

TOWN OF WARRENTON
CAPITAL IMPROVEMENT PROGRAM

June 14, 2016



2017-2022

TOWN OF WARRENTON, VIRGINIA

CAPITAL IMPROVEMENTS PROGRAM
2017-2022

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CAPITAL IMPROVEMENT PROGRAM

INTRODUCTION

The Capital Improvement Program (CIP) provides for an orderly implementation of short and long range plans for construction of Capital Improvement Projects and Land Acquisition. It further provides for the scheduling of the associated expenditures over a period of many years. The first year of the program represents the proposed Capital Budget for the Fiscal Year. In addition, consideration is given to the project's relations to other improvements and plans, and the Town's current and anticipated financial capabilities. The CIP is updated annually, at which time the schedule and the projects reevaluated, new or deferred projects are added, and the time frame is extended by one additional fiscal year.

POLICY

The following policies guide the development of the CIP:

1. The CIP should be realistic relative to the projected source of revenue.
2. A reserve fund should be established, as required, to reduce the fiscal impact of major projects in a single year.
3. CIP projects undertaken by Enterprise Fund Operations, such as water and sewer, should be considered separate from the General Fund due to the respective fund's ability to fiscally support the project.

BENEFITS

A carefully planned CIP will enable the Town to realize several benefits:

1. Major improvements can be anticipated in advance, rather than addressed at the time the need arises.
2. Specific projects identified within the comprehensive plan can be implemented based upon prior planning.
3. The Town Council and Planning Commission are better able to evaluate the needs of the entire community, instead of special projects.
4. Projects can be scheduled when revenue is available and when the community's anticipated ability to finance is determined.
5. Capital programming improves the Town's ability to vitalize state and federal aid. Applications can be timed to fit the development schedule.

DEFINING A CAPITAL IMPROVEMENT

A capital improvement is defined as a major expenditure, beyond maintenance and operating costs, for the acquisition or construction of a needed facility. Salaries, supplies and other overhead expenditures are considered maintenance and operating costs, not provided for the CIP. Capital improvements include such things as utility systems, public buildings, land acquisitions, streets and sidewalks. The improvements are items that will have a significant impact on the community and are too expensive to be financed in the annual operating budget. Cost and frequency are two criteria that will be used to distinguish between a capital expenditure and an operating expenditure.

1. Cost – For the purposes of the CIP, a project shall be deemed capital rather than operating if it is \$10,000 or more.
2. Frequency – Capital projects should be non-recurring. An interval of three years between expenditures is recommended.

CLASSIFICATIONS

The programs are coded using the following information:

CD – Planning and Community Development
FD – Fire Department
PD – Police Department
PR – Parks and Recreation
PW – Public Works Department
UD – Public Utilities Department
TC – Town Council

PROJECT NUMBER (example: PW-17-001)

PW = Department responsible for the project.
17 = Fiscal year project is proposed to be funded.
01 = Consecutive project number within the Department.

SUMMARY

The CIP is a planning and scheduling document. It does not represent authorization to expend Town funds. It does provide an orderly implementation of proposed short and long range plans for land acquisition and construction. Each project must be individually authorized for implementation. The impact of FY17 capital projects on the Town of Warrenton General Fund is \$809,900 and the Town of Warrenton Rec Fund in the amount of \$1,190,256. The impact of FY17 capital projects on the Town of Warrenton Utilities Fund is \$2,163,837. The CIP is an annual process and requires close review by both the Planning Commission and the Town Council.

Pages 5 – 10 are reserved for additional non-CIP background information.

FY2017-22 CAPITAL IMPROVEMENT PROGRAM

PROPOSED FY17 FUNDING BREAKDOWN

Project Name	General Fund	Utilities Debt Funding	Utilities Revenue	VDOT Revenue Sharing	Other (VDOT TAP Grant)	Proffer	TOTAL
Warrenton Dam Spillway Evaluation			55,000				\$55,000
WTP Physical Plant Expansion		500,000	11,837				\$511,837
Sewer Line Rehab I&I		800,000	0				\$800,000
Well #3 Activation		415,000	0				\$415,000
Tank Mixing			98,500				\$98,500
Waterline Extension - Waterloo Road			73,500				\$73,500
Additional WWTP Upgrades (RBC Replacement)		175,000	0				\$175,000
Additional WWTP Upgrades (Trickling Filter)			35,000				\$35,000
VDOT Urban - Broadview Avenue	10,000						\$10,000
Traffic Signal - Falmouth/Shirley Avenue	37,000			217,000		180,000	\$434,000
Parking Lot E Improvements	48,500						\$48,500
E. Shirley/Cleveland Street Drainage	125,400						\$125,400
Gold Cup Drive Sidewalk	25,000						\$25,000
Truck Weigh Scale @ Shop	70,000						\$70,000
Brush Chipper Replacement	42,000						\$42,000
Benner Lane Paving	55,000*						\$55,000
Police Cruiser Replacements	215,727						\$215,727
P25 Compliant Radio System Upgrade	185,656						\$185,656
Base Mobile Server/Field Reporting Upgrade	3,828						\$3,828
VA Supreme Court Citation Data Software	7,720						\$7,720
WARF Fitness Equipment Replacement	35,000						\$35,000
WARF Facility Upgrades	49,500						\$49,500
Micro Golf	50,000*						\$50,000
Vehicle Replacement	27,000						\$27,000
Timber Fence Trail	91,876*				826,880		\$918,756
Depot Park	50,000*						\$50,000
Parking for Soccer Fields	20,000						\$20,000
Fields Trail Completion	40,000*						\$40,000
Fire Department Ladder Truck	150,000						\$150,000
Total	\$1,339,207	\$1,890,000	\$273,837	\$217,000	\$826,880	\$180,000	\$4,726,924

*These projects are not funded in the FY2017 Capital Improvement Fund Proposed Budget. Funding for these projects has been shifted to future years.

FY2017-22 CAPITAL IMPROVEMENT PROGRAM

SUMMARY

Department	Prior Authorization	16-17	17-18	18-19	19-20	20-21	22 and Beyond	TOTAL COST
Public Utilities Department		2,163,837	3,131,500	4,613,300	2,995,042	2,930,700	5,350,000	\$21,184,379
Public Works Department		809,900	814,061	1,051,500	492,380	705,000	5,050,000	\$8,922,841
Police Department		412,931	0	0	0	0	0	\$412,931
Parks & Recreation		1,190,256	420,000	222,000	148,000	0	0	\$1,980,256
Fire Department		150,000	0	0	0	0	0	\$150,000
Community Development		0	0	0	0	0	0	\$0
Total		\$4,726,924	\$4,365,561	\$5,886,800	\$3,635,422	\$3,635,700	\$10,400,000	\$32,650,407

FY2017-22 CAPITAL IMPROVEMENT PROGRAM

ESTIMATED TOTAL PROJECT COST BY DEPARTMENT

PROJECT #	DEPT.	PROJECT TITLE	2016-17	2017-18	2018-19	2019-20	2020-21	2022 and Beyond	TOTAL COST
UD-17-001	Utilities	Warrenton Dam Spillway Evaluation	55,000	530,000					\$585,000
UD-17-002	Utilities	WTP Physical Plant Expansion	511,837						\$511,837
UD-17-003	Utilities	Sewer Line Rehab I&I	800,000	800,000	800,000	250,000	200,000	200,000	\$3,050,000
UD-17-004	Utilities	Well #3 Activation	415,000						\$415,000
UD-17-005	Utilities	Tank Mixing	98,500						\$98,500
UD-17-006	Utilities	Waterline Extension - Waterloo Road	73,500						\$73,500
UD-17-007	Utilities	Add'l. WWTP Upgrades (RBC Replmnt)	175,000	1,350,000	3,350,000	750,000			\$5,625,000
UD-17-008	Utilities	Add'l. WWTP Upgrades (Trickling Filter)	35,000	175,000					\$210,000
UD-18-001	Utilities	Sludge Collection Clarifier Replacement		34,500	60,000	60,000			\$154,500
UD-18-002	Utilities	Mountain Tank Waterline Replacement		217,000					\$217,000
UD-18-003	Utilities	Vehicle Replacement - WTP		25,000					\$25,000
UD-19-001	Utilities	Rady Park Pump Station			45,000	725,000			\$770,000
UD-19-002	Utilities	Storage Tank/Clearwell 500K Gallons			85,000	450,000	550,000		\$1,085,000
UD-19-003	Utilities	Cedar Run Pump Station - Lagoon Exp.			50,000	200,000			\$250,000
UD-19-004	Utilities	Blackwell Road Waterline Extension			196,300				\$196,300
UD-19-005	Utilities	Vehicle Replacement - Utilities Technician			27,000				\$27,000
UD-20-001	Utilities	Well #4 Activation				35,000	175,000		\$210,000
UD-20-002	Utilities	Secondary Digester/Solids Holding Tanks				100,000	850,000		\$950,000
UD-20-003	Utilities	Replacement Jet Vac Truck				230,000			\$230,000
UD-20-004	Utilities	Waterline Extension-Old Meetze Road				116,042			\$116,042
UD-20-005	Utilities	WTP Reliability Measures				79,000	763,200		\$842,200
UD-21-001	Utilities	Warrenton Dam Expansion/Improvements					250,000	4,750,000	\$5,000,000
UD-21-002	Utilities	Waterline Replacement-Rappahannock St					142,500		\$142,500
UD-22-001	Utilities	WWTP Hydraulics						250,000	\$250,000
UD-22-002	Utilities	Waterline Replacement						150,000	\$150,000
Total			\$2,163,837	\$3,131,500	\$4,613,300	\$2,995,042	\$2,930,700	\$5,350,000	\$21,184,379

FY2017-22 CAPITAL IMPROVEMENT PROGRAM

ESTIMATED TOTAL PROJECT COST BY DEPARTMENT

PROJECT #	DEPT.	PROJECT TITLE	2016-17	2017-18	2018-19	2019-20	2020-21	2022 and Beyond	TOTAL COST
PW-17-001	Public Works	VDOT Urban - Broadview Ave.	10,000						\$10,000
PW-17-002	Public Works	Traffic Signal-Falm./Shirley	434,000 **						\$434,000
PW-17-003	Public Works	Parking Lot E Improvements	48,500						\$48,500
PW-17-004	Public Works	E. Shirley/Cleveland St Drnge.	125,400						\$125,400
PW-17-005	Public Works	Gold Cup Drive Sidewalk	25,000	237,590					\$262,590
PW-17-006	Public Works	Truck Weigh Scale @ Shop	70,000						\$70,000
PW-17-007	Public Works	Brush Chipper Replacement	42,000						\$42,000
PW-17-008	Public Works	Benner Lane Paving	55,000 *						\$55,000
PW-18-001	Public Works	SWM - BMP Retrofit		50,000	50,000	50,000	50,000	50,000	\$250,000
PW-18-002	Public Works	Sidewalk Construction		64,150	121,000	73,380			\$258,530
PW-18-003	Public Works	Rev. Sharing Lee Hwy. Paving		225,000 **					\$225,000
PW-18-004	Public Works	Refuse Truck		160,000					\$160,000
PW-18-005	Public Works	Franklin Street Sidewalk		77,321					\$77,321
PW-19-001	Public Works	Drainage Upgd. Sullivan/Brdvw			30,000	225,000			\$255,000
PW-19-002	Public Works	Upgrd/Repair Lee Hwy Culvert			85,000				\$85,000
PW-19-003	Public Works	East Street Drainage			255,500				\$255,500
PW-19-004	Public Works	Dump Truck Rplcmt w/Plow			95,000				\$95,000
PW-19-005	Public Works	Rev. Sharing-Brdvw. Paving			330,000 **				\$330,000
PW-19-006	Public Works	TS Interconnectivity-Lee Hwy.			85,000				\$85,000
PW-20-001	Public Works	Rev.Sh.Sgnl/Rndbt Walker/Lee				30,000	450,000		\$480,000
PW-20-002	Public Works	Motor Grader Replacement				85,000			\$85,000
PW-20-003	Public Works	Leaf Vac Replacement				29,000			\$29,000
PW-21-001	Public Works	Street Sweeper Replacement					120,000		\$120,000
PW-21-002	Public Works	Bucket Truck Replacement					85,000		\$85,000
PW-22-001	Public Works	Parking Deck						5,000,000	\$5,000,000
Total			\$809,900	\$814,061	\$1,051,500	\$492,380	\$705,000	\$5,050,000	\$8,922,841

* This project is not funded in the FY2017 Capital Improvement Fund Proposed Budget. Funding for this project has been shifted to future years.

** 50% VDOT Revenue Sharing Cost Share.

**TOWN OF WARRENTON
 FY2017-22 CAPITAL IMPROVEMENT PROGRAM
 ESTIMATED TOTAL PROJECT COST BY DEPARTMENT**

PROJECT #DEPT.	PROJECT TITLE	2016-17	2017-18	2018-19	2019-20	2020-21	2022 and Beyond	TOTAL COST
PD-17-001 PD	Police Cruiser Replacements	215,727						\$215,727
PD-17-002 PD	P25 Compliant Radio System Upgrade	185,656						\$185,656
PD-17-003 PD	Base Mobile Server/Field Reporting Upgrade	3,828						\$3,828
PD-17-004 PD	VA Supreme Court Citation Data Software	7,720						\$7,720
Total		\$412,931	\$0	\$0	\$0	\$0	\$0	\$412,931

FY2017-22 CAPITAL IMPROVEMENT PROGRAM

ESTIMATED TOTAL PROJECT COST BY DEPARTMENT

PROJECT #	DEPT.	PROJECT TITLE	2016-17	2017-18	2018-19	2019-20	2020-21	2022 and Beyond	TOTAL COST
PR-17-001	P&R	WARF Fitness Equipment Replacement	35,000	25,000	34,000				\$94,000
PR-17-002	P&R	WARF Facility Upgrades	49,500						\$49,500
PR-17-003	P&R	Micro Golf	50,000*	35,000					\$85,000
PR-17-004	P&R	Vehicle Replacement	27,000						\$27,000
PR-17-005	P&R	Timber Fence Trail (See Note 1 Below)	918,756*						\$918,756
PR-17-006	P&R	Depot Park	50,000*		50,000				\$100,000
PR-17-007	P&R	Parking for Soccer Fields	20,000						\$20,000
PR-17-008	P&R	Fields Trail Completion	40,000*						\$40,000
PR-18-001	P&R	WARF Roof		105,000					\$105,000
PR-18-002	P&R	UV Disinfection/Pools		35,000	30,000	23,000			\$88,000
PR-18-003	P&R	HVAC Repair		45,000					\$45,000
PR-18-004	P&R	Rady Park Playground Replacement		150,000					\$150,000
PR-18-005	P&R	Rady Grading/Draining		15,000					\$15,000
PR-18-006	P&R	Skate Park Enhancements		10,000					\$10,000
PR-19-001	P&R	Metal Two-Bay Garage			40,000				\$40,000
PR-19-002	P&R	Carpet-WARF Business Office			20,000				\$20,000
PR-19-003	P&R	Tractor			48,000				\$48,000
PR-20-001	P&R	WARF Curb				90,000			\$90,000
PR-20-002	P&R	Eva Walker Park Splash Feature				35,000			\$35,000
Total			\$1,190,256	\$420,000	\$222,000	\$148,000	\$0	\$0	\$1,980,256

Note 1 - An application has been filed for a VDOT TAP grant, which could fund 80% of this project. If the grant is received, the Town would pay expenses for the project and would be reimbursed for the 80%. Fauquier County has committed to half of the remaining funding. The Town's net commitment is \$91,876.

Note 2 - Part of the Comprehensive Plan review process will include a Parks and Recreation section with additional amenities considered for out years. Some of the potential amenities include batting cages, basketball and tennis courts, a driving range, a bike share program, and a roof for the hockey pavilion. These items, if adopted, will be included in future CIP planning.

* These projects are not funded in the FY2017 Capital Improvement Fund Proposed Budget. Funding for these projects has been shifted to future years.

