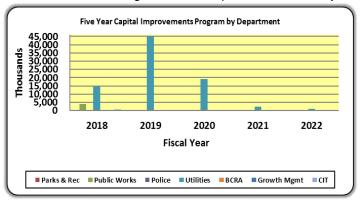
Capital Improvements Program

Appendix B: Capital Improvements Program

The Capital Improvements Program represents a schedule of major public improvement projects and expenditures for the next five years. The plan is developed in a financially feasible manner meaning that a project is not programmed unless it has an identified funding source. This plan allows the City to

look ahead to determine the needs for public improvements and then schedule them within the capabilities of the City's financial resources. Projects from the first year of the Plan are recommended by the City Manager as part of the annual budget for the next fiscal year.

The FY 18 Capital Improvements Program (CIP) provides funding for a few of the City's infrastructure needs. Total expenditures for FY 18 are \$20,321,137 with a 5-year total budget of \$88,910,707 needed but funding source not known for future needs.



Because of significantly declining revenues, the City has deferred numerous capital improvement projects such as road paving, facility maintenance, vehicle replacement and information technology investment. This will likely result in higher long term costs.

New capital projects typically funded by grants, also add ongoing maintenance costs to the City's operational budgets. These projects are carefully scrutinized to evaluate the benefit to the community against the ongoing operational costs.

Funding Sources

<u>Community Development Block Grant (CDBG)</u> funds are received from the United States Department of Housing and Urban Development (HUD) for specific community development programs.

Fleet Fund (FLEET) allocations from departments are used for vehicle replacements.

General Fund (GENF) funding provides the City's discretionary monies for projects that do not qualify for other funding sources.

<u>Impact Fees – Fire (IMPF)</u> are one-time charges against new development used to offset the impact of growth.

<u>Space Coast Area Transit (SCAT)</u> funds are received from Brevard County for Bus/Transit Shelter and Bench agreement.

<u>State Revolving Loan Fund (SRF)</u> funds are received from Florida Department of Environmental Protection by low-interest loans for water and wastewater infrastructure projects.

<u>Stormwater Utilities Fund (SWU)</u> revenues through fees charged for services are dedicated for the use of various aspects of stormwater management.

<u>Utilities Operating Fund (UTO)</u> funds the construction and/or acquisition of water and sewer utility improvement projects.

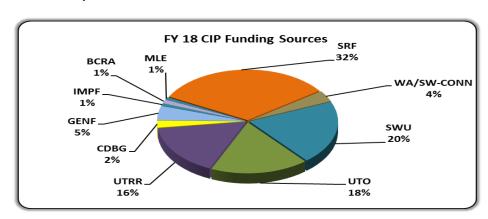
<u>Utilities Renewal and Replacement Fund (UTRR)</u> accounts for the receipt of 5% of the Utilities Operating Fund revenues that are used to repair and replace existing water and sewer facilities.

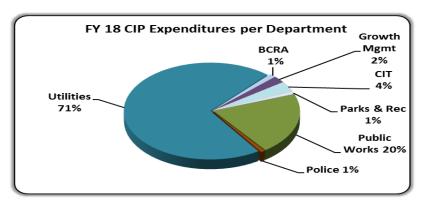
Five-Year Capital Improvements Program by Department

		Schedule of	f Estimated Ex	xpenditures		Total
Departments	FY 18	FY 19	FY 20	FY 21	FY 22	Project Cost
Utilities	14,414,586	45,283,312	19,292,649	2,473,653	953,358	82,417,558
Police	163,444	-	-	-	-	163,444
Public Works	4,150,000	-	-	-	-	4,150,000
Parks & Recreation	160,000	-	-	-	-	160,000
Growth Management	457,497	-	-	-	-	457,497
Bayfront Community	250,549	-	-	-	-	250,549
CIT	725,061	124,000	134,000	157,908	170,690	1,311,659
Citywide CIP Total	20,321,137	45,407,312	19,426,649	2,631,561	1,124,048	88,910,707

FY 18 Capital Improvement Plan

The following pie charts illustrate the funding source percentages and the expenditure distribution of CIPs for the next fiscal year.





			FY 18 Fi		pital Improve (Utility Depart	ments Progra tments)	m Summary				
		Project		Funding		SCHE	DULE OF ESTIMA	TED EXPENDITUR	ES	1	Total
Fund	Dept/Div	No.	Project Name	Source	Prior Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 18-FY 22
-					-		-	-		-	
UTILITIES											
	8014-536-6401	N/A	Thermography Camera	UTO		14,011					14,011
	8014-536-6403	N/A	Vehicle Replacements #6903 & #6302	UTO		79,500					79,500
	8016-536-6403	N/A	Vehicle Replacements #6910	UTO		20,000					20,000
	8018-536-6401	N/A	Autoclave Equipment	UTO		11,567					11,567
	8018-536-6403	N/A	Vehicle Replacements #6121	UTO		22,000					22,000
	8020-533-6322	N/A	Meter Services - New Installations	UTO		225,000	225,000	225,000	225,000	225,000	1,125,000
	8020-533-6401	N/A	Valve Exercise Machine	UTO		64,375					64,375
	8020-533-6401	N/A	Mini Excavator	UTO		49,192					49,192
	8020-533-6403	N/A	Trailer	UTO		10,789					10,789
421	8020-533-6407	N/A	Tokay Software Upgrade	UTO		20,040					20,040
421	8024-533-6221	18WS20	NRWTP Treatment Unit Aerator Tray	UTO		40,000	150,000				190,000
421	8024-533-6323	18WS23	NRWTP Rear Yard Swale & Fenc Imprs	UTO		33,000					33,000
421	8030-535-6327	16WS07	Palm Vista Lift Station	UTO		1,380,000					1,380,000
421	8030-535-6327	18WS22	Lift Station 4 Generator Installation	UTO		205,000					205,000
421	8030-535-6403	N/A	Vehicle Replacement #6912 & #6395	UTO		94,000					94,000
421	8034-535-6221	17WS16	WRF Denitrification Project	UTO		1,300,000					1,300,000
421	8034-535-6221	18WS13	WWTP Odor Control at Headworks	UTO		48,000	588,000				636,000
				WA-CONN							
423	8021-533-6221	18WS04	SRWTP Expansion	/WA-SRF		510,000	9,200,000				9,710,000
				WA-CONN							
423	8021-533-6324	18WS03	San Filippo Water Main Extension	/WA-SRF		30,000	2,235,000				2,265,000
			I-95 Interchange/Pkwy Water Main &								
423	8021-533-6324	17WS02	Force Main	WA-CONN		17,325					17,325
				SW-CONN							
423	8031-535-6221	16WS05	South Regional Water Reclamation Fac	/SW-SRF		150,000	18,850,000				19,000,000
422	0021 525 6225	17/4/502	I-95 Interchange/Pkwy Water Main &	CW CONN		21 175					21 175
423	8031-535-6325 8022-533-6221	17W302 18WS06	Force Main NRWTP High Service Pumps Repl	SW-CONN UTRR		21,175 105,000	620,000				21,175 725,000
	8022-533-6221		Repl of Large Diameter Steel Pipe	UTRR		312,000	020,000				312,000
727	0022 333 0221	1244302	NRWTP Sulfuric Acid Tank & Feed	OTHIC		312,000					312,000
424	8022-533-6221	18\\\\\$05	System Repl	UTRR		190,000					190,000
	8022-533-6221			UTRR		165,000					165,000
	8022-533-6221		NRWTP Chlorine Analyzers Repl	UTRR		130,000					130,000
	0022 555 0221	1011017	NRWTP Generator & Air Compressor	011		150,000					150,000
424	8022-533-6221	18WS19	Repl	UTRR		65,000	438,000				503,000
	8022-533-6318		Surficial Well Field Flow Meter Repl	UTRR		50,000	,				50,000
	8022-533-6322	N/A	Meter Services - Meter Replacements	UTRR		150,000	150,000	150,000	150,000	150,000	750,000
	8022-533-6407		NRWTP SCADA Improvements	UTRR		81,000	,-==	,-==	,	,	81,000
	8032-535-6221		Reuse High Service Pumps Repl	UTRR		566,000					566,000
	8032-535-6221	18WS09	WWTP Digester 6 Rehabilitation	UTRR		415,000					415,000
424	8032-535-6221		WWTP Bar Screen Replacement	UTRR		40,000	368,000				408,000
424	8032-535-6221	18WS15	RAS/WAS Pump Rehabilitation	UTRR		65,000	470,000				535,000
	8032-535-6221		WWTP Grit Pump & MCC Rehab	UTRR		65,000	320,000				385,000
121	0000 505 6004	15/4/005	Cocondany Bondo Volvo I	LITOD		E0 000					F0 000
	8032-535-6221		Secondary Ponds Valve Improvements	UTRR		59,000	100.000	100.000	100 000	100.000	59,000
424	8032-535-6325		ARV Upgrade Program	UTRR		100,000	100,000	100,000	100,000	100,000	500,000
	8032-535-6325	14WS07	Cable Lane Sewer Replacement DIW Reservoir Rehabilitation	UTRR		200,000					200,000
	8032-535-6326 8032-535-6327	17WS15	Lift Station Valve Pit Elimination Prog	UTRR		125,000 117,500	172275	120 5/5	126 024	1/12 027	125,000 649,271
	8032-535-6327		Lift Station Electrical Panel Repl Prog	UTRR		117,500 136,500	123375	129,545	136,024	142,827	754,253
	8032-535-6327	18WS10	Lift Stations RTU Replacment Prog	UTRR UTRR		136,500 169,612	143,325 169,612	150,492 169,612	158,017 169,612	165,919 169,612	754,253 848,060
	8021-533-6324	18WS07	Palm Bay Hospital Water Main Loop	MLE		168,000	103,012	103,012	103,012	103,012	168,000
	8021-533-6324	16WS06	Palm Vista Water Main & Force Main	WA-SRF		1,831,500					1,831,500
433	0021-333-0324	1044200	I-95 Interchange/Pkwy Water Main &	NA-SUL,		1,031,300					1,031,300
/133	8021-533-6324	17\\\\\\\\	Force Main	WA-SRF		1,136,250					1,136,250
	8031-535-6325			SW-SRF		2,238,500					2,238,500
+33	OUDI DD-0343	1044200	I-95 Interchange/Pkwy Water Main &	244-2UL		£,£30,300					4,430,300
122	8031-535-6325	17\\\\\\\\	Force Main	SW-SRF		1,388,750					1,388,750

	1		1		(Utility Depai		EDULE OF ESTIMA	TED EVDENDITUD	EC		Total
Fund	Dept/Div	Project No.	Project Name	Funding Source	Prior Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 18-FY 22
	2 Additional (info		,		11101 10414			20			
	,		,,								
			Utility Relocate - Babcock Street (FDOT								
Utilities		15WS03	Project)				2,300,000.00				2,300,00
Utilities		14WS02	Elevated Walkways				284,000.00				284,00
Utilities		17WS08	I-95 Interchange Regional Lift Station				1,370,000.00				1,370,00
Utilities		16WS04	North Regional RO Plant Rehabilitation				355,000.00	4,610,000.00			4,965,00
Utilities		17WS05	WWTP Thickener Installation				787,000.00				787,00
Utilities		17WS06	Replacement of 1.5 MG Storage Tank				1,025,000.00				1,025,00
Utilities		16WS01	Treatment Unit Rehab				1,330,000.00				1,330,00
Utilities		TBD	WWTP & WRF Lights				225,000.00				225,00
Utilities		TBD	Lift Station Generator Replacements				275,000.00	275,000.00	275,000.00		825,00
Utilities		TBD	Lime Drying Unit - NRWTP				235,000.00	3,145,000.00			3,380,00
Utilities		TBD	NRWTP - Lime Silo Rehabilitation				230,000.00				230,00
Utilities		TBD	NRWTP - CO2 Storage Tank & Feed Repl				30,000.00	120,000.00			150,00
Utilities		TBD	Land Needs for Lift Stations				100,000.00	100,000.00	100,000.00		300,00
Utilities		TBD	WWTP 2nd Clarifier				1,490,000.00				1,490,00
Utilities		TBD	Fluoride System Replacement - NRWTP				112,000.00				112,00
Utilities		TBD	Reuse Pond at Majors Golf Course				200,000.00	6,150,000.00			6,350,00
Utilities		TBD	Babcock and Parkway WM/FM				325,000.00	3,075,000.00			3,400,00
			Lift Stations 1 and 2 Force Main								
Utilities		TBD	Replacement				460,000.00				460,00
Utilities		TBD	SR WRF Admin Building					200,000.00	500,000.00		700,00
Utilities		TBD	DIW Acidization					135,000.00			135,00
Utilities		TBD	WWTP/WRF Master Valve					208,000.00			208,00
Utilities		TBD	WRF - 3rd Disc Filter Installation					190,000.00			190,00
Utilities		TBD	WWTP Clarifier Mechanism Rehab					90,000.00	660,000.00		750,00
			WRF - UV Covers - Chlorine Contact								
Utilities		TBD	Chamber					70,000.00			70,00
			UTILITIES TOTAL		_	14,414,586	45,283,312	19,292,649	2,473,653	953,358	82,417,55

