacity at 100 gpcd (Column 3) for the year listed compared to the previous year.
5. Constructed Plant Capacity On-line is the plant capacity at the beginning of the fiscal year in million gallons per day (MGD). Capacity in FY 2017 is increased by 0.6 MGD (as currently sited) when Orange Tree Utilities is anticipated to be integrated into the CCWSD.
6. New Plant Capacity:

Fiscal Year	New Plant Capacity	Source of Information
NA	0	No new plant capacity is planned through 2026 based on concurrency analysis.

7. Total Available Constructed Capacity is the total of Constructed Plant Capacity On-line (Column 5) plus New Plant Capacity (Column 6).
8. Retained/(Deficit) Constructed Capacity is the difference between Total Available Constructed Capacity (Column 7) and Required Plant Capacity at 100 gpcd (Column 3).
9. Retained/(Deficit) Constructed Capacity Target Values for planning purposes are 0.4 MGD minimum and 3.2 MGD maximum through FY 2026. The target minimum capacity represents the average projected increase in the next year's demand and the target maximum capacity represents the average projected increase in demand for the next eight years.

Collier County Government
 Public Utilities Department
 2016 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

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



Existing and Future Wastewater Service Areas 2016 Wastewater AUIR

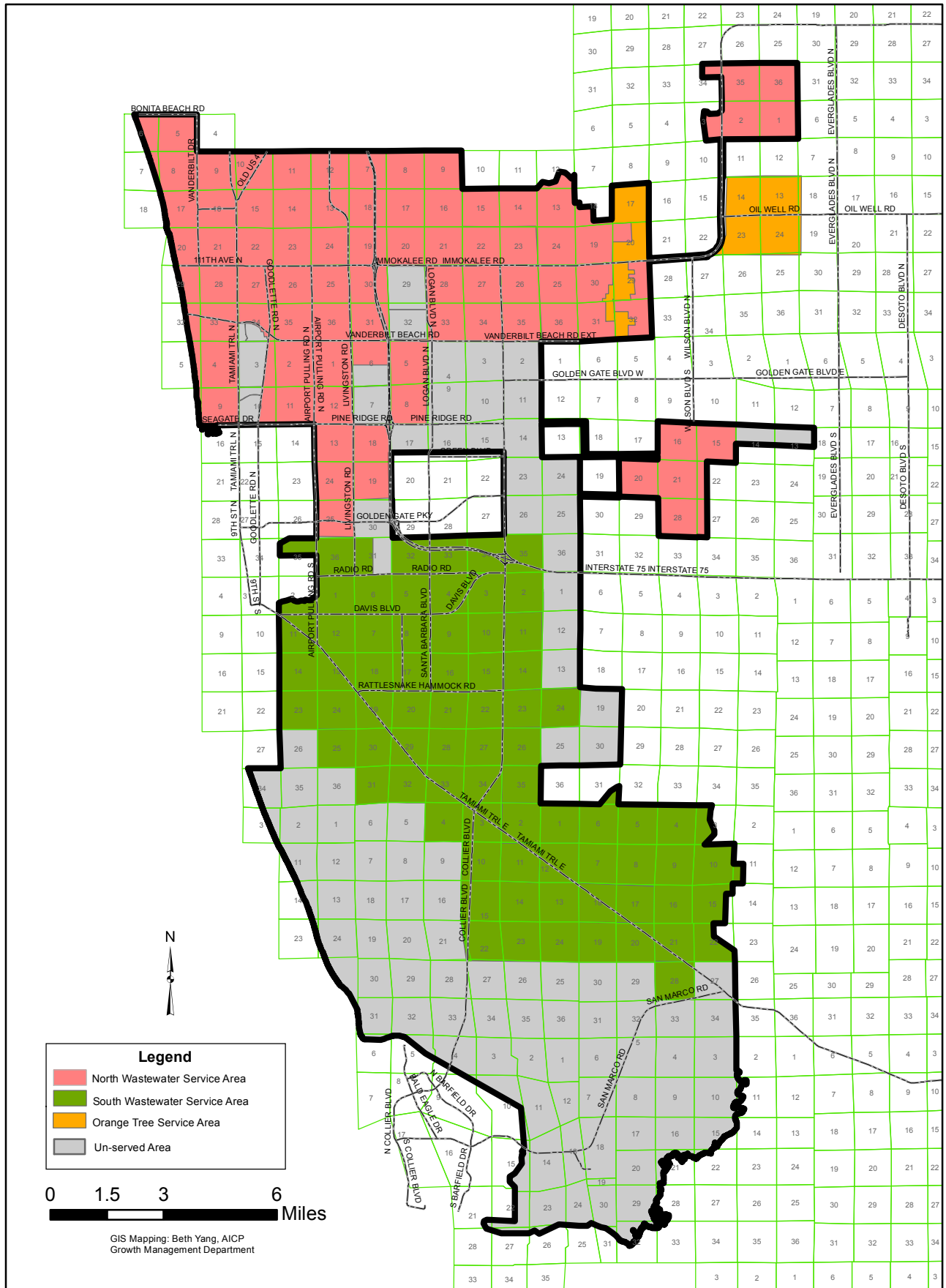


EXHIBIT "A"
COLLIER COUNTY SCHEDULE OF CAPITAL IMPROVEMENTS
 FISCAL YEARS 2017-2021

WASTEWATER TREATMENT SYSTEM PROJECTS									
C/E #	PROJECT	CONSTRUCTION SCHEDULE NOTES	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	TOTAL	
	Debt Service		\$9,250,000	\$9,251,000	\$8,807,000	\$8,807,000	\$8,807,000	\$44,922,000	
	Expansion Related Projects - Other		\$0	\$0	\$0	\$0	\$0	\$0	
	Replacement & Rehabilitation Projects - Other		\$38,271,000	\$35,660,000	\$35,970,000	\$35,063,000	\$35,673,000	\$180,637,000	
	Departmental Capital		\$525,000	\$593,000	\$594,000	\$606,000	\$618,000	\$2,936,000	
	Reserve for Contingencies - Replacement & Rehabilitation Projects		\$3,827,000	\$3,566,000	\$3,597,000	\$3,506,000	\$3,567,000	\$18,063,000	
	WASTEWATER TREATMENT SYSTEM PROJECT TOTALS		\$51,873,000	\$49,070,000	\$48,968,000	\$47,982,000	\$48,665,000	\$246,558,000	

REVENUE KEY - REVENUE SOURCE									
	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT
	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	TOTAL			
SIF - Wastewater System Development Fees / Impact Fees	\$6,500,000	\$6,500,000	\$6,500,000	\$6,500,000	\$6,500,000	\$32,500,000			
RR - Reserve Reduction (less 5% required by law)	\$0	\$0	\$0	\$0	\$0	\$0			
BI - Bonds	\$0	\$0	\$0	\$0	\$0	\$0			
SRF - State Revolving Fund Loans	\$0	\$0	\$0	\$0	\$0	\$0			
LOC - Commercial Paper	\$0	\$0	\$0	\$0	\$0	\$0			
SCA - Wastewater Capital Account - Transfers	\$525,000	\$593,000	\$594,000	\$606,000	\$618,000	\$2,936,000			
REV - Rate Revenue	\$44,848,000	\$41,977,000	\$41,874,000	\$40,876,000	\$41,547,000	\$211,122,000			
REVENUE TOTAL	\$51,873,000	\$49,070,000	\$48,968,000	\$47,982,000	\$48,665,000	\$246,558,000			

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. 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 2017 is obtained from the 2017 Proposed Budget.
- Department Capital: FY 2017 is obtained from the 2017 Proposed Budget, split 50/50 between Water and Wastewater. FY 2018 to FY 2019 is obtained from the 2014 User Rate Study and FY 2020 - FY2021 is 2% increase over FY 2019 and FY 2020 (pursuant to CPI adjustments per Board policy).
- Debt Service: FY 2017 - FY 2021 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.

**APPENDIX H
FUTURE COSTS AND REVENUES BY TYPE OF PUBLIC FACILITY
FISCAL YEARS 2022 - 2026**

WASTEWATER PROJECTS									
CIE #	PROJECT	CONSTRUCTION SCHEDULE NOTES	\$ AMOUNT		\$ AMOUNT		\$ AMOUNT		\$ AMOUNT
			FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	TOTAL	
	Expansion Related Projects - Other		\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$7,000,000		\$27,000,000
	Replacement & Rehabilitation Projects - Other		\$35,035,000	\$35,358,000	\$34,995,000	\$35,005,000	\$35,371,000		\$175,764,000
	Departmental Capital		\$630,000	\$643,000	\$656,000	\$669,000	\$682,000		\$3,280,000
	Debt Service		\$8,238,000	\$8,488,000	\$8,488,000	\$8,095,000	\$7,260,000		\$40,569,000
	Reserve for Contingencies - Replacement & Rehabilitation Projects		\$3,504,000	\$3,536,000	\$3,500,000	\$3,501,000	\$3,537,000		\$17,578,000
	SEWER - WASTEWATER PROJECT TC		\$52,407,000	\$53,025,000	\$52,639,000	\$52,270,000	\$53,850,000		\$264,191,000

REVENUE KEY - REVENUE SOURCE									
REVENUE SOURCE	\$ AMOUNT		\$ AMOUNT		\$ AMOUNT		\$ AMOUNT		\$ AMOUNT
	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	TOTAL			
REV - Rate Revenue	\$45,277,000	\$45,882,000	\$45,483,000	\$45,101,000	\$46,668,000	\$228,411,000			
RR - Operating Reserve Revenues	\$0	\$0	\$0	\$0	\$0	\$0			
SRF - State Revolving Fund Loans	\$0	\$0	\$0	\$0	\$0	\$0			
SCA - Wastewater Capital Account - Transfers	\$630,000	\$643,000	\$656,000	\$669,000	\$682,000	\$3,280,000			
SIF - Wastewater System Development Fees / Impact Fees	\$6,500,000	\$6,500,000	\$6,500,000	\$6,500,000	\$6,500,000	\$32,500,000			
REVENUE TOTAL	\$52,407,000	\$53,025,000	\$52,639,000	\$52,270,000	\$53,850,000	\$264,191,000			

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**

2016 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, 2016	17,725,691 Tons
Required Permitted Landfill Capacity, 2016	2,524,862 Tons
Total Lined Cell Capacity Remaining, 2016	2,939,318 Tons
Required Lined Cell Capacity, 2016	453,950 Tons
Estimated Life of landfill	54 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 2016 Solid Waste Disposal Facilities AUIR and CIE.

Note: The Solid and Hazardous Waste Management Division reached a milestone in 2015, achieving a 63% recycling rate as reported by FDEP.

COLLIER COUNTY LANDFILL DISPOSAL CAPACITY

Introduction:

The Public Utilities Department's 2016 AUIR submittals are based on "Collier County Peak Season Population Estimates and Projections" dated May 26, 2016, prepared by Collier County Comprehensive Planning Section. Populations are derived from data obtained from: The 2010 Census; Bureau of Economic and Business Research (BEBR) population bulletins; Collier County Comprehensive Planning staff; and, Planning staff from the Cities of Naples and Marco Island. FY 2035 - FY 2070 projected populations are based on average annual percentage increases for FY 2032 - FY 2034 (.20%). There are two notable observations from the 2016 Collier County Landfill Disposal Capacity AUIR; the third and fourth items are long range planning comments:

1. The 2016 Solid Waste AUIR projects that the Collier County Landfill will have zero capacity remaining in FY 2070, increase of one year compared to 2015 Solid Waste AUIR. This represents 54 years of projected capacity.
2. The projected Tons Per Capita Disposal Rate in the 2016 Solid Waste AUIR for 2017 forward is 0.54, which is a .02 % increase from the projected Tons Per Capita Disposal Rate in the 2015 Solid Waste AUIR.
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 2050, to allow for permitting by 2060, preserving ten years of permitted landfill capacity in advance of 2070.
4. In FY2015, the Board of County Commissioners purchased 305 acres adjacent to the Collier County Landfill to provide sustainable renewable solid waste treatment and renewable energy planning capacity beyond 100 years.

The 2016 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 2017 and FY 2018, 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 63% in 2015, as reported by FDEP. In addition, Collier County has ranked 4th in traditional recycling in comparison to other Florida Counties. The Public Utilities Department's staff recommends that the Collier County Board of County Commissioners approve the 2016 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. The 305 acres adjacent to the Collier County Landfill will provide a sustainable platform towards future disposal treatment and capacity for renewable energy that will extend the life of the landfill for an additional 100 plus years.