TOWN OF WARRENTON
 FY2017-22 CAPITAL IMPROVEMENT PROGRAM
 ESTIMATED TOTAL PROJECT COST BY DEPARTMENT

PROJECT #DEPT.	PROJECT TITLE	2016-17	2017-18	2018-19	2019-20	2020-21	2022 and Beyond	TOTAL COST
FD-17-001 FD	Ladder Truck Replacement	150,000						\$150,000
Total		\$150,000	\$0	\$0	\$0	\$0	\$0	\$150,000

TOWN OF WARRENTON, VIRGINIA
 CAPITAL IMPROVEMENTS PROGRAM
 FISCAL YEARS 2017-2022

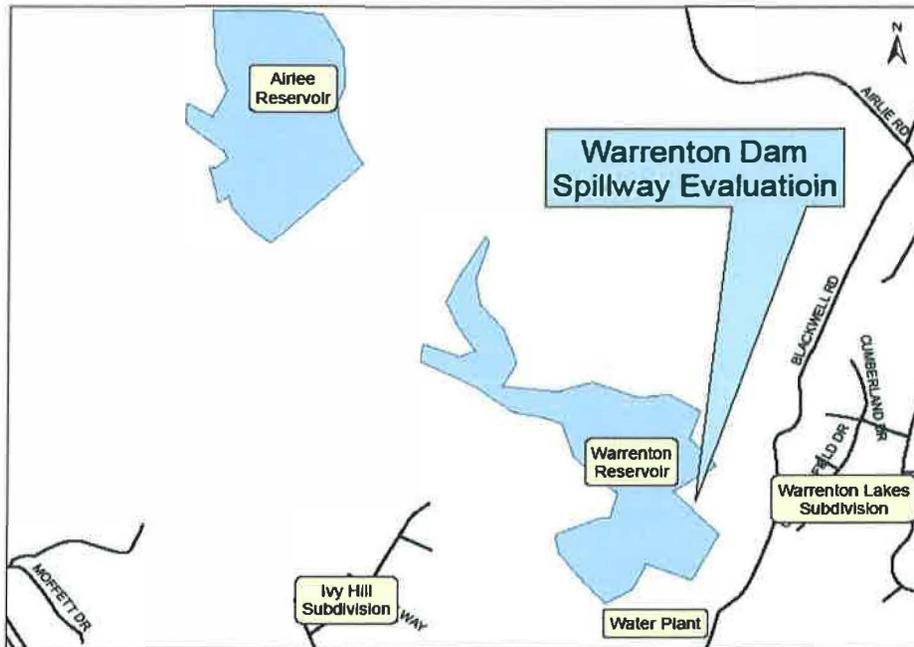
Project Number: UD-17-001	Project Title: Warrenton Dam Spillway Evaluation					Department: Utilities	
Estimated Cost:	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>
Prior Authorization							
Land Acquisition							\$0
Architecture/Engineering	\$55,000						\$55,000
Construction		\$530,000					\$530,000
TOTAL	\$55,000	\$530,000	\$0	\$0	\$0	\$0	\$585,000
Funding Sources:							
General Fund							
Enterprise Fund	\$55,000	530,000					\$585,000
Other (Utilities Revenue)							
TOTAL	\$55,000	\$530,000	\$0	\$0	\$0	\$0	\$585,000
* Depending on new DCR spillway criteria and outcome of FY16 evaluation of existing spillway.							

**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Description: Project consists of an evaluation of the Warrenton Reservoir Dam Emergency Spillway as directed by Virginia Department of Conservation & Recreation (DCR). Remedial actions are tentative on evaluation results and are programmed as follows:

FY17	Tentative Design of Remediation Required	\$55,000
FY18	Construction as designed in FY17	\$ 530,000
Total		\$585,000

Project Justification: In 2014, the Town received a "conditional" operating permit from DCR and was directed to conduct an emergency spillway evaluation of the dam using a 0.5 Probability Maximum Flood (PMF). DCR is in the process of revising the PMF criteria by December 2015. Final acceptance by the State Board is scheduled for March 23, 2016 and subject to change until approved. Once the new criteria is established, a spillway evaluation will be conducted in order to receive a 5-year O&M permit. Should the spillway be found to be inadequate, the corrected modification to the dam must be designed and constructed. Thus, the project is programmed in FY17 and beyond on a contingent basis to be determined once the revised study in FY16 has been submitted to DCR and the follow-up regulatory action required. Project is required by State and Federal governments under the Dam Safety Assurance Program.



TOWN OF WARRENTON, VIRGINIA
 CAPITAL IMPROVEMENTS PROGRAM
 FISCAL YEARS 2017-2022

Project Number: UD-17-002	Project Title: WTP Physical Plant Expansion					Department: Utilities	
<u>Estimated Cost:</u>	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>
Prior Authorization							
Land Acquisition							\$0
Architecture/Engineering							\$0
Construction	\$511,837						\$511,837
TOTAL	\$511,837	\$0	\$0	\$0	\$0	\$0	\$511,837
<u>Funding Sources:</u>							
General Fund							\$0
Enterprise Fund							\$0
Other (Utilities Revenue)	\$511,837						\$511,837
TOTAL	\$511,837	\$0	\$0	\$0	\$0	\$0	\$511,837

**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Description: Water Treatment Plant Physical Plant Expansion

Construction (FY17) \$511,837

Design and construction of an 1800 s.f. chemical building to house the chemical treatment apparatus for the Water Treatment Plant. Building to provide storage of chemicals and feed systems for a new sodium hypochlorite system for disinfection. Also, upgrades to the soda ash system with rapid mixers and dry chemical feeders.

FY16 design effort is determining whether the expansion is an addition to the existing main plant or a separate stand alone.

Project Justification: The work is needed to replace and upgrade the chemical treatment assets in an expanded plant facility. Current chemical feed systems are approaching their useful life and are scheduled for replacement. The conversion from chlorine gas to sodium hypochlorite eliminates a significant hazard to operators and the surrounding residential community.



TOWN OF WARRENTON, VIRGINIA
 CAPITAL IMPROVEMENTS PROGRAM
 FISCAL YEARS 2017-2022

Project Number: UD-17-003	Project Title: Sewer Rehab - I&I					Department: Utilities	
<u>Estimated Cost:</u>	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>
Prior Authorization							
Land Acquisition							\$0
Architecture/Engineering	\$800,000	\$800,000	\$800,000	\$250,000	\$200,000	\$200,000	\$3,050,000
Construction							\$0
TOTAL	\$800,000	\$800,000	\$800,000	\$250,000	\$200,000	\$200,000	\$3,050,000
<u>Funding Sources:</u>							
General Fund							\$0
Enterprise Fund							\$0
Other (Utilities Revenue)	\$800,000	\$800,000	\$800,000	\$250,000	\$200,000	\$200,000	\$3,050,000
TOTAL	\$800,000	\$800,000	\$800,000	\$250,000	\$200,000	\$200,000	\$3,050,000

TOWN OF WARRENTON, VIRGINIA
 CAPITAL IMPROVEMENTS PROGRAM
 FISCAL YEARS 2017-2022

Project Number: UD-17-004	Project Title: Well #3 Activation					Department: Utilities		
<u>Estimated Cost:</u>	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>	
Prior Authorization								
Land Acquisition							\$0	
Architecture/Engineering							\$0	
Construction	\$415,000						\$415,000	
TOTAL	\$415,000	\$0	\$0	\$0	\$0	\$0	\$415,000	
<u>Funding Sources:</u>								
General Fund							\$0	
Enterprise Fund							\$0	
Other (Utilities Revenue)	\$415,000						\$415,000	
TOTAL	\$415,000	\$0	\$0	\$0	\$0	\$0	\$415,000	

**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

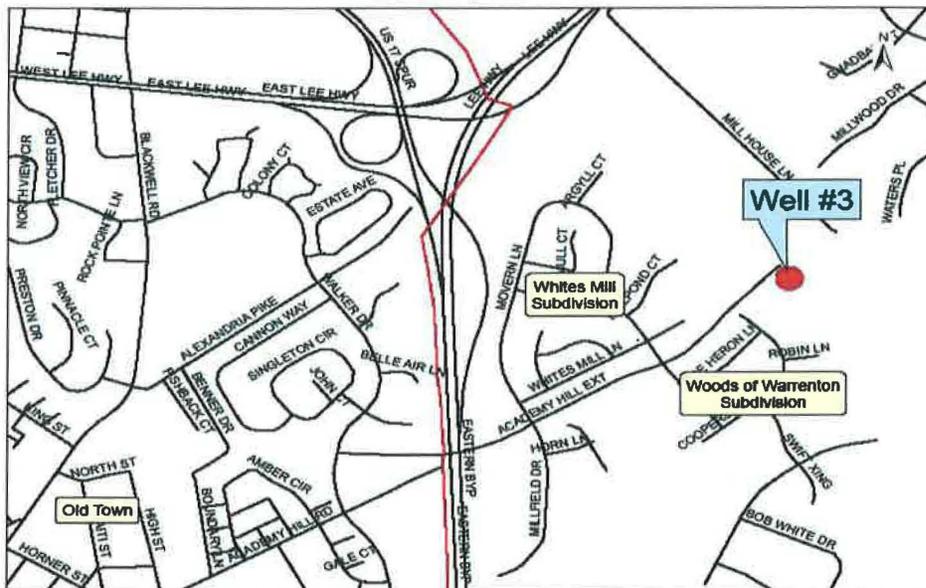
Project Description: Project includes the installation of new pumps and treatment process to meet Virginia Department of Health Drinking Water Standards. Existing well house will be demolished and replaced to house the new treatment system.

The project has been designed with bidding and construction initiated in FY16. The project funding represents the additional funding needed to complete construction.

Project Justification: The existing well cannot be used in its current condition to meet current standard well criteria by VDH. Preliminary testing was conducted in 2009 with more extensive VDH required testing in 2010. Results of all testing has been promising with all indications that the well can be brought back into service economically. The added production resources equates to Warrenton Reservoir Dam being raised 2-3 feet.

Staff has been evaluating long term operational costs for the treatment of the well site or pumping to Warrenton Reservoir for treatment through the main plant.

The well is a high production asset of approximately 275,000 to 300,000 gallons per day water supply. The recently completed Water Sewer Capacity Study (2015) identified commitment of assets at 80% capacity without the well and 71% capacity with the well being reactivated. Therefore, the well is a key resource to meet current requirements and any consideration of additional requests for development.



TOWN OF WARRENTON, VIRGINIA
 CAPITAL IMPROVEMENTS PROGRAM
 FISCAL YEARS 2017-2022

Project Number: UD-17-005	Project Title: Water Storage Tank Mixing & Aeration					Department: Utilities	
<u>Estimated Cost:</u>	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>
Prior Authorization							
Land Acquisition							\$0
Architecture/Engineering							\$0
Construction	\$98,500						\$98,500
TOTAL	\$98,500	\$0	\$0	\$0	\$0	\$0	\$98,500
<u>Funding Sources:</u>							
General Fund							\$0
Enterprise Fund							\$0
Other (Utilities Revenue)	\$98,500						\$98,500
TOTAL	\$98,500	\$0	\$0	\$0	\$0	\$0	\$98,500

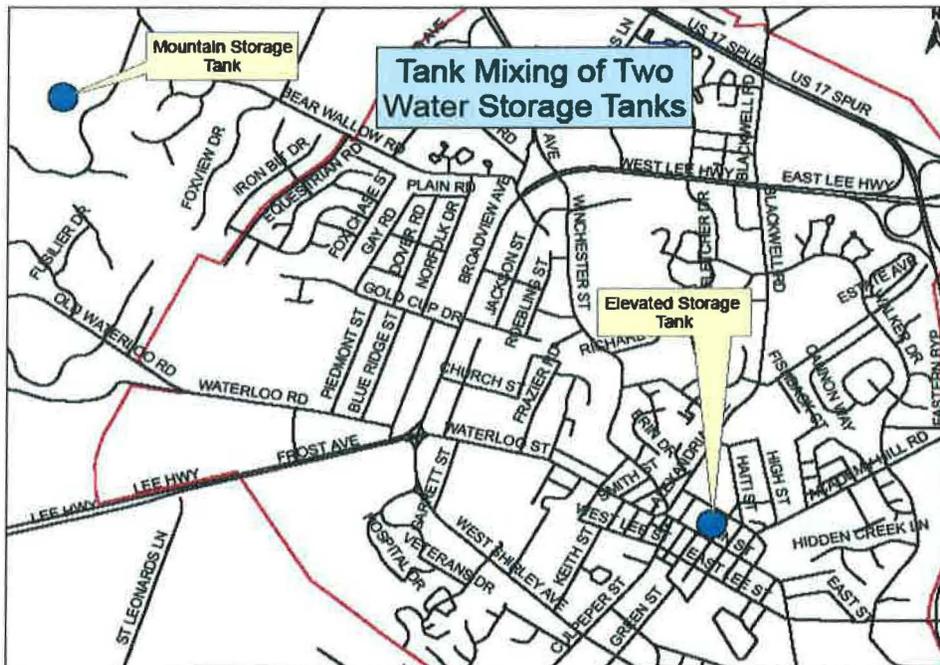
**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Description: The project is the second phase of the project initiated in FY15 to install mixer, aeration and ventilation systems in the two drinking water storage tanks. The project provides active mixing of the water with spray aeration and tank ventilation to remove trihalomethanes (THM).

The funding covers the balance of a 2-year funding program. Work was completed in December 2015.

Project Justification: THMs are precursors to the potential formation of carcinogenic compounds in the distribution system. The Virginia Department of Health (VDH) requires quarterly sampling and the Town began to see elevated levels in the sampling and for the 3rd quarter 2014; two locations exceeded the limit of 80, but did not violate for the year. The VDH required an assessment of the complete system to address the problem and the mixing and air stripping of THMs in the storage tanks was deemed the most practical and efficient solution

If not addressed, the Town would be in violation with VDH.



TOWN OF WARRENTON, VIRGINIA
 CAPITAL IMPROVEMENTS PROGRAM
 FISCAL YEARS 2017-2022

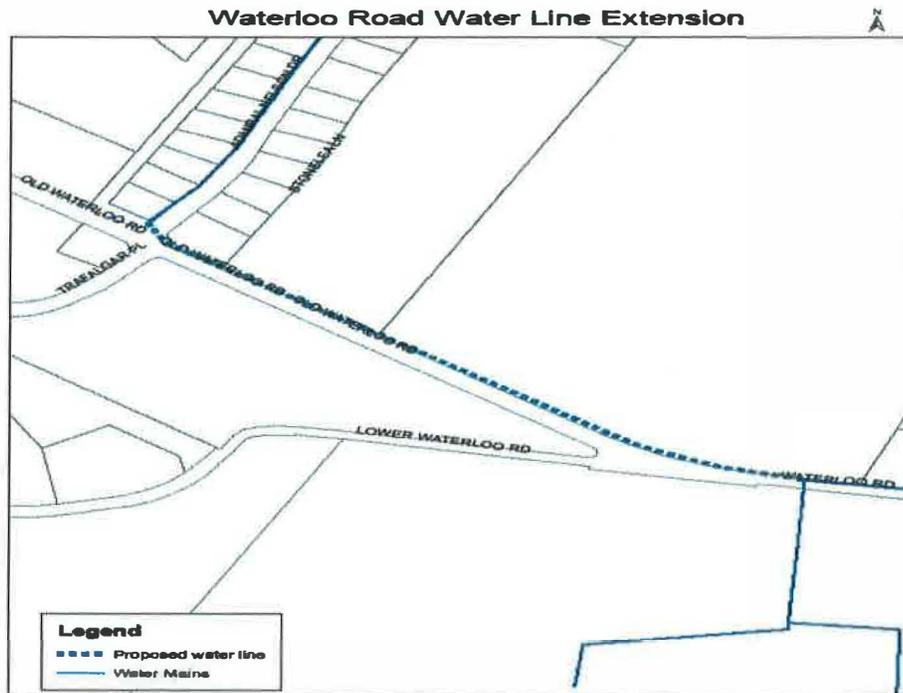
Project Number: UD-17-006	Project Title: Extension of Waterline - Waterloo Road					Department: Utilities	
<u>Estimated Cost:</u>	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>
Prior Authorization							
Land Acquisition							\$0
Architecture/Engineering							\$0
Construction	\$73,500						\$73,500
TOTAL	\$73,500	\$0	\$0	\$0	\$0	\$0	\$73,500
<u>Funding Sources:</u>							
General Fund							\$0
Enterprise Fund							\$0
Other (Utilities Revenues)	\$73,500						\$73,500
TOTAL	\$73,500	\$0	\$0	\$0	\$0	\$0	\$73,500

**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
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Project Description: Installation of approximately 1,050 linear feet of 8" ductile iron water main along Old Waterloo Road from the western corporate limits to the WARF Entrance. Project is programmed for installation by town utility staff.

Estimated Cost: 1,050 LF @ \$70/LF = \$73,500

Project Justification: The proposed waterline provides the last missing section from the mountain storage tank to the existing line at the WARF. This completes a loop of the western portion of the water system providing redundancy for service in that area and better circulation for water quality.