			FY 18 Five-Yo		unity Invest Utility Depar	ment Program (tments)	Summary				
				Funding		so	CHEDULE OF EST	IMATED EXPEND	DITURES		Total
Fund	Dept/Div	Project No.	Project Name		Prior Years	FY 18	FY 19	FY 20	FY 21	FY 22	FY 18-FY 22
Commun	nications & Inform	ation Technol	ogy								
001	2310-519-6407	N/A	Servers for Public Administration & Safe	GENF		85,061	0	0	13,908	16,690	115,65
001	2310-519-6413	N/A	VOIP Network & Telephone Upgrade	GENF		640,000	124,000	134,000	144,000	154,000	1,196,000
Growth I	Management										
112	3353-554-6201	18FD01	Portion of Fire Station 5 Rebuild	CDBG		457,497					457,49
Parks & F	Recreation										
154	4050-572-6301	18PR01	MUSCO Control Link/Ballfield Lights	IMPR-PR		145,000					145,000
154	4050-572-6401	18PR03	Ballfield Base Enhancement	IMPR-PR		15,000					15,000
Police											
521	7070-519-6403	N/A	(6) Police Vehicles	GENF		163,444					163,444
Public W	orks .										
				GRANT/							
301	7090-539-6301	13PW02	Bus Shelter Installation	GENF		50,000					50,000
461	7083-538-6309	18SU01	Various Stormwater/Culvert Locations	SWU		4,100,000					4,100,000
		TOTAL NO	N-UTILITY DEPARTMENTS ONLY EXCLU	DING BCRA		5,656,002	124,000	134,000	157,908	170,690	6,242,600
Bavfront	Community Rede	velopment A	zency (BCRA)								
181	9110-559-6101	18CR02	Land Acquisition	BCRA-TIF		250,549					250,549
303	3090-541-6101	16CR02	BCRA Redevelopment Plan Projects	BOND		-50,000					-50,000
303	3090-559-6305	18CR01	Palm Bay Entrance Channel Dredging	BOND		50,000					50,000
	TOTAL BAYFR	ONT COMMUN	IITY REDEVELOPMENT AGENCY (BCRA)		_	250,549	0	0	0	0	250,54
•	COMBINED TOTAL	L UTILITY & N	ON-UTILITY & BCRA		_	20,321,137	45,407,312	19,426,649	2,631,561	1,124,048	88,910,70

Project Listing

Anticipated Construction Year

Page Project
Bayfront Community Redevelopment Agency Projects

Palm Bay Entrace Channel Dredging

Increase boating access to the Bay w/8' dredging

Description

2019-20

	Impact of	on Operating Budget	
			Annual
			Maintenance
Page	Project	Description	Costs
Bayfront Comr	munity Redevelopment Agency Projects		
n.	1 D. F. (Cl. 1 D. 1 '	I	0

Palm Bay Entrace Channel Dredging

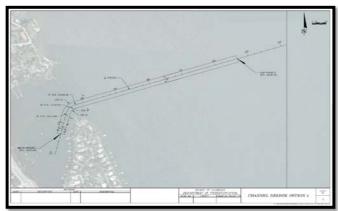
Increase boating access to the Bay $w/\ 8'\ dredging$

0

\$ -

Palm Bay Entrance Channel Dredging

Turkey Creek/Palm Bay Entrance Channel





Project Information

Project #: 18CR01

Account #: 303-3090-559-6305

Design Year: 2017
Construction Year: 2019-20

Project Status: Design/Permit Phase

Project Engineer: Infrastructure Engineering, Fank Hickson

Funding Source: BCRA & FIND Grant

Contractor: TBD

Project Description

The project consists of dredging operations from the mouth of Palm Bay to the Intercostal Channel of the Indian River in Palm Bay, Florida. The site is located at the terminus of Turkey Creek in Palm Bay, South of Castaway Point and north of Palm Bay Point. The proposed dredging area extends eastward to the Intercostal Waterway, Some 3,300 feet. We understand the dredging is required to allow for safe boat traffic through this area. It is anticipated that dredging operations will occur to a depth of 2 to 3 feet below the existing mudline in areas where the depth to water is 8 feet or less within the area of the proposed channel. In water depths of 8 feet or more dredging is not required due to sufficient water depth.

Project Costs	2017/Prior	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>TOTAL</u>
Survey, Engineering and Design	\$25,000	\$50,000	\$0	\$0	\$0	\$0	\$75,000
Construction	\$0	\$0	\$500,000	\$0	\$0	\$0	\$500,000
Maintenance (every 10 years)	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contingency	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL PROJECT COST:	\$25,000	\$50,000	\$500,000	\$0	\$0	\$0	\$575,000

Impact on Operating Budget

Minimal impact to operating budget based on an expected cost-share grant for funding up to 75% of dredging costs. Any impact will be determined based on the final grant award and analysis of the estimated economic impact to the area by mooring larger boats having greater disposable income benefiting Palm Bay tourism and local restaurants.

Project Listing

Anticipated Construction Year

 Project
 Description
 Year

 Fire Projects
 5
 Fire Station 5 Rebuild
 2018

Impact on Operating Budget

Project Description Annual Maintenance
Costs

Fire Projects
Fire Station 5 Rebuild Fire Station 5 Rebuild minimal

Fire Station 5 Rebuild

37 San Filippo Dr



Project Information

Project #: 18FD01

Account #: 153-6050-522-6201 TBD; 112-3353-554-6201

Design Year:2018Construction Year:2018-2019Project Status:In processProject Engineer:TBD

Funding Source: Multiple (General, CDBG, etc.)

Contractor: TBD

Project Description

Palm Bay Fire Station 5 is in emergency need of replacement. This station was originally established with a residential double-wide manufactured home to serve as a temporary solution for the addition of a needed fire station. After approximately 19 years (1998), this structure has quantifiably outlived functionality, and multiple issues have arisen regarding health and safety of the response personnel assigned and the apparatus parked there—requiring immediate relocation of the response unit and personnel. The cost for repairs and modification of the existing structure to maintain functionality exceeds a responsible cost benefit point and fails to meet modern codes and safety standards. Hurricanes cause for the total evacuation of personnel and vital communications and computer equipment periodically. Impact upon Strategic Plan: City's Relationship with Citizens. Mutiple Funding Sources to cover cost of rebuild and final costs to be determined at this time. Known costs so far is what was funded for portion of project by Community Development Block Grant Fund (CDBG) is \$457,497.

First estimate was \$760,000 to complete project but funding or total of completed project is unknown at this time.

Project Costs	2017/Prior	<u>2018</u>	2019	2020	2021	2022	<u>TOTAL</u>
Survey, Engineering and Design	\$0	\$110,000	\$0	\$0	\$0	\$0	\$110,000
Construction	\$0	\$347,497	\$0	\$0	\$0	\$0	\$347,497
Maintenance	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contingency	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL PROJECT COST:	\$0	\$457,497	TBD	\$0	\$0	\$0	TBD

Impact on Operating Budget

Minimal impact to operating budget based on the addition of CDBG funds and other sources, funding will be determined based on the analysis of all financials.

Project Listing

			Anticipateu
			Construction
Page	Project	Description	Year
Public Wor	rks Projects		
·	Various Locations Stormwater Culvert Repl	Stormwater Culvert Replacements	2018
	SCAT Bus Shelter and Benches	Installation of bus shelters throughout City	2014-2021

Im	pact on Operating Budget		Summary
		by Project	
			Annual
			Maintenance
Page	Project	Description	Costs
Public Wo	orks Projects		
	Various Locations Stormwater Culvert Repl	Stormwater Culvert Replacements	-
	SCAT Bus Shelter and Benches	Installation of bus shelters throughout City	3.000

3,000

FY18 Stormwater Program

Various culverts throughout the City of Palm Bay



Project Information

 Project #:
 18SU01

 Design year:
 FY17 to FY18

 Construction Year:
 FY17 to FY18

 Project Status:
 Various

 Project Engineer:
 Various Engineers

Funding Source: SWU
Contractor: Various

Project Description

Various Stormwater projects that require reconstruction, rehabilitiation, and other improvements to enhance and maintain stormwater drainage throughout the City.

Project Costs	2017/Prior	<u>2018</u>	<u>2019</u>	2020	<u>2021</u>	2022	<u>TOTAL</u>
Survey, Engineering and Design	\$0	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000
Construction	\$0	\$3,935,000	\$3,935,000	\$3,935,000	\$3,935,000	\$3,935,000	\$19,675,000
Maintenance	\$0	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000
Contingency	\$0	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$75,000
TOTAL PROJECT COST:	\$0	\$4,100,000	\$4,100,000	\$4,100,000	\$4,100,000	\$4,100,000	\$20,500,000

Impact on Operating Budget

Survey and Design to be conducted with in-house staff and consultants as needed. Construction will most likely be contracted out but may be constructed in-house. With planned improvements, operational maintenance cost should be reduced overtime.

SCAT Bus Shelters and Benches

Various locations throughout the City of Palm Bay



Project Information

 Project #:
 13PW02

 Design year:
 FY13 to FY16

 Construction Year:
 FY17 to FY21

 Project Status:
 Construction

 Project Engineer:
 Hector I Franco

 Funding Source:
 SCAT

 Contractor:
 Various

Project Description

Per SCAT contract Installation of 5 bus shelters and benches at various bus stop locations throughout the city determined by SCAT.

Project Costs	2017/Prior	<u>2018</u>	<u>2019</u>	2020	<u>2021</u>	2022	TOTAL
Survey, Engineering and Design	\$7,317	\$2,817	\$0	\$0	\$0	\$0	\$10,134
Construction	\$83,229	\$25,416	\$0	\$0	\$0	\$0	\$108,645
Maintenance	\$38,750	\$40,745	\$0	\$0	\$0	\$0	\$79,495
Contingency	\$14,348	\$4,154	\$0	\$0	\$0	\$0	\$18,502
TOTAL PROJECT COST:	\$143,644	\$73,132	\$0	\$0	\$0	\$0	\$216,776

Impact on Operating Budget

The City is required, as part of the interlocal agreement with Space Coast Area Transit (SCAT), to maintain the benches and shelters. Maintenance includes trash removal, cleaning and monitoring the site conditions. If bench or shelter parts are damaged, the City shall get replacement parts from SCAT and makes the needed repairs. The maintenance cost are calculated as follows: currently there are 21 shelters and 32 benches in place, with future projection of 3 shelters and 4 benches. Each location will be checked bi-weekly for trash pick-up and general maintenance at 1 hour for each location (includes travel time). Total maintenance costs per year, per shelter location = 1 hour bi-weekly or 26 hours yearly at \$20.26/hr. (Labor includes overhead), \$5.49/hr. (Equipment) and \$40.00 (Materials) = \$709.54 annually. Total maintenance costs per year, per bench location = 1 hour bi-weekly or 26 hours yearly at \$13.33/hr. (Labor), \$5.49/hr. (Equipment) and \$20.00 (Materials) = \$689.54 yearly. When all the benches and shelters are completed the projected annual cost for 34 locations (1 location is not maintained by the City) will be \$23,724. Future annual maintenance is estimated at a 6% increase to account for increased equipment, fuel and material costs as well a potential future employee raises.