Collier County Government
Public Utilities Department
2016 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**

July 07, 2016

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	424,723	0.54	235,831	17,725,691	2,524,862	15,200,828
2017	433,016	0.54	233,330	17,492,361	2,565,145	14,927,215
2018	441,470	0.54	237,885	17,254,476	2,604,374	14,650,101
2019	450,089	0.54	242,530	17,011,946	2,642,504	14,369,443
2020	458,066	0.54	246,828	16,765,118	2,679,643	14,085,475
2021	465,377	0.54	250,767	16,514,351	2,715,910	13,798,441
2022	472,895	0.54	254,818	16,259,532	2,751,225	13,508,307
2023	480,351	0.54	258,836	16,000,696	2,785,656	13,215,040
2024	488,017	0.54	262,967	15,737,729	2,819,123	12,918,606
2025	495,027	0.54	266,744	15,470,985	2,852,014	12,618,971
2026	501,360	0.54	270,157	15,200,828	2,884,728	12,316,100
2027	507,774	0.54	273,613	14,927,215	2,917,256	12,009,959
2028	514,271	0.54	277,114	14,650,101	2,949,589	11,700,513
2029	520,850	0.54	280,659	14,369,443	2,981,718	11,387,724
2030	526,990	0.54	283,967	14,085,475	3,013,916	11,071,559
2031	532,681	0.54	287,034	13,798,441	3,046,462	10,751,979
2032	538,434	0.54	290,134	13,508,307	3,079,358	10,428,949
2033	544,248	0.54	293,267	13,215,040	3,112,609	10,102,431
2034	550,126	0.54	296,434	12,918,606	3,146,219	9,772,387
2035	556,066	0.54	299,635	12,618,971	3,180,192	9,438,779
2036	562,071	0.54	302,871	12,316,100	3,214,532	9,101,568
2037	568,140	0.54	306,141	12,009,959	3,249,242	8,760,717
2038	574,275	0.54	309,447	11,700,513	3,284,327	8,416,185
2039	580,476	0.54	312,788	11,387,724	3,319,792	8,067,933
2040	586,744	0.54	316,166	11,071,559	3,355,639	7,715,920
2041	593,079	0.54	319,579	10,751,979	3,391,873	7,360,107
2042	599,483	0.54	323,030	10,428,949	3,428,498	7,000,451
2043	605,957	0.54	326,518	10,102,431	3,465,519	6,636,912
2044	612,500	0.54	330,044	9,772,387	3,502,940	6,269,447
2045	619,113	0.54	333,608	9,438,779	3,540,764	5,898,014
2046	625,799	0.54	337,210	9,101,568	3,578,997	5,522,571

Collier County Government
Public Utilities Department
2016 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**

July 07, 2016

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)
2047	632,556	0.54	340,851	8,760,717	3,617,643	5,143,074
2048	639,386	0.54	344,532	8,416,185	3,656,707	4,759,479
2049	646,290	0.54	348,252	8,067,933	3,696,192	4,371,741
2050	653,269	0.54	352,013	7,715,920	3,736,103	3,979,817
2051	660,323	0.54	355,814	7,360,107	3,776,445	3,583,661
2052	667,453	0.54	359,656	7,000,451	3,817,223	3,183,228
2053	674,660	0.54	363,539	6,636,912	3,858,442	2,778,470
2054	681,945	0.54	367,465	6,269,447	3,900,105	2,369,342
2055	689,309	0.54	371,433	5,898,014	3,942,218	1,955,796
2056	696,752	0.54	375,443	5,522,571	3,984,786	1,537,785
2057	704,276	0.54	379,497	5,143,074	4,027,814	1,115,260
2058	711,880	0.54	383,595	4,759,479	4,071,306	688,172
2059	719,567	0.54	387,737	4,371,741	4,115,268	256,473
2060	727,337	0.54	391,924	3,979,817	4,159,705	(179,887)
2061	735,191	0.54	396,156	3,583,661	N/A	N/A
2062	743,129	0.54	400,434	3,183,228	N/A	N/A
2063	751,154	0.54	404,758	2,778,470	N/A	N/A
2064	759,265	0.54	409,128	2,369,342	N/A	N/A
2065	767,463	0.54	413,546	1,955,796	N/A	N/A
2066	775,750	0.54	418,011	1,537,785	N/A	N/A
2067	784,127	0.54	422,525	1,115,260	N/A	N/A
2068	792,594	0.54	427,087	688,172	N/A	N/A
2069	801,152	0.54	431,699	256,473	N/A	N/A

Collier County Government
Public Utilities Department
2016 Annual Update and Inventory Report (AUIR)

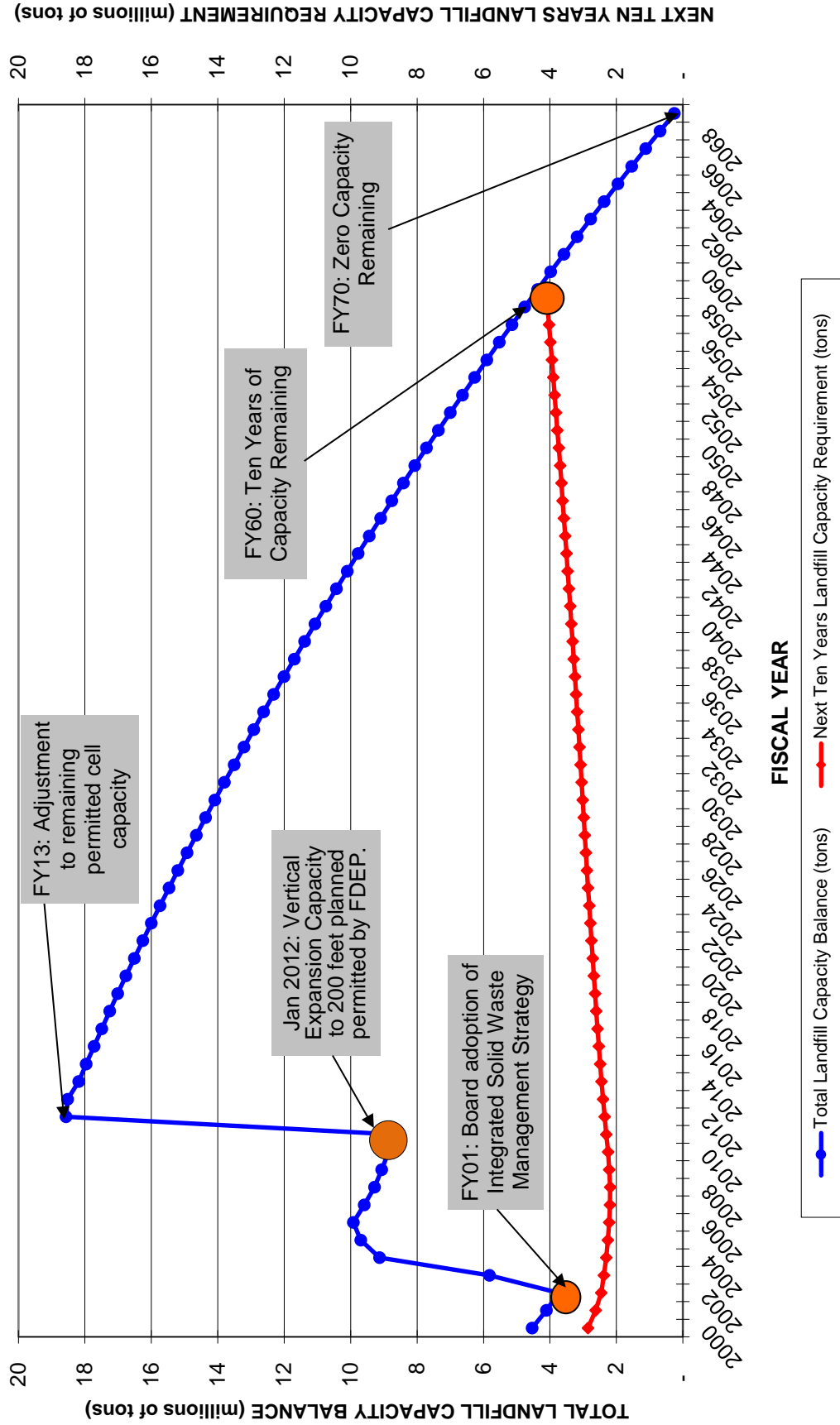
**Table 1: Collier County Landfill Disposal Capacity
Level of Service Standard: Ten Years of Permitted Landfill Capacity
at Previous Three Years Average Tons Per Capita Disposal Rate**

July 07, 2016

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, 2016, prepared by Collier County Comprehensive Planning Section. Populations are derived from data obtained from: 2010 Census; Bureau of Economic and Business Research (BEBR) population bulletins; Collier County Comprehensive Planning staff; and, Planning staff from Naples and Marco Island. FY 2035 - FY 2070 projected based on average annual percentage increase for FY 2032 - FY 2034 (.20%).
3. Tons Per Capita Disposal Rate for FY 2000 - FY 2016 is calculated by dividing the actual Annual Tons Disposed (column 4) by the Peak Population (column 2). FY 2017 forward is the average Tons Per Capita Disposal Rate (column 3) of previous 3 years (FY 2014, FY 2015, and FY 2016).
4. Annual Tons Disposed for FY 2015 is actual tonnage amount buried at the Collier County Landfill. FY 2016 reflects the projected tons disposed from the current year forecast. FY 2017 forward are derived from Peak Population (column 2) multiplied by the Tons Per Capita Disposal Rate (column 3).
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.
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.
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
 July 7, 2016



2000 & 2010 - 2034

COLLIER COUNTY PEAK SEASON POPULATION ESTIMATES and PROJECTIONS

	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													
COUNTYWIDE	309,511	387,183	392,180	398,107	402,268	408,351	416,590	424,723	433,016	441,470	450,089	458,066	465,377

	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													
COUNTYWIDE	472,895	480,351	488,017	495,027	501,360	507,774	514,271	520,850	526,990	532,681	538,434	544,248	550,126

notes:

- 1) Estimates and projections are derived from data obtained from: 2000 Census and 2010 Census; Bureau of Economic and Business Research (BEER) 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 by 0.28%.
- 3) Based upon BEBR Medium Range growth rate projections.

Prepared by Collier County Comprehensive Planning Section May 26, 2016

2000	309,511		
2010	387,183	25.09%	
2011	392,180	1.29%	
2012	398,107	1.51%	
2013	402,268	1.05%	
2014	408,351	1.51%	
2015	416,590	2.02%	
2016	424,723	1.95%	
2017	433,016	1.95%	
2018	441,470	1.95%	
2019	450,089	1.95%	
2020	458,066	1.77%	
2021	465,377	1.60%	
2022	472,895	1.62%	
2023	480,351	1.58%	
2024	488,017	1.60%	
2025	495,027	1.44%	
2026	501,360	1.28%	
2027	507,774	1.28%	

Collier County Government
Public Utilities Department
2016 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**

July 07, 2016

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	2,019,627	460,310	1,559,318
2015	416,590	0.53	224,479	1,795,149	460,728	1,334,421
2016	424,723	0.53	235,831	2,939,318	453,950	2,485,368
2017	433,016	0.53	224,897	2,714,421	462,338	2,252,083
2018	441,470	0.53	229,053	2,485,368	470,573	2,014,795
2019	450,089	0.53	233,285	2,252,083	478,341	1,773,742
2020	458,066	0.53	237,288	2,014,795	485,931	1,528,864
2021	465,377	0.53	241,053	1,773,742	493,642	1,280,100
2022	472,895	0.53	244,878	1,528,864	501,475	1,027,389
2023	480,351	0.53	248,764	1,280,100	509,147	770,953
2024	488,017	0.53	252,711	1,027,389	516,368	511,021
2025	495,027	0.53	256,436	770,953	530,932	240,020

**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**

July 07, 2016

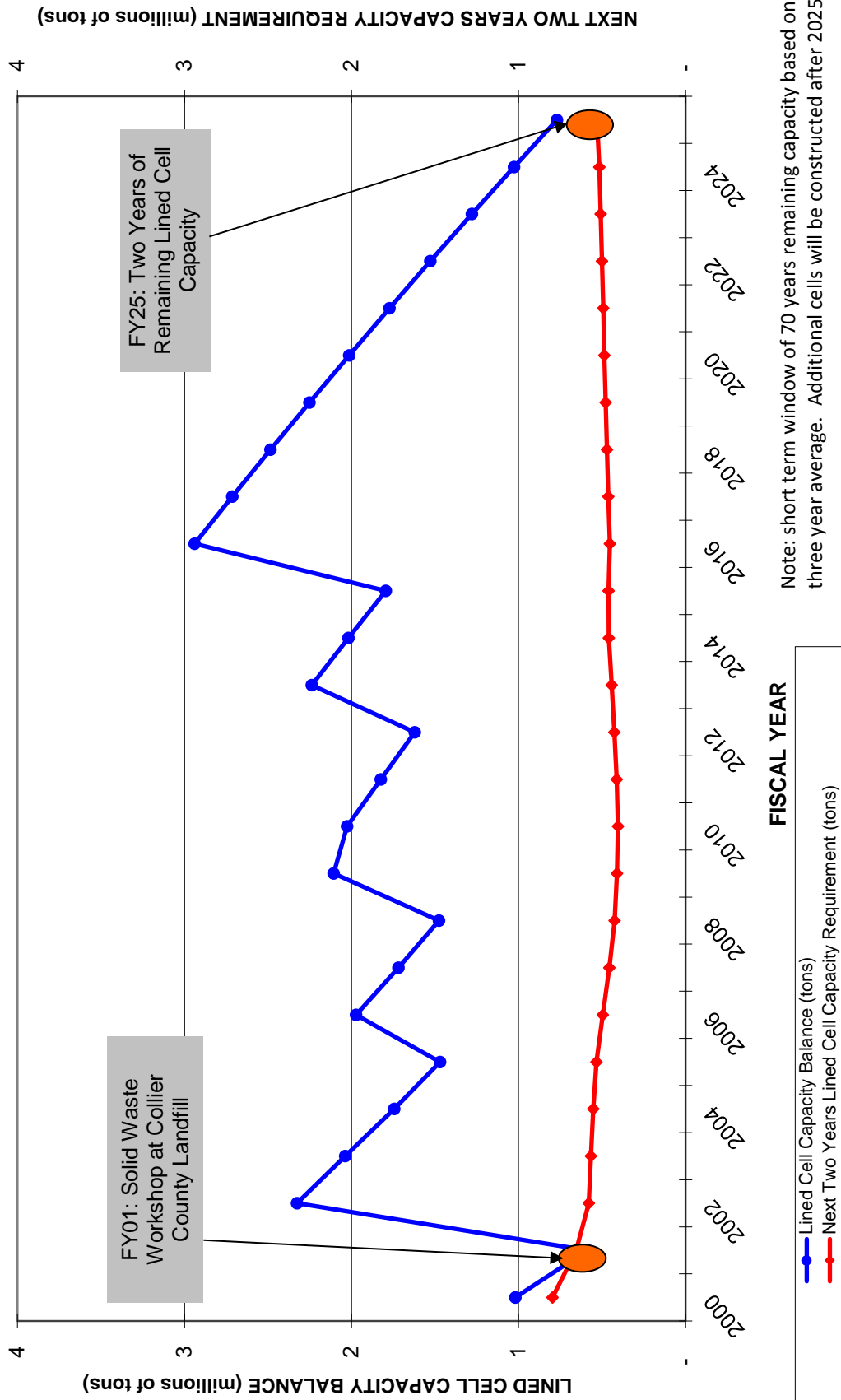
NOTES: (References are to the column numbers on previous page)