TOWN OF WARRENTON, VIRGINIA
 CAPITAL IMPROVEMENTS PROGRAM
 FISCAL YEARS 2017-2022

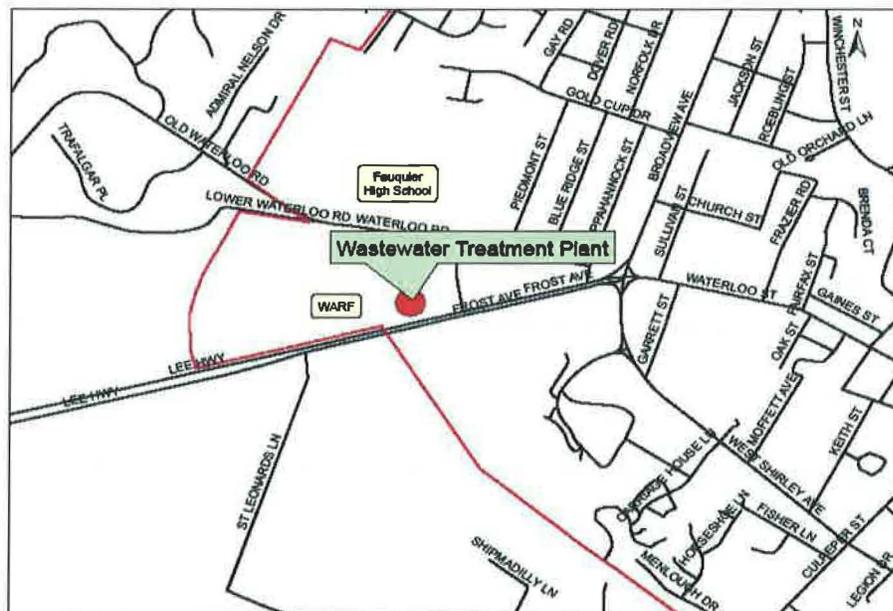
Project Number: UD-17-007	Project Title: Additional WWTP Upgrades (RBC Replacement)					Department: Utilities	
<u>Estimated Cost:</u>	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>
Prior Authorization							
Land Acquisition							\$0
Architecture/Engineering	\$175,000						\$175,000
Construction		\$1,350,000	\$3,350,000	\$750,000			\$5,450,000
TOTAL	\$175,000	\$1,350,000	\$3,350,000	\$750,000	\$0	\$0	\$5,625,000
<u>Funding Sources:</u>							
General Fund							\$0
Enterprise Fund							\$0
Other (Utilities Revenue)	\$175,000	\$1,350,000	\$3,350,000	\$750,000			\$5,625,000
TOTAL	\$175,000	\$1,350,000	\$3,350,000	\$750,000	\$0	\$0	\$5,625,000

**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
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Project Description: The project consists of the replacement of the original installed equipment Rotating Biological Contactors (RBC) with the next generation Moving Bed Biological Reactor (MBBR) to enhance treatment of biological oxygen demand (BOD) and pre-denitrification. The project is to be phased over 3-4 years in order to maintain treatment operations as follows:

FY17 - Preliminary Design	\$175,000
FY18 - Final Design and DEQ approval; initiation of construction	\$1,350,000
FY19 - Major construction effort, coordinated with treatment operations	\$3,350,000
FY20 - Construction completion and DEQ approval for operation	\$750,000

Project Justification: The RBCs process consists of twenty-one (21) treatment trains. Three trains were original equipment to the 1957 plant with the other eighteen (18) installed in the 1985 upgrade. Most of the process equipment is at or within three (3) years of its design life. Component failures are being experienced on a regular basis with failures to the bio film plates, support connector rods, main shaft bearings and rotator shafts. Without the component functioning as designed, the plant will be unable to meet the DEQ permit standards for treatment and be in violation. The RBCs function to remove BOD, ammonia and pre-denitrification.



**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
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Project Number: UD-17-008	Project Title: Additional WWTP Upgrades (Trickling Filter)					Department: Utilities	
<u>Estimated Cost:</u>	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>
Prior Authorization							
Land Acquisition							\$0
Architecture/Engineering	\$35,000						\$35,000
Construction		\$175,000					\$175,000
TOTAL	\$35,000	\$175,000	\$0	\$0	\$0	\$0	\$210,000
<u>Funding Sources:</u>							
General Fund							\$0
Enterprise Fund							\$0
Other (Utilities Revenue)	\$35,000	\$175,000					\$210,000
TOTAL	\$35,000	\$175,000	\$0	\$0	\$0	\$0	\$210,000

TOWN OF WARRENTON, VIRGINIA
 CAPITAL IMPROVEMENTS PROGRAM
 FISCAL YEARS 2017-2022

Project Number: UD-18-001	Project Title: Sludge Collection Clarifier Replacement					Department: Utilities	
<u>Estimated Cost:</u>	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>
Prior Authorization							
Land Acquisition							\$0
Architecture/Engineering							\$0
Construction		\$34,500	\$60,000	\$60,000			\$154,500
TOTAL	\$0	\$34,500	\$60,000	\$60,000	\$0	\$0	\$154,500
<u>Funding Sources:</u>							
General Fund							\$0
Enterprise Fund							\$0
Other (Utilities Revenue)		\$34,500	\$60,000	\$60,000			\$154,500
TOTAL	\$0	\$34,500	\$60,000	\$60,000	\$0	\$0	\$154,500

**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Description: Replacement of the original internal sludge collection system components to the primary and secondary clarifiers. Starting in FY18, one clarifier collection system is proposed to be replaced per year for three (3) years.

Project Justification: The internal sludge collection system for the clarifiers are original equipment (25 years old). The harsh environment has deteriorated the support arms, skimmers and weir plates to the point that replacement is needed to function properly. Spot welding is required on a regular basis to maintain operation.

Sludge removal from the waste stream is one of the most critical functions for sewage treatment.



TOWN OF WARRENTON, VIRGINIA
 CAPITAL IMPROVEMENTS PROGRAM
 FISCAL YEARS 2017-2022

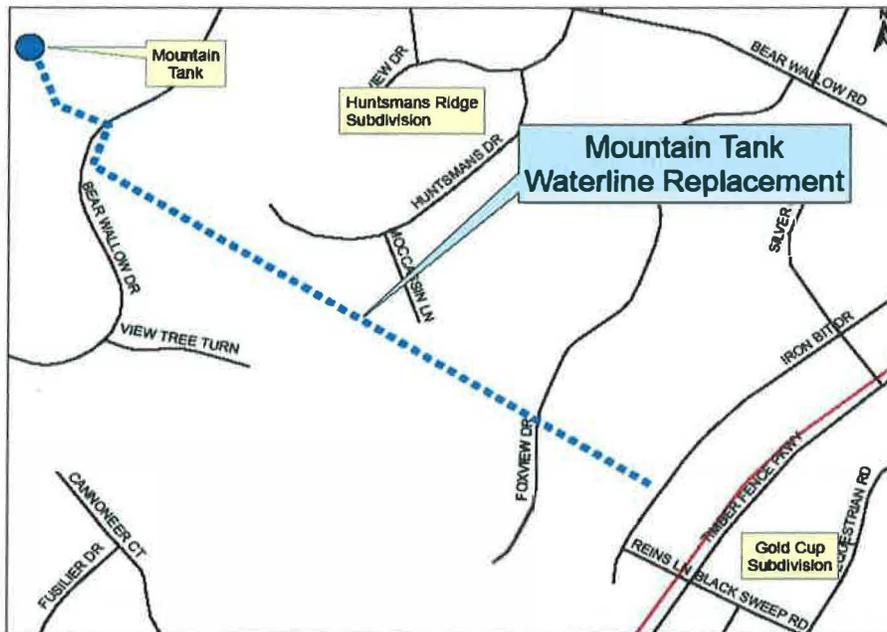
Project Number: UD-18-002	Project Title: Mountain Tank Waterline Replacement					Department: Utilities	
<u>Estimated Cost:</u>	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>
Prior Authorization							
Land Acquisition							\$0
Architecture/Engineering							\$0
Construction		\$217,000					\$217,000
TOTAL	\$0	\$217,000	\$0	\$0	\$0	\$0	\$217,000
<u>Funding Sources:</u>							
General Fund							\$0
Enterprise Fund							\$0
Other (Utilities Revenue)		\$217,000					\$217,000
TOTAL	\$0	\$217,000	\$0	\$0	\$0	\$0	\$217,000

**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Description: Replacement of 1,728 feet of 8-inch cast iron water line from the Town's Mountain Storage Tank to Silver Cup Development.

1,728 lf @ \$85/lf	=	\$147,000
Lawn restorations	=	\$8,500
Pavement Repairs	=	\$7,500
	=	\$163,000
15% Contingency	+	\$32,600
Total	=	\$195,600

Project Justification: Present waterline is outdated cast iron pipe, which has averaged a break every two to three years. Waterline is to be replaced with new ductile iron pipe, which is more reliable and has a longer life. This line is the major feed line from the 2 MG mountain tank. The construction of the Gold Cup and Silver Cup developments have replaced 1,827 feet of the original 4,318 feet of the line at the developer's expense. An additional 772 feet was replaced by Town staff in coordination with the Huntsman Ridge Development. This project will complete the replacement from the tank to Gold Cup Drive into Town, adding reliability to the water system from the mountain tank to the western area of Town.



TOWN OF WARRENTON, VIRGINIA
 CAPITAL IMPROVEMENTS PROGRAM
 FISCAL YEARS 2017-2022

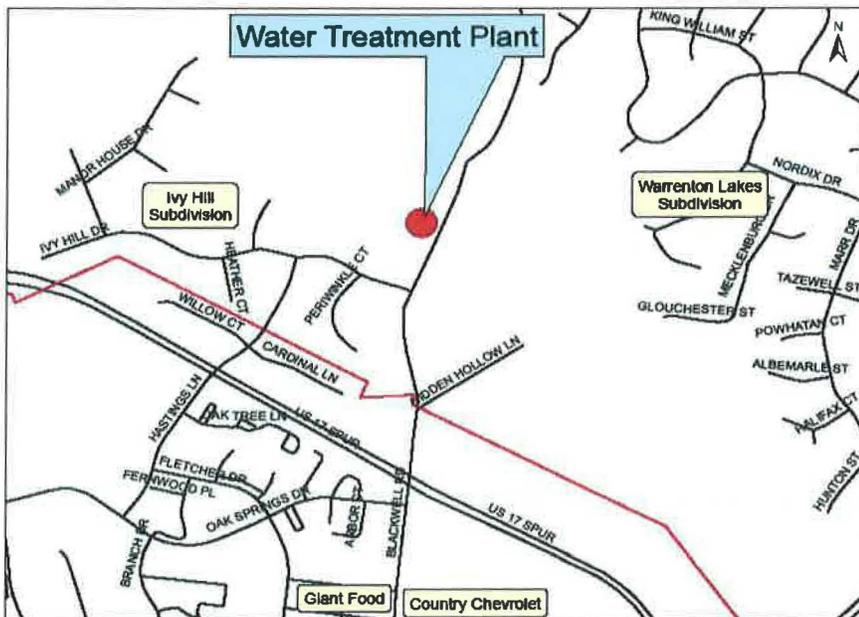
Project Number: UD-18-003	Project Title: Vehicle Replacement - WTP					Department: Utilities	
<u>Estimated Cost:</u>	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>
Prior Authorization							
Land Acquisition							\$0
Architecture/Engineering							\$0
Construction		\$25,000					\$25,000
TOTAL	\$0	\$25,000	\$0	\$0	\$0	\$0	\$25,000
<u>Funding Sources:</u>							
General Fund							\$0
Enterprise Fund							\$0
Other (Utilities Revenue)		\$25,000					\$25,000
TOTAL	\$0	\$25,000	\$0	\$0	\$0	\$0	\$25,000

TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022

Project Description: Placeholder for replacement of one of the WTP pickup trucks.

The truck will be used to conduct daily inspections of the wells, pump stations and distribution runs to Town Hall. Weekly, the truck is used to check the condition of the Warrenton and Airlie Reservoirs/Dams.

Project Justification: The actual replacement of the vehicle will be contingent on the condition and mileage of the vehicle in October 2016/17. Mileage, repair records and general condition will be evaluated prior to actual purchase.



TOWN OF WARRENTON, VIRGINIA
 CAPITAL IMPROVEMENTS PROGRAM
 FISCAL YEARS 2017-2022

Project Number: UD-19-001	Project Title: Rady Park Pump Station					Department: Utilities	
<u>Estimated Cost:</u>	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>
Prior Authorization							
Land Acquisition							\$0
Architecture/Engineering			\$45,000				\$45,000
Construction				\$725,000			\$725,000
TOTAL	\$0	\$0	\$0	\$725,000	\$0	\$0	\$770,000
<u>Funding Sources:</u>							
General Fund							\$0
Enterprise Fund							\$0
Other (Utilities Revenue)			\$45,000	\$725,000			\$770,000
TOTAL	\$0	\$0	\$45,000	\$725,000	\$0	\$0	\$770,000

**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

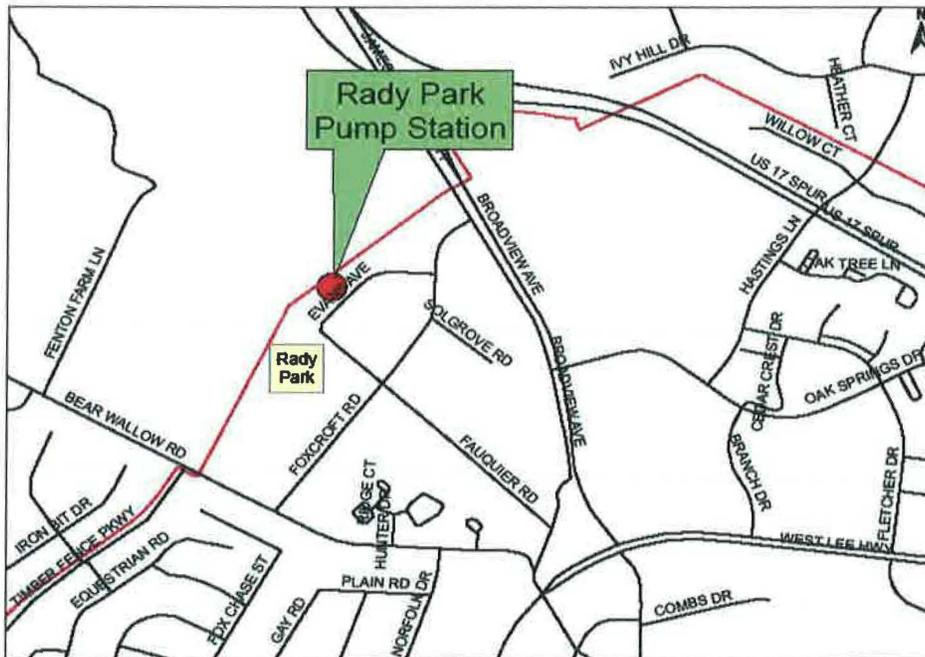
Project Description: Upgrade of the Rady Park Pump Station with architectural features to compliment the park setting (brick/stone veneer) and a gable roof.

FY19 Design Update	=	\$45,000
FY20 Package Pump Station with Backup Generator	=	\$725,000
Total	=	\$770,000

The existing station is primarily underground (thus referenced as a submarine station) and more difficult to maintain and service. The proposed station will have a new wet well and prefab building to house controls and electrical components.

Project Justification: The existing pump station was built in 1965 to serve approximately thirty-five homes on the northwestern portion of the Town with the original capacity of 100 gallons per minute. With the Gold Cup and Silver Cup developments and the still pending Fletcherville addition, the pump station needs to be upgraded to increase capacity and reliability. Due to age, the wet well is severely deteriorated and subject to surface and groundwater intrusion.

Should the station fail, the Town will be in violation with the Department of Environmental Quality.



TOWN OF WARRENTON, VIRGINIA
 CAPITAL IMPROVEMENTS PROGRAM
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Project Number: UD-19-002	Project Title: Additional Storage Tank/Clearwell at WTP					Department: Utilities	
<u>Estimated Cost:</u>	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>
Prior Authorization							
Land Acquisition							\$0
Architecture/Engineering			\$85,000				\$85,000
Construction				\$450,000	\$550,000		\$1,000,000
TOTAL	\$0	\$0	\$85,000	\$450,000	\$550,000	\$0	\$1,085,000
<u>Funding Sources:</u>							
General Fund							\$0
Enterprise Fund							\$0
Other (Utilities Revenue)			\$85,000	\$450,000	\$550,000		\$1,085,000
TOTAL	\$0	\$0	\$85,000	\$450,000	\$550,000	\$0	\$1,085,000

**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

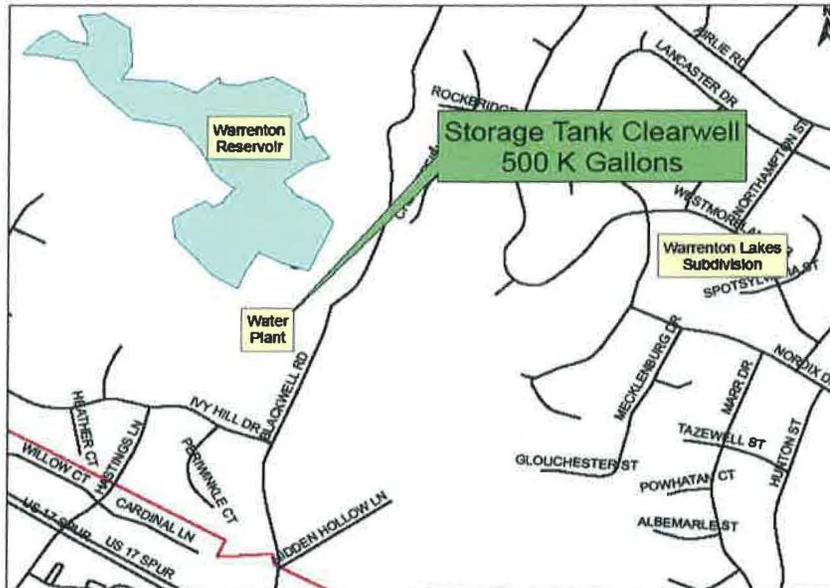
Project Description: Install a 500,000 gallon combination clearwell/storage tank. The tank will be constructed on the Water Plant site and aid in the treatment process and provide additional storage.