Project Listing

Project	Description	Construction Year
piects	2000/19/10/1	
Reuse High Service Pumps	Replacement of Vertical Turbine Pumps at the North	2018
Replacement	Regional Water Reclamation Facility	
Palm Vista Lift Station	Construction of Regional Lift Station to Service New	2018
	Development at West End of the City	
Water Reclamation Facility	Demolish Steel Tank and Replace with a New Steel	2018
Denitrification Project	Tank Along with Polymer System at the North	
North Regional Water Treatment Plant	Regional Water Reclamation Facility Replacement of Second Lime Slaker at the North	2018
Slaker Replacement	Regional Water Treatment Plant	2016
Deep Injection Well Reservoir	Rehabilitation of the Lining of the Pond Reservoir at the	2018
Rehabilitation	North Regional Wastewater Treatment Plant Deep	2010
	Injection Well	
Palm Vista Water Main & Force Main	Construction of Force Main and Water Main Along	2018
	Heritage Parkway, North of Malabar Road	
San Filippo Water Main Extension	Loop Water Mainline from 16" Main at DeGroodt to	2019
	Proposed Water Main Line on Cogan	
South Regional Water Reclamation	Construction of 1.0 MGD Water Reclamation Facility at	2019
Facility	the South Regional Utility Site	
I-95 Interchange/Parkway Water Main	Construction of Water Main and Force Main Along the	2018
& Force Main	Parkway, East of Babcock Street	
South Regional Water Treatment Plant	Expansion of the South Regional Water Treatment	2019
Expansion	Plant From 4 MGD to 6 MGD	
North Regional Water Treatment Plant	Removal and Replacement of Sulfuric Acid Tank and	2018
Sulfuric Acid Tank & Feed System	Feed System at the North Regional Water	
Replacement	Treatment Plant	2014 2019
Replacement of Large Diameter	Final Phase for Replacement of Above-Ground Large	2014-2018
Steel Pipe	Diameter Water Pipes at the North Regional Water Treatment Plant	
North Regional Water Treatment Plant	Replacement of High Service Pumps at the North	2019
High Service Pumps Replacement	Regional Water Treatment Plant	2017
Palm Bay Hospital Water Main Loop	Installation of a Loop Water Main from North of the	2018
Tann Bay Hospitai Water Main Loop	Hospital Site Along the East Side of the Hospital to	2010
	Provide Secondary Feed	
Air Release Valves Upgrade Program	Replacement of Air Release Valves on the Force Main	2018-2022
10	Network Throughout the Collection System	
Wastewater Treatment Plant	Complete Rehabilitation of Digester 6 at the North	2018
Digester 6 Rehabilitation	Regional Wastewater Treatment Plant	
Lift Stations Radio Transmitter Unit	Annual Replacement Program for Radio Transmitter	2018-2022
Replacement Program	Units on the City's Lift Stations	
Lift Stations Electrical Panel	Replacement of Electrical Panels for Various Lift	2018-2022
Replacement Program	Stations	
North Regional Water Treatment Plant	Update SCADA Software, Hardware and Programmable	2018
Supervisory Control & Data	Logic Control at the North Regional Water	
Acquisition Improvements	Treatment Plant	2010
Cable Lane Sewer Replacement	Replacement of 800' of 8" Vitrified Clay Pipe in Rear	2018
	Lot Line Behind Homes on Cable Lane NE	2010
Wastewater Treatment Plant Odor	Addition of Odor Control at the Headworks at the	2019
Control at Headworks	North Regional Wastewater Treatment Plant	2010
Wastewater Treatment Plant Bar	Replacement of the Bar Screen at the North Regional	2019
Screen Replacement Return Activated Sludge/Waste	Wastewater Treatment Plant Rehabilitation of Pumps and Roof Structure at the	2019
Activated Sludge Pump	Return Activated Sludge/Waste Activated Sludge	2017
Rehabilitation	Pump Pad at North Reginal Wastewater Treatment	
	Plant	
Wastewater Treatment Plant Grip	Replacement of Grit Pump and Shelter for Mechanical	2019
Pump & Motor Control Center	Control Center at the North Regional Wastewater	•
Rehabilitation	Treatment Plant	
North Regional Water Treatment Plant	Replacement of All Chlorine Analyzers at the North	2018
Chlorine Analyzers Replacement	Regional Water Treatment Plant	
Surficial Well Field Flow Meters	Replacement of Meter Flow Heads for All Surficial	2018
Replacement	Wells (35)	
North Regional Water Treatment Plant	Replacement of Generator and Air Compressor at the	2019
Generator & Air Compressor	North Regional Water Treatment Plant	
Replacement		
North Regional Water Treatment Plant	Installation of Aerator Tray on Treatment Unit #2 at	2019
Treatment Unit Aerator Tray	North Regional Water Treatment Plant	
Lift Station Valve Pit Elimination	Program to Eliminate Lift Station Valve Pits and Replace	2018-2022
Program	with Epoxy-lined or Stainless Steel Pipe and Fittings	
Lift Station 4 Generator Installation	Installation of Stand-by Generator at Lift Station 4	2018
North Regional Water Treatment Plant	Installation of Chain Link Fencing and Swale at the	2018
Rear Yard Swale & Fence	North Regional Water Treatment Plant	
Improvements	P. I. C. C. I. P. C. C. C.	2010
Secondary Ponds Valve Improvements	Replacement of Valve and Pipe that Connect Secondary	2018
secondary ronds varve improvements	Pond No. 1 to No. 2 at North Regional Wastewater	

Annual aintenance Costs		on Operating Budget	Project
000.0		200011511	Projects
	\$	Replacement of Vertical Turbine Pumps at the North Regional Water Reclamation Facility	Reuse High Service Pumps Replacement
10,000	\$	Construction of Regional Lift Station to Service New Development at West End of the City	Palm Vista Lift Station
	\$	Demolish Steel Tank and Replace with a New Steel Tank Along with Polymer System at the North	Water Reclamation Facility Denitrification Project
	\$	Regional Water Reclamation Facility Replacement of Second Lime Slaker at the North Regional Water Treatment Plant	North Regional Water Treatment Plant
	\$	Rehabilitation of the Lining of the Pond Reservoir at the North Regional Wastewater Treatment Plant Deep Injection Well	Slaker Replacement Deep Injection Well Reservoir Rehabilitation
	\$	Construction of Force Main and Water Main Along Heritage Parkway, North of Malabar Road	Palm Vista Water Main & Force Main
	\$	Loop Water Mainline from 16" Main at DeGroodt to Proposed Water Main Line on Cogan	San Filippo Water Main Extension
728,050	\$	Construction of 1.0 MGD Water Reclamation Facility at the South Regional Utility Site	South Regional Water Reclamation Facility
00.000	\$	Construction of Water Main and Force Main Along the Parkway, East of Babcock Street	I-95 Interchange/Parkway Water Main & Force Main
20,000	\$	Expansion of the South Regional Water Treatment Plant From 4 MGD to 6 MGD Paragraph and Replacement of Sulfaria Acid Tenk and	South Regional Water Treatment Plant Expansion North Regional Water Treatment Plant
	\$	Removal and Replacement of Sulfuric Acid Tank and Feed System at the North Regional Water Treatment Plant	North Regional Water Treatment Plant Sulfuric Acid Tank & Feed System Replacement
	\$	Final Phase for Replacement of Above-Ground Large Diameter Water Pipes at the North Regional Water Treatment Plant	Replacement of Large Diameter Steel Pipe
	\$	Replacement of High Service Pumps at the North Regional Water Treatment Plant	North Regional Water Treatment Plant High Service Pumps Replacement
	\$	Installation of a Loop Water Main from North of the Hospital Site Along the East Side of the Hospital to Provide Secondary Feed	Palm Bay Hospital Water Main Loop
	\$	Replacement of Air Release Valves on the Force Main Network Throughout the Collection System	Air Release Valves Upgrade Program
	\$ \$	Complete Rehabilitation of Digester 6 at the North Regional Wastewater Treatment Plant	Wastewater Treatment Plant Digester 6 Rehabilitation
	\$	Annual Replacement Program for Radio Transmitter Units on the City's Lift Stations Replacement of Electrical Panels for Various Lift	Lift Stations Radio Transmitter Unit Replacement Program Lift Stations Electrical Panel
	\$	Stations Update SCADA Software, Hardware and Programmable	Replacement Program North Regional Water Treatment Plant
	\$	Logic Control at the North Regional Water Treatment Plant	Supervisory Control & Data Acquisition Improvements
	\$	Replacement of 800' of 8" Vitrified Clay Pipe in Rear Lot Line Behind Homes on Cable Lane NE Addition of Odor Control at the Headworks at the	Cable Lane Sewer Replacement Wastewater Treatment Plant Odor
	\$	North Regional Wastewater Treatment Plant Replacement of the Bar Screen at the North Regional	Control at Headworks Wastewater Treatment Plant Bar
		Wastewater Treatment Plant	Screen Replacement
	\$	Rehabilitation of Pumps and Roof Structure at the Return Activated Sludge/Waste Activated Sludge Pump Pad at North Reginal Wastewater Treatment Plant	Return Activated Sludge/Waste Activated Sludge Pump Rehabilitation
	\$	Replacement of Grit Pump and Shelter for Mechanical Control Center at the North Regional Wastewater Treatment Plant	Wastewater Treatment Plant Grip Pump & Motor Control Center Rehabilitation
	\$	Replacement of All Chlorine Analyzers at the North Regional Water Treatment Plant	North Regional Water Treatment Plant Chlorine Analyzers Replacement
	\$	Replacement of Meter Flow Heads for All Surficial Wells (35)	Surficial Well Field Flow Meters Replacement
	\$	Replacement of Generator and Air Compressor at the North Regional Water Treatment Plant	North Regional Water Treatment Plant Generator & Air Compressor Replacement
	\$	Installation of Aerator Tray on Treatment Unit #2 at North Regional Water Treatment Plant	North Regional Water Treatment Plant Treatment Unit Aerator Tray
	\$	Program to Eliminate Lift Station Valve Pits and Replace with Epoxy-lined or Stainless Steel Pipe and Fittings	Lift Station Valve Pit Elimination Program Lift Station 4 Congretor Installation
	\$	Installation of Stand-by Generator at Lift Station 4 Installation of Chain Link Fencing and Swale at the North Regional Water Treatment Plant	Lift Station 4 Generator Installation North Regional Water Treatment Plant Rear Yard Swale & Fence Improvements
	\$	Replacement of Valve and Pipe that Connect Secondary Pond No. 1 to No. 2 at North Regional Wastewater	Secondary Ponds Valve Improvements

Reuse High Service Pumps Replacement

North Regional Water Reclamation Facility



Project Information

Project #: 18WS01

Account #: 424-8032-535-6221

Design Year:FY 18Construction Year:FY 18Project Status:Not Started

Project Engineer: Utilities Engineer/Wade Trim

Funding Source: Utilities Renewal & Replacement (UTRR)

Contractor: TBD

Project Description

This project is the replacement of the vertical turbine pumps that distribute reuse to our customers. The existing pumps are over twenty-five (25) years old (beyond their useful life) and one pump is inoperable.

Project Costs	2017/Prior	<u>2018</u>	<u>2019</u>	2020	<u>2021</u>	2022	<u>TOTAL</u>
Survey, Engineering and Design		\$50,000					\$50,000
Permitting		\$1,000					\$1,000
Equipment/Materials		\$250,000					\$250,000
Construction/Installation		\$250,000					\$250,000
Construction Services		\$15,000					\$15,000
TOTAL PROJECT COST:	\$0	\$566,000	\$0	\$0	\$0	\$0	\$566,000

Impact on Operating Budget

Palm Vista Lift Station

Malabar Road in New Development Where FPL Line is Located



Project Information

Project #: 16WS07

Account #: 421-8030-535-6327

Design Year: FY 16-17 **Construction Year:** FY 18

Project Status: Design is Underway

Project Engineer: Utilities Engineer/Wade Trim
Funding Source: Utilities Operating (UTO)

Contractor: TBD

Project Description

The purpose of this project is to construct a regional lift station to service the new development on the west end of the City, west of the Department of Public Works facility. This regional lift station will reduce force main system pressures throughout the City, and require new developments to have smaller pumps for their lift stations due to the reduced pressures.

Project Costs	<u>2017/Prior</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>TOTAL</u>
Survey, Engineering and Design	\$114,980						\$114,980
Construction/Installation		\$1,300,000					\$1,300,000
Construction Services		\$80,000					\$80,000
TOTAL PROJECT COST:	\$114,980	\$1,380,000	\$0	\$0	\$0	\$0	\$1,494,980

Impact on Operating Budget

Upon construction of the lift station, anticipate an annual operational impact of approximately \$10,000 for electricity, chemicals, maintenance, etc.

Water Reclamation Facility Denitrification Project

North Regional Water Reclamation Facility



Project Information

Project #: 17WS16

Account #: 421-8034-535-6221

Design Year:FY 17Construction Year:FY 18Project Status:Not Started

Project Engineer: Utilities Engineer/Wade Trim
Funding Source: Indian River Lagoon Tax (IRLT)

Contractor: TBD

Project Description

This project was identified in the development of the Brevard County Indian River Lagoon Improvements. The scope of work is to demo an existing onsite steel tank and replace it with an appropriately sized new steel tank along with a polymer system to remove nitrogen and phosphorus prior to distributing it in our reuse system. The purpose of reducing nitrogen and phosphorus for reuse is that these components cause algae blooms in the Lagoon reducing the amount of dissolved oxygen. By reducing nitrogen and phosphorus in the reuse, this will limit the amount that makes its way into our waterways by means of runoff.