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, 2016, prepared by Collier County Comprehensive Planning Section. Populations are derived from data obtained from: 2010 Census; Bureau of Economic and Business Research (BEBR) population bulletins; Collier County Comprehensive Planning staff; and, Planning staff from Naples and Marco Island. FY 2035 - FY 2070 projected based on average annual percentage increase for FY 2032 - FY 2034 (.20%).
3. Tons Per Capita Disposal Rate for FY 2000 - FY 2016 is calculated by dividing the actual Annual Tons Disposed (column 4) by the Peak Population (column 2). FY 2017 forward is the average Tons Per Capita Disposal Rate (column 3) of previous 3 years (FY 2014, FY 2015, and FY 2016).
4. Annual Tons Disposed for FY 2015 is actual tonnage amount buried at the Collier County Landfill. FY 2016 reflects the projected tons disposed from the current year forecast. FY 2017 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).

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 dated 7/15/16.
2017	1,465,000	Lined Cell Expansion	WMIF 5-year Cell Development Completed Cell A6/Cell Development Schedule dated 7/15/16.

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.
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
 July 7, 2016



COLLIER COUNTY SCHOOL CAPITAL IMPROVEMENT PLAN

CONTENTS

- **SUMMARY OF DISTRICT SCHOOL BOARD OF COLLIER COUNTY CAPITAL IMPROVEMENT PLAN (CIP) FOR NEXT FIVE YEARS**

Recommendation:

That the BCC include the District School Board of Collier County Capital Improvement Plan for FY 17–36, and the District Facilities Work Program for FY 17–21 by reference with the FY 2016/17 – FY 2020/2021 Schedule of Capital Improvement update and amendment.

Chapter 1

Summary of 5 Year Capital Budget

5 Year Capital Budget Summary

Project	FY	FY	FY	FY	FY	FY	Five Year	
	2016	2017	2018	2019	2020	2021	Total	Total
Capital Construction Program								
New Schools/Additions								
Growth High School			100,000			4,000,000		4,100,000
Immokalee High School Addition/Renovations			500,000			9,570,000		10,070,000
Subtotal New Schools/Additions			600,000			13,570,000		14,170,000
Capital Maintenance/Renovations (see Chapter 6)								
Electrical	3,572,000	3,035,000	3,017,000	4,715,000	5,404,000			19,743,000
Emergency Maintenance Projects	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000			15,000,000
Facilities Renovation Other	1,343,000	195,000	10,000	510,000	41,000			2,099,000
Facility Modifications/Special Needs	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000			6,000,000
HVAC	24,527,000	16,688,000	20,119,000	13,830,000	16,104,000			91,268,000
P25 Radio System		2,500,000						2,500,000
Roads and Bridge	105,000	15,000	26,000	10,000	36,000			192,000
Roofing	2,685,000	3,225,000	3,525,000	11,075,000	16,315,000			36,825,000
School Maintenance and Renovations	9,969,000	7,154,000	6,254,000	5,104,000	5,065,000			33,546,000
Subtotal Capital Maintenance/Renovations (see Chapter 6)	46,401,000	37,012,000	37,151,000	39,444,000	47,165,000			207,173,000
Subtotal Capital Construction Program	46,401,000	37,012,000	37,751,000	39,444,000	60,735,000			221,343,000
Other Items								
Site Acquisition/Asset Management								
Property Management	75,000	45,000	45,000	45,000	45,000			255,000
Site Acquisition	110,000	50,000						160,000
Subtotal Site Acquisition/Asset Management	185,000	95,000	45,000	45,000	45,000			415,000
Health and Safety								
Fire Safety	614,378	614,866	615,363	615,870	616,387			3,076,864

Project	FY	FY	FY	FY	FY	Five Year	
	2016	2017	2018	2019	2020	2021	Total
Health, Safety, and Security	507,079	516,041	525,004	534,169	543,506		2,625,799
Security Camera Replacements/Additions	292,257	298,102	304,064	310,146	316,349		1,520,918
Surveillance/Security Camera Maintenance	146,128	149,051	152,032	155,073	186,175		788,459
Subtotal Health and Safety	1,559,842	1,578,060	1,596,463	1,615,258	1,662,417		8,012,040
Portables							
Portable Leasing	250,000	300,000	380,000	380,000	430,000		1,740,000
Portable Renovation	70,000	70,000	70,000	70,000	70,000		350,000
Portable Setup	120,000	340,000	472,000	220,000	340,000		1,492,000
Subtotal Portables	440,000	710,000	922,000	670,000	840,000		3,582,000
Technology (*Transfer to General)							
Classroom Technology Equipment *	3,726,000	3,797,000	3,915,000	5,485,000	5,082,000		22,005,000
Enterprise Software/Current Year	50,000						50,000
Enterprise Software/Prior Year	12,999,000						12,999,000
Technology Infrastructure *	2,178,000	2,181,000	4,578,000	3,908,000	4,390,000		17,235,000
Technology Retrofit *	1,407,099	1,426,154	1,429,446	1,439,098	1,450,000		7,151,797
Subtotal Technology (*Transfer to General)	20,360,099	7,404,154	9,922,446	10,832,098	10,922,000		59,440,797
Equipment and Vehicles (*Transfer to General)							
Districtwide Equipment *	1,383,320	1,334,700	1,345,000	1,261,500	1,300,000		6,624,520
Equipment/Portables *	45,000	45,000	45,000	45,000	45,000		225,000
School Buses	6,015,295	9,308,337	9,210,187	1,317,337	422,442		26,273,598
Vehicles other than Buses	369,822	416,915	360,973	561,484	785,017		2,494,211
Subtotal Equipment and Vehicles (*Transfer to General)	7,813,437	11,104,952	10,961,160	3,185,321	2,552,459		35,617,329
Planning and Staff Support							
Building & Equipment Maintenance Staff	10,686,789	10,962,512	11,223,544	11,514,409	11,814,367		56,201,621
Facilities Staff	1,413,274	1,452,213	1,492,325	1,533,644	1,576,191		7,467,647
Other Capital Staff	602,020	618,670	635,823	653,492	671,689		3,181,694
Permitting Services	135,000	135,000	135,000	135,000	135,000		675,000
Printing Services	18,000	18,000	18,000	18,000	18,000		90,000

Project	FY	FY	FY	FY	FY	FY	FY	Five Year Total
	2016	2017	2018	2019	2020	2021	2022	
Professional Services Retainer-Engineer/Architect/Other	135,000	90,000	90,000	90,000	90,000	90,000	90,000	495,000
Site/Facility Testing	45,000	45,000	45,000	45,000	45,000	45,000	45,000	225,000
Subtotal Planning and Staff Support	13,035,083	13,321,395	13,639,692	13,989,545	14,350,247	14,700,492	15,050,739	68,335,962
Carry Forward/Debt Service/Insurance/Transfer/Contingency								
Carry Forward for Subsequent Years	29,304,587	15,272,762	5,382,713	17,891,555	16,893,024	16,893,024	16,893,024	84,744,641
Charter School Capital Flow Thru	250,000	250,000	250,000	250,000	250,000	250,000	250,000	1,250,000
Debt Service	37,300,000	43,000,000	43,000,000	33,700,000	35,000,000	35,000,000	35,000,000	192,000,000
Property Insurance	4,435,000	4,540,000	4,585,000	4,605,000	4,615,000	4,615,000	4,615,000	22,780,000
Reserve for Future Schools/Current Year	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	75,000,000
Reserve for Future Schools/Prior Years	36,335,000							36,335,000
Self-Insured Retention	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	15,000,000	75,000,000
Transfer to General Maintenance	3,425,000	3,525,000	3,625,000	3,725,000	3,825,000	3,825,000	3,825,000	18,125,000
Subtotal Carry Forward/Debt Service/Insurance/Transfer/Contingency	141,049,587	96,587,762	86,842,713	90,171,555	90,583,024	90,583,024	90,583,024	505,234,641
Subtotal Other Items	184,443,048	130,801,323	123,929,474	120,508,777	120,955,147	120,955,147	120,955,147	680,637,769
Total Projects	230,844,048	167,813,323	161,680,474	159,952,777	181,690,147	181,690,147	181,690,147	901,980,769

Summary of Estimated Revenue

Estimated Revenue	FY 2016 2017	FY 2017 2018	FY 2018 2019	FY 2019 2020	FY 2020 2021	Five Year Total
Local Sources						
Impact Fees	12,000,000	12,000,000	12,000,000	12,000,000	12,000,000	60,000,000
Interest Income	400,000	400,000	400,000	400,000	400,000	2,000,000
Capital Improvement Tax	115,692,048	124,256,736	132,155,712	140,318,064	149,546,592	661,969,152
Beginning Balance	100,900,000	29,304,587	15,272,762	5,382,713	17,891,555	168,751,617
Other	12,000	12,000	12,000	12,000	12,000	60,000
Subtotal Local Sources	229,004,048	165,973,323	159,840,474	158,112,777	179,850,147	892,780,769
State						
CO & DS	800,000	800,000	800,000	800,000	800,000	4,000,000
PECO Maint.	790,000	790,000	790,000	790,000	790,000	3,950,000
Charter Capital Flow Thru	250,000	250,000	250,000	250,000	250,000	1,250,000
Subtotal State	1,840,000	1,840,000	1,840,000	1,840,000	1,840,000	9,200,000
Total	230,844,048	167,813,323	161,680,474	159,952,777	181,690,147	901,980,769

Revenue Definitions

Impact Fee – Impact fees are a charge on new development to pay for the construction or expansion of Schools related to growth created by new residential construction. Impact fees are levied against the construction of a dwelling unit at the same time that a permit is issued.

Interest Income – Interest earned on (idle) funds invested by the District in accordance with Board policy on investments.

Capital Improvement Tax – Capital Improvement Tax is an ad-valorem tax authorized by section 1011.71(2), F.S., and allows School Boards to levy up to 1.50 mills for construction projects, remodeling and renovation, purchase of school buses and other eligible equipment purchases. Our voter approved referendum allowed a reduction of .25 mills in Capital Millage in exchange for an offsetting increase in Operating Millage. This plan is phasing out the referendum millage in the General Fund and restoring the Capital Millage to 1.50 mills in FY2017.

Beginning Balance –Beginning balance is the unencumbered and unspent funds available after all accounting records have been closed for a given fiscal year. Some of the beginning fund balance may represent rollover of unspent funds from the prior year for which projects have not yet been completed or encumbered.

Other – Other income represents the refund of fuel taxes and any other miscellaneous revenue that could be received during the year.

Capital Outlay and Debt Service (CO&DS) – are derived from the motor vehicle license tax collected and distributed by the state.

PECO Maintenance – Gross Receipts Utility Taxes are the source of revenues for Public Education Capital Outlay (PECO) funding which is appropriated annually by the legislature.

Charter Capital Flow Thru – State funds that are received on behalf of Charter Schools.