FY19 Engineering	\$85,000
FY20/21 Construction	\$1,000,000
Total	\$1,085,000

Project Justification: The chlorine contact time needs to be increased to meet the DEQ requirement at full plant operating capacity. The increased clearwell size will allow greater storage capacity for fire reserve and to supplement peak demand times. A larger clearwell will be used in lieu of an additional storage tank in the distribution system.

This tank will be finish water storage with pump controls linked to the distribution storage tank which will allow for providing additional water to the tanks without operating the plant.

The Tank Mixing project (UD-17-005) is to address current THM issues, but future THM and HAAC issues will need to be addressed at the Plant with the larger clearwell so that chlorine injection (for disinfection) can be moved from the head of the flocculation to the post sedimentation.



TOWN OF WARRENTON, VIRGINIA
 CAPITAL IMPROVEMENTS PROGRAM
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Project Number: UD-19-003	Project Title: Cedar Run Basin Pump Sta.- Lagoon Expansion					Department: Utilities	
<u>Estimated Cost:</u>	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>
Prior Authorization							
Land Acquisition							\$0
Architecture/Engineering			\$50,000				\$50,000
Construction				\$200,000			\$200,000
TOTAL	\$0	\$0	\$50,000	\$200,000	\$0	\$0	\$250,000
<u>Funding Sources:</u>							
General Fund							\$0
Enterprise Fund							\$0
Other (Utilities Revenue)			\$50,000	\$200,000			\$250,000
TOTAL	\$0	\$0	\$50,000	\$200,000	\$0	\$0	\$250,000

TOWN OF WARRENTON, VIRGINIA
 CAPITAL IMPROVEMENTS PROGRAM
 FISCAL YEARS 2017-2022

Project Number: UD-19-004	Project Title: Blackwell Road Waterline Extension					Department: Utilities	
<u>Estimated Cost:</u>	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>
Prior Authorization							
Land Acquisition							\$0
Architecture/Engineering							\$0
Construction			\$196,350				\$196,350
TOTAL	\$0	\$0	\$196,350	\$0	\$0	\$0	\$196,350
<u>Funding Sources:</u>							
General Fund							\$0
Enterprise Fund							\$0
Other (Utilities Revenue)			\$196,350				\$196,350
TOTAL	\$0	\$0	\$196,350	\$0	\$0	\$0	\$196,350

**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
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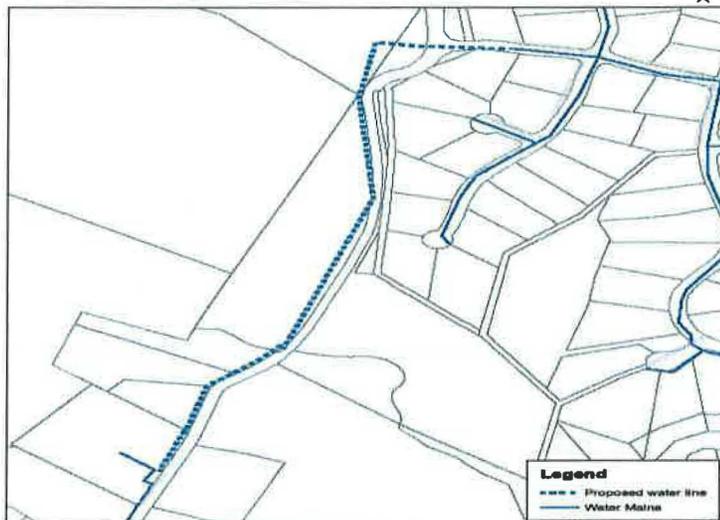
Project Description: This project involves the extension of a 12-inch ductile iron pipe water line from the Water Treatment Plant along Blackwell Road to the Town's existing water line in Warrenton Lakes.

1300 lf @ \$100	=	\$130,000
4 fire hydrants @1500	=	\$6,000
Stream Crossing (Environmental Issues)	=	\$15,000
Pavement Restoration	=	\$7,000
Clearing of Easement	=	\$5,500
Rock excavation	=	\$10,000
Restoration of fences (r/w, etc.)	=	<u>\$5,000</u>
	=	\$178,500
10% Contingency	+	<u>\$17,850</u>
Total	=	\$196,350

The work requires an easement across private property, which has been an obstacle, but should be resolved by FY17.

Project Justification: This would loop the water supply to the Warrenton Lakes Subdivision. A looped system improves water quality and reliability. Presently, Warrenton Lakes has only one supply feed from the Town's water supply network. The present well only supplies a minor portion of the water supply. With a looped system, water service would continue to be provided in case of an emergency break on the main service line. The present single water line into Warrenton Lakes is the only conduit for supply and pressure relief for Warrenton Lakes and when shut off, isolates the area from the Town's two water tanks for relief points from pressure spikes. With a main break on Lee Highway, Warrenton Lakes residents experience severe low pressure problems and possible complete loss of water service to some customers. Warrenton Lakes represents 15% of the Town's water customers. Well #6 in the Warrenton Lakes area is a low production well providing only 12% of the water demand of the subdivision.

Blackwell Road Water Line Extension



TOWN OF WARRENTON, VIRGINIA
 CAPITAL IMPROVEMENTS PROGRAM
 FISCAL YEARS 2017-2022

Project Number: UD-19-005	Project Title: Admin. Vehicle					Department: Utilities	
<u>Estimated Cost:</u>	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>
Prior Authorization							
Land Acquisition							\$0
Architecture/Engineering			\$27,000				\$27,000
Construction							\$0
TOTAL	\$0	\$0	\$27,000	\$0	\$0	\$0	\$27,000
<u>Funding Sources:</u>							
General Fund							\$0
Enterprise Fund							\$0
Other (Utilities Revenue)			\$27,000				\$27,000
TOTAL	\$0	\$0	\$27,000	\$0	\$0	\$0	\$27,000

TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022

Project Description: Replacement of pickup #44 (Utility Technician's vehicle) with a replacement truck.

Project Justification: Vehicle #44 is a 2000 Chevrolet which will be 19 years old in 2019 and in need of replacement due to deteriorated body and frame.

TOWN OF WARRENTON, VIRGINIA
 CAPITAL IMPROVEMENTS PROGRAM
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Project Number: UD-20-001	Project Title: Well #4 Activation					Department: Utilities	
Estimated Cost:	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>
Prior Authorization							
Land Acquisition							\$0
Architecture/Engineering				\$35,000			\$35,000
Construction					\$175,000		\$175,000
TOTAL	\$0	\$0	\$0	\$35,000	\$175,000	\$0	\$210,000
Funding Sources:							
General Fund							\$0
Enterprise Fund							\$0
Other (Utilities Revenue)				\$35,000	\$175,000		\$210,000
TOTAL	\$0	\$0	\$0	\$35,000	\$175,000	\$0	\$210,000

**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

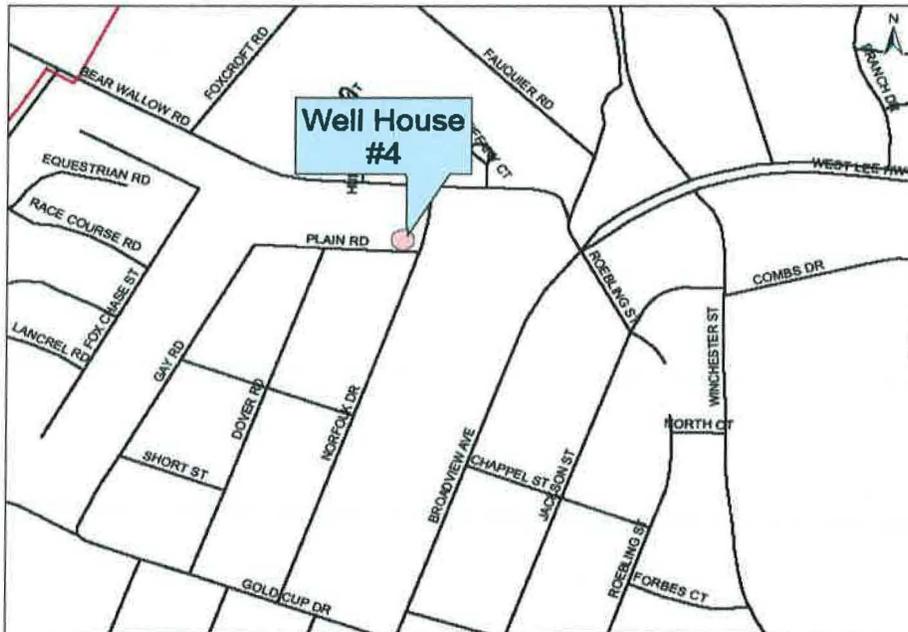
Project Description: Project includes the installation of new pumps and treatment process to meet Virginia Department of Health Drinking Water Standards. Existing well house will be demolished and replaced to house the new treatment system.

FY20 Final Design & VDH Approval	\$35,000
FY21 Construction	\$175,000.00

Project Justification: The existing well cannot be used in its current condition to meet current standard well criteria by VDH. Results of preliminary design and testing has been promising with all indications that the well can be brought back into service economically.

The project has been deferred since FY13 while staff and VDH resolved technical treatment issues and an alternative pumping to reservoir scenario.

The reactivation of this well along with Well #3, places water commitments to capacity at 71% in the 2015 update to the Water and Sewer Capacity Study by Whitman Reardon & Associates. The additional availability fees from the Arrington Property Agreement are better used in Well #3 & #4 reactivation than the proposed development well site.



TOWN OF WARRENTON, VIRGINIA
 CAPITAL IMPROVEMENTS PROGRAM
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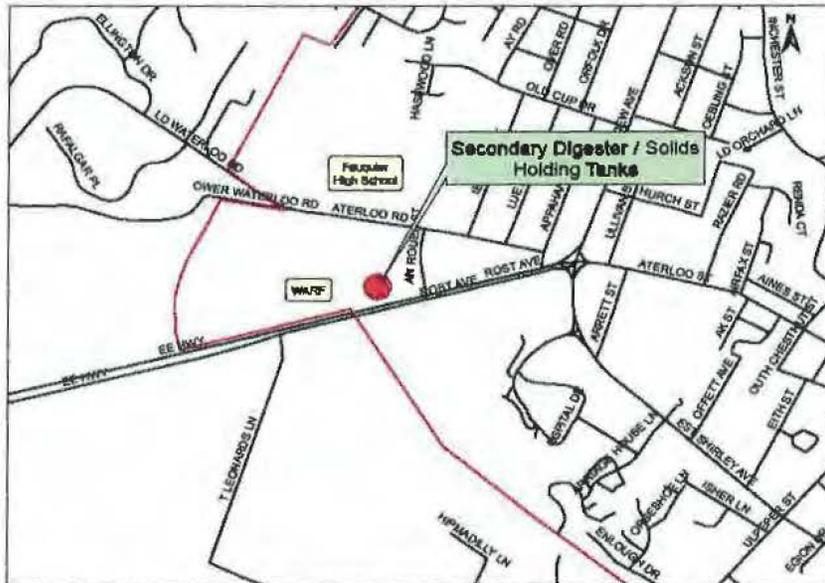
Project Number: UD-20-002	Project Title: Secondary Digester/Solids Holding Tanks					Department: Utilities	
<u>Estimated Cost:</u>	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>
Prior Authorization							
Land Acquisition							\$0
Architecture/Engineering				\$100,000			\$100,000
Construction					\$850,000		\$850,000
TOTAL	\$0	\$0	\$0	\$100,000	\$850,000	\$0	\$950,000
<u>Funding Sources:</u>							
General Fund							\$0
Enterprise Fund							\$0
Other (Utilities Revenue)				\$100,000	\$850,000		\$950,000
TOTAL	\$0	\$0	\$0	\$100,000	\$850,000	\$0	\$950,000

**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Description: Construction of a second 150,000-200,000 gallon sludge holding tank to allow the current secondary digester to be used as a digester. In addition to the new holding tank, the existing tank will need to be upgraded with mixing, heating and other necessary retrofits to fully function as a digester.

Project Justification: Thickened sludge is currently digested/stabilized in the existing Anaerobic Digester No. 1. Digester No. 2 is used for sludge holding and no mixing and heating is provided. The solids concentration in #1 is typically 1-2.5%. The digesters require adequate capacity to meet the sludge stabilization requirements (EPA Part 503), i.e. solids retention time (SRT) of 15 days and a volatile solids reduction of 38% or greater. At the projected sludge quantities and typical volatile solids loading rates when the plant approaches 2.2 - 2.5 mgd, it is anticipated that Digester No. 2 will need to be in service to meet the sludge stabilization requirements. Therefore, upgrades including mixing, heating and other necessary retrofit are required for Digester No. 2 along with a new sludge holding tank.

The sludge processing operation is one of the most critical functions in treating wastewater and can very quickly disrupt the treatment process and put the plant in violation with DEQ.



TOWN OF WARRENTON, VIRGINIA
 CAPITAL IMPROVEMENTS PROGRAM
 FISCAL YEARS 2017-2022

Project Number: UD-20-003	Project Title: Replacement Jet-Vac Truck					Department: Utilities		
<u>Estimated Cost:</u>	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>	
Prior Authorization								
Land Acquisition							\$0	
Architecture/Engineering							\$0	
Construction				\$230,000			\$230,000	
TOTAL	\$0	\$0	\$0	\$230,000	\$0	\$0	\$230,000	
<u>Funding Sources:</u>								
General Fund							\$0	
Enterprise Fund							\$0	
Other (Utilities Revenue)				\$230,000			\$230,000	
TOTAL	\$0	\$0	\$0	\$230,000	\$0	\$0	\$230,000	

TOWN OF WARRENTON, VIRGINIA
 CAPITAL IMPROVEMENTS PROGRAM
 FISCAL YEARS 2017-2022

Project Number: UD-20-004	Project Title: Extension of Waterline - Old Meetze Road					Department: Utilities	
<u>Estimated Cost:</u>	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>
Prior Authorization							
Land Acquisition							\$0
Architecture/Engineering							\$0
Construction				\$116,042			\$116,042
TOTAL	\$0	\$0	\$0	\$116,042	\$0	\$0	\$116,042
<u>Funding Sources:</u>							
General Fund							\$0
Enterprise Fund							\$0
Other (Utilities Revenues)				\$116,042			\$116,042
TOTAL	\$0	\$0	\$0	\$116,042	\$0	\$0	\$116,042

**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Description: Install approximately 1,600 feet of 8-inch water line along Old Meetze Road from the termination of the existing line to the end of the cul-de-sac.

974 lf @ \$70	=	\$68,180
7 services @\$1,000	=	\$7,000
3 Fire Hydrants	=	\$3,000
Pavement repair - 649/sy @ \$35/sy	=	<u>\$22,726</u>
	=	\$100,906
15% Contingency	+	<u>15,135</u>
Total	=	\$116,042

Project Justification: The installation of the line will provide water service to a portion of the Town that was brought into Town under the 1992 boundary line adjustment. The line will also serve as a loop for a future line to be installed by the developer of the Hanback property with the Monroe Estates project. Currently, there is no water or sewer service to this area and under drought conditions resident's wells and drainfields are subject to failure. There have been several discussions with residents in this area regarding this project during the past year.

*The project is currently a placeholder pending the development of the Wire Rope property, which potentially could include the line installed by a developer.



TOWN OF WARRENTON, VIRGINIA
 CAPITAL IMPROVEMENTS PROGRAM
 FISCAL YEARS 2017-2022

Project Number: UD-20-005	Project Title: Reliability Measures, WTP					Department: Utilities	
<u>Estimated Cost:</u>	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>
Prior Authorization							
Land Acquisition							\$0
Architecture/Engineering				\$79,000			\$79,000
Construction					\$763,200		\$763,200
TOTAL	\$0	\$0	\$0	\$0	\$763,200	\$0	\$842,200
<u>Funding Sources:</u>							
General Fund							\$0
Enterprise Fund							\$0
Other (Utilities Revenue)				\$79,000	\$763,200		\$842,200
TOTAL	\$0	\$0	\$0	\$79,000	\$763,200	\$0	\$842,200

**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Description: Long term reliability and operational improvements to the Water Treatment Plant during the time period of 2020 to 2025. Improvements are beyond the previously programmed Phase I & II Program improvements to increase capacity and consist of the following:

FY20 Design	\$79,000
Flocculation basins: Provide VFD for second unit, add baffles	= \$100,000
Filters: Provide electric rate control valves	= \$150,000
Filters: Replace hydraulic valves with electric valves	= \$200,000
Instrumentation: Replace pulse type transmitters	= \$40,000
Coagulant Feed System: Miscellaneous upgrades	= \$60,000
Fluoride System: Miscellaneous upgrades	= \$30,000
Clearwell: Add baffles to minimize short-circuiting and improve disinfection performance	= <u>\$56,000</u>
Subtotal	\$636,000
20% Contingency	+ <u>\$127,200</u>
TOTAL	= \$763,200

Project Justification: These improvements to the Water Treatment Plant were identified during the Program Capacity Upgrade Study performed by Whitman Requardt & Associates in 2002. With the plant capacity increase from the current 2.0 mgd to 3.4 mgd at the completion of the Phase II Capacity Upgrade, this project addresses long-term reliability and operations improvements during the 2020-2025 timeframe and extends the plant operational life to beyond 2025.