Project Costs	2017/Prior	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	2022	<u>TOTAL</u>
Survey, Engineering and Design Construction/Installation	\$196,000	\$1,300,000					\$196,000 \$1,300,000
TOTAL PROJECT COST:	\$196,000	\$1,300,000	\$0	\$0	\$0	\$0	\$1,496,000

Impact on Operating Budget

North Regional Water Treatment Plant Slaker Replacement

North Regional Water Treatment Plant



Project Information

Project #: 18WS02

Account #: 424-8022-533-6221

Design Year: FY 18
Construction Year: FY 18
Project Status: Not Started

Project Engineer: Utilities Engineer/Wade Trim

Funding Source: Utilities Renewal & Replacement (UTRR)

Contractor: TBD

Project Description

This project is for the replacement of the second of two lime slakers at the North Regional Water Treatment Plant (NRWTP). The first lime slaker is being replaced as an emergency purchase in FY 17 as a result of both being beyond their service life, one being inoperable and the second in substandard level. Without these slakers in operation, the NRTWTP cannot provide potable water. Installation will be done inhouse.

Project Costs	2017/Prior	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	2022	<u>TOTAL</u>
Survey, Engineering and Design Equipment/Materials		\$5,000 \$160,000					\$5,000 \$160,000
TOTAL PROJECT COST:	\$0	\$165,000	\$0	\$0	\$0	\$0	\$165,000

Impact on Operating Budget

Deep Injection Well Reservoir Rehabilitation

North Regional Wastewater Treatment Plant Deep Injection Well



Project Information

Project #: 17WS15

Account #: 424-8032-535-6326

Design Year: FY 17
Construction Year: FY 18
Project Status: Not Started

Project Engineer: Utilities Engineer/Wade Trim

Funding Source: Utilities Renewal & Replacement (UTRR)

Contractor: TBD

Project Description

Currently, the deep injection well (DIW) reservoir has begun to develop cracks that need to be addressed. The effort is to develop a bid document to rehabilitate the lining of the pond reservoir. The reservoir of the pond contains treated wastewater which goes down the DIW.

Project Costs	2017/Prior	<u>2018</u>	<u>2019</u>	2020	<u>2021</u>	2022	TOTAL
Survey, Engineering and Design Construction/Installation	\$30,000	\$125,000					\$30,000 \$125,000
TOTAL PROJECT COST:	\$30,000	\$125,000	\$0	\$0	\$0	\$0	\$155,000

Impact on Operating Budget

Palm Vista Water Main & Force Main

Northwest Palm Bay Along Heritage Parkway



Project Information

Project #: 16WS06

Account #: 421-8020-533-6324; 421-8030-535-6325;

433-8021-533-6324; 433-8031-535-6325

Design Year: FY 16-FY17 **Construction Year:** FY 18

Project Status: Design Underway

Project Engineer: Utilities Engineer/Wade Trim

Funding Source: Utilities Operating (UTO), Water State Revolving Fund (WA-SRF) and

Sewer State Revolving Fund (SW-SRF)

Contractor: TBD

Project Description

This project is for a mainline force main and water main along the Heritage Parkway, north of Malabar Road. These lines will serve as the utility backbone to provide water and sewer services for all future development along this corridor. Currently, there are no utility service lines in this area, and without these lines future developments will not be able to connect to the City's utilities system.

Project Costs	2017/Prior	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	2022	<u>TOTAL</u>
Survey, Engineering and Design	\$135,635						\$135,635
Construction/Installation		\$4,000,000					\$4,000,000
Construction Services		\$70,000					\$70,000
TOTAL PROJECT COST:	\$135,635	\$4,070,000	\$0	\$0	\$0	\$0	\$4,205,635

Impact on Operating Budget

Upon completion of the project, anticipate an annual operational impact of approximately \$225,035 for debt service.

San Filippo Water Main Extension

San Filippo from DeGroodt to Cogan



Project Information

Project #: 18WS03

Account #: 423-8021-533-6324 and 433-8021-533-6324

Design Year:FY 18Construction Year:FY 19Project Status:Not Started

Project Engineer: Utilities Engineer/Wade Trim

Funding Source: Water Connection Fees (WA-CONN) and Water State

Revolving Fund (WA-SRF)

Contractor: TBD

Project Description

This project will loop a mainline water, connecting it from the 16 inch main at DeGroodt to the proposed water mainline on Cogan. The bid documents for this project that were created in 2008 will be revised for advertisement of construction bid.

Project Costs	<u>2017/Prior</u>	<u>2018</u>	<u>2019</u>	2020	<u>2021</u>	2022	<u>TOTAL</u>
Survey, Engineering and Design		\$25,000					\$25,000
Permitting		\$5,000					\$5,000
Construction/Installation			\$2,200,000				\$2,200,000
Construction Services			\$35,000				\$35,000
TOTAL PROJECT COST:	\$0	\$30,000	\$2,235,000	\$0	\$0	\$0	\$2,265,000

Impact on Operating Budget

Upon completion of the project, anticipate an annual operational impact of approximately \$123,576 for debt service.

South Regional Water Reclamation Facility

South Regional Campus



Project Information

Project #: 16WS05

Account #: 423-8031-535-6221 and 433-8031-535-6221

Design Year: FY 16-FY 18 **Construction Year:** FY 19

Project Status: Design Underway

Project Engineer: Utilities Engineer/Wade Trim

Funding Source: Sewer Connection Fees (SW-CONN) and Sewer State Revolving Fund (SW-SRF)

Contractor: TBD

Project Description

Construction of a 1.0 million gallon per day (MGD) water reclamation facility (WRF) expandable to 2.0 MGD at the South Regional Utility site. Included is the force main to the treatment facility. This wastewater facility will serve all of southeast Palm Bay, including the new developments anticipated. Our existing collection and treatment system cannot accommodate the anticipated wastewater flows without this new facility.

Project Costs	<u>2017/Prior</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>TOTAL</u>
Survey, Engineering and Design	\$480,000	\$150,000					\$630,000
Construction/Installation			\$18,000,000				\$18,000,000
Construction Services			\$850,000				\$850,000
TOTAL PROJECT COST:	\$480,000	\$150,000	\$18,850,000	\$0	\$0	\$0	\$19,480,000

Impact on Operating Budget

Upon completion of the Water Reclamation Facility, force mains and reclaimed water distribution main, anticipate an annual operational impact of approximately \$728,050 to include personnel and operating/maintenance costs, and approximately \$1,042,236 for debt service.

I-95 Interchange/Parkway Water Main & Force Main

I-95 and Proposed Parkway



Project Information

Project #: 17WS02

Account #: 423-8021-533-6324; 423-8031-535-6325; 433-8021-533-6324;

433-8031-535-6325

Design Year:FY 17-FY 18Construction Year:FY 18-FY 19Project Status:Design Underway

Project Engineer: Utilities Engineer/Wade Trim

Funding Source: Water Connection Fees (WA-CONN), Sewer Connection Fees (SW-CONN),

Water State Revolving Fund (WA-SRF), Sewer State Revolving Fund (SW-SRF)

Contractor: TBD

Project Description

This project is for the design and construction of the mainline water main and force main along the parkway, east of Babcock Street. This line will serve as the utility backbone for all developments along this corridor. Definite sizing of the utilities will be determined based on developer agreements providing their ERC density.

Project Costs	<u>2017/Prior</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>TOTAL</u>
Survey, Engineering and Design	\$139,374	\$38,500					\$177,874
Construction/Installation		\$2,500,000					\$2,500,000
Construction Services		\$25,000					\$25,000
TOTAL PROJECT COST:	\$139,374	\$2,563,500	\$0	\$0	\$0	\$0	\$2,702,874

Impact on Operating Budget

 $Upon\ completion\ of\ the\ project,\ anticipate\ an\ annual\ operational\ impact\ of\ approximately\ \$141,739\ for\ debt\ service.$

South Regional Water Treatment Plant Expansion

South Regional Water Treatment Plant



Project Information

Project #: 18WS04

Account #: 423-8021-533-6221

Design Year: FY 18
Construction Year: FY 19
Project Status: Not Started

Project Engineer: Utilities Engineer/Wade Trim

Funding Source: Water Connection Fees (WA-CONN) and Water State

Revolving Fund (WA-SRF)

Contractor: TBD

Project Description

This project is to expand the South Regional Water Treatment Plant (SRWTP) treatment capacity from 4 million gallons per day(MGD) to 6 MGD. In doing so this will require new Reverse Osmosis (RO) skids, replacement of existing RO membranes, and installation of new RO well. In addition, with the plant being over ten (10) years old, this project will include various other projects to replace or modify existing process equipment. This project will meet the future water demands with the anticipated development.

Project Costs	2017/Prior	<u>2018</u>	<u>2019</u>	2020	2021	2022	<u>TOTAL</u>
Survey, Engineering and Design		\$500,000					\$500,000
Permitting		\$10,000					\$10,000
Construction/Installation			\$9,000,000				\$9,000,000
Construction Services			\$200,000				\$200,000
TOTAL PROJECT COST:	\$0	\$510,000	\$9,200,000	\$0	\$0	\$0	\$9,710,000

Impact on Operating Budget

Upon completion of the treatment capacity expansion, anticipate an annual operational impact of approximately \$20,000 for electricity, chemicals, maintenance, etc. and approximately \$508,678 for debt service.

North Regional Water Treatment Plant Sulfuric Acid Tank & Feed System Replacement

North Regional Water Treatment Plant



Project Information

Project #: 18WS05

Account #: 424-8022-533-6221

Design Year: FY 18
Construction Year: FY 18
Project Status: Not Started

Project Engineer: Utilities Engineer/Wade Trim

Funding Source: Utilities Renewal & Replacement (UTRR)

Contractor: TBD

Project Description

This project is for the removal and replacement of the existing sulfuric acid tank and feed system at the North Regional Water Treatment Plant (NRWTP). Currently, the existing system is leaking; when the tank begins to leak, as it is currently, it is a sign that replacement is necessary. This project is a key process for the NRWTP in providing potable water for our customers.

Project Costs	2017/Prior	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	2022	<u>TOTAL</u>
Survey, Engineering and Design		\$40,000					\$40,000
Construction/Installation		\$150,000					\$150,000
TOTAL PROJECT COST:	\$0	\$190,000	\$0	\$0	\$0	\$0	\$190,000

Impact on Operating Budget

Replacement of Large Diameter Steel Pipe

North Regional Water Treatment Plant



Project Information

Project #: 12WS02

 Account #:
 424-8022-533-6221

 Design Year:
 FY 13-FY 17

 Construction Year:
 FY 14-FY 18

 Project Status:
 Ongoing

Project Engineer: Utilities Engineer/Wade Trim

Funding Source: Utilities Renewal & Replacement (UTRR)

Contractor: Mechanical Industrial Services, Inc., Florida Design Drilling Corporation and L7 Construction Inc.

Project Description

This project is the final phase of a three phase initiative to replace all the above-ground large diameter water pipes at the NRWTP. Per the 2013 Lime Softening Plant Condition Assessment by Wade Trim, it was identified that the majority of the large diameter pipe had less than desirable structural integrity. This is in large part to the age of the pipes being approximately forty (40) years old. If this work is not completed, there is the risk for pipe break causing a stoppage in the production of potable water.

Project Costs	2017/Prior	<u>2018</u>	<u>2019</u>	2020	<u>2021</u>	2022	<u>TOTAL</u>
Current Engineering and Design	\$222.04 <i>E</i>						\$222.04E
Survey, Engineering and Design	\$223,915						\$223,915
Construction/Installation	\$1,297,781	\$300,000					\$1,597,781
Construction Services	\$25,000	\$12,000					\$37,000
Other	\$34,288						\$34,288
TOTAL PROJECT COST:	\$1,580,984	\$312,000	\$0	\$0	\$0	\$0	\$1,892,984

Impact on Operating Budget

North Regional Water Treatment Plant High Service Pumps Replacement

North Regional Water Treatment Plant



Project Information

Project #: 18WS06

Account #: 424-8022-533-6221

Design Year: FY 18
Construction Year: FY 19
Project Status: Not Started

Project Engineer: Utilities Engineer/Wade Trim

Funding Source: Utilities Renewal & Replacement (UTRR)

Contractor: TBD

Project Description

This project is the replacement of the high service pumps at the North Regional Water Treatment Plant (NRWTP). These pumps are how the water system pressures are controlled in the north part of the City. These pumps are over twenty-five (25) years old and beyond their useful life.