COUNTY PARKS AND RECREATION FACILITIES

CONTENTS

- **COUNTY COMMUNITY AND REGIONAL PARK LANDS – SUMMARY**
- **LEVEL OF SERVICE STANDARD (LOSS) ASSESSMENT FOR COMMUNITY PARK LANDS**
 - **TABLE**
 - **CHART**
- **ANTICIPATED CHANGES IN COMMUNITY PARK LAND INVENTORY OVER NEXT FIVE YEARS – TABLE**
- **LEVEL OF SERVICE STANDARD (LOSS) ASSESSMENT FOR REGIONAL PARK LANDS**
 - **TABLE**
 - **CHART**
- **ANTICIPATED CHANGES IN REGIONAL PARK LAND INVENTORY OVER NEXT FIVE YEARS – TABLE**
- **COUNTY PARK LAND INVENTORY**
- **COUNTY PARKS INVENTORY – MAP**
- **FEDERAL AND STATE OWNED PARK LAND – MAP**

2016 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: \$107,000 per acre* (Community)
 \$450,000 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 9/30/2016	594.74	\$63,637,180
Required Inventory as of 9/30/2021	501.6 **	\$53,671,200
Proposed AUIR FY 2016/17-2020/21	<u>0.00</u>	<u>\$0</u>
5-year Surplus or (Deficit)	93.14	\$9,965,980

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

Available Inventory as of 9/30/2016	1,237.51	\$556,879,500
Required Inventory as of 9/30/2021	1,256.52 ***	\$565,434,000
Proposed AUIR FY 2016/17-2020/21	<u>0.00</u>	<u>\$0</u>
5-year Surplus or (Deficit)	(19.01)	(\$8,554,500)

Expenditures

Proposed AUIR FY 16/17-20/21 (value of) Acquisitions	\$0
Debt Service Payments for 2006/2012 Bonds	\$17,424,700
Total Expenditures	<u>\$17,424,700</u>

Revenues

Impact Fees anticipated	\$41,550,400
Interest/Misc	\$465,000
Grant/Reimbursement	\$0
Available Cash for Future Projects/Payment of Debt Service	\$5,852,600
Proposed added value through commitments, leases and governmental transfers	\$0
Total Revenues	<u>\$47,868,000</u>

Surplus or (Deficit) Revenues**** \$30,443,300

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 2016/17- FY 2020/21.

Notes:

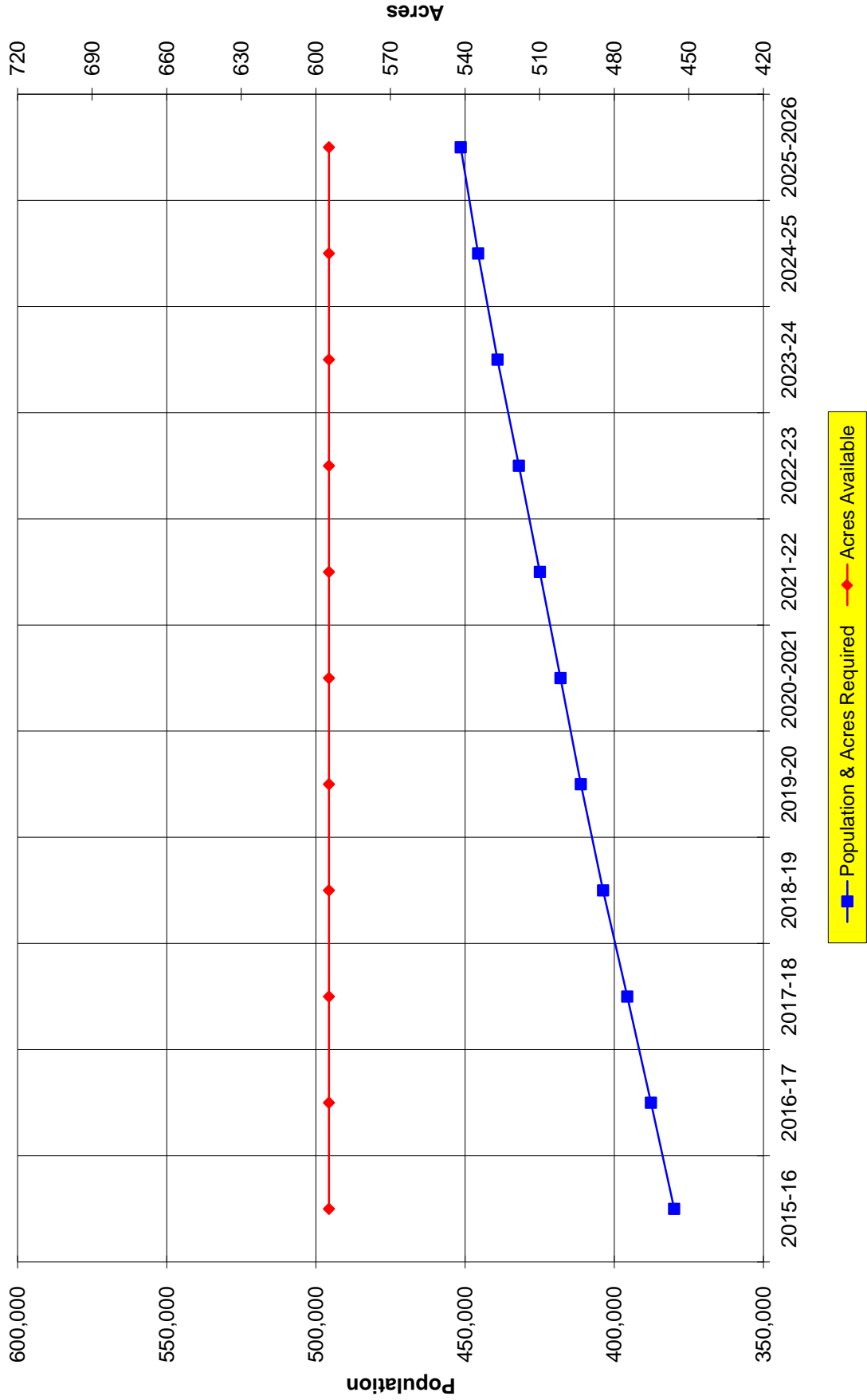
- * Community Park Land and Regional Park Land Unit Cost values are based on the 2015 Impact Fee Study Update
- ** Peak Season population for the unincorporated area of the County of 418,004 x 0.0012 LOSS = 501.60 acres
- *** Countywide Peak Season population of 465,377 x 0.0027 LOSS = 1,256.52 acres
- **** Reserved for future growth.

2016 AUJR

Community Park Acres
LOSS: 1.2 Acres/1000 Population

FISCAL YEAR	POPULATION UNINCORPORATED	PARK ACRES REQUIRED	PARK ACRES PLANNED IN AUJR	PARK ACRES AVAILABLE *	SURPLUS/ (DEFICIENCY)	REQUIRED COST AT	TOTAL/VALUE AVAILABLE
		0.0012000				\$107,000	\$107,000
2015-16	379,928	455.91		594.74	138.83	\$48,782,370	\$63,637,180
2016-17	387,703	465.24		594.74	129.50	\$49,780,680	\$63,637,180
2017-18	395,639	474.77		594.74	119.97	\$50,800,390	\$63,637,180
2018-19	403,740	484.49		594.74	110.25	\$51,840,430	\$63,637,180
2019-20	411,203	493.44		594.74	101.30	\$52,798,080	\$63,637,180
2020-2021	418,004	501.60		594.74	93.14	\$53,671,200	\$63,637,180
1st 5-Year Growth (2017-2021)	38,076	45.69	0.00				
2021-22	424,921	509.91		594.74	84.83	\$54,560,370	\$63,637,180
2022-23	431,957	518.35		594.74	76.39	\$55,463,450	\$63,637,180
2023-24	439,112	526.93		594.74	67.81	\$56,381,510	\$63,637,180
2024-25	445,617	534.74		594.74	60.00	\$57,217,180	\$63,637,180
2025-2026	451,450	541.74		594.74	53.00	\$57,966,180	\$63,637,180
2nd 5-Year Growth (2022-2026)	33,446	40.14	0.00				
Total 10-Year Growth (2017-2026)	71,522	85.83	0.00				

2016 AUJR Community Park Acres, LOSS: 1.2 Acres / 1,000 Population



Anticipated Changes in Community Park Land Inventory FY 16/17 to FY 25/26

FY	Action	Acquisition Type	Location	Acres	Value	Cash Expenditure
2016/17					\$107,000	
					\$0	
2017/18			FY 16/17 TOTAL	0	\$0	\$0
					\$0	
2018/19			FY 17/18 TOTAL	0	\$0	\$0
					\$0	\$0
2019/20			FY 18/19 TOTAL	0	\$0	\$0
					\$0	
2020/2021			FY 19/20 TOTAL	0	\$0	\$0
					\$0	
			FY 20/21 TOTAL	0	\$0	\$0
			FY 16/17 TO FY 20/21 FIVE-YEAR SUBTOTAL	0	\$0	\$0
2021/22					\$0	
			FY 21/22 TOTAL	0	\$0	\$0
2022/23					\$0	
			FY 22/23 TOTAL	0	\$0	\$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
			FY 21/22 TO FY 25/26 FIVE-YEAR SUBTOTAL	0	\$0	\$0
			FY 16/17 TO FY 25/26 TEN-YEAR TOTAL	0	\$0	\$0

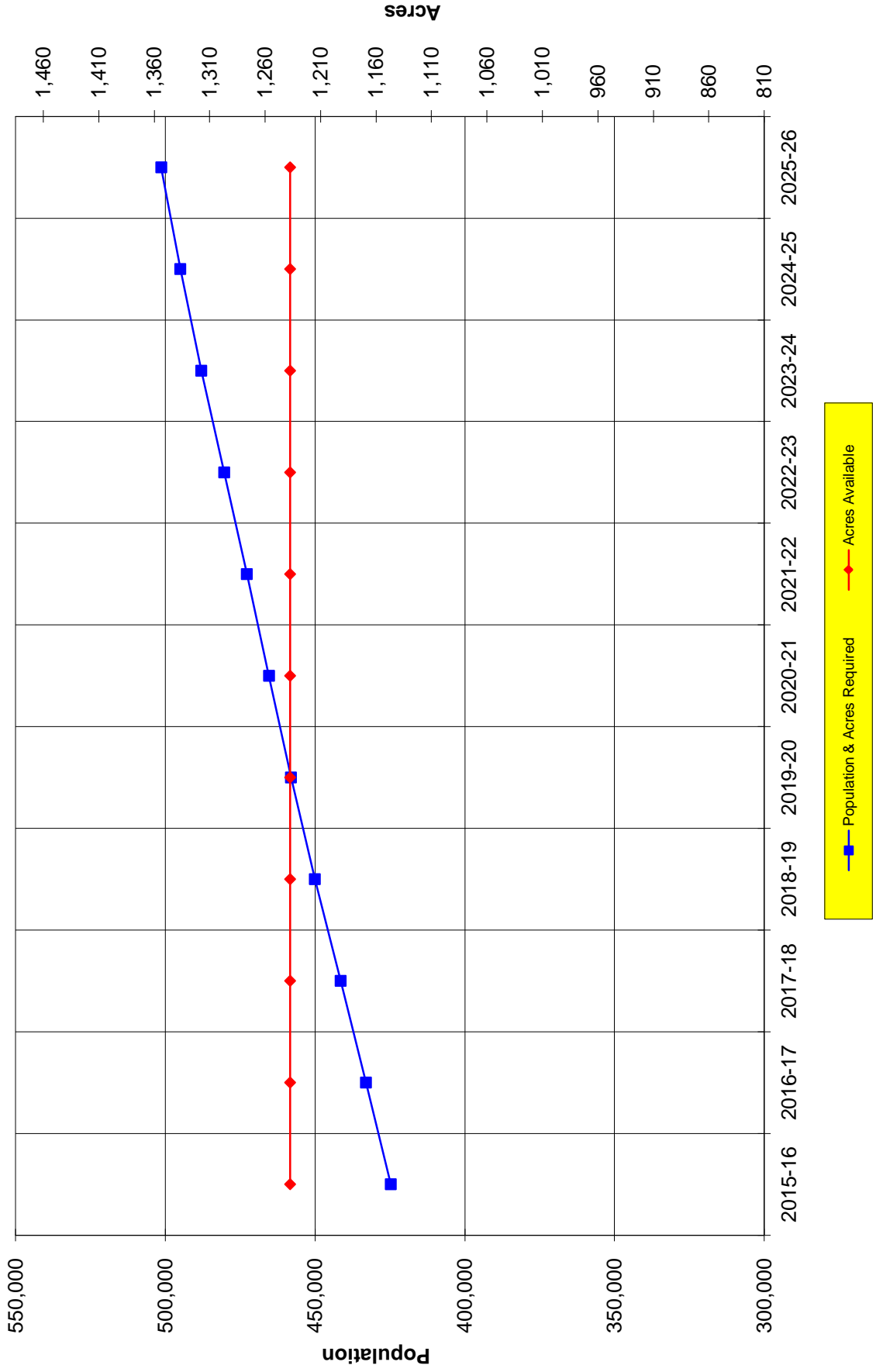
2016 AUIR

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	TOTAL/VALUE AVAILABLE
2015-16	424,723	1,146.75	0.00	1,237.51	90.76	\$450,000	\$450,000
2016-17	433,016	1,169.14	0.00	1,237.51	68.37	\$516,037,500	\$556,879,500
2017-18	441,470	1,191.97	0.00	1,237.51	45.54	\$526,113,000	\$556,879,500
2018-19	450,089	1,215.24	0.00	1,237.51	22.27	\$536,386,500	\$556,879,500
2019-20	458,066	1,236.78	0.00	1,237.51	0.73	\$546,858,000	\$556,879,500
2020-21	465,377	1,256.52	0.00	1,237.51	(19.01)	\$556,551,000	\$556,879,500
1st 5-Year Growth (2017-2021)	40,654	109.77	0.00				
2021-22	472,805	1,276.57	0.00	1,237.51	(39.06)	\$574,456,500	\$556,879,500
2022-23	480,351	1,296.95	0.00	1,237.51	(59.44)	\$583,627,500	\$556,879,500
2023-24	488,017	1,317.65	0.00	1,237.51	(80.14)	\$592,942,500	\$556,879,500
2024-25	495,027	1,336.57	0.00	1,237.51	(99.06)	\$601,456,500	\$556,879,500
2025-26	501,360	1,353.67	0.00	1,237.51	(116.16)	\$609,151,500	\$556,879,500
2nd 5-Year Growth (2022-2026)	35,983	97.15	0.00				
Total 10-Year Growth (2017-2026)	76,637	206.92	0.00				