TOWN OF WARRENTON, VIRGINIA
 CAPITAL IMPROVEMENTS PROGRAM
 FISCAL YEARS 2017-2022

Project Number: UD-21-001	Project Title: Warrenton Reservoir Dam Improvements					Department: Utilities		
Estimated Cost:	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>	
Prior Authorization								
Land Acquisition								\$0
Architecture/Engineering/Studies					\$250,000	\$250,000		\$500,000
Construction						\$4,500,000		\$4,500,000
TOTAL	\$0	\$0	\$0	\$0	\$250,000	\$4,750,000		\$5,000,000
<u>Funding Sources:</u>								
General Fund								\$0
Enterprise Fund								\$0
Other (Utilities Revenue)					\$250,000	\$4,750,000		\$5,000,000
TOTAL	\$0	\$0	\$0	\$0	\$250,000	\$4,750,000		\$5,000,000

TOWN OF WARRENTON, VIRGINIA
 CAPITAL IMPROVEMENTS PROGRAM
 FISCAL YEARS 2017-2022

Project Number: UD-21-002	Project Title: Waterline Replacement - Rappahannock Street					Department: Utilities	
<u>Estimated Cost:</u>	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>
Prior Authorization							
Land Acquisition							\$0
Architecture/Engineering							\$0
Construction					\$142,500		\$142,500
TOTAL	\$0	\$0	\$0	\$0	\$142,500	\$0	\$142,500
<u>Funding Sources:</u>							
General Fund							\$0
Enterprise Fund							\$0
Other (Utilities Revenue)					\$142,500		\$142,500
TOTAL	\$0	\$0	\$0	\$0	\$142,500	\$0	\$142,500

TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022

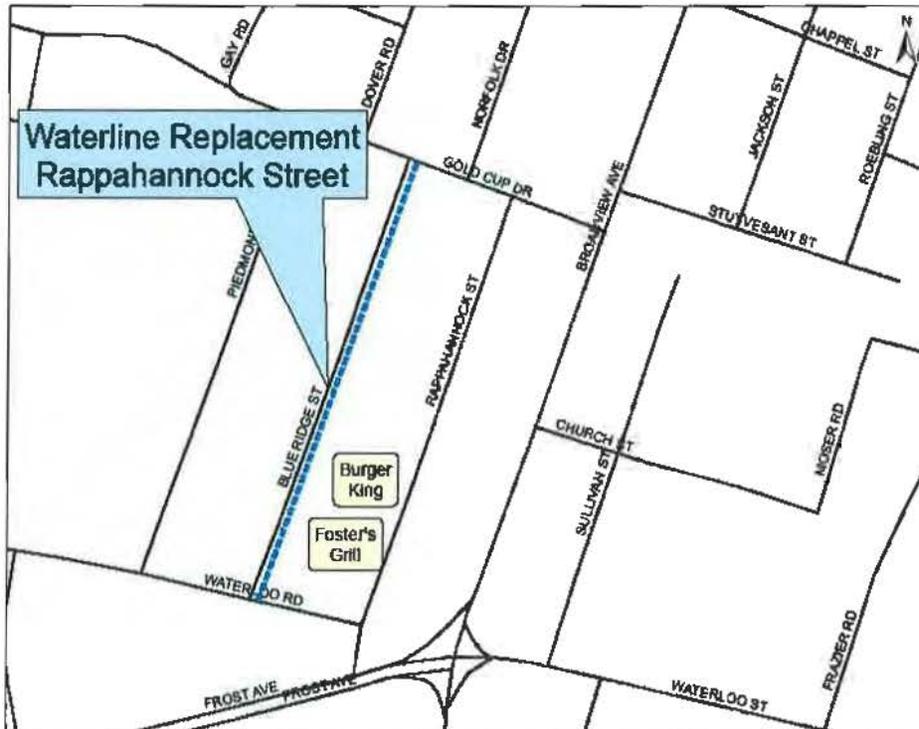
Project Description: Replacement of existing 8-inch cast iron water main in Rappahannock Street with ductile iron pipe.

1900 L.F. 8" DI Pipe @ \$75/lf = \$142,500

(estimate based on using Town forces, Trans & Distribution Staff).

Project Justification: During the past several years, the watermain has experienced two breaks in the line due to age and brittle nature of cast iron. There are 17 residences and 13 businesses (on Broadview Avenue) that are served by the line and have service disrupted with each repair.

Depending on the number of breaks experienced in the near future, the replacement may be accelerated or deferred.



TOWN OF WARRENTON, VIRGINIA
 CAPITAL IMPROVEMENTS PROGRAM
 FISCAL YEARS 2017-2022

Project Number: UD-22-001	Project Title: WWTP Hydraulics					Department: Utilities		
Estimated Cost:	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>	
Prior Authorization								
Land Acquisition								\$0
Architecture/Engineering								\$0
Construction						\$250,000		\$250,000
TOTAL	\$0	\$0	\$0	\$0	\$0	\$250,000		\$250,000
Funding Sources:								
General Fund								\$0
Enterprise Fund								\$0
Other (Utilities Revenues)						\$250,000		\$250,000
TOTAL	\$0	\$0	\$0	\$0	\$0	\$250,000		\$250,000

TOWN OF WARRENTON, VIRGINIA
 CAPITAL IMPROVEMENTS PROGRAM
 FISCAL YEARS 2017-2022

Project Number: UD-22-002	Project Title: Waterline Replacement					Department: Utilities		
<u>Estimated Cost:</u>	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>	
Prior Authorization								
Land Acquisition								\$0
Architecture/Engineering								\$0
Construction						\$150,000		\$150,000
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$150,000	\$150,000
<u>Funding Sources:</u>								
General Fund								\$0
Enterprise Fund								\$0
Other (Utilities Revenues)						\$150,000		\$150,000
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$150,000	\$150,000

**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Description:

This is the first of a multi-year waterline replacement program to replace the older cast iron water mains with ductile iron pipe.

Project Justification:

The Town's water distribution system has 18 miles of cast iron (C.I.) pipe ranging in age from 40-80+ years. Although C.I. is serviceable beyond 80 years, staff will evaluate and schedule for replacement problematic sections of the system that are experiencing increasing breaks and maintenance requirements.

TOWN OF WARRENTON, VIRGINIA
 CAPITAL IMPROVEMENTS PROGRAM
 FISCAL YEARS 2017-2022

Project Number:	PW-17-001	Project Title: VDOT Urban - Broadview Avenue					Department: Public Works
Estimated Cost:	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>
Land Acquisition							\$0
Architecture/Engineering	\$10,000						\$10,000
Construction							\$0
TOTAL	\$10,000	\$0	\$0	\$0	\$0	\$0	\$10,000
Funding Sources:							
General Fund	\$10,000						\$10,000
Enterprise Fund							
TOTAL	\$10,000	\$0	\$0	\$0	\$0	\$0	\$10,000

**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Description:

Broadview Avenue project to improve safety and access management to businesses. The project is a VDOT Urban Project which is currently in the design phase. Raised medians, landscaping, stormwater management, pedestrian safety and evaluation for potential additional signalization along the corridors between Waterloo Street and Winchester Street intersection.

Design of Broadview Avenue based on current HNTB Study results.

The program amount represents the Town's small cost share of the programs.

Urban projects are funded with a 2% Town match.

FY17 Design	\$1,000,000 @ 2%	=	\$10,000.00
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Project Justification:

The project is the Town's primary priority with the VDOT Six-Year Improvement Plan with the current design effort being funded under the Urban Program at 2% cost share.

The project has been submitted for funding under House Bill 2 (HB2) program with a decision by June 2016. Absent HB2 funding, the Town will be pursuing other VDOT and local funding options.



TOWN OF WARRENTON, VIRGINIA
 CAPITAL IMPROVEMENTS PROGRAM
 FISCAL YEARS 2017-2022

Project Number:	PW-17-002	Project Title: Traffic Signal - Falmouth/Shirley Ave. - Rev. Sharing	Department: Public Works				
<u>Estimated Cost:</u>	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>
Land Acquisition							\$0
Architecture/Engineering							\$0
Construction	\$434,000 *						\$434,000
TOTAL	\$434,000	\$0	\$0	\$0	\$0	\$0	\$434,000
<u>Funding Sources:</u>							
General Fund	\$217,000						\$217,000
VDOT Funding	\$217,000						\$217,000
Enterprise Fund							
TOTAL	\$434,000	\$0	\$0	\$0	\$0	\$0	\$434,000
* 50% VDOT Revenue Sharing Cost Share							

TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022

Project Description:

Intersection Improvements, which include the installation of a traffic signal at the intersection of Falmouth Street and Shirley Avenue. The close proximity of this signal to the Culpeper Street and Alwington Boulevard signals will require this intersection to be coordinated with the existing signals. The intersection signalization will include pedestrian lights to aid in the safety of residents crossing the intersection to Walmart.

Project Justification:

The increased traffic along Shirley Avenue and Falmouth Street is projected to necessitate the installation of a traffic signal. Increased traffic along Shirley and Falmouth as predicted by various traffic studies warrant the need for signalization at the intersection. Traffic at the intersection will increase with the Warrenton Crossing with Williams Way as a connection with Lee Street and Walker Drive. Also in the works is potential development of the Wire Rope Property and along James Madison Highway leading into Town.

Project has been submitted to the 2017 VDOT Revenue Sharing Program for 50% funding match.



TOWN OF WARRENTON, VIRGINIA
 CAPITAL IMPROVEMENTS PROGRAM
 FISCAL YEARS 2017-2022

Project Number:	PW-17-003	Project Title: Parking Lot E Improvements					Department: Public Works
<u>Estimated Cost:</u>	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>
Land Acquisition							\$0
Architecture/Engineering							\$0
Construction	\$48,500						\$48,500
TOTAL	\$48,500	\$0	\$0	\$0	\$0	\$0	\$48,500
<u>Funding Sources:</u>							
General Fund	\$48,500						\$48,500
Enterprise Fund							
TOTAL	\$48,500	\$0	\$0	\$0	\$0	\$0	\$48,500

**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Description:

Improvements to Parking Lot E to include storm drainage and asphalt resurfacing to the NW quadrant of the lot. Additionally, pedestrian access to Horner Street via the installation of stairs from the upper northeastern level.

Concrete Stairs w/railing	\$7,500
Drainage:	
2 Inlets @ \$3500/ea.	\$7,000
140 LF Pipe @ \$100/LF	\$14,000
Asphalt	\$10,000
Misc. and Additional Concrete Work	<u>\$10,000</u>
 Total	 \$48,500

Project Justification:

In 2012, the upper portion of the lot was resurfaced. The lower western half required drainage improvements in addition to the resurfacing and the work was deferred. Recent vehicle and pedestrian issues require the lot to be resurfaced for a smooth walking and motoring surface.

Pedestrian access to Horner Street businesses is hampered by higher parking lot to street level and a centrally located stairway will provide a safe and efficient access from the lot the businesses.



TOWN OF WARRENTON, VIRGINIA
 CAPITAL IMPROVEMENTS PROGRAM
 FISCAL YEARS 2017-2022

Project Number:	PW-17-004	Project Title: E. Shirley Avenue/Cleveland Street Drainage				Department: Public Works	
Estimated Cost:	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>
Land Acquisition							\$0
Architecture/Engineering							\$0
Construction	\$125,400						\$125,400
TOTAL	\$125,400	\$0	\$0	\$0	\$0	\$0	\$125,400
Funding Sources:							
General Fund	\$125,400						\$125,400
Enterprise Fund							
TOTAL	\$125,400	\$0	\$0	\$0	\$0	\$0	\$125,400

**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Description:

This project upgrades the storm sewer pipes in the Cleveland Street and East Shirley Avenue area to be able to carry a 10-year frequency storm. Junction boxes and inlets are to be replaced to improve the hydraulic characteristics of the system.

Engineering	=	\$5,500
Mobilization	=	\$8,000
300 LF 48" RCP @ \$200/lf	=	\$60,000
2 Junction Boxes @ \$5500/ea	=	\$11,000
Utility Relocation	=	\$5,000
Pavement Restoration	=	\$6,000
Grading and Seeding	=	\$4,000
Traffic Control	=	<u>\$5,000</u>
Subtotal	=	\$104,500
20% Contingency	+	<u>\$20,900</u>
Total	=	\$125,400

Project Justification:

This is a major maintenance project to replace the aged corrugated metal drainage pipe with appropriately sized reinforced concrete pipe. The existing pipe is corroded and at the end of its design life. Reinforced concrete pipe will have a 50-75 year life expectancy.

A portion of the drainage system failed behind the Assembly of God Church during the 6-inches of rain storm in the summer of 2013 and a point repair was made as an interim measure.



TOWN OF WARRENTON, VIRGINIA
 CAPITAL IMPROVEMENTS PROGRAM
 FISCAL YEARS 2017-2022

Project Number:	PW-17-005	Project Title: Gold Cup Drive Sidewalk	Department: Public Works				
<u>Estimated Cost:</u>	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>
Land Acquisition							\$0
Architecture/Engineering	\$25,000						\$25,000
Construction		\$237,590					\$237,590
TOTAL	\$25,000	\$237,590	\$0	\$0	\$0	\$0	\$262,590
<u>Funding Sources:</u>							
General Fund	\$25,000	\$237,590					\$262,590
Enterprise Fund							
TOTAL	\$25,000	\$237,590	\$0	\$0	\$0	\$0	\$262,590

**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Description:

Construction of a five foot sidewalk on Gold Cup Drive from Gay Road intersection to Rappahannock Street. Project involves curbing drainage and 5 foot sidewalk on one side of the street.

Design (FY17)	\$25,000.00
<u>Construction (FY18)</u>	
Mobilization	\$5,000.00
Traffic Control	\$5,000.00
Curbing (1,450 lf. @ \$42/lf.)	\$60,900.00
Sidewalk (800 sy. @ \$55/sy.)	\$44,000.00
Drop Inlets, 7 @ \$2,000/ea.	\$14,000.00
Drain Pipe 880 lf. @ \$75	\$66,000.00
Grading and Seeding	\$5,000.00
Striping & Signage	\$2,000.00
Asphalt Restoration	\$5,000.00
Stormwater Management	<u>\$10,000.00</u>
Subtotal	\$216,900.00
10% Contingency	<u>\$20,690.00</u>
TOTAL	\$237,590.00

Project Justification:

Pedestrian access from the largest neighborhood in Town out to the recently completed pedestrian walkways on Broadview Avenue. There are no trails or sidewalks in that area, requiring pedestrians to walk in the street.



TOWN OF WARRENTON, VIRGINIA
 CAPITAL IMPROVEMENTS PROGRAM
 FISCAL YEARS 2017-2022

Project Number:	PW-17-006	Project Title: Truck Weigh Scale at the Town Shop				Department: Public Works	
Estimated Cost:	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>
Land Acquisition							\$0
Architecture/Engineering							\$0
Construction	\$70,000						\$70,000
TOTAL	\$70,000	\$0	\$0	\$0	\$0	\$0	\$70,000
Funding Sources:							
General Fund	\$70,000						\$70,000
Enterprise Fund							
TOTAL	\$70,000	\$0	\$0	\$0	\$0	\$0	\$70,000

**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Description: This project includes two improvements to Town facilities.

1) Installation of a certified truck weighing scale at the town shop for the primary purpose of accurate accounting of debris swept from the town's streets. Scale to be a permanent type with drive on-off sitting, minimum of 30-ton capability and automated readout for permanent records retention.

Estimated Cost: \$55,000.00

2) Stormwater and drainage improvements at the Town Shop (Bio swale, rain gardens and other nutrient reduction structures).

Estimated Cost \$15,000.00

Project Justification: 1) In 2014, the Town was designated as a Municipal Small Storm Sewer (MS4) community by DEQ and required to develop a Total Maximum Daily Load (TMDL) program to reduce nutrients and sediments from entering the storm sewer system. This program requires measureable actions to quantify the reductions. Pounds of street sweepings are a major portion of the Town's TMDL program and will require accurate measuring and accounting to withstand a DEQ audit for compliance. These scales, with data recording, will be the most critical and cost effective element to the program.