Project Costs	2017/Prior	<u>2018</u>	<u>2019</u>	2020	<u>2021</u>	2022	<u>TOTAL</u>
Survey, Engineering and Design		\$105,000					\$105,000
Construction/Installation			\$600,000				\$600,000
Construction Services			\$20,000				\$20,000
TOTAL PROJECT COST:	\$0	\$105,000	\$620,000	\$0	\$0	\$0	\$725,000

Impact on Operating Budget

Palm Bay Hospital Water Main Loop

Palm Bay Hospital



Project Information

Project #: 18WS07

Account #: 425-8021-533-6324

Design Year: FY 18
Construction Year: FY 18
Project Status: Not Started

Project Engineer: Utilities Engineer/Wade Trim
Funding Source: Main Line Extension (MLE)

Contractor: TBD

Project Description

Currently, Palm Bay Hospital is provided water service from the water main on Malabar Road. This project will add a loop water main from north of the site along the east side of the hospital to provide a secondary feed for the hospital. This will provide a greater reliability of water for the hospital.

Project Costs	<u>2017/Prior</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	2022	<u>TOTAL</u>
Survey, Engineering and Design		\$13,000					\$13,000
Construction/Installation		\$150,000					\$150,000
Construction Services		\$5,000					\$5,000
TOTAL PROJECT COST:	\$0	\$168,000	\$0	\$0	\$0	\$0	\$168,000

Impact on Operating Budget

Air Release Valves Upgrade Program

Throughout the Collection System



Project Information

Project #: 18WS08

Account #: 424-8032-535-6325

Design Year: N/A

Construction Year: FY 18-FY 22
Project Status: Not Started
Project Engineer: N/A

Funding Source: Utilities Renewal & Replacement (UTRR)

Contractor: TBD

Project Description

Several air release valves (ARVs) on the force main network throughout the City are undersized for current flow and amount of air entrapment within the pipeline. Installation of these units will allow release of air entrapment and lower system pressures throughout the City, allowing more efficient use of lift station pumps running less frequently due to lower head conditions. We also need to replace an air release valve to the incoming force main at Lift Station 9 to reduce hydrogen sulfide gas buildup within the lift station. To be replaced in FY18: (1) Lift Station 9 force main; (2) SARV-02-N016-0511 Mobil gas station west of I-95 on Malabar Road (20"); (3) SARV-02-N021-0512 Babcock Street and C-1 canal crossing (16"); (4) SARV-02-10-000A-01 City Hall canal crossing (16"); (5) SARV-02-N015-0017 Malabar Road east of Dunkin Donuts (16").

Project Costs	2017/Prior	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	TOTAL
Equipment/Materials		\$60,000	\$60,000	\$60,000	\$60,000	\$60,000	\$300,000
Construction/Installation		\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	\$200,000
TOTAL PROJECT COST:	\$0	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000

Impact on Operating Budget

Wastewater Treatment Plant Digester 6 Rehabilitation

North Regional Wastewater Treatment Plant



Project Information

Project #: 18WS09

Account #: 424-8032-535-6221

Design Year: FY 18
Construction Year: FY18
Project Status: Not Started

Project Engineer: Utilities Engineer/Wade Trim

Funding Source: Utilities Renewal & Replacement (UTRR)

Contractor: TBD

Project Description

This project is to perform a complete rehabilitation of Digester 6 which will include the inside of the tank and pipes which feed into the tank. This digester is over thirty (30) years old without any rehabilitation. Digester 6 is critical to our operation in creating Class B biosolids which can be sent to sod farms. Otherwise, the biosolids will have to go to the land fill.

Project Costs	2017/Prior	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	2022	<u>TOTAL</u>
Survey, Engineering and Design		\$30,000					\$30,000
Construction/Installation		\$370,000					\$370,000
Construction Services		\$15,000					\$15,000
TOTAL PROJECT COST:	\$0	\$415,000	\$0	\$0	\$0	\$0	\$415,000

Impact on Operating Budget

Lift Stations Radio Transmitter Units Replacement

Throughout the Lift Station Collection Area



Project Information

Project #: 18WS10

Account #: 424-8032-535-6327

Design Year: N/A

Construction Year: FY 18-FY 22
Project Status: Not Started

Project Engineer: N/A

Funding Source: Utilities Renewal & Replacement (UTRR)

Contractor: TBD

Project Description

This project is an annual replacement program to replace the Radio Transmitter Units (RTU) on the City's lift stations. The RTUs function as the programmable logic for the lift stations to our supervisory control and data acquisition (SCADA) system, and provides the radio signal to our facilities of how they are functioning. Currently, the RTUs are over twenty (20) years old and beyond their useful life. This annual program will allow us to replace approximately twenty (20) RTUs per year with a complete replacement within five (5) years.

Project Costs	2017/Prior	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	2022	TOTAL
Construction/Installation		\$169,612	\$169,612	\$169,612	\$169,612	\$169,612	\$848,060
TOTAL PROJECT COST:	\$0	\$169,612	\$169,612	\$169,612	\$169,612	\$169,612	\$848,060

Impact on Operating Budget

Lift Station Electrical Panel Replacements

Lift Stations 15, 19, 24, 25, 28 and 33



Project Information

Project #: 18WS11

Account #: 424-8032-535-6327

Design Year: N/A

Construction Year: FY 18-FY 22
Project Status: Not Started

Project Engineer: N/A

Funding Source: Utilities Renewal & Replacement (UTRR)

Contractor: TBD

Project Description

Various lift station panels are old, worn, and obsolete. Superior products available today have longer life expectancy, are more efficient and are safer than existing electrical panels. Installation is required due to high workload of other types of preventative maintenance on Electrical Technicians assigned to the Collections Section. Costs are based on FY 18 quotes, allowing 5% annual increases. Five (5) panels will be completed per year based upon wear and condition of the panels.

Project Costs	2017/Prior	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	2022	<u>TOTAL</u>
Equipment/Materials		\$106,500	\$111,825	\$117,417	\$123,288	\$129,453	\$588,483
Construction/Installation		\$30,000	\$31,500	\$33,075	\$34,729	\$36,466	\$165,770
TOTAL PROJECT COST:	\$0	\$136,500	\$143,325	\$150,492	\$158,017	\$165,919	\$754,253

Impact on Operating Budget

North Regional Water Treatment Plant Supervisory Control & Data Acquisition Improvements

North Regional Water Treatment Plant



Project Information

Project #: 18WS12

Account #: 424-8022-533-6407

Design Year:N/AConstruction Year:FY 18Project Status:Not StartedProject Engineer:Utilities Engineer

Funding Source: Utilities Renewal & Replacement (UTRR)

Contractor: TBD

Project Description

The purpose of this project is as follows: update the Supervisory Control and Data Acquisition (SCADA) software at the North Regional Water Treatment Plant (NRWTP) with the most current version, replace SCADA computers, replace one (1) programmable logic control (PLC), and develop new screenshots. The current SCADA system is over fifteen (15) years old and much out of date. This project will address the upgrades to software and hardware needed for the operators to oversee the NRWTP.

Project Costs	<u>2017/Prior</u>	<u>2018</u>	<u>2019</u>	2020	2021	2022	<u>TOTAL</u>
Equipment/Materials		\$8,000					\$8,000
Computers		\$8,000					\$8,000
Construction/Installation		\$65,000					\$65,000
TOTAL PROJECT COST:	\$0	\$81,000	\$0	\$0	\$0	\$0	\$81,000

Impact on Operating Budget

Cable Lane Sewer Replacement

Cable Lane NE



Project Information

Project #: 14WS07

Account #: 424-8032-535-6325

Design Year: FY 18
Construction Year: FY 18
Project Status: Not Started

Project Engineer: Utilities Engineer/Wade Trim

Funding Source: Utilities Renewal & Replacement (UTRR)

Contractor: TBD

Project Description

Project is to replace 800' of 8" Vitrified Clay Pipe (VCP) in the rear lot line behind homes on Cable Lane NE and add one sanitary sewer manhole. The 8" VCP mainline and customer laterals have become degraded over time due to root, age, and soil conditions.

Project Costs	<u>2017/Prior</u>	<u>2018</u>	<u>2019</u>	2020	<u>2021</u>	2022	<u>TOTAL</u>
Survey, Engineering and Design Construction/Installation	\$195,000	\$10,000 \$190,000					\$10,000 \$385,000
TOTAL PROJECT COST:	\$195,000	\$200,000	\$0	\$0	\$0	\$0	\$395,000

Impact on Operating Budget

Wastewater Treatment Plant Odor Control at Headworks

North Regional Wastewater Treatment Plant



Project Information

Project #: 18WS13

Account #: 421-8034-535-6221

Design Year:FY 18Construction Year:FY 19Project Status:Not Started

Project Engineer: Utilities Engineer/Wade Trim
Funding Source: Utilities Operating (UTO)

Contractor: TBD

Project Description

This project is for the improvement of the odor situation at the Wastewater Treatment Plant. Adding an odor control at the headworks will reduce odors which will reduce complaints from the surrounding area.

Project Costs	2017/Prior	<u>2018</u>	<u>2019</u>	2020	2021	2022	TOTAL
Survey, Engineering and Design		\$48,000					\$48,000
Construction/Installation			\$560,000				\$560,000
Construction Services			\$28,000				\$28,000
TOTAL PROJECT COST:	\$0	\$48,000	\$588,000	\$0	\$0	\$0	\$636,000

Impact on Operating Budget

Wastewater Treatment Plant Bar Screen Replacement

North Regional Wastewater Treatment Plant



Project Information

Project #: 18WS14

Account #: 424-8032-535-6221

Design Year: FY 18
Construction Year: FY 19
Project Status: Not Started

Project Engineer: Utilities Engineer/Wade Trim

Funding Source: Utilities Renewal & Replacement (UTRR)

Contractor: TBD

Project Description

This project is for the replacement of the bar screen at the North Regional Wastewater Treatment Plant (NRWWTP). The bar screen removes large debris, especially rags, prior to the flow entering the treatment process. Currently, the bar width is too wide causing rags to flow into the process units causing excess mechanical breakdowns and additional effort of maintenance staff to address. The replacement bar screen will be a fine bar screen with smaller spacing thus removing more rags from the influent flow.

Project Costs	2017/Prior	<u>2018</u>	<u>2019</u>	2020	2021	2022	TOTAL
Survey, Engineering and Design		\$40,000					\$40,000
Equipment/Materials			\$150,000				\$150,000
Construction/Installation			\$200,000				\$200,000
Construction Services			\$18,000				\$18,000
TOTAL PROJECT COST:	\$0	\$40,000	\$368,000	\$0	\$0	\$0	\$408,000

Impact on Operating Budget

Return Activated Sludge/Waste Activated Sludge Pump Rehabilitation

North Regional Wastewater Treatment Plant RAS/WAS Pump Pad



Project Information

Project #: 18WS15

Account #: 424-8032-535-6221

Design Year: FY 18
Construction Year: FY 19
Project Status: Not Started

Project Engineer: Utilities Engineer/Wade Trim

Funding Source: Utilities Renewal & Replacement (UTRR)

Contractor: TBD

Project Description

This project is the complete rehabilitation of the all the pumps and the roof structure at the return activated sludge (RAS)//waste activated sludge (WAS) pump pad. The pumps to be rehabilitated include the RAS, WAS and scum disposal. In addition, all variable frequency drives (VFDs) for the pumps are to be replaced, plus the demolition of the existing roof structure with a replacement roof and vertical walls. The existing facility is over thirty (30) years old, well beyond its useful life. The existing roof provides no UV protection for the equipment which the new structure will address.

Project Costs	<u>2017/Prior</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>TOTAL</u>
Survey, Engineering and Design		\$65,000					\$65,000
Construction/Installation			\$450,000				\$450,000
Construction Services			\$20,000				\$20,000
TOTAL PROJECT COST:	\$0	\$65,000	\$470,000	\$0	\$0	\$0	\$535,000

Impact on Operating Budget

Wastewater Treatment Plant Grit Pump & Mechanical Control Center Rehabilitation

North Regional Wastewater Treatment Plant



Project Information

Project #: 18WS16

Account #: 424-8032-535-6221

Design Year:FY 18Construction Year:FY 19Project Status:Not Started

Project Engineer: Utilities Engineer/Wade Trim

Funding Source: Utilities Renewal & Replacement (UTRR)

Contractor: TBD

Project Description

This project is to provide adequate shelter for the Wastewater Treatment Plant (WWTP) Mechanical Control Center (MCC). Currently, this area is exposed to UV rays and the roof leaks onto the equipment. This project will demolish the existing shelter and replace it with vertical walls to block out the UV from critical MCCs. In addition, the grit pump is located in the area and will be replaced due to its age of over twenty (20) years.