2016 AUJR Regional Park Acres, LOSS: 2.7 Acres/1000 Population



Anticipated Changes in Regional Park Land Inventory FY 16/17 to FY 25/26

FY	Action	Acquisition Type	Location	Acres	Value	Cash Expenditure
2016/17					\$450,000	
					\$0	
			FY 16/17 TOTAL	0.00	\$0	\$0
2017/18					\$0	
			FY 17/18 TOTAL	0.00	\$0	\$0
2018/19					\$0	
			FY 18/19 TOTAL	0.00	\$0	\$0
2019/20					\$0	
			FY 19/20 TOTAL	0.00	\$0	\$0
2020/21					\$0	
			FY 20/21 TOTAL	0.00	\$0	\$0
			FY 16/17 TO FY 20/21 FIVE-YEAR SUBTOTAL	0.00	\$0	\$0
2021/22					\$0	
			FY 21/22 TOTAL	0.00	\$0	\$0
2022/23					\$0	
			FY 22/23 TOTAL	0.00	\$0	\$0
2023/24					\$0	
			FY 23/24 TOTAL	0.00	\$0	\$0
2024/25					\$0	
			FY 24/25 TOTAL	0.00	\$0	\$0
2025/26					\$0	
			FY 25/26 TOTAL	0.00	\$0	\$0
			FY 21/22 TO FY 25/26 FIVE-YEAR SUBTOTAL	0.00	\$0	\$0
			FY 16/17 TO FY 25/26 TEN-YEAR TOTAL	0.00	\$0	\$0

Summary of Changes in Parks and Recreation Inventory FY 15 to FY 16

Community Park Land Changes

Action	Location	Acres	Explanation
NET CHANGE TO COMMUNITY PARK ACREAGE		0	

Regional Park Land Changes

Action	Location	Acres	Explanation
NET CHANGE TO REGIONAL PARK ACREAGE		0	

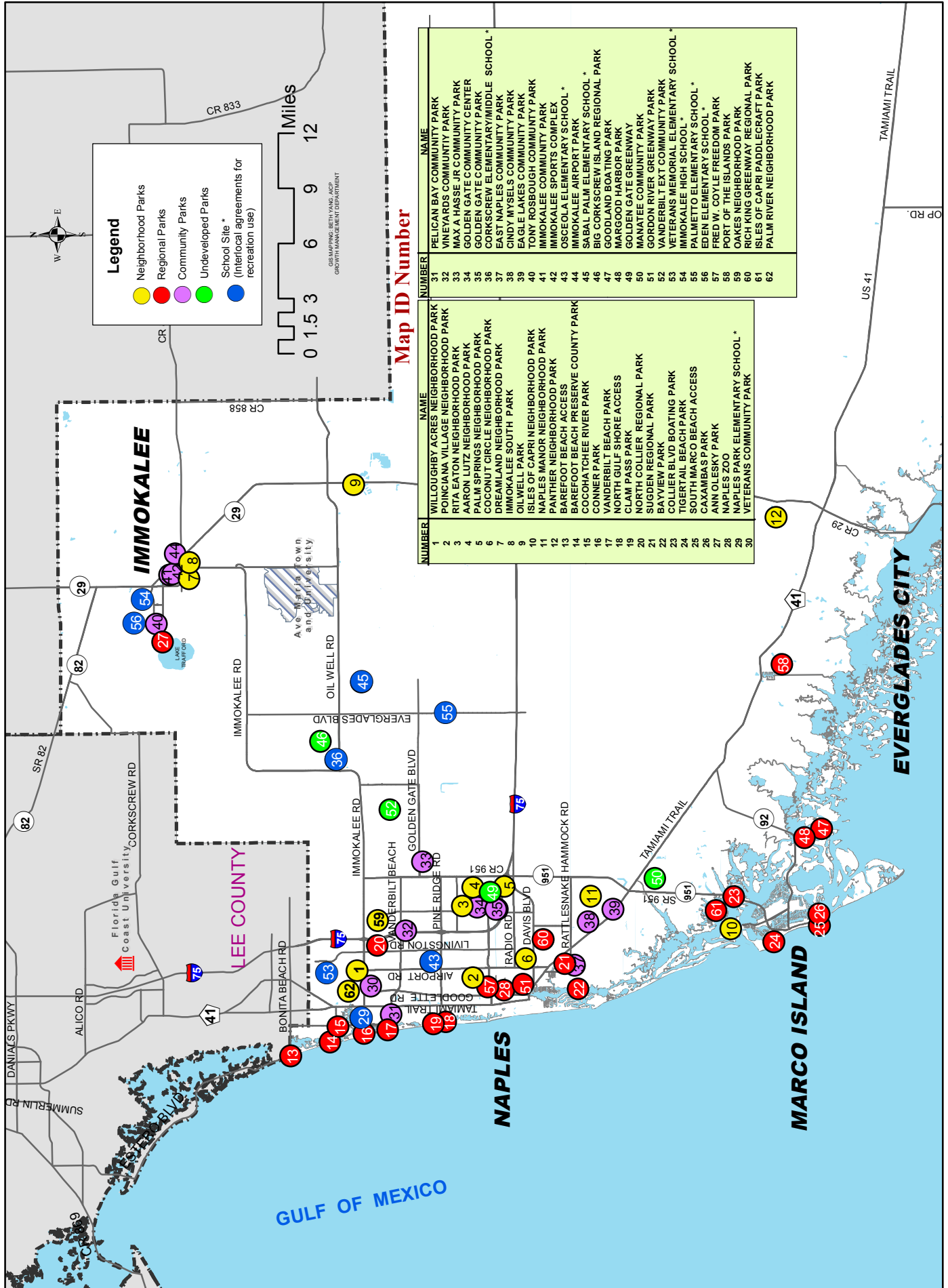
2016 Collier County Park Land Inventory

District	Location	Type	Acres	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	Cambler Park	Community	12.84				
City of Naples	Pulling 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 Hitler	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 Wackie	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		1,952.39	594.74	1,237.51		29.56

Totals	Acres	Community Park Acres	Regional Park Acres	Neighborhood Park Acres
Value per Unit	\$176,906			
Total Value	\$345,389,505	\$105,213,074.44	\$218,922,944.06	\$5,229,341.36

Notes: Only acreage within municipalities that have regional park type designations are inventoried for purposes of the AJIR. 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.

2016 PARKS INVENTORY



Legend

- Neighborhood Parks
- Regional Parks
- Community Parks
- Undeveloped Parks
- School Site *
(Interlocal agreements for recreation use)

0 1.5 3 6 9 12 Miles

Map ID Number

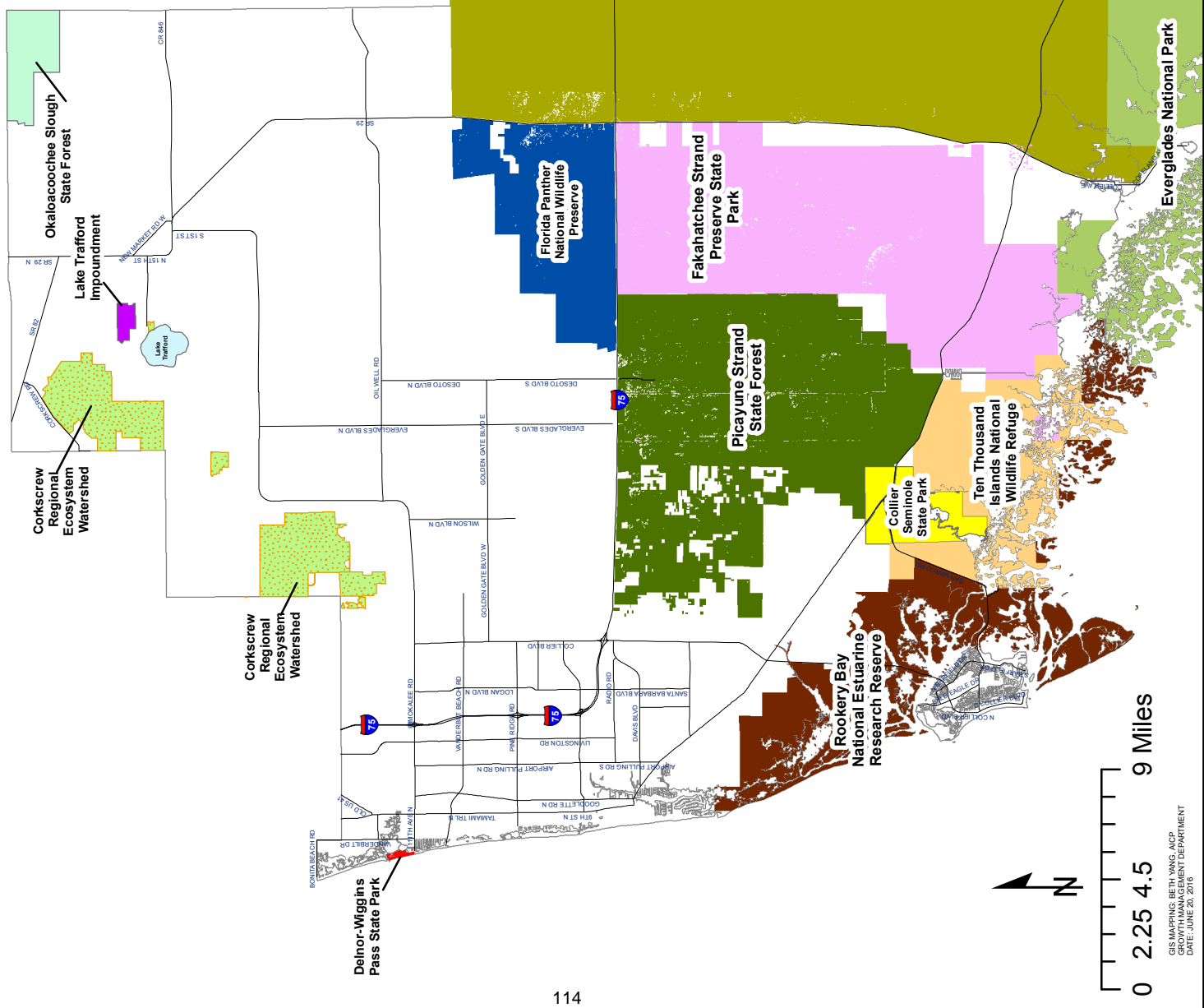
NUMBER	NAME	NUMBER	NAME
1	WILLOUGHBY ACRES NEIGHBORHOOD PARK	31	PELICAN BAY COMMUNITY PARK
2	POINCIANA VILLAGE NEIGHBORHOOD PARK	32	VINEYARDS COMMUNITY PARK
3	RITA EATON NEIGHBORHOOD PARK	33	MAX A HASSE JR COMMUNITY PARK
4	AARON LUTZ NEIGHBORHOOD PARK	34	GOLDEN GATE COMMUNITY CENTER
5	PALM SPRINGS NEIGHBORHOOD 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	OIL WELL 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	BARFOOT BEACH ACCESS	43	OSCEOLA ELEMENTARY SCHOOL *
14	BARFOOT BEACH PRESERVE COUNTY PARK	44	IMMOKALEE AIRPORT PARK
15	COCOHATCHEE RIVER PARK	45	SABAL PALM ELEMENTARY SCHOOL *
16	CONNER PARK	46	BIG CORKSCREW ISLAND REGIONAL PARK
17	VANDERBILT BEACH PARK	47	GOODLAND BOATING PARK
18	CLAM PASS PARK	48	MARGOOD HARBOR PARK
19	NORTH GULF SHORE ACCESS	49	GOLDEN GATE GREENWAY
20	SUGDEN REGIONAL PARK	50	MANATEE COMMUNITY PARK
21	BAYVIEW PARK	51	GORDON RIVER GREENWAY PARK
22	TIGERTAIL BOATING PARK	52	VANDERBILT EXT COMMUNITY PARK
23	SOUTH MARCO BEACH ACCESS	53	VETERANS MEMORIAL ELEMENTARY SCHOOL *
24	CAXAMBA PARK	54	IMMOKALEE HIGH SCHOOL *
25	ANN OLESKY PARK	55	PALMETTO ELEMENTARY SCHOOL *
26	NAPLES ZOO	56	EDEN ELEMENTARY SCHOOL *
27	NAPLES PARK ELEMENTARY SCHOOL *	57	FRED W. COYLE FREEDOM PARK
28		58	PORT OF THE ISLANDS PARK
29		59	OAKS NEIGHBORHOOD PARK
30		60	RICH KING GREENWAY REGIONAL PARK
		61	ISLES OF CAPRI PADDECRAFT 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
Okaloacoochee 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