In achieving its goals, each pound of street sweeping is credited with the following:

- | | | |
|-----------------------|---|-------------------------------|
| 1 lb. Street Sweeping | = | 1 lb. Total Suspending Solids |
| 1 lb. Street Sweeping | = | 0.018 lb. Nitrogen |
| 1 lb. Street Sweeping | = | .007 lb. Phosphorus |

2) The stormwater/drainage features are needed to address BMP Measure #6, Municipal Housekeeping of the MS4 permit. Runoff from the operational activity in the parking/storage areas need to be addressed to reduce pollutants from leaving the site.



TOWN OF WARRENTON, VIRGINIA
 CAPITAL IMPROVEMENTS PROGRAM
 FISCAL YEARS 2017-2022

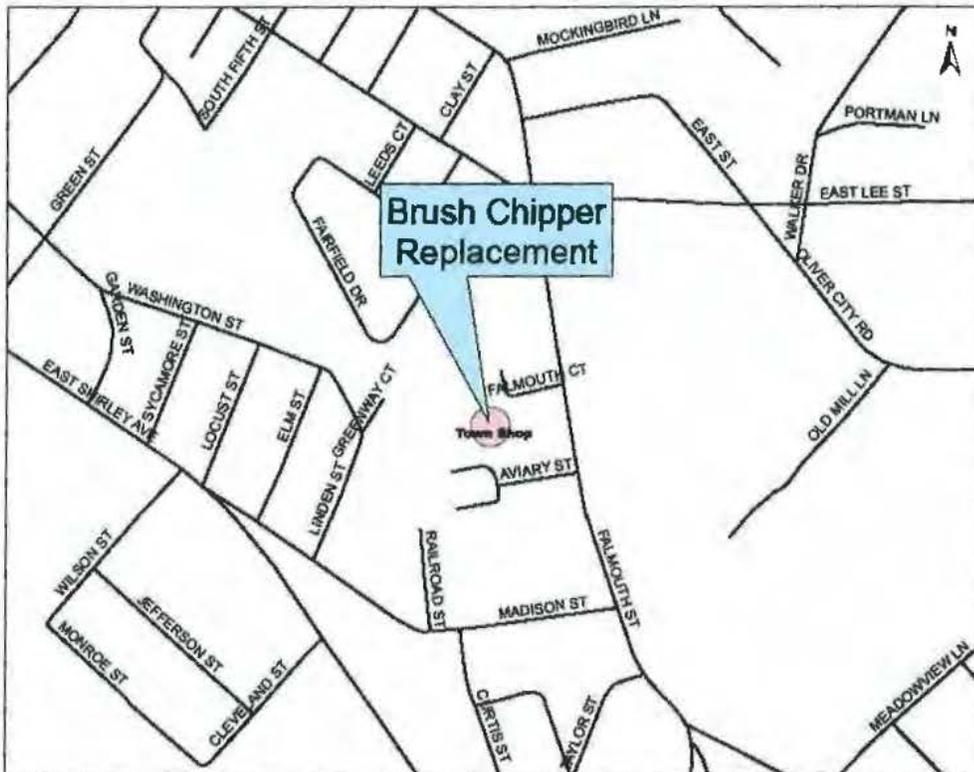
Project Number:	PW-17-007	Project Title: Brush Chipper Replacement				Department: Public Works	
<u>Estimated Cost:</u>	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>
Land Acquisition							\$0
Architecture/Engineering							\$0
Construction	\$42,000						\$42,000
TOTAL	\$42,000	\$0	\$0	\$0	\$0	\$0	\$42,000
<u>Funding Sources:</u>							
General Fund	\$42,000						\$42,000
VDOT							\$0
Enterprise Fund							
TOTAL	\$42,000	\$0	\$0	\$0	\$0	\$0	\$42,000

TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022

Project Description: Replacement of the existing brush chipper with an equivalent model to chip brush and logs up to 6 inches in diameter; chipper is to have at least 130 horse power.

Project Justification: The chipper is one of the most widely used pieces of equipment used daily (except for inclement weather) by public works staff. The chipping of brush is a valued service provided to the residents. The current chipper will be twelve (12) years old in 2017 and due for replacement in order to provide consistent service.

This equipment has become more critical with the landfill now charging citizens for brush brought to the landfill, translating to more brush for crews to chip and remove.



**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Number: PW-17-008		Project Title: Benner Lane Paving					Department: Public Works	
<u>Estimated Cost:</u>	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>	
Land Acquisition							\$0	
Architecture/Engineering							\$0	
Construction	\$55,000*						\$55,000	
TOTAL	\$55,000	\$0	\$0	\$0	\$0	\$0	\$55,000	
<u>Funding Sources:</u>								
General Fund	\$55,000*						\$55,000	
VDOT							\$0	
Enterprise Fund								
TOTAL	\$55,000	\$0	\$0	\$0	\$0	\$0	\$55,000	
<p>* This project is not Funded in the FY2017 Capital Improvement Fund Proposed Budget. Funding for this project has been shifted to future years.</p>								

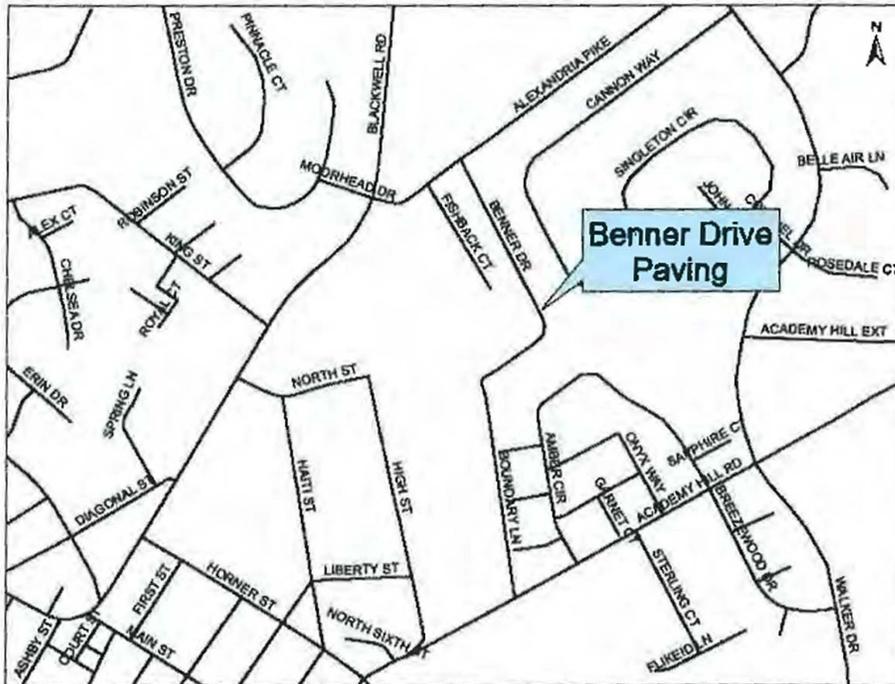
**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Description: Asphalt paving of Benner Lane, which is currently a gravel road to bring up to a local road standard.

Estimated Cost:

566 Tons Asphalt @ \$90/ton	\$51,000.00
Grading & Shaping Sub-Base	<u>\$4,000.00</u>
Total	\$55,000.00

Project Justification: Benner Lane is the only unpaved public road in the Town of Warrenton. With the buildout of lots on Benner and Boundary Lanes, the traffic increases of residential and service vehicles on the road necessitates the paving to reduce road maintenance and facilitate the traffic.



TOWN OF WARRENTON, VIRGINIA
 CAPITAL IMPROVEMENTS PROGRAM
 FISCAL YEARS 2017-2022

Project Number:	PW-18-001	Project Title: SWM - BMP Retrofit					Department: Public Works
<u>Estimated Cost:</u>	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>
Land Acquisition							\$0
Architecture/Engineering							\$0
Construction		\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000
TOTAL	\$0	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000
<u>Funding Sources:</u>							
General Fund		\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000
VDOT							\$0
Enterprise Fund							
TOTAL	\$0	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000

TOWN OF WARRENTON, VIRGINIA
 CAPITAL IMPROVEMENTS PROGRAM
 FISCAL YEARS 2017-2022

Project Number:	PW-18-002	Project Title:	Sidewalk Construction			Department:	Public Works	
<u>Estimated Cost:</u>	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>	
Land Acquisition							\$0	
Architecture/Engineering							\$0	
Construction		\$64,150	\$121,000	\$73,380			\$258,530	
TOTAL	\$0	\$64,150	\$121,000	\$73,380	\$0	\$0	\$258,530	
<u>Funding Sources:</u>								
General Fund		\$64,150	\$121,000	\$73,380			\$258,530	
Enterprise Fund								
TOTAL	\$0	\$64,150	\$121,000	\$73,380	\$0	\$0	\$258,530	

**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Description:

Construction of missing and deteriorated sections of sidewalk at locations in the Town to provide safe pedestrian corridors as follows:

FY18 Green Street Sidewalk Replacement

Mobilization/Traffic Control/Restoration	\$3,500	
Curbing - 250 ft. @ \$25/ft.	\$6,250	
Sidewalk - 1365 ft. x 4 ft. = 610 SY @ \$60/s.y.	\$36,600	
Handicap Ramps - 3 @ \$1200/ea.	\$3,600	
Driveway Entrances	\$3,500	
20% Contingency	<u>\$10,700</u>	\$64,150

FY19 Academy Hill Drive Sidewalk from High Street to Sterling Court

Mobilization/Traffic Control/Restoration	\$8,000	
Curbing - 1130 ft. @ \$25/ft.	\$28,250	
Sidewalk - 1130 ft. x 4 ft. = 503 S.Y. @ \$60/s.y.	\$30,150	
Drainage - Inlet and small amount of pipe	\$15,000	
Grading	\$7,500	
Utility Relocation	\$5,000	
Driveway Entrance	\$2,500	
Tie-in at the Top of the Hill	\$5,000	
20% Contingency	<u>\$20,280</u>	\$121,680

FY20 Shirley Avenue (Legion to Culpeper)

Mobilization/Traffic Control/Restoration	\$7,500	
Curbing - 200 ft. @ \$25/ft.	\$5,000	
Sidewalk - 572 ft. x 4 ft. = 255 S.Y. @ \$60/s.y.	\$15,250	
Handicap Ramps - 2 @ \$1200/ea.	\$2,400	
Driveway Entrances - 4 @ \$1500/ea.	\$6,000	
Knee Wall - 200 ft. @ \$100/ft.	\$20,000	
Guardrail - 200 ft. @ \$25/ft.	\$5,000	
20% Contingency	<u>\$12,230</u>	\$73,380

Project Justification:

The sidewalk sections will provide connectivity between existing sidewalk to provide safe walkways for pedestrians. Depending on potential development of properties in and along the missing sections, the scope of the project areas will be adjusted.



TOWN OF WARRENTON, VIRGINIA
 CAPITAL IMPROVEMENTS PROGRAM
 FISCAL YEARS 2017-2022

Project Number:	PW-18-003	Project Title: Revenue Sharing - Lee Highway Paving						Department: Public Works
Estimated Cost:	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>	
Land Acquisition							\$0	
Architecture/Engineering							\$0	
Construction		\$225,000 *					\$225,000	
TOTAL	\$0	\$225,000	\$0	\$0	\$0	\$0	\$225,000	
Funding Sources:								
General Fund		\$225,000					\$225,000	
Enterprise Fund								
TOTAL	\$0	\$225,000	\$0	\$0	\$0	\$0	\$225,000	
* 50% VDOT Revenue Sharing Cost Share								

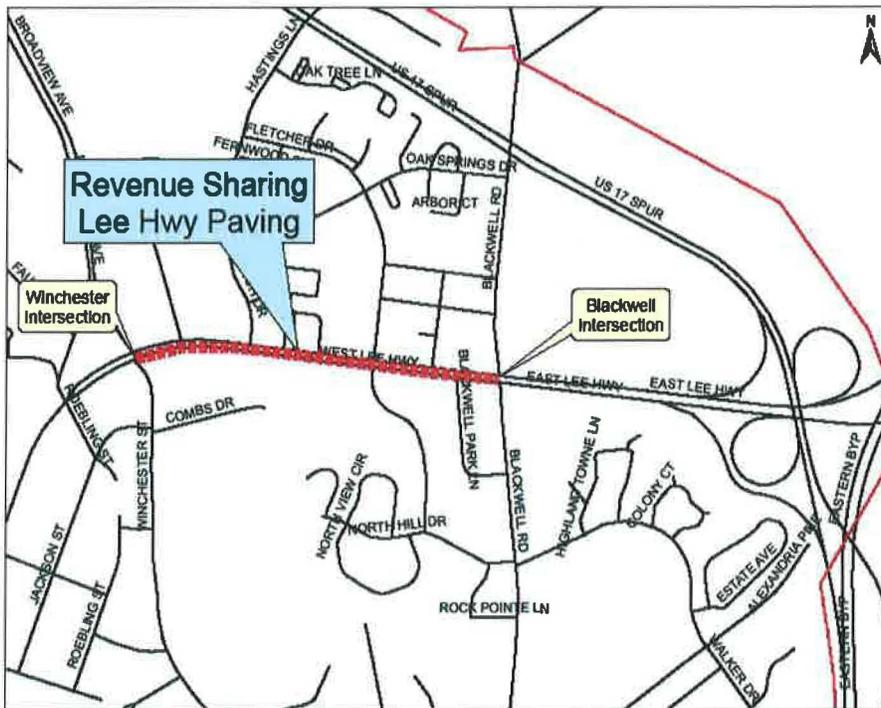
**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Description: Milling and asphalt overlay of Lee Highway from Winchester Street intersection to Blackwell Road intersection.

Estimated Cost: \$225,000.00

Project Justification: In 2018, the wearing surface pavement will be over 24 years old and at the end of its surface life. Revenue Sharing provides a 50/50 cost share with VDOT.

The resurfacing may qualify for full funding under the VDOT Primary Road Program.



**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Number:	PW-18-004	Project Title:	Refuse Truck Replacement				Department:	Public Works
Estimated Cost:	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>	
Prior Authorization								
Land Acquisition							\$0	
Architecture/Engineering							\$0	
Construction		160,000					\$160,000	
TOTAL	\$0	\$160,000	\$0	\$0	\$0	\$0	\$160,000	
Funding Sources:							\$0	
General Fund		160,000					\$160,000	
Enterprise Fund							\$0	
Other							\$0	
TOTAL	\$0	\$160,000	\$0	\$0	\$0	\$0	\$160,000	

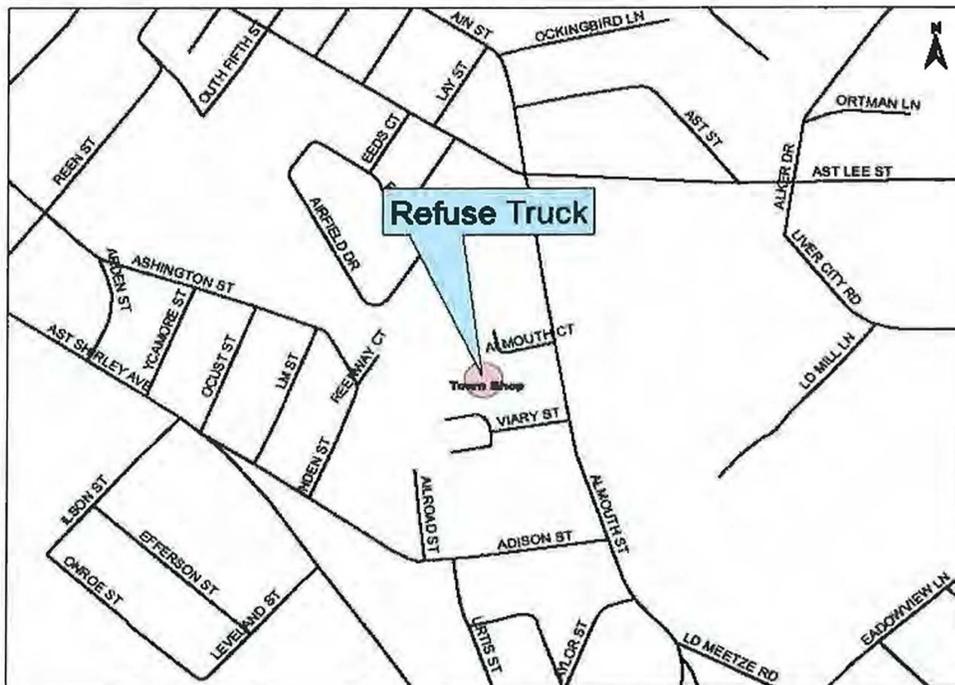
**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Description: Purchase of a new 30 yard side loading refuse collection truck. The 30 yard size is large enough that excessive trips to the dump are not required, yet small enough to maneuver in old Town. The estimated cost is \$160,000.

Project Justification: In order to maintain a reliable fleet for its most sensitive service, a replacement cycle of 8-10 years is needed. Vehicles are in daily primary service during that period and then moved to recycling, brush and backup service.

The new truck will replace #26 which will be 10 years old, and allow it to become the backup vehicle to replacing the 22 year old backup recycling vehicle (#27).

Staff will investigate in detail the merits of a side loading truck to improve service and reduce operating costs.