Project Costs	2017/Prior	<u>2018</u>	<u>2019</u>	2020	2021	2022	<u>TOTAL</u>
Survey, Engineering and Design Construction/Installation		\$65,000	\$320,000				\$65,000 \$320,000
TOTAL PROJECT COST:	\$0	\$65,000	\$320,000	\$0	\$0	\$0	\$385,000

Impact on Operating Budget

North Regional Water Treatment Plant Chlorine Analyzers Replacement

North Regional Water Treatment Plant



Project Information

Project #: 18WS17

Account #: 424-8022-533-6221

Design Year: FY 18
Construction Year: FY 18
Project Status: Not Started

Project Engineer: Utilities Engineer/Wade Trim

Funding Source: Utilities Renewal & Replacement (UTRR)

Contractor: TBD

Project Description

This project is for the replacement of all of the chlorine analyzers at the North Regional Water Treatment Plant (NRWTP). These analyzers are critical for the operation of the treatment plant and provides chlorine readings throughout the treatment process to allow the operators to make adjustments as needed. The current analyzers are beyond their useful life.

Project Costs	<u>2017/Prior</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>TOTAL</u>
Survey, Engineering and Design Construction/Installation		\$10,000 \$120,000					\$10,000 \$120,000
TOTAL PROJECT COST:	\$0	\$130,000	\$0	\$0	\$0	\$0	\$130,000

Impact on Operating Budget

Surficial Well Field Flow Meters Replacement

All Surficial Wells for North Regional Water Treatment Plant



Project Information

Project #: 18WS18

Account #: 424-8022-533-6318

Design Year: FY 18
Construction Year: FY 18
Project Status: Not Started

Project Engineer: Utilities Engineer/Wade Trim

Funding Source: Utilities Renewal & Replacement (UTRR)

Contractor: TBD

Project Description

The purpose of this project is to replace all of the meter flow heads for all the surficial wells (35 wells). The flow meter heads are what keeps measure of the water withdrawn which is a permit requirement of the St. Johns River Water Management District (SJRWMD). The current meter heads are past their useful life.

Project Costs	<u>2017/Prior</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>TOTAL</u>
Survey, Engineering and Design Construction/Installation		\$10,000 \$40,000					\$10,000 \$40,000
TOTAL PROJECT COST:	\$0	\$50,000	\$0	\$0	\$0	\$0	\$50,000

Impact on Operating Budget

North Regional Water Treatment Plant Generator & Air Compressor Replacement

North Regional Water Treatment Plant



Project Information

Project #: 18WS19

Account #: 424-8022-533-6221

Design Year:FY 18Construction Year:FY 19Project Status:Not Started

Project Engineer: Utilities Engineer/Wade Trim

Funding Source: Utilities Renewal & Replacement (UTRR)

Contractor: TBD

Project Description

This project is to address the beyond useful life of the North Regional Water Treatment Plant (NRWTP) emergency backup generator and the undersized air compressor. The generator is over thirty (30) years old (beyond its useful life) and requires replacement. The generator serves the NRWTP when FPL power is ceased for whatever reason. The air compressor located adjacent to the generator serves as a secondary compressor, however, it is only 80% of the needed capacity.

Project Costs	2017/Prior	<u>2018</u>	<u>2019</u>	2020	<u>2021</u>	<u>2022</u>	<u>TOTAL</u>
Survey, Engineering and Design		\$65,000					\$65,000
Equipment/Materials			\$120,000				\$120,000
Construction/Installation			\$300,000				\$300,000
Construction Services			\$18,000				\$18,000
TOTAL PROJECT COST:	\$0	\$65,000	\$438,000	\$0	\$0	\$0	\$503,000

Impact on Operating Budget

North Regional Water Treatment Plant Treatment Unit Aerator Tray

North Regional Water Treatment Plant



Project Information

Project #: 18WS20

Account #: 421-8024-533-6221

Design Year:FY 18Construction Year:FY 19Project Status:Not Started

Project Engineer: Utilities Engineer/Wade Trim
Funding Source: Utilities Operating (UTO)

Contractor: TBD

Project Description

The addition of an aerator tray on Treatment Unit #2 to remove Total Organic Carbon (TOC) from the water.

Project Costs	2017/Prior	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	2022	TOTAL
Survey, Engineering and Design Construction/Installation		\$40,000	\$150,000				\$40,000 \$150,000
TOTAL PROJECT COST:	\$0	\$40,000	\$150,000	\$0	\$0	\$0	\$190,000

Impact on Operating Budget

Lift Station Valve Pit Elimination Program

Lift Stations 11, 15, 17, 18 and 19 (FY 18)



Project Information

Project #: 18WS21

Account #: 424-8032-535-6327

Design Year: N/A

Construction Year: FY 18-FY 22
Project Status: Not Started
Project Engineer: N/A

Funding Source: Utilities Renewal & Replacement (UTRR)

Contractor: TBD

Project Description

Remove pump pedestals, discharge piping lift station wet well, valve vault and all associated valve vault piping, and replace with new epoxy-lined or stainless steel pipe and fittings. When completed, valve pit will no longer exist, allowing employees to maintain infrastructure without entering potentially deadly confined spaces. Chosen locations to be determined based upon those lift stations that have pipe and fittings that are heavily corroded due to age and exposure to both the elements and wastewater flow. Costs are based on FY 18 quotes, allowing 5% annual increases. Five per year to be completed.

Project Costs	2017/Prior	<u>2018</u>	<u>2019</u>	2020	<u>2021</u>	2022	TOTAL
Equipment/Materials		\$32,500	\$34,125	\$35,832	\$37,624	\$39,506	\$179,587
Construction/Installation		\$75,000	\$78,750	\$82,688	\$86,823	\$91,165	\$414,426
Other		\$10,000	\$10,500	\$11,025	\$11,577	\$12,156	\$55,258
TOTAL PROJECT COST:	\$0	\$117,500	\$123,375	\$129,545	\$136,024	\$142,827	\$649,271

Impact on Operating Budget

Lift Station 4 Generator Installation

Port Malabar Boulevard NE at Turkey Creek



Project Information

Project #: 18WS22

Account #: 421-8030-535-6327

Design Year:FY 18Construction Year:FY 18Project Status:Not Started

Project Engineer: Utilities Engineer/Wade Trim
Funding Source: Utilities Operating (UTO)

Contractor: TBD

Project Description

Install stand-by generator at Lift Station 4. This lift station is located in the median of Port Malabar Blvd NE on a main thoroughfare through the old part of the City and also adjacent to a tributary of Turkey Creek. During a power outage or hurricane, this is the first location where we set up a portable unit to ensure raw wastewater does not breech our system and flow into the Turkey Creek.

Project Costs	2017/Prior	<u>2018</u>	<u>2019</u>	2020	2021	2022	<u>TOTAL</u>
Survey, Engineering and Design		\$40,000					\$40,000
Land		\$50,000					\$50,000
Equipment/Materials		\$55,000					\$55,000
Construction/Installation		\$60,000					\$60,000
TOTAL PROJECT COST:	\$0	\$205,000	\$0	\$0	\$0	\$0	\$205,000

Impact on Operating Budget

North Regional Water Treatment Plant Rear Yard Swale & Fence Improvements

North Regional Water Treatment Plant



Project Information

Project #: 18WS23

Account #: 421-8024-533-6323

Design Year:FY 18Construction Year:FY 18Project Status:Not StartedProject Engineer:Utilities EngineerFunding Source:Utilities Operating (UTO)

Contractor: TBD

Project Description

Installation of approximately 1,120 linear feet of 6 foot chain link fencing at the North Regional Water Treatment Facility. This fence will replace a 6 foot wooden fence damaged during Hurricane Matthew. This will provide a physical deterrent from unauthorized access. Installation of swale.

Project Costs	2017/Prior	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	2022	<u>TOTAL</u>
Construction/Installation		\$33,000					\$33,000
TOTAL PROJECT COST:	\$0	\$33,000	\$0	\$0	\$0	\$0	\$33,000

Impact on Operating Budget

Secondary Ponds Valve Improvements

North Regional Wastewater Treatment Plant



Project Information

Project #: 15WS05

Account #: 424-8032-535-6221

Design Year: FY 18
Construction Year: FY 18
Project Status: Not Started

Project Engineer: Utilities Engineer/Wade Trim

Funding Source: Utilities Renewal & Replacement (UTRR)

Contractor: TBD

Project Description

Replacement of valve and pipe that connects wastewater secondary pond No. 1 to No. 2. This includes installation of a new actuator valve with Supervisory Control and Data Acquisition (SCADA) control along with resloping of ponds in disturbed areas. The pipe and valve between the two wastewater ponds are critical to the function of the ponds when they are used during an emergency operation (i.e., clarifier malfunction, excessive high flows into the WWTP, etc.). The current pipe and valve are over thirty (30) years old, with the valve having issues of closing properly. The replacement of these items assures the dependence of the ponds during emergency operations. The SCADA control will allow staff to operate remotely through SCADA. In addition, designated stair access will be installed with lighting for operator access to the top of the ponds.

Project Costs	2017/Prior	<u>2018</u>	<u>2019</u>	2020	<u>2021</u>	2022	<u>TOTAL</u>
Survey, Engineering and Design	\$33,000						\$33,000
Equipment/Materials	\$10,000						\$10,000
Construction/Installation	\$155,000	\$50,000					\$205,000
Construction Services		\$9,000					\$9,000
TOTAL PROJECT COST:	\$198,000	\$59,000	\$0	\$0	\$0	\$0	\$257,000

Impact on Operating Budget

RESOLUTION NO 2017-50

A RESOLUTION OF THE CITY OF PALM BAY, BREVARD COUNTY, FLORIDA, ADOPTING THE FIVE-YEAR CAPITAL IMPROVEMENT PLAN FOR FISCAL YEARS 2017-2018 THROUGH 2021-2022 FOR THE CITY OF PALM BAY, PROVIDING FOR AN EFFECTIVE DATE

WHEREAS, the City Manager has prepared the Five-Year Capital Improvement Plan for the City for Fiscal Years 2017 2018 through 2021-2022, and

WHEREAS, the City Council has reviewed the Five Year Capital Improvement Plan for Fiscal Years 2017-2018 through 2021-2022 and has determined that it is in the interest of the health safety, and welfare of the citizens of Palm Bay to adopt the Plan

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY

OF PALM BAY, BREVARD COUNTY, FLORIDA, as follows

SECTION 1. The City Council of the City of Palm Bay hereby adopts the Five Year Capital Improvement Plan for Fiscal Years 2017-2018 through 2021-2022 for the City of Palm Bay budget which is by reference, incorporated herein as Exhibit "A"

SECTION 2. The provisions within this resolution shall take effect on October 1 2017

This resolution was duly enacted at Meeting No 2017 25, of the City Council of the City of Palm Bay Brevard County Florida on September 19 2017

William Capote, MAYOR

ATTEST

Terese M Jones, CITY CLERK

EXHIBIT A

FY 18 Five-Year Capital Improvements Program	Summary
(Utility Departments)	