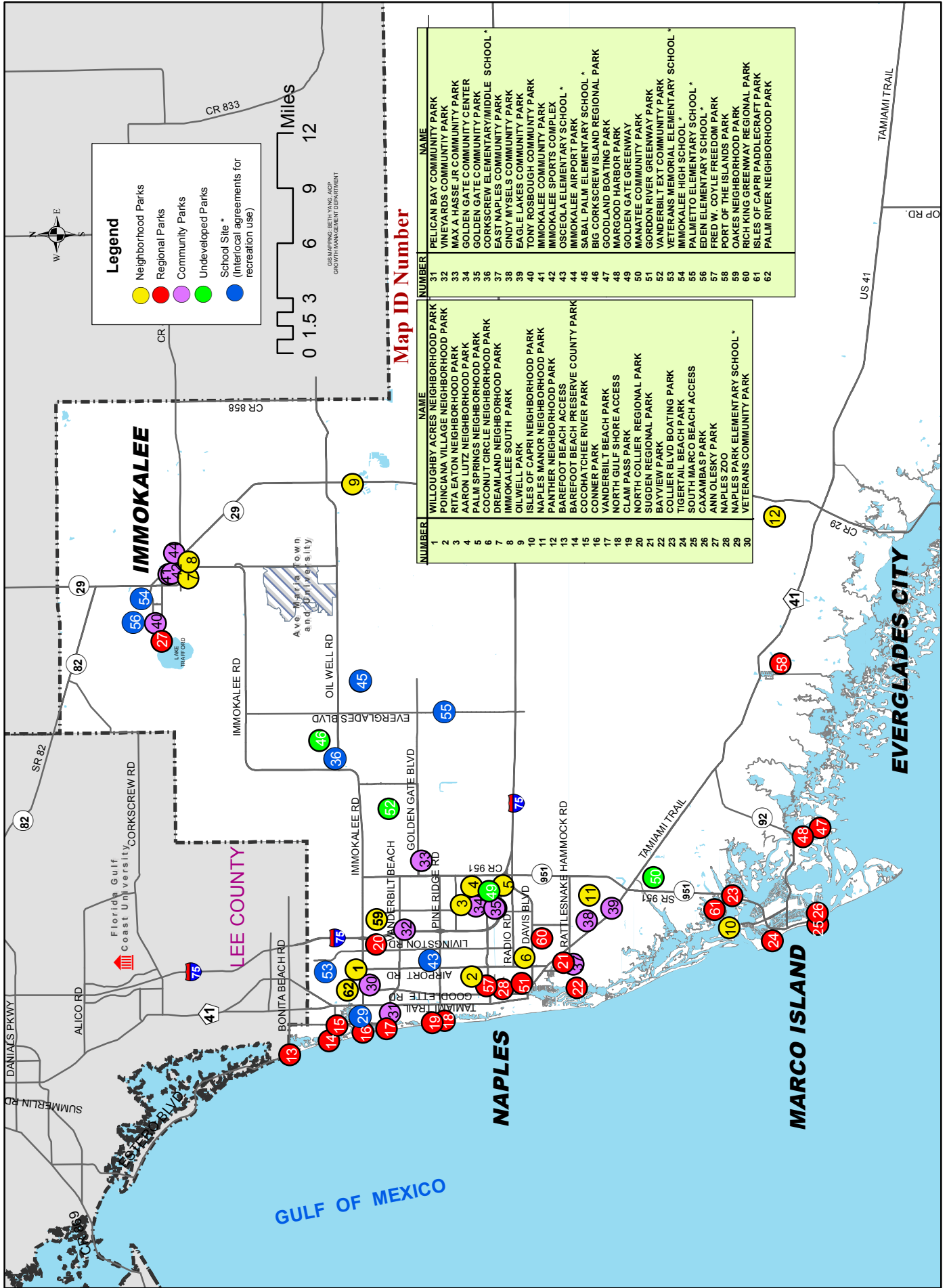


2016 Collier County Park Land Inventory

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			
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	Tigertrail 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	7.20		7.20			
2	North Naples	Comer Park	Regional	5.00		5.00			
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 Gullshore Beach Access	Regional	0.50		0.50			
2	North Naples	North Naples NP (Best Friends-surplus)	Neighborhood					2.00	
3	North Naples	Oakles NP	Neighborhood	2.00					
2	North Naples	Oseola 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	East Naples 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. Coyte 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			
5	Immokalee	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 Rosborough 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. Hesse 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				
5	Urban Estates	Sabal Palm Elementary	Regional	37.50		37.50			
5	Urban Estates	Vanderbilt Extension CP	Community	9.50	9.50				
5	Urban Estates		Community	120.00	120.00				
		Total Collier Units	71	1,822.22	594.74	1,160.42	37.50	29.56	

INTENTIONALLY LEFT BLANK

2016 PARKS INVENTORY



Legend

- Neighborhood Parks
- Regional Parks
- Community Parks
- Undeveloped Parks
- School Site *
(Interlocal agreements for recreation use)

0 1.5 3 6 9 12 Miles

Map ID Number

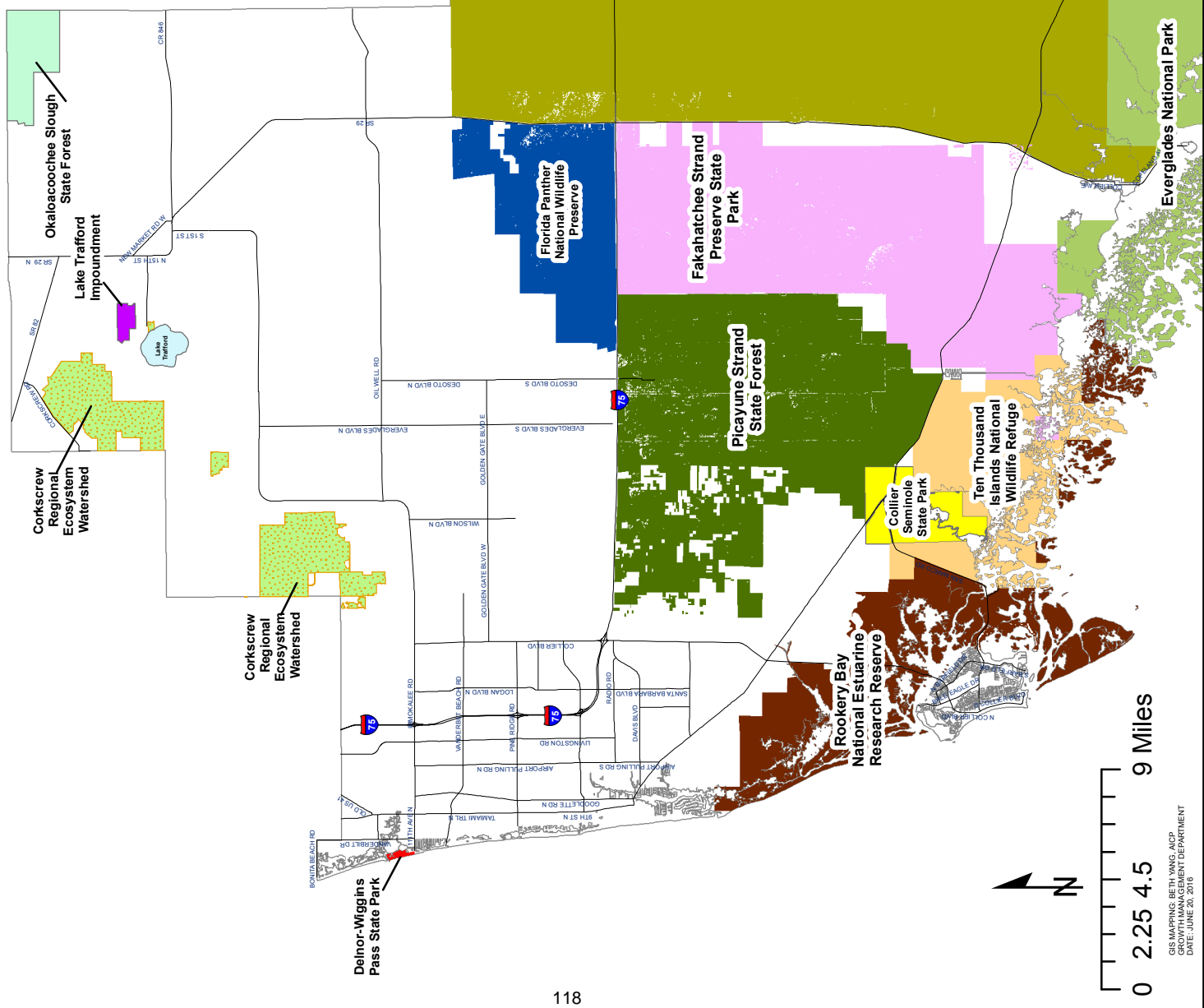
NUMBER	NAME	NUMBER	NAME
1	WILLOUGHBY ACRES NEIGHBORHOOD PARK	31	PELICAN BAY COMMUNITY PARK
2	POINCIANA VILLAGE NEIGHBORHOOD PARK	32	VINEYARDS COMMUNITY PARK
3	RITA EATON NEIGHBORHOOD PARK	33	MAX A HASSE JR COMMUNITY PARK
4	AARON LUTZ NEIGHBORHOOD PARK	34	GOLDEN GATE COMMUNITY CENTER
5	PALM SPRINGS NEIGHBORHOOD 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	OIL WELL 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	BARFOOT BEACH ACCESS	43	OSCEOLA ELEMENTARY SCHOOL *
14	BARFOOT BEACH PRESERVE COUNTY PARK	44	IMMOKALEE AIRPORT PARK
15	COCOCHATCHEE RIVER PARK	45	SABAL PALM ELEMENTARY SCHOOL *
16	CONNER PARK	46	BIG CORKSCREW ISLAND REGIONAL PARK
17	VANDERBILT BEACH PARK	47	GOODLAND BOATING PARK
18	CLAM PASS PARK	48	MARGOOD HARBOR PARK
19	NORTH GULF SHORE ACCESS	49	GOLDEN GATE GREENWAY
20	SUGDEN REGIONAL PARK	50	MANATEE COMMUNITY PARK
21	NORTH COLLIER 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	CAXAMBA 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	OAKS NEIGHBORHOOD PARK
30	VETERANS COMMUNITY PARK	60	RICH KING GREENWAY REGIONAL PARK
		61	ISLES OF CAPRI PADDECRAFT 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 2017 through 2021]. 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 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 2022 through 2026]. 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* that is incorporated by reference in the Capital Improvement Element.

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, constitute the amendments to the Capital Improvement Element.

EXHIBIT "A"
COLLIER COUNTY SCHEDULE OF CAPITAL IMPROVEMENTS
FISCAL YEARS 2017-2021

PROJECT No.	PROJECT	CAPITAL IMPROVEMENT SCHEDULE NOTES	\$ AMOUNT					TOTAL
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
60144	Oil Well Rd - Everglades Blvd to Oil Well Grade	Advanced Construction	\$1,400,000	\$300,000	\$300,000	\$300,000	\$300,000	\$2,600,000
60168	Vanderbilt Beach Rd - Collier Blvd to 8th St	R/D 17, R/M 18, R/A 19-21, C 20	\$2,000,000	\$25,160,000	\$0	\$0	\$61,050,000	\$88,210,000
60200	Goodland Rd (CR 92A) Improvements	D/C/I	\$400,000					\$400,000
60129	Wilson / Benfield Extension - Lord's Way to City Gate N	Study, Construction	\$2,466,000				\$3,000,000	\$2,466,000
TBD	Orange Blossom - Airport Rd to Livingston Blvd	S/D 18, R/A 21	\$0	\$200,000			\$3,000,000	\$3,200,000
TBD	Airport Rd - Vanderbilt Beach Rd to Immokalee Rd	D 21	\$0				\$0	\$3,000,000
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	D 17, R 18, C 21	\$500,000	\$250,000	\$0	\$0	\$5,000,000	\$5,750,000
60145	Golden Gate Blvd - 20th St to Everglades Blvd	R/D/A 17, D/A 18, A 19, C 20	\$5,100,000	\$9,900,000	\$8,800,000	\$4,100,000	\$0	\$27,900,000
60148	Airport Rd/Davis Blvd Intersection	R/W Acquisition, Construction	\$1,900,000	\$0	\$0	\$0	\$0	\$1,900,000
60198	Veterans Memorial	R/Design by Others 17, A 19-20	\$100,000	\$0	\$2,000,000	\$2,500,000	\$0	\$4,600,000
60199	Vanderbilt Beach Rd - US 41 to E of Goodlette	Design 17, Construction 20	\$200,000	\$350,000	\$0	\$8,870,000	\$0	\$9,070,000
60147	Randall/Immokalee Roads Intersection	Design	\$0	\$500,000	\$0	\$0	\$0	\$500,000
60116	US 41/SR 951 Intersection	Resurfacing	\$500,000	\$0	\$0	\$0	\$0	\$500,000
33340	8th St Bridge (LAP - Design, Build)	R/D/C	\$9,899,000	\$0	\$0	\$0	\$0	\$9,899,000
TBD	16th St Bridge (LAP)	R 18, C 20	\$0	\$208,000		\$8,100,000		\$8,308,000
TBD	47th St Bridge (LAP)	R 18, C 20	\$0	\$195,000		\$9,770,000		\$9,965,000
SB11	Operations Improvements/Programs	Contingency	\$3,168,000	\$34,000	\$1,088,000	\$783,000	\$1,086,000	\$6,159,000
60003	Collector Rds / Minor Arterial Rds		\$21,245,000	\$37,340,000	\$15,890,000	\$15,890,000	\$15,890,000	\$106,255,000
60171	Multi Project		\$2,846,000	\$750,000	\$750,000	\$750,000	\$750,000	\$5,846,000
	Transfers to Other Funds (309)		\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000
	Impact Fee Refunds		\$75,000	\$0	\$0	\$0	\$0	\$75,000
	Debt Service Payments		\$383,000	\$400,000	\$400,000	\$400,000	\$400,000	\$1,993,000
	ARTERIAL & COLLECTOR ROADS AND BRIDGE PROJECT TOTALS		\$13,135,000	\$13,136,000	\$13,132,000	\$13,137,000	\$13,134,000	\$65,674,000
			\$65,377,000	\$89,273,000	\$42,410,000	\$84,650,000	\$103,660,000	\$365,370,000