TOWN OF WARRENTON, VIRGINIA
 CAPITAL IMPROVEMENTS PROGRAM
 FISCAL YEARS 2017-2022

Project Number:	PW-18-005	Project Title:	Franklin Street Sidewalk				Department:	Public Works
Estimated Cost:	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>	
Prior Authorization								
Land Acquisition							\$0	
Architecture/Engineering							\$0	
Construction		77,321					\$77,321	
TOTAL	\$0	\$77,321	\$0	\$0	\$0	\$0	\$77,321	
Funding Sources:							\$0	
General Fund		77,321					\$77,321	
Enterprise Fund							\$0	
Other							\$0	
TOTAL	\$0	\$77,321	\$0	\$0	\$0	\$0	\$77,321	

**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Description: Construction of replacement and new sidewalk along Third Street and Franklin Street from Beckham to the Fifth Street parking lot.
Deteriorated sidewalk along Third Street will be replaced. The new sidewalk will be along the north side of Franklin Street from Green Street to Fifth Street. A portion of the new sidewalk will require retaining wall with guard rail.

Third Street

Sidewalk Replacement - 121' long x 5' wide - 67.22 s.y. @ \$60 s.y.	=	\$4,033	Across from Claire's
HC Ramp - 1 @ \$1500 ea.	=	\$1,500	
New Sidewalk - 15' long x 5' wide - 8.33 s.y. @ \$60 s.y.	=	\$500	Curve at Parts Store

Franklin Street

HC Ramp @ Green Street - 1 @ \$1500 ea.	=	\$1,500	
HC Ramp @ Fifth Street - 1 @ \$1500 ea.	=	\$1,500	
Sidewalk - 290' long x 5' wide - 161.11 s.y. @ \$60 s.y.	=	\$9,667	
Curbing, CG2 - 290 l.f. @ \$30 l.f.	=	\$8,700	
Retaining Wall 3-4' - 135 l.f. @ \$200 l.f.	=	\$27,000	Only half distance
Railing on top wall - 135 l.f. @ \$65 l.f.	=	\$8,775	

Fifth Street

HC Ramp on Fifth Street - 1 @ \$1500 ea.	=	\$1,500	
Sidewalk - 78' long x 5' wide - 43.33 s.y. @ \$60 s.y.	=	\$2,600	

Subtotal	=	\$67,275
15% Contingency	+	\$10,046
Total	=	\$77,321

Project Justification: To provide a smooth, safe and ADA compliant walkway from developing activities in Old Town to overflow parking available at the Fifth Street parking lot.



TOWN OF WARRENTON, VIRGINIA
 CAPITAL IMPROVEMENTS PROGRAM
 FISCAL YEARS 2017-2022

Project Number: PW-19-001		Project Title: Drainage Upgrade Sullivan/Broadview				Department: Public Works		
<u>Estimated Cost:</u>	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>	
Land Acquisition							\$0	
Architecture/Engineering			\$30,000				\$30,000	
Construction				\$225,000			\$225,000	
TOTAL	\$0	\$0	\$30,000	\$225,000	\$0	\$0	\$255,000	
<u>Funding Sources:</u>								
General Fund			\$30,000	\$225,000			\$255,000	
Enterprise Fund								
TOTAL	\$0	\$0	\$30,000	\$225,000	\$0	\$0	\$255,000	

**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Description:

Replace and upgrade the stormwater drainage system from the current pipe under Sullivan Street to the Broadview Avenue/Waterloo Street intersection. Project consists of the following:

Engineering	=	\$30,000.00
36" RCP - 1,000 ft. @ \$110/ft.	=	\$110,000
42" RCP - 180 ft. @ \$130/ft.	=	\$23,400
Manhole/intets - 6 each @ \$4,500/ea.	=	\$26,000
Pavement Restoration	=	\$20,000
Traffic Control	=	<u>\$12,000</u>
 Subtotal	=	 \$221,400
Contingency	+	<u>\$33,000</u>
 Total	=	 \$254,400

Project Justification:

This drainage problem area was identified as problem area #10 in the Town-Wide Comprehensive Drainage Study performed by Anderson and Associates. The area has been under observation since the report and up to the present time, the drainage problems have been under control. With the age and condition of the pipes and the future upstream development, it is necessary to improve the drainage system in the area. Of particular concern is the condition of the existing pipe passing under an existing building, which is prohibited in the Town.



TOWN OF WARRENTON, VIRGINIA
 CAPITAL IMPROVEMENTS PROGRAM
 FISCAL YEARS 2017-2022

Project Number:	PW-19-002	Project Title: Upgrade/Repair Lee Hwy. Culvert						Department: Public Works
Estimated Cost:	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>	
Land Acquisition							\$0	
Architecture/Engineering							\$0	
Construction			\$85,000				\$85,000	
TOTAL	\$0	\$0	\$85,000	\$0	\$0	\$0	\$85,000	
Funding Sources:								
General Fund			\$85,000				\$85,000	
Enterprise Fund								
TOTAL	\$0	\$0	\$85,000	\$0	\$0	\$0	\$85,000	

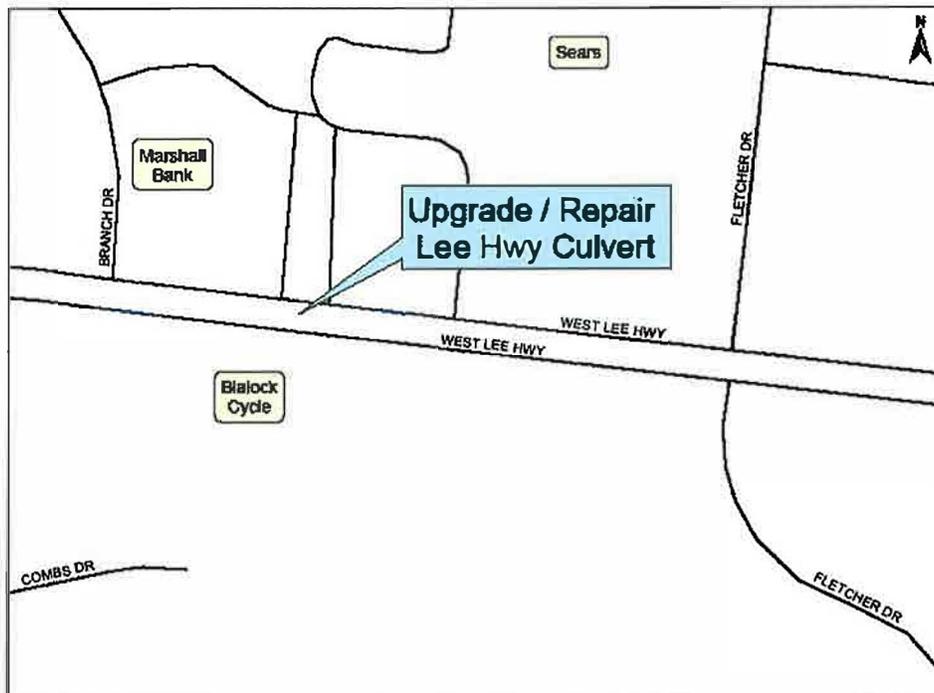
TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022

Project Description:

Rehabilitation of 4'x6' box culvert under Lee Highway (between Branch and Fletcher Drive). Reline the culvert walls and base to provide cover to exposed reinforcement and the badly scoured areas.

Project Justification:

This is the original culvert that was installed with the bypass construction in the 1960's. By 2019, the culvert walls and floor are expected to be severely scoured/eroded and lead to eventual structural failure if not corrected. This effort will prevent a total replacement.



**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Number:	PW-19-003	Project Title: East Street Drainage	Department: Public Works				
Estimated Cost:	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>
Land Acquisition							\$0
Architecture/Engineering			\$20,000				\$20,000
Construction			\$235,500				\$235,500
TOTAL	\$0	\$0	\$255,500	\$0	\$0	\$0	\$255,500
Funding Sources:							
General Fund			\$255,500				\$255,500
Enterprise Fund							
TOTAL	\$0	\$0	\$255,500	\$0	\$0	\$0	\$255,500

**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Description: Install curb and gutter and storm water piping on East Street to alleviate flooding of neighborhood. Project to include curbing on both sides with storm sewer collection and piping into the existing system on Lee Street Extended.

Engineering and Mobilization	=	\$20,000
Curbing - 2400 lf @ \$35/lf.	=	\$84,000
Sidewalk - 535 SY @ \$40/SY	=	\$21,400
Driveway Entrances - 10 each @ \$1,500/ea.	=	\$15,000
Storm Sewer Pipe - 850 lf @ \$50/lf	=	\$42,500
Storm Structures - 4 each @ \$3000/ea.	=	\$12,000
Patch Asphalt	=	\$4,500
Regrading and Reseeding Yards	=	<u>\$5,000</u>
Subtotal	=	\$204,400
25% Contingency	+	<u>\$51,100</u>
Total		\$255,500

Project Justification: This neighborhood has areas of flooding during heavy rains and areas of road undermining due to storm runoff. The roadway and ditches require frequent maintenance. Much of the lower flooding is caused from runoff above which erodes the edges of the road. The narrowness of the upper portion of the street will be evaluated for potential widening to accommodate larger vehicle traffic.



TOWN OF WARRENTON, VIRGINIA
 CAPITAL IMPROVEMENTS PROGRAM
 FISCAL YEARS 2017-2022

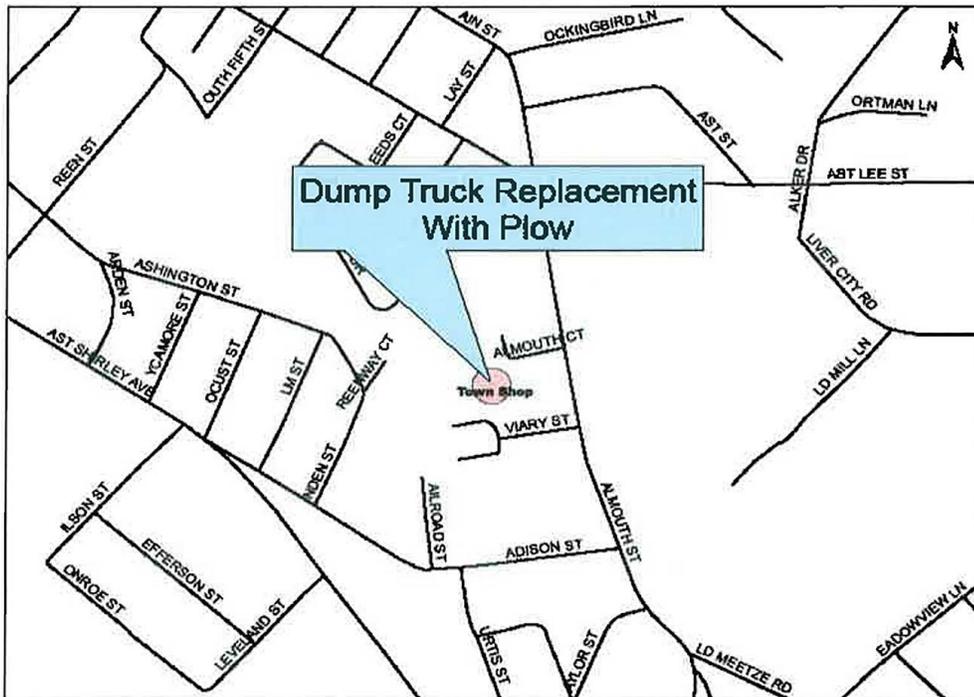
Project Number:	PW-19-004	Project Title: Dump Truck Replacement w/Plow					Department: Public Works
Estimated Cost:	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>
Land Acquisition							\$0
Architecture/Engineering							\$0
Construction			\$95,000				\$95,000
TOTAL	\$0	\$0	\$95,000	\$0	\$0	\$0	\$95,000
Funding Sources:							
General Fund			\$95,000				\$95,000
Enterprise Fund							
TOTAL	\$0	\$0	\$95,000	\$0	\$0	\$0	\$95,000

TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022

Project Description: Replacement of truck #21, a 1999 Chevrolet Dump Truck, which will be nineteen (19) years old in 2018.

Estimated Replacement Cost: \$95,000.00

Project Justification: The truck will be nineteen (19) years old by 2018 and at the end of its useful life. The truck is a primary work horse for repair projects and snow removal. Salt and sand have deteriorated the body and frame to the extent that a replacement will be needed by 2018.



TOWN OF WARRENTON, VIRGINIA
 CAPITAL IMPROVEMENTS PROGRAM
 FISCAL YEARS 2017-2022

Project Number:	PW-19-005	Project Title: Revenue Sharing - Broadview Avenue Paving					Department: Public Works
Estimated Cost:	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>
Land Acquisition							\$0
Architecture/Engineering							\$0
Construction			\$330,000 *				\$330,000
TOTAL	\$0	\$0	\$330,000	\$0	\$0	\$0	\$330,000
Funding Sources:							
General Fund			\$330,000				\$330,000
VDOT							\$0
Enterprise Fund							
TOTAL	\$0	\$0	\$330,000	\$0	\$0	\$0	\$330,000
* 50% VDOT Revenue Sharing Cost Share							

**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

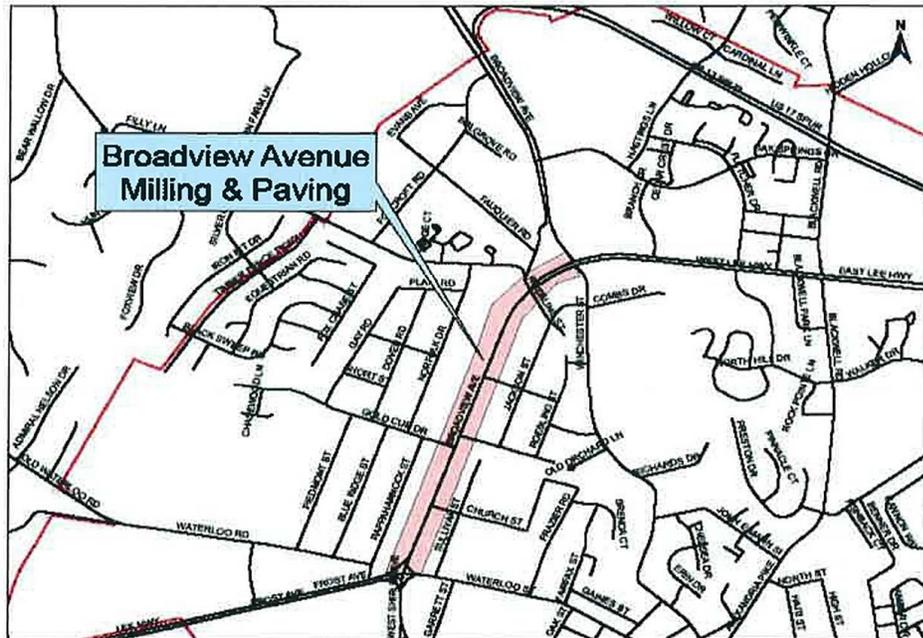
Project Description: Asphalt milling and overlay of Broadview Avenue from Waterloo Road to Winchester Street intersection.

The project consists of a complete 1 1/2" milling of the roadway and replacement with an asphalt surface mix. Quantities will vary depending on the extent of medians installed as part of the Urban Broadview Avenue Improvement project.

Project Justification: The paving project is to be performed in conjunction with the VDOT Urban Broadview Avenue Improvements project which is currently in design and scheduled for construction in 2018.

The revenue sharing program provides a supplemental source of funding to the larger project. The existing pavement surface will be sixteen (16) years old and is currently pulling apart at the paving seams. A VDOT Revenue Sharing application will be submitted in October 2017 for cost share.

The project is a "placeholder" pending the results of the HB2 Funding Application. Should the Broadview Avenue project be fully funded by HB2, then this project is not needed. Should funding sources be insufficient, the Revenue Sharing for resurfacing is a viable option.



TOWN OF WARRENTON, VIRGINIA
 CAPITAL IMPROVEMENTS PROGRAM
 FISCAL YEARS 2017-2022

Project Number:	PW-19-006	Project Title: Traffic Signal Interconnectvity, Lee Hwy.					Department: Public Works
<u>Estimated Cost:</u>	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>
Land Acquisition							\$0
Architecture/Engineering							\$0
Construction			\$85,000				\$85,000
TOTAL	\$0	\$0	\$85,000	\$0	\$0	\$0	\$85,000
<u>Funding Sources:</u>							
General Fund			\$85,000				\$85,000
Enterprise Fund							
TOTAL	\$0	\$0	\$85,000	\$0	\$0	\$0	\$85,000

**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Description:

The interconnection of the Broadview Avenue and Lee Highway traffic signals to facilitate coordination and traffic flow. The project will enable the signals to communicate with each other and be remotely monitored and adjusted.