-536-6401 -536-6403 -536-6403 -536-6403 -536-6403 -533-6322 -533-6401 -533-6401 -533-6407 -533-6221 -535-6327 -535-6327 -535-6403 -535-6221 -535-6221		Thermography Camera Vehicle Replacements #6903 & #6302 Vehicle Replacements #6910 Autoclave Equipment Vehicle Replacements #6121 Meter Services New Installations Valve Exercise Machine Mini Excavator Trailer Tokay Software Upgrade NRWTP Treatment Unit Aerator Tray NRWTP Rear Yard Swale & Fenc Imprs Palm Vista Lift Station Lift Station 4 Generator Installation Vehicle Replacement #6912 & #6395 WRF Denitrification Project WWTP Odor Control at Headworks	UTO	14,011 79,500 20,000 11,567 22,000 225,000 64,375 49,192 10,789 20,040 40,000 33,000 1,380,000 205,000 94,000 1,300,000	225,000 150,000	FY 20 225,000	225,000	FY 22 225,000	Total FY 18-FY 22 14,011 79,500 20,000 11,567 22,000 1,125,000 64,375 49,192 10,789 20,040 190,000 33,000 1,380,000
-536-6401 -536-6403 -536-6403 -536-6401 -533-6322 -533-6401 -533-6401 -533-6407 -533-6221 -533-6323 -535-6327 -535-6403 -535-6403 -535-6403	N/A N/A N/A N/A N/A N/A N/A N/A N/A 18WS20 18WS23 16WS07 18WS22 N/A	Thermography Camera Vehicle Replacements #6903 & #6302 Vehicle Replacements #6910 Autoclave Equipment Vehicle Replacements #6121 Meter Services New Installations Valve Exercise Machine Mini Excavator Trailer Tokay Software Upgrade NRWTP Treatment Unit Aerator Tray NRWTP Rear Yard Swale & Fenc Imprs Palm Vista Lift Station Lift Station 4 Generator Installation Vehicle Replacement #6912 & #6395 WRF Denitrification Project	UTO	14,011 79,500 20,000 11,567 22,000 225,000 64,375 49,192 10,789 20,040 40,000 33,000 1,380,000 205,000 94,000	225,000				14,011 79,500 20,000 11,567 22,000 1,125,000 64,375 49,192 10,789 20,040 190,000 33,000
-536-6403 -536-6401 -536-6403 -533-6322 -533-6401 -533-6401 -533-6407 -533-6221 -533-6327 -535-6327 -535-6403 -535-6403 -535-6221	N/A N/A N/A N/A N/A N/A N/A N/A 18WS20 18WS23 16WS07 18WS22 N/A	Vehicle Replacements #6903 & #6302 Vehicle Replacements #6910 Autoclave Equipment Vehicle Replacements #6121 Meter Services New Installations Valve Exercise Machine Mini Excavator Trailer Tokay Software Upgrade NRWTP Treatment Unit Aerator Tray NRWTP Rear Yard Swale & Fenc Imprs Palm Vista Lift Station Lift Station 4 Generator Installation Vehicle Replacement #6912 & #6395 WRF Denitrification Project	UTO	79,500 20,000 11,567 22,000 225,000 64,375 49,192 10,789 20,040 40,000 33,000 1,380,000 205,000 94,000		225,000	225,000	225,000	79,500 20,000 11,567 22,000 1,125,000 64,375 49,192 10,789 20,040 190,000 33,000
-536-6403 -536-6401 -536-6403 -533-6322 -533-6401 -533-6401 -533-6407 -533-6221 -533-6327 -535-6327 -535-6403 -535-6403 -535-6221	N/A N/A N/A N/A N/A N/A N/A N/A 18WS20 18WS23 16WS07 18WS22 N/A	Vehicle Replacements #6903 & #6302 Vehicle Replacements #6910 Autoclave Equipment Vehicle Replacements #6121 Meter Services New Installations Valve Exercise Machine Mini Excavator Trailer Tokay Software Upgrade NRWTP Treatment Unit Aerator Tray NRWTP Rear Yard Swale & Fenc Imprs Palm Vista Lift Station Lift Station 4 Generator Installation Vehicle Replacement #6912 & #6395 WRF Denitrification Project	UTO	79,500 20,000 11,567 22,000 225,000 64,375 49,192 10,789 20,040 40,000 33,000 1,380,000 205,000 94,000		225,000	225,000	225,000	79,500 20,000 11,567 22,000 1,125,000 64,375 49,192 10,789 20,040 190,000 33,000
-536-6403 -536-6403 -533-6322 -533-6401 -533-6401 -533-6407 -533-6221 -533-6327 -535-6327 -535-6403 -535-6221	N/A N/A N/A N/A N/A N/A N/A 18WS20 18WS23 16WS07 18WS22 N/A	Vehicle Replacements #6903 & #6302 Vehicle Replacements #6910 Autoclave Equipment Vehicle Replacements #6121 Meter Services New Installations Valve Exercise Machine Mini Excavator Trailer Tokay Software Upgrade NRWTP Treatment Unit Aerator Tray NRWTP Rear Yard Swale & Fenc Imprs Palm Vista Lift Station Lift Station 4 Generator Installation Vehicle Replacement #6912 & #6395 WRF Denitrification Project	UTO	20,000 11,567 22,000 225,000 64,375 49,192 10,789 20,040 40,000 33,000 1,380,000 205,000 94,000		225,000	225,000	225,000	20,000 11,567 22,000 1,125,000 64,375 49,192 10,789 20,040 190,000 33,000
-536-6403 -536-6403 -533-6322 -533-6401 -533-6401 -533-6407 -533-6221 -533-6327 -535-6327 -535-6403 -535-6221	N/A N/A N/A N/A N/A N/A N/A 18WS20 18WS23 16WS07 18WS22 N/A	Vehicle Replacements #6910 Autoclave Equipment Vehicle Replacements #6121 Meter Services New Installations Valve Exercise Machine Mini Excavator Trailer Tokay Software Upgrade NRWTP Treatment Unit Aerator Tray NRWTP Rear Yard Swale & Fenc Imprs Palm Vista Lift Station Lift Station 4 Generator Installation Vehicle Replacement #6912 & #6395 WRF Denitrification Project	UTO	20,000 11,567 22,000 225,000 64,375 49,192 10,789 20,040 40,000 33,000 1,380,000 205,000 94,000		225,000	225,000	225,000	20,000 11,567 22,000 1,125,000 64,375 49,192 10,789 20,040 190,000 33,000
-536-6401 -536-6403 -533-6322 -533-6401 -533-6401 -533-6407 -533-6221 -533-6327 -535-6327 -535-6403 -535-6221	N/A N/A N/A N/A N/A N/A 18WS20 18WS23 16WS07 18WS22 N/A	Autoclave Equipment Vehicle Replacements #6121 Meter Services New Installations Valve Exercise Machine Mini Excavator Trailer Tokay Software Upgrade NRWTP Treatment Unit Aerator Tray NRWTP Rear Yard Swale & Fenc Imprs Palm Vista Lift Station Lift Station 4 Generator Installation Vehicle Replacement #6912 & #6395 WRF Denitrification Project	UTO	11,567 22,000 225,000 64,375 49,192 10,789 20,040 40,000 33,000 1,380,000 205,000 94,000		225,000	225,000	225,000	11,567 22,000 1,125,000 64,375 49,192 10,789 20,040 190,000 33,000
-533-6322 -533-6401 -533-6401 -533-6403 -533-6221 -533-6323 -535-6327 -535-6327 -535-6403 -535-6221	N/A N/A N/A N/A N/A 18WS20 18WS23 16WS07 18WS22 N/A	Vehicle Replacements #6121 Meter Services New Installations Valve Exercise Machine Mini Excavator Trailer Tokay Software Upgrade NRWTP Treatment Unit Aerator Tray NRWTP Rear Yard Swale & Fenc Imprs Palm Vista Lift Station Lift Station 4 Generator Installation Vehicle Replacement #6912 & #6395 WRF Denitrification Project	UTO	22,000 225,000 64,375 49,192 10,789 20,040 40,000 33,000 1,380,000 205,000 94,000		225,000	225,000	225,000	1,125,000 64,375 49,192 10,789 20,040 190,000 33,000
-533-6322 -533-6401 -533-6401 -533-6403 -533-6221 -533-6323 -535-6327 -535-6327 -535-6403 -535-6221	N/A N/A N/A N/A N/A 18WS20 18WS23 16WS07 18WS22 N/A 17WS16	Meter Services New Installations Valve Exercise Machine Mini Excavator Trailer Tokay Software Upgrade NRWTP Treatment Unit Aerator Tray NRWTP Rear Yard Swale & Fenc Imprs Palm Vista Lift Station Lift Station 4 Generator Installation Vehicle Replacement #6912 & #6395 WRF Denitrification Project	UTO	225,000 64,375 49,192 10,789 20,040 40,000 33,000 1,380,000 205,000 94,000		225,000	225,000	225,000	1,125,000 64,375 49,192 10,789 20,040 190,000 33,000
-533-6401 -533-6401 -533-6403 -533-6407 -533-6221 -533-6323 -535-6327 -535-6327 -535-6403 -535-6221	N/A N/A N/A N/A 18WS20 18WS23 16WS07 18WS22 N/A 17WS16	Mini Excavator Trailer Tokay Software Upgrade NRWTP Treatment Unit Aerator Tray NRWTP Rear Yard Swale & Fenc Imprs Palm Vista Lift Station Lift Station 4 Generator Installation Vehicle Replacement #6912 & #6395 WRF Denitrification Project	UTO	64,375 49,192 10,789 20,040 40,000 33,000 1,380,000 205,000 94,000					64,375 49,192 10,789 20,040 190,000 33,000
-533-6401 -533-6403 -533-6407 -533-6221 -533-6323 -535-6327 -535-6403 -535-6221	N/A N/A N/A 18WS20 18WS23 16WS07 18WS22 N/A 17WS16	Trailer Tokay Software Upgrade NRWTP Treatment Unit Aerator Tray NRWTP Rear Yard Swale & Fenc Imprs Palm Vista Lift Station Lift Station 4 Generator Installation Vehicle Replacement #6912 & #6395 WRF Denitrification Project	UTO	49,192 10,789 20,040 40,000 33,000 1,380,000 205,000 94,000	150,000				49,192 10,789 20,040 190,000 33,000
-533-6403 -533-6407 -533-6221 -533-6323 -535-6327 -535-6403 -535-6221	N/A N/A 18WS20 18WS23 16WS07 18WS22 N/A 17WS16	Trailer Tokay Software Upgrade NRWTP Treatment Unit Aerator Tray NRWTP Rear Yard Swale & Fenc Imprs Palm Vista Lift Station Lift Station 4 Generator Installation Vehicle Replacement #6912 & #6395 WRF Denitrification Project	UTO	10,789 20,040 40,000 33,000 1,380,000 205,000 94,000	150,000				10,789 20,040 190,000 33,000
-533-6407 -533-6221 -533-6323 -535-6327 -535-6403 -535-6221	N/A 18WS20 18WS23 16WS07 18WS22 N/A 17WS16	Tokay Software Upgrade NRWTP Treatment Unit Aerator Tray NRWTP Rear Yard Swale & Fenc Imprs Palm Vista Lift Station Lift Station 4 Generator Installation Vehicle Replacement #6912 & #6395 WRF Denitrification Project	UTO UTO UTO UTO UTO UTO UTO	20,040 40,000 33,000 1,380,000 205,000 94,000	150,000				20,040 190,000 33,000
-533-6221 -533-6323 -535-6327 -535-6327 -535-6403 -535-6221	18WS20 18WS23 16WS07 18WS22 N/A 17WS16	NRWTP Treatment Unit Aerator Tray NRWTP Rear Yard Swale & Fenc Imprs Palm Vista Lift Station Lift Station 4 Generator Installation Vehicle Replacement #6912 & #6395 WRF Denitrification Project	UТО UТО UTO UTO UTO UTO	40,000 33,000 1,380,000 205,000 94,000	150,000				190,000 33,000
-533-6323 -535-6327 -535-6327 -535-6403 -535-6221	18WS23 16WS07 18WS22 N/A 17WS16	NRWTP Rear Yard Swale & Fenc Imprs Palm Vista Lift Station Lift Station 4 Generator Installation Vehicle Replacement #6912 & #6395 WRF Denitrification Project	UTO UTO UTO UTO UTO	33,000 1,380,000 205,000 94,000	130,000				33,000
-535-6327 -535-6327 -535-6403 -535-6221	16WS07 18WS22 N/A 17WS16	Palm Vista Lift Station Lift Station 4 Generator Installation Vehicle Replacement #6912 & #6395 WRF Denitrification Project	UTO UTO UTO UTO	1,380,000 205,000 94,000					300000000000000000000000000000000000000
-535-6327 -535-6403 -535-6221	18WS22 N/A 17WS16	Lift Station 4 Generator Installation Vehicle Replacement #6912 & #6395 WRF Denitrification Project	UTO UTO UTO	205,000 94,000					
-535-6403 -535-6221	N/A 17WS16	Vehicle Replacement #6912 & #6395 WRF Denitrification Project	UTO UTO	94,000					205,000
-535-6221	17WS16	WRF Denitrification Project	UTO						94,000
				1,300,000					1,300,000
-333-0221	1000313	WWIF Oddi Control at Headworks	UIU	49 000	588,000				636,000
			WA-CONN	48,000	388,000				030,000
-533-6221	18WS04	SRWTP Expansion	/WA-SRF	510,000	9,200,000				9,710,000
-555-0221	1044304	SKWTT Expansion	-	310,000	3,200,000				3,710,000
F22 C224	1014/002	San Filina a Watan Main Fatanaian	WA-CONN	20.000	2 225 000				2 265 000
-533-6324	18WS03	EXECUTE DESCRIPTION OF THE PROPERTY OF THE PRO	/WA-SRF	30,000	2,235,000				2,265,000
E22 C224	1714/502	I-95 Interchange/Pkwy Water Main & Force	The second secon	17 225					17 225
-533-6324	17WS02	Iviain	WA-CONN	17,325					17,325
F2F C224	1.574/505	South Doning 1986 to Doning the South	SW-CONN	450,000	10.050.000				10 000 000
-535-6221	16WS05		/SW-SRF	150,000	18,850,000				19,000,000
F2F 622F	1714/000	I-95 Interchange/Pkwy Water Main & Force		24.475					24 475
-535-6325			SW-CONN	21,175	620,000				21,175 725,000
-533-6221		NRWTP High Service Pumps Repl	UTRR	105,000	620,000				312,000
-533-6221	12WS02		UTRR	312,000					312,000
F22 C221	1014/005	NRWTP Sulfuric Acid Tank & Feed System	LITOD	100 000					190,000
		The state of the s	1975-20192						165,000
		· ·							130,000
					438 000				503,000
		The state of the s			438,000				50,000
					150,000	150,000	150,000	150,000	750,000
					130,000	150,000	130,000	130,000	81,000
									566,000
-535-6771									415,000
-535-6221 -535-6221					368 000				408,000
-535-6221		· ·							535,000
-53 -53 -53 -53 -53	5-6221	3-6221 18WS02 3-6221 18WS17 3-6221 18WS19 3-6318 18WS18 3-6322 N/A 3-6407 18WS12 5-6221 18WS01 5-6221 18WS09 5-6221 18WS14	3-6221 18WS02 NRWTP Slaker Replacement 3-6221 18WS17 NRWTP Chlorine Analyzers Repl 3-6221 18WS19 NRWTP Generator & Air Compressor Repl 3-6318 18WS18 Surficial Well Field Flow Meter Repl 3-6322 N/A Meter Services Meter Replacements 3-6407 18WS12 NRWTP SCADA Improvements 5-6221 18WS01 Reuse High Service Pumps Repl 5-6221 18WS09 WWTP Digester 6 Rehabilitation	3-6221 18WS02 NRWTP Slaker Replacement UTRR 3-6221 18WS17 NRWTP Chlorine Analyzers Repl UTRR 3-6221 18WS19 NRWTP Generator & Air Compressor Repl UTRR 3-6318 18WS18 Surficial Well Field Flow Meter Repl UTRR 3-6322 N/A Meter Services Meter Replacements UTRR 3-6407 18WS12 NRWTP SCADA Improvements UTRR 5-6221 18WS01 Reuse High Service Pumps Repl UTRR 5-6221 18WS09 WWTP Digester 6 Rehabilitation UTRR 5-6221 18WS14 WWTP Bar Screen Replacement UTRR	3-6221 18WS02 NRWTP Slaker Replacement UTRR 165,000 3-6221 18WS17 NRWTP Chlorine Analyzers Repl UTRR 130,000 3-6221 18WS19 NRWTP Generator & Air Compressor Repl UTRR 65,000 3-6318 18WS18 Surficial Well Field Flow Meter Repl UTRR 50,000 3-6322 N/A Meter Services Meter Replacements UTRR 150,000 3-6407 18WS12 NRWTP SCADA Improvements UTRR 81,000 5-6221 18WS01 Reuse High Service Pumps Repl UTRR 566,000 5-6221 18WS09 WWTP Digester 6 Rehabilitation UTRR 415,000 5-6221 18WS14 WWTP Bar Screen Replacement UTRR 40,000	3-6221 18WS02 NRWTP Slaker Replacement UTRR 165,000 3-6221 18WS17 NRWTP Chlorine Analyzers Repl UTRR 130,000 3-6221 18WS19 NRWTP Generator & Air Compressor Repl UTRR 65,000 438,000 3-6318 18WS18 Surficial Well Field Flow Meter Repl UTRR 50,000 3-6322 N/A Meter Services Meter Replacements UTRR 150,000 3-6407 18WS12 NRWTP SCADA Improvements UTRR 81,000 5-6221 18WS01 Reuse High Service Pumps Repl UTRR 566,000 5-6221 18WS09 WWTP Digester 6 Rehabilitation UTRR 415,000 5-6221 18WS14 WWTP Bar Screen Replacement UTRR 40,000 368,000	3-6221 18WS02 NRWTP Slaker Replacement UTRR 165,000	3-6221 18WS02 NRWTP Slaker Replacement UTRR 165,000	18WS02 18WS02 18WS07 1