REVENUE KEY - REVENUE SOURCE	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	TOTAL
IF - Impact Fees / COA Revenue	\$9,300,000	\$9,500,000	\$9,900,000	\$10,100,000	\$10,100,000	\$48,900,000
DCA - Development Contribution Agreements	\$0	\$0	\$0	\$0	\$0	\$0
GA - Gas Tax Revenue	\$18,735,000	\$19,500,000	\$19,500,000	\$19,500,000	\$19,500,000	\$96,735,000
GR - Grants / Reimbursements	\$9,549,000	\$0	\$0	\$0	\$0	\$9,549,000
CF - Available Cash for Future Projects/Payment of Debt Service	\$16,958,000	\$0	\$0	\$0	\$0	\$16,958,000
GF - General Fund 001	\$0	\$0	\$0	\$0	\$0	\$0
Proposed Debt Service Offering	\$0	\$46,263,000	\$0	\$22,040,000	\$61,050,000	\$129,353,000
IN - Interest Revenue - Fund 313 Gas Tax & Impact Fees	\$450,000	\$450,000	\$450,000	\$450,000	\$450,000	\$2,250,000
TR - Fund 001 to 313 Transfer	\$1,619,000	\$10,260,000	\$9,260,000	\$9,260,000	\$9,260,000	\$39,659,000
TR - Fund 001 to 310 Transfer	\$6,841,000	\$0	\$0	\$0	\$0	\$6,841,000
TR - Fund 111 & 001 Transfers	\$3,300,000	\$3,300,000	\$3,300,000	\$3,300,000	\$3,300,000	\$16,500,000
RR - Revenue Reduction (less 5% required by law)	(\$1,375,000)					(\$1,375,000)
REVENUE TOTAL	\$65,377,000	\$89,273,000	\$42,410,000	\$84,650,000	\$103,660,000	\$365,370,000
CUMULATIVE FOR FY21 CAPITAL FUNDING	\$0	\$0	\$0	\$0	\$0	\$0

EXHIBIT "A"
COLLIER COUNTY SCHEDULE OF CAPITAL IMPROVEMENTS
 FISCAL YEARS 2017-2021

PARKS & RECREATION FACILITIES PROJECTS		\$ VALUE	\$ VALUE	\$ VALUE	\$ VALUE	\$ VALUE	\$ VALUE
PROJECT No.	PROJECT	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	TOTAL
TBD	Randall Curve Park	\$0	\$0	\$0	\$0	\$0	\$0
	Debt Service Payments (2017/2013 Bonds)	\$2,789,300	\$2,939,700	\$2,943,200	\$2,939,500	\$5,813,000	\$17,424,700
	PARKS & RECREATION FACILITIES						
	PROJECT TOTALS	\$2,789,300	\$2,939,700	\$2,943,200	\$2,939,500	\$5,813,000	\$17,424,700

REVENUE KEY - REVENUE SOURCE	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	TOTAL
IF - Impact Fees / COA Revenue	\$8,000,000	\$8,158,100	\$8,319,300	\$8,468,300	\$8,604,700	\$41,550,400
DIF - Deferred Impact Fees	\$0	\$0	\$0	\$0	\$0	\$0
GR - Grants / Reimbursements	\$0	\$0	\$0	\$0	\$0	\$0
IN - Interest / Misc.	\$93,000	\$93,000	\$93,000	\$93,000	\$93,000	\$465,000
RR - Revenue Reduction (less 5% required by law)	\$0	\$0	\$0	\$0	\$0	\$0
CF - Available Cash for Future Projects/Payment of Debt Service	\$5,852,600	\$0	\$0	\$0	\$0	\$5,852,600
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	\$13,945,600	\$8,251,100	\$8,412,300	\$8,561,300	\$8,697,700	\$47,868,000

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.

EXHIBIT "A"
COLLIER COUNTY SCHEDULE OF CAPITAL IMPROVEMENTS
 FISCAL YEARS 2017-2021

STORMWATER MANAGEMENT SYSTEM PROJECTS									
PROJECT No.	PROJECT	CAPITAL IMPROVEMENT							
		SCHEDULE NOTES							
		\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT
		FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	TOTAL		
	Countywide Programs, Planning & Maintenance	\$550,000	\$600,000	\$650,000	\$650,000	\$650,000	\$3,100,000		
	Infrastructure & Capacity Projects	\$6,754,000	\$5,166,000	\$5,323,000	\$6,036,000	\$6,756,000	\$30,035,000		
	STORMWATER MANAGEMENT SYSTEM PROJECT TOTALS	\$7,304,000	\$5,766,000	\$5,973,000	\$6,686,000	\$7,406,000	\$33,135,000		
	Stormwater Management Operating	\$822,000	\$1,145,000	\$1,145,000	\$1,145,000	\$1,145,000	\$5,402,000		
	Debt Service / Reserves	\$2,000	\$35,000	\$35,000	\$35,000	\$35,000	\$142,000		
	STORMWATER MANAGEMENT SYSTEM TOTAL PROGRAM COSTS	\$8,128,000	\$6,946,000	\$7,153,000	\$7,866,000	\$8,586,000	\$38,679,000		

REVENUE KEY - REVENUE SOURCE									
	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	TOTAL			
GR - Grants / Reimbursements	\$1,175,000	\$0	\$0	\$0	\$0	\$1,175,000			
BP - RESTORE Act	\$0	\$0	\$0	\$500,000	\$1,000,000	\$1,500,000			
CF - Available Cash for Future Projects/Payment of Debt Service	\$208,000	\$0	\$0	\$0	\$0	\$208,000			
RR - Revenue Reduction (less 5% required by law)	(\$2,000)	(\$2,000)	(\$2,000)	(\$2,000)	(\$2,000)	(\$10,000)			
IN - Interest Revenue - misc.	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000			
GF - General Fund (001)	\$2,525,000	\$2,601,000	\$2,679,000	\$2,759,000	\$2,842,000	\$13,406,000			
GF - MSTU General Fund (111)	\$4,172,000	\$4,297,000	\$4,426,000	\$4,559,000	\$4,696,000	\$22,150,000			
REVENUE TOTAL	\$8,128,000	\$6,946,000	\$7,153,000	\$7,866,000	\$8,586,000	\$38,679,000			

EXHIBIT "A"
COLLIER COUNTY SCHEDULE OF CAPITAL IMPROVEMENTS
FISCAL YEARS 2017-2021

POTABLE WATER SYSTEM PROJECTS		CAPITAL IMPROVEMENT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT
PROJECT No.	PROJECT	SCHEDULE NOTES	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	TOTAL
	Debt Service		\$9,250,000	\$9,251,000	\$8,807,000	\$8,807,000	\$8,807,000	\$44,922,000
	Expansion Related Projects		\$50,000	\$0	\$0	\$0	\$0	\$50,000
	Replacement & Rehabilitation Projects		\$17,878,000	\$20,580,000	\$20,992,000	\$21,410,000	\$21,842,000	\$102,702,000
	Departmental Capital		\$525,000	\$538,000	\$537,000	\$548,000	\$559,000	\$2,707,000
	Reserve for Contingencies - Replacement & Rehabilitation Projects		\$1,788,000	\$2,058,000	\$2,099,000	\$2,141,000	\$2,184,000	\$10,270,000
	POTABLE WATER SYSTEM PROJECT TOTALS		\$29,491,000	\$32,427,000	\$32,435,000	\$32,906,000	\$33,392,000	\$160,651,000

REVENUE KEY - REVENUE SOURCE	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	TOTAL
WIF - Water System Development Fees / Impact Fees	\$6,800,000	\$6,800,000	\$6,800,000	\$6,800,000	\$6,800,000	\$34,000,000
RR - Reserve Reduction (less 5% required by law)	\$0	\$0	\$0	\$0	\$0	\$0
B - Bond Proceeds	\$0	\$0	\$0	\$0	\$0	\$0
LOC - Commercial Paper	\$0	\$0	\$0	\$0	\$0	\$0
SRF - State Revolving Fund Loans	\$0	\$0	\$0	\$0	\$0	\$0
WCA - Water Capital Account	\$525,000	\$538,000	\$537,000	\$548,000	\$559,000	\$2,707,000
REV - Rate Revenue	\$22,166,000	\$25,089,000	\$25,098,000	\$25,558,000	\$26,033,000	\$123,944,000
REVENUE TOTAL	\$29,491,000	\$32,427,000	\$32,435,000	\$32,906,000	\$33,392,000	\$160,651,000

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. 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 2017 is obtained from the 2017 Proposed Budget, split 50/50 between Water and Wastewater.
- Department Capital: FY 2017 to 2021 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.
- Debt Service: FY 2017 to 2021 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
 FISCAL YEARS 2017-2021

SOLID WASTE DISPOSAL FACILITIES PROJECTS									
PROJECT No.	PROJECT	NOTES	CAPITAL IMPROVEMENT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT
TBD	County Landfill Cell Construction		SCHEDULE NOTES	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	TOTAL
	SOLID WASTE DISPOSAL FACILITIES PROJECT TOTALS			\$0	\$0	\$0	\$0	\$0	\$0

REVENUE KEY - REVENUE SOURCE									
	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	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. Landfill cells vary in size and disposal capacity.

EXHIBIT "A"
COLLIER COUNTY SCHEDULE OF CAPITAL IMPROVEMENTS
 FISCAL YEARS 2017-2021

WASTEWATER COLLECTION & TREATMENT SYSTEM PROJECTS		CAPITAL IMPROVEMENT		\$ AMOUNT		\$ AMOUNT		\$ AMOUNT		\$ AMOUNT		\$ AMOUNT			
PROJECT No.	PROJECT	SCHEDULE NOTES		FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	TOTAL	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	TOTAL
	Debt Service (CAFR)			\$9,250,000	\$9,251,000	\$8,807,000	\$8,807,000	\$8,807,000	\$44,922,000						
	Expansion Related Projects			\$0	\$0	\$0	\$0	\$0	\$0						
	Replacement & Rehabilitation Projects			\$38,271,000	\$35,660,000	\$35,970,000	\$35,063,000	\$35,673,000	\$180,637,000						
	Departmental Capital			\$525,000	\$593,000	\$594,000	\$606,000	\$618,000	\$2,936,000						
	Reserve for Contingencies -- Replacement & Rehabilitation Projects			\$3,827,000	\$3,566,000	\$3,597,000	\$3,506,000	\$3,567,000	\$18,063,000						
	WASTEWATER COLLECTION & TREATMENT SYSTEM PROJECT TOTAL			\$51,873,000	\$49,070,000	\$48,968,000	\$47,982,000	\$48,665,000	\$246,558,000						

REVENUE KEY - REVENUE SOURCE	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	TOTAL
SIF - Wastewater System Development Fees / Impact Fees	\$6,500,000	\$6,500,000	\$6,500,000	\$6,500,000	\$6,500,000	\$32,500,000
RR - Reserve Reduction (less 5% required by law)	\$0	\$0	\$0	\$0	\$0	\$0
B - Bond Proceeds	\$0	\$0	\$0	\$0	\$0	\$0
SRE - 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	\$525,000	\$593,000	\$594,000	\$606,000	\$618,000	\$2,936,000
REV - Rate Revenue	\$44,848,000	\$41,977,000	\$41,874,000	\$40,876,000	\$41,547,000	\$211,122,000
REVENUE TOTAL	\$51,873,000	\$49,070,000	\$48,968,000	\$47,982,000	\$48,665,000	\$246,558,000