EXHIBIT A'

			FY 18 Five-	Year Capita	I Improvements	Program Sumr	nary			
(Utility Departments)										
Fund		Project		Funding			ESTIMATED EXP	ACTUAL CONTRACTOR OF THE PROPERTY OF THE PROPE		Total
	Dept/Div	No.	Project Name	Source	FY 18	FY 19	FY 20	FY 21	FY 22	FY 18-FY 22
UTILITIES	_						_			
424	8032-535-6221	18WS16	WWTP Grit Pump & MCC Rehab	UTRR	65,000	320,000				385,000
424	8032-535-6221			UTRR	59,000					59,000
424	8032-535-6325	18WS08	ARV Upgrade Program	UTRR	100,000	100,000	100,000	100,000	100,000	500,000
424	8032-535-6325	14WS07	Cable Lane Sewer Replacement	UTRR	200,000		/			200,000
424	8032-535-6326	17WS15	DIW Reservoir Rehabilitation	UTRR	125,000					125,000
424	8032-535-6327	18WS21	Temperature and the control of the c	UTRR	117,500	123375	129,545	136,024	142,827	649,271
424	8032-535-6327	18WS11		UTRR	136,500	143,325	150,492	158,017	165,919	754,253
424	8032-535-6327	18WS10	Lift Stations RTU Replacment Prog	UTRR	169,612	169,612	169,612	169,612	169,612	848,060
425	8021-533-6324	18WS07	Palm Bay Hospital Water Main Loop	MLE	168,000	200,022		200/020		168,000
433	8021-533-6324	16WS06	Palm Vista Water Main & Force Main	WA-SRF	1,831,500					1,831,500
433	0021 333 0324	1011300	I-95 Interchange/Pkwy Water Main & Force	WASI	1,051,500					2,000,000
433	8021-533-6324	17WS02	100000000000000000000000000000000000000	WA-SRF	1,136,250					1,136,250
433	8031-535-6325	16WS06	Palm Vista Water Main & Force Main	SW-SRF	2,238,500		_			2,238,500
433	8031-333-0323	104/300	I-95 Interchange/Pkwy Water Main & Force	344-3141	2,230,300					2,230,300
433	8031-535-6325	17WS02	Main	SW-SRF	1,388,750					1,388,750
433	8031-333-0323	1744302	IVIAIII	3W-3KI	1,386,730					1,500,750
EV 10 EV 2	Additional (info	mational r	ournoses only)							
11 13-11 2	Additional (IIIIo	macional p	July Dises Only)					-		
			Utility Relocate Babcock Street (FDOT							
Utilities		15WS03	Project)			2,300,000.00				2,300,000
Utilities		14WS02	Elevated Walkways			284,000.00				284,000
Utilities	_	17WS08	I-95 Interchange Regional Lift Station			1,370,000.00	_			1,370,000
Utilities		16WS04	North Regional RO Plant Rehabilitation			355,000.00	4,610,000.00			4,965,000
Utilities	_	17WS05	WWTP Thickener Installation			787,000.00	4,010,000.00			787,000
Utilities		17WS06	Replacement of 1.5 MG Storage Tank			1,025,000.00				1,025,000
Utilities		16WS01	Treatment Unit Rehab			1,330,000.00	_			1,330,000
Utilities	_	TBD				225,000.00				225,000
Utilities		TBD	WWTP & WRF Lights Lift Station Generator Replacements			275,000.00	275,000.00	275,000.00		825,000
		10000000					3,145,000.00	273,000.00		3,380,000
Utilities		TBD	Lime Drying Unit NRWTP			235,000.00	3,145,000.00			230,000
Utilities		TBD	NRWTP Lime Silo Rehabilitation			230,000.00	120,000,00			150,000
Utilities	_	TBD	NRWTP CO2 Storage Tank & Feed Repl			30,000.00	120,000.00	100 000 00		300,000
Utilities		TBD	Land Needs for Lift Stations			100,000.00	100,000.00	100,000.00		
Utilities		TBD	WWTP 2nd Clarifier			1,490,000.00				1,490,000
Utilities		TBD	Fluoride System Replacement NRWTP			112,000.00	6 150 000 00			112,000
Utilities	_	TBD	Reuse Pond at Majors Golf Course			200,000.00	6,150,000.00			6,350,000
Utilities		TBD	Babcock and Parkway WM/FM			325,000.00	3,075,000.00			3,400,000
I I will a		700	Lift Stations 1 and 2 Force Main			400 000 00				450.000
Utilities		TBD	Replacement			460,000.00				460,000
Utilities		TBD	SR WRF Admin Building				200,000.00	500,000.00		700,000
Utilities		TBD	DIW Acidization				135,000.00			135,000
Utilities		TBD	WWTP/WRF Master Valve				208,000.00			208,000

City of Palm Bay, Florida Resolution No 2017 50

Appendix B

EXHIBIT A

FY 18 Five-Year Capital Improvements Program Summary (Utility Departments)										
	Project	Project Name	Funding Source		Total					
Fund Dept/Di				FY 18	FY 19	FY 20	FY 21	FY 22	FY 18-FY 22	
UTILITIES					-					
Utilities	TBD	WRF - 3rd Disc Filter Installation				190,000.00			190,000	
Utilities	TBD	WWTP Clarifier Mechanism Rehab				90,000.00	660,000.00		750,000	
Utilities	TBD	WRF UV Covers Chlorine Contact Chamber				70,000.00			70,000	
		UTILITIES TOTAL		14,414,586	45,283,312	19,292,649	2,473,653	953,358	82,417,558	

City of Palm Bay Florida Resolution No 2017-50

EXHIBIT A

				e-Year Community	Departments)	J				
				(Non-Ounty	Departments)					
	Dept/Div	Project	Project Name	Funding	SCHEDULE OF ESTIMATED EXPENDITURES					
Fund		No.		Source	FY 18	FY 19	FY 20	FY 21	FY 22	Total FY 18-FY 22
Communic	ations & Informati	on Technol	Ogy							
001		N/A	Servers for Public Administration & Safety	GENF	85,061	0	0	13,908	16,690	115,65
001	2310-519-6413	N/A	VOIP Network & Telephone Upgrade	GENF	640,000	124,000	134,000	144,000	154,000	1,196,00
Growth Ma	anagement									
112	3353-554-6201	18FD01	Portion of Fire Station 5 Rebuild	CDBG	457,497					457,49
Parks & Re	creation									
154	4050-572-6301	18PR01	MUSCO Control Link/Ballfield Lights	IMPR-PR	145,000					145,00
154	4050-572-6401	18PR03	Ballfield Base Enhancement	IMPR-PR	15,000					15,00
Police										
521	7070-519-6403	N/A	(6) Police Vehicles	GENF	163,444					163,44
Public Wor	ks									
301	7090-539-6301	13PW02	Bus Shelter Installation	GRANT/GENF	50,000					50,00
461	7083-538-6309	18SU01	Various Stormwater/Culvert Locations	SWU	4,100,000					4,100,00
		TOTAL	NON-UTILITY DEPARTMENTS ONLY EXCLU	IDING BCBA	5,656,002	124,000	134,000	157,908	170,690	6,242,60
		TOTAL	NON-OTILITY DEPARTMENTS ONLY EXCLU	DDING BCKA	3,636,002	124,000	134,000	137,508	170,030	0,242,00
Bayfront Co	ommunity Redeve	lopment A	gency (BCRA)							
181	9110-559-6101	18CR02	Land Acquisition	BCRA-TIF	250,549					
303	3090-541-6101	16CR02	BCRA Redevelopment Plan Projects	BOND	-50,000					
303	3090-559-6305	18CR01	Palm Bay Entrance Channel Dredging	BOND	50,000					
		TOTAL	BAYFRONT COMMUNITY REDEVELOPMEN	IT AGENCY (BCRA)	250,549	0	0	0	0	
		C	COMBINED TOTAL UTILITY & NON-UTILITY 8	20,321,137	45,407,312	19,426,649	2,631,561	1,124,048	88,660,15	



LEGISLATIVE MEMORANDUM

TO Honorable Mayor and Members of the City Council

FROM Gregg Lynk City Manager

DATE September 19, 2017

RE Budget Hearing

The City Council is required by Florida Statute to hold a public hearing on the final millage rate and the FY 18 budget.

Staff will begin the meeting by reading a statement regarding the tax rate and providing a brief summary of the final budget

Following the initial staff commentary, the public hearing should commence.

At the close of the public hearing, the Council will consider

- Adoption of changes to fees, rates, and charges pursuant to the Code of Ordinances
- Adoption of Classification and Pay Plans and the Position Control Plan
- · Adoption of the Five Year Capital Improvement Plan,
- Adoption of the final millage rate
- Second reading of Utility Rate Ordinances amending Chapters 200, 201 and 202 to codify the rate adjustments previously approved
- Second reading of the Budget Adoption Ordinance

RECOMMENDATION

Motion to adopt the Resolutions and Ordinances above as listed under Business on the agenda

Attachments

- 1) Ordinance Nos 2017 58 through 2017 61
- 2) Resolutions as outlined above

PG/ab

Down to Earth And Up To Great Things