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. 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 2017 is obtained from the 2017 Proposed Budget.
 - Department Capital:
 FY 2017 is obtained from the 2017 Proposed Budget, split 50/50 between Water and Wastewater.
 FY 2018 to FY 2020 are obtained from 2014 User Rate Study and FY 2021 is a 2% increase over FY 2020.
 - Debt Service:
 FY 2017 to 2021 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 2017-2021

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		\$48,900,000	
	Proposed Debt Service Offering		\$129,353,000	
	GA - Gas Tax Revenue		\$96,735,000	
	GR - Grants / Reimbursements		\$9,549,000	
	AC - Available Cash for Future Projects/Payment of Debt Service		\$16,958,000	
	TR - Transfers		\$63,000,000	
	GF - General Fund (001)		\$0	
	RR - Revenue Reduction (less 5% required by law)		(\$1,375,000)	
	IN - Interest Revenue - Impact Fees		\$2,250,000	\$365,370,000
Less Expenditures:		\$365,370,000		<u>\$365,370,000</u>
			Balance	<u>\$0</u>
POTABLE WATER SYSTEM PROJECTS				
Revenues:	WIF - Water System Development Fees/Impact Fees		\$34,000,000	
	RR - Revenue Reduction (less 5% required by law)		\$0	
	B - Bond Proceeds		\$0	
	LOC - Commercial Paper 1		\$0	
	SRF - State Revolving Fund Loans		\$0	
	WCA - Water Capital Account		\$2,707,000	
	REV - Rate Revenue		\$123,944,000	\$160,651,000
Less Expenditures:		\$160,651,000		<u>\$160,651,000</u>
			Balance	<u>\$0</u>
WASTEWATER COLLECTION & TREATMENT SYSTEM PROJECTS				
Revenues:	SIF - Wastewater System Development Fees/Impact Fees		\$32,500,000	
	RR - Revenue Reduction (less 5% required by law)		\$0	
	B - Bond Proceeds		\$0	
	SRF - State Revolving Fund Loans		\$0	
	LOC - Commercial Paper, Additional Senior Lien		\$0	
	SCA - Wastewater Capital Account, Transfers		\$2,936,000	
	REV - Rate Revenue		\$211,122,000	\$246,558,000
Less Expenditures:		\$246,558,000		<u>\$246,558,000</u>
			Balance	<u>\$0</u>
SOLID WASTE DISPOSAL FACILITIES PROJECTS				
Revenues:	LTF - Landfill Tipping Fees		\$0	\$0
Less Expenditures:		\$0		<u>\$0</u>
			Balance	<u>\$0</u>
PARKS & RECREATION FACILITIES PROJECTS				
Revenues:	IF - Impact Fees		\$41,550,400	
	DIF - Deferred Impact Fees		\$0	
	GR - Grants / Reimbursements		\$0	
	IN - Interest		\$465,000	
	RR - Revenue Reduction (less 5% required by law)		\$0	
	AC - Available Cash for Future Projects/Payment of Debt Service		\$5,852,600	
	TR - Added Value through Commitments, Leases & Transfers		\$0	
	GF - General Fund (001)		\$0	\$47,868,000
Less Expenditures:		\$17,424,700		<u>\$47,868,000</u>
			Balance	<u>\$30,443,300</u>
STORMWATER MANAGEMENT SYSTEM PROJECTS				
Revenues:	GR - Grants / Reimbursements		\$1,175,000	
	BP -RESTORE Act		\$1,500,000	
	CF - Available Cash for Future Projects/Payment of Debt Service		\$208,000	
	IN - Interest Revenue		\$250,000	
	RR - Revenue Reduction (less 5% required by law)		(\$10,000)	
	GF - General Fund (001)		\$13,406,000	
	GF - MSTU General Fund (111)		\$22,150,000	\$38,679,000
Less Expenditures:		\$38,679,000		<u>\$38,679,000</u>
			Balance	<u>\$0</u>
TOTAL PROJECTS		\$828,682,700	TOTAL REVENUE SOURCES	\$859,126,000

**APPENDIX H
FUTURE COSTS AND REVENUES BY TYPE OF PUBLIC FACILITY
FISCAL YEARS 2022-2026**

ARTERIAL AND COLLECTOR ROAD PROJECTS		CAPITAL IMPROVEMENT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT
PROJECT No.	PROJECT	SCHEDULE NOTES	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	TOTAL
	Contingency		\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$5,000,000
Sbtl	Operations Improvements/Programs		\$9,310,000	\$9,778,000	\$10,260,040	\$10,756,541	\$11,267,938	\$51,372,519
Sbtl	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 2022	FY 2023	FY 2024	FY 2025	FY 2026	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	\$17,567,938	\$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

**APPENDIX H
FUTURE COSTS AND REVENUES BY TYPE OF PUBLIC FACILITY
FISCAL YEARS 2022-2026**

PARKS AND RECREATION FACILITIES PROJECTS									
PROJECT No.	PROJECT	CAPITAL IMPROVEMENT SCHEDULE NOTES	\$ VALUE		\$ VALUE		\$ VALUE		\$ VALUE
			FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	TOTAL	
80002	Developer Contributions		\$0	\$0	\$0	\$0	\$0	\$0	\$0
PARKS AND RECREATION FACILITIES PROJECT TOTALS			\$0	\$0	\$0	\$0	\$0	\$0	\$0

REVENUE KEY - REVENUE SOURCE													
			FY 2022		FY 2023		FY 2024		FY 2025		FY 2026		TOTAL
IF - Impact Fees / COA Revenue			\$8,776,800	\$8,952,300	\$9,131,400	\$9,314,000	\$9,500,300	\$45,674,800					
GR - Grants / Reimbursements			\$0	\$0	\$0	\$0	\$0	\$0					
GF - General Fund (001)			\$0	\$0	\$0	\$0	\$0	\$0					
REVENUE TOTAL			\$8,776,800	\$8,952,300	\$9,131,400	\$9,314,000	\$9,500,300	\$45,674,800					

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 2022-2026**

STORMWATER MANAGEMENT SYSTEM PROJECTS		CAPITAL IMPROVEMENT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT
PROJECT No.	PROJECT	SCHEDULE NOTES	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	TOTAL
	Stormwater Management System Projects	Continuous	\$6,598,180	\$6,796,125	\$7,000,009	\$7,210,009	\$7,426,310	\$35,030,633
	Stormwater Management Operations & Reserves		\$1,180,000	\$1,180,000	\$1,180,000	\$1,180,000	\$1,180,000	\$5,900,000
	STORMWATER MANAGEMENT SYSTEM PROJECT TOTALS		\$7,778,180	\$7,976,125	\$8,180,009	\$8,390,009	\$8,606,310	\$40,930,633

REVENUE KEY - REVENUE SOURCE	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	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)	\$7,778,180	\$7,976,125	\$8,180,009	\$8,390,009	\$8,606,310	\$40,930,633
REVENUE TOTAL	\$7,778,180	\$7,976,125	\$8,180,009	\$8,390,009	\$8,606,310	\$40,930,633

**APPENDIX H
FUTURE COSTS AND REVENUES BY TYPE OF PUBLIC FACILITY
FISCAL YEARS 2022-2026**

POTABLE WATER SYSTEM PROJECTS		CAPITAL IMPROVEMENT SCHEDULE NOTES	\$ AMOUNT FY 2022	\$ AMOUNT FY 2023	\$ AMOUNT FY 2024	\$ AMOUNT FY 2025	\$ AMOUNT FY 2026	\$ AMOUNT TOTAL
PROJECT No.	PROJECT		FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	\$ AMOUNT TOTAL
	Expansion Related Projects		\$3,500,000	\$5,520,000	\$0	\$30,000,000	\$0	\$39,020,000
	Replacement & Rehabilitation Projects		\$22,286,000	\$22,737,000	\$23,149,000	\$23,637,000	\$24,118,000	\$115,927,000
	Debt Service		\$8,238,000	\$5,828,000	\$5,828,000	\$5,435,000	\$4,600,000	\$29,929,000
	Departmental Capital		\$570,000	\$581,000	\$593,000	\$605,000	\$617,000	\$2,986,000
	Reserve for Contingencies - Replacement & Rehabilitation Projects		\$2,229,000	\$2,274,000	\$2,315,000	\$2,364,000	\$2,412,000	\$11,594,000
	POTABLE WATER SYSTEM PROJECT TOTALS		\$36,823,000	\$36,940,000	\$31,885,000	\$62,041,000	\$31,747,000	\$199,436,000

REVENUE KEY - REVENUE SOURCE	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	TOTAL
WIF - Water System Development Fees	\$6,800,000	\$6,800,000	\$6,800,000	\$31,800,000	\$6,800,000	\$59,000,000
RR - Revenue Reduction (less 5% required by law)	\$0	\$0	\$0	\$0	\$0	\$0
WCA - Water Capital Account	\$570,000	\$581,000	\$593,000	\$605,000	\$617,000	\$2,986,000
REV - Rate Revenue	\$29,453,000	\$29,559,000	\$24,492,000	\$29,636,000	\$24,330,000	\$137,470,000
REVENUE TOTAL	\$36,823,000	\$36,940,000	\$31,885,000	\$62,041,000	\$31,747,000	\$199,436,000

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 2022-2026**

SOLID WASTE DISPOSAL FACILITIES PROJECTS									
PROJECT No.	PROJECT	CAPITAL IMPROVEMENT	\$ AMOUNT FY 2022	\$ AMOUNT FY 2023	\$ AMOUNT FY 2024	\$ AMOUNT FY 2025	\$ AMOUNT FY 2026	\$ AMOUNT TOTAL	
TBD	County Landfill Cell Construction	SCHEDULE NOTES	\$0	\$0	\$0	\$0	\$0	\$0	
SOLID WASTE DISPOSAL FACILITIES PROJECT TOTALS			\$0	\$0	\$0	\$0	\$0	\$0	

REVENUE KEY - REVENUE SOURCE						
	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	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.

**APPENDIX H
FUTURE COSTS AND REVENUES BY TYPE OF PUBLIC FACILITY
FISCAL YEARS 2022 - 2026**

WASTEWATER TREATMENT SYSTEM PROJECTS		CAPITAL IMPROVEMENT SCHEDULE NOTES	\$ AMOUNT					\$ AMOUNT TOTAL
PROJECT No.	PROJECT		FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	
	Expansion Related Projects		\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$27,000,000	
	Replacement & Rehabilitation Projects		\$35,035,000	\$35,358,000	\$34,995,000	\$35,005,000	\$175,764,000	
	Departmental Capital		\$630,000	\$643,000	\$656,000	\$669,000	\$3,280,000	
	Debt Service		\$8,238,000	\$8,488,000	\$8,488,000	\$8,095,000	\$40,569,000	
	Reserve for Contingencies - Replacement & Rehabilitation Projects		\$3,504,000	\$3,536,000	\$3,500,000	\$3,501,000	\$17,578,000	
	WASTEWATER TREATMENT SYSTEM PROJECT TOTALS		\$52,407,000	\$53,025,000	\$52,639,000	\$52,270,000	\$264,191,000	

REVENUE KEY - REVENUE SOURCE		\$ AMOUNT					\$ AMOUNT TOTAL
		FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	
SIF - Wastewater System Development Fees / Impact Fees		\$6,500,000	\$6,500,000	\$6,500,000	\$6,500,000	\$6,500,000	\$32,500,000
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		\$630,000	\$643,000	\$656,000	\$669,000	\$682,000	\$3,280,000
REV - Rate Revenue		\$45,277,000	\$45,882,000	\$45,483,000	\$45,101,000	\$46,668,000	\$228,411,000
	REVENUE TOTAL	\$52,407,000	\$53,025,000	\$52,639,000	\$52,270,000	\$53,850,000	\$264,191,000

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 2022-2026**

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		
			Balance	<u><u>\$0</u></u>
POTABLE WATER SYSTEM PROJECTS				
Revenues:	WIF - Water System Development Fees		\$59,000,000	
	RR - Revenue Reduction (<i>less 5% required by law</i>)		\$0	
	WCA - Water Capital Account		\$2,966,000	
	REV - Rate Revenue		\$137,470,000	\$199,436,000
Less Expenditures:		\$199,436,000		
			Balance	<u><u>\$0</u></u>
WASTEWATER TREATMENT SYSTEM PROJECTS				
Revenues:	SIF - Wastewater System Development Fees		\$32,500,000	
	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		\$3,280,000	
	REV - Rate Revenue		\$228,411,000	\$264,191,000
Less Expenditures:		\$264,191,000		
			Balance	<u><u>\$0</u></u>
SOLID WASTE DISPOSAL FACILITIES PROJECTS				
Revenues:	LTF - Landfill Tipping Fees		\$0	\$0
Less Expenditures:		\$0		
			Balance	<u><u>\$0</u></u>
PARKS & RECREATION FACILITIES PROJECTS				
Revenues:	IF - Impact Fees		\$45,674,800	
	GR - Grants / Reimbursements		\$0	
	GF - General Fund (001)		\$0	\$45,674,800
Less Expenditures:		\$0		
			Balance	<u><u>\$45,674,800</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)		\$40,930,633	\$40,930,633
Less Expenditures:		\$40,930,633		
			Balance	<u><u>\$0</u></u>
TOTAL PROJECTS		\$695,327,969	TOTAL REVENUE SOURCES	\$741,002,769