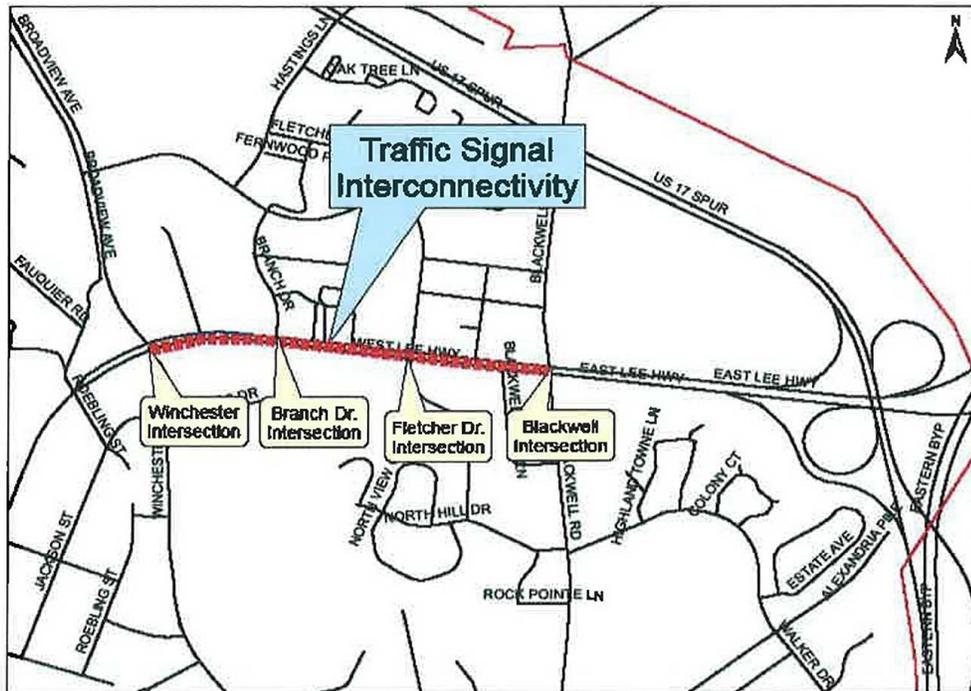
The interconnectivity will be either hardware or wireless depending on the current technology.

Estimated Cost

\$85,000.00

Project Justification:

The current traffic signals are coordinated by a central clock with individual timing input manually at each control box. There is no remote monitoring or timing adjustment capability. The project will consist of the latest "smart technology" to enhance the traffic flow through the corridor in conjunction with the Broadview Avenue improvements.



TOWN OF WARRENTON, VIRGINIA
 CAPITAL IMPROVEMENTS PROGRAM
 FISCAL YEARS 2017-2022

Project Number:	PW-20-001	Project Title: Rev. Sharing - Signal/Roundabout Walker/Lee Hwy.						Department: Public Works
<u>Estimated Cost:</u>	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>	
Land Acquisition							\$0	
Architecture/Engineering				\$30,000			\$30,000	
Construction					\$450,000		\$450,000	
TOTAL	\$0	\$0	\$0	\$30,000	\$450,000	\$0	\$480,000	
<u>Funding Sources:</u>								
General Fund				\$30,000	\$450,000		\$480,000	
Enterprise Fund								
TOTAL	\$0	\$0	\$0	\$30,000	\$450,000	\$0	\$480,000	

**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Description:

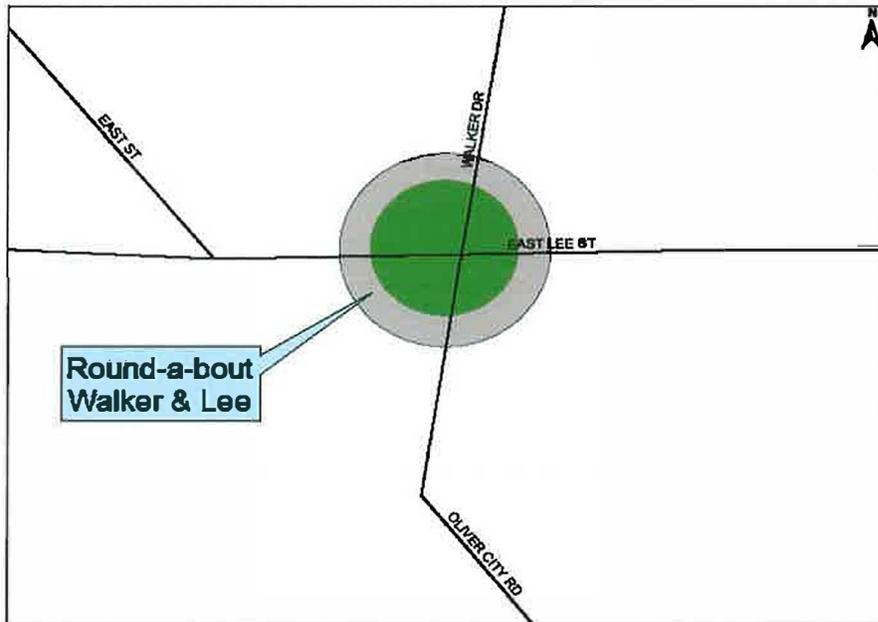
Installation of a traffic signal or roundabout at the Walker Drive and Lee Street Extended intersection. The project will be a candidate for VDOT Revenue Sharing project with a 50/50 cost share.

The project is currently a placeholder with the determination of whether a traffic signal or roundabout is the preferred installation.

The cost estimate is for a traffic signal.

Project Justification:

With the completion of the Warrenton Crossing development, the Springer-Hitchcock properties and other developments in the area, it is projected that intersection will be operating in a failing condition. The project is a placeholder pending a required development improvement which may/may not be applicable and whether funding (all or a portion) can be paid by the developers.



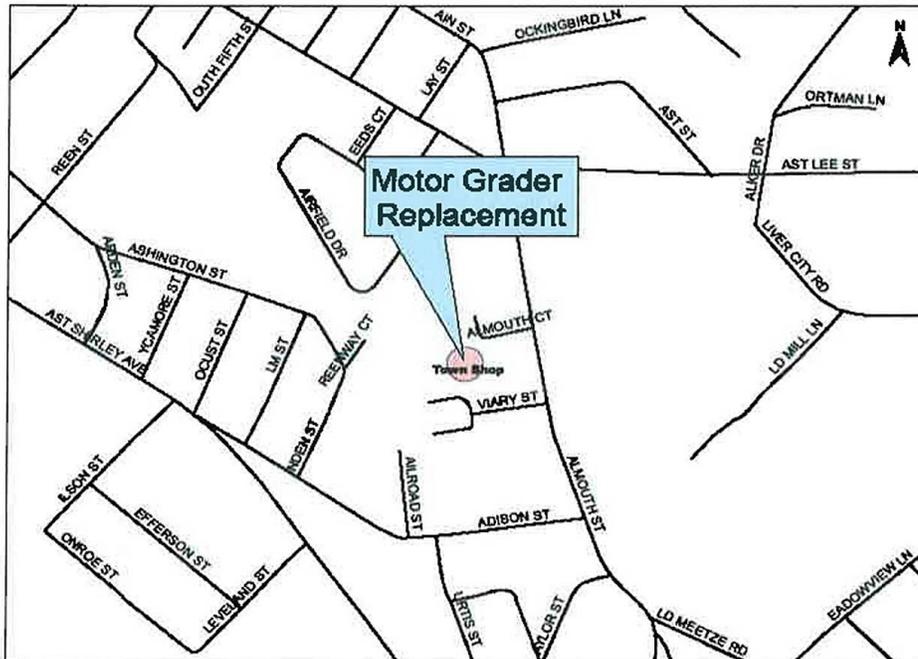
TOWN OF WARRENTON, VIRGINIA
 CAPITAL IMPROVEMENTS PROGRAM
 FISCAL YEARS 2017-2022

Project Number:	PW-20-002	Project Title: Motor Grader Replacement				Department: Public Works	
<u>Estimated Cost:</u>	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>
Land Acquisition							\$0
Architecture/Engineering							\$0
Equipment				\$85,000			\$85,000
Construction							\$0
TOTAL	\$0	\$0	\$0	\$85,000	\$0	\$0	\$85,000
<u>Funding Sources:</u>							
General Fund				\$85,000			\$85,000
Enterprise Fund							
TOTAL	\$0	\$0	\$0	\$85,000	\$0	\$0	\$85,000

TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022

Project Description: Replacement of the current 30+ year old motor grader with a reliable used motor grader.

Project Justification: Current grader is over 30 years old with repair parts becoming unavailable.



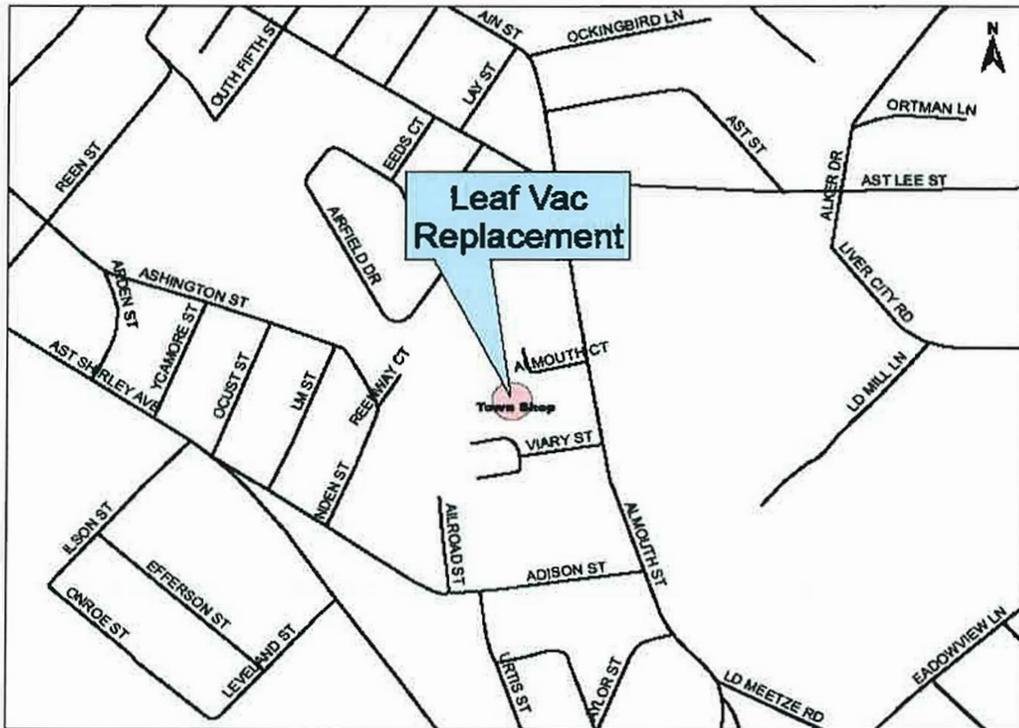
TOWN OF WARRENTON, VIRGINIA
 CAPITAL IMPROVEMENTS PROGRAM
 FISCAL YEARS 2017-2022

Project Number:	PW-20-003	Project Title: Leaf Vac Replacement	Department: Public Works				
Estimated Cost:	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>
Land Acqulsiton							\$0
Architecture/Engineering							\$0
Equipment				\$29,000			\$29,000
Construction							\$0
TOTAL	\$0	\$0	\$0	\$29,000	\$0	\$0	\$29,000
Funding Sources:							
General Fund				\$29,000			\$29,000
Enterprise Fund							
TOTAL	\$0	\$0	\$0	\$29,000	\$0	\$0	\$29,000

**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Description: Replacement of the current leaf vacuum with an equivalent of upgraded model to remove leaves from the Town during November-December each year.

Project Justification: The leaf vacuum is the most critical piece of equipment for Public Works staff during the annual leaf collection period of November and December each year. The current vacuum will be fifteen (15) years old in 2020 and due for replacement. One of the reasons the vacuum is most critical is that there is not a substitute on the rental market to fill in during the leaf collection period.



TOWN OF WARRENTON, VIRGINIA
 CAPITAL IMPROVEMENTS PROGRAM
 FISCAL YEARS 2017-2022

Project Number:	PW-21-001	Project Title:	Street Sweeper Replacement			Department:	Public Works	
<u>Estimated Cost:</u>	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>	
Prior Authorization								
Land Acquisition							\$0	
Architecture/Engineering							\$0	
Construction					120,000		\$120,000	
TOTAL	\$0	\$0	\$0	\$0	\$120,000	\$0	\$120,000	
<u>Funding Sources:</u>							\$0	
General Fund (Reserved)					120,000		\$120,000	
Enterprise Fund							\$0	
Other							\$0	
TOTAL	\$0	\$0	\$0	\$0	\$120,000	\$0	\$120,000	

TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022

Project Description: Programmed replacement of the 2011 GMC Schwartz Street Sweeper. This is a placeholder and will be evaluated for acceleration or deferment based on conditions year to year.

Project Justification: With the sweeping of streets being a major element of the Town achieving the goals for nutrient/sediment removal under the MS4 permit, the street sweeper plays a critical role. To achieve the targeted goals, the sweeper is programmed to be used more often and in areas previously ignored. With the increased use, it is anticipated that the replacement will need to be more frequent, in the 8-10 year cycle range.



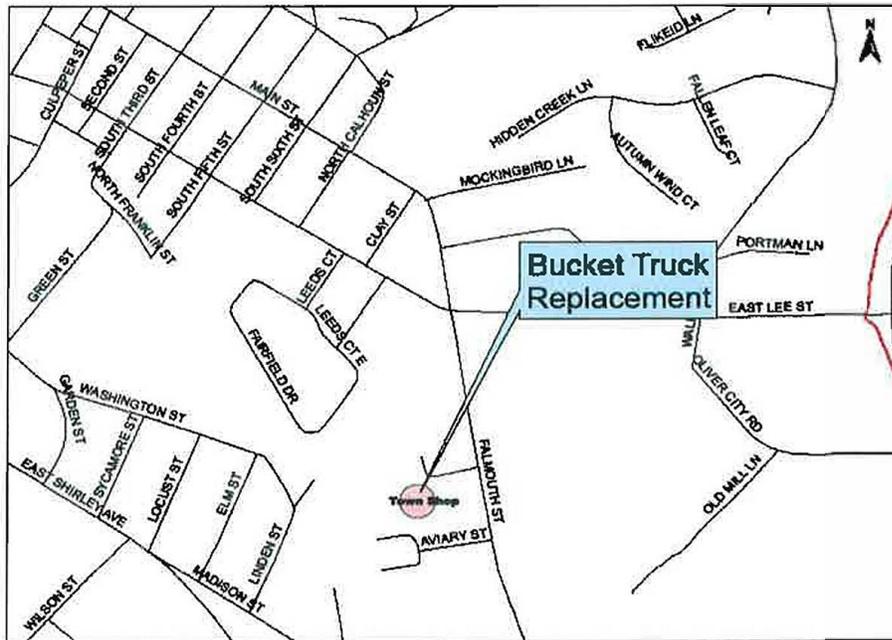
TOWN OF WARRENTON, VIRGINIA
 CAPITAL IMPROVEMENTS PROGRAM
 FISCAL YEARS 2017-2022

Project Number:	PW-21-002	Project Title: Bucket Truck Replacement					Department: Public Works
Estimated Cost:	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>
Land Acquisition							\$0
Architecture/Engineering							\$0
Construction					\$85,000		\$85,000
TOTAL	\$0	\$0	\$0	\$0	\$85,000	\$0	\$85,000
Funding Sources:							
General Fund					\$85,000		\$85,000
Enterprise Fund							
TOTAL	\$0	\$0	\$0	\$0	\$85,000	\$0	\$85,000

TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022

Project Description: Replacement of the existing bucket truck with an equivalent model with 30 feet lift capability.

Project Justification: The existing truck will be seventeen (17) years old in 2021 and due for replacement. The truck is a critical vehicle in the maintenance of the Town's ten (10) traffic signals, sign replacement, tree trimming, lighting and exterior building maintenance.



**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Number:	PW-22-001	Project Title:	Parking Deck			Department:	Public Works	
Estimated Cost:	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>	
Prior Authorization								
Land Acquisition							\$0	
Architecture/Engineering						\$500,000	\$500,000	
Construction						\$4,500,000	\$4,500,000	
TOTAL	\$0	\$0	\$0	\$0	\$0	\$5,000,000	\$5,000,000	
Funding Sources:							\$0	
General Fund (Reserved)						\$5,000,000	\$5,000,000	
Enterprise Fund							\$0	
Other							\$0	
TOTAL	\$0	\$0	\$0	\$0	\$0	\$5,000,000	\$5,000,000	

**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Description: The project consists of the design and construction of up to three (3) multi-level parking garages, as originally proposed in the Downtown Public Facility Plan, in the Old Town area. The project concept is based on the recommendation of the Parking Study conducted by Wilbur Smith and Associates in 2000 and presented to Council.

Design/Engineering	=	\$500,000 (Originally programmed in FY06)
Construction	=	<u>\$4,500,000</u>
		\$5,000,000

Project Justification: To provide needed parking in the downtown area per the recommendations of the Warrenton Development Advisory Committee, the Warrenton 2000 Committee and the Wilbur Smith & Associates Parking Study. The Study projected the need for up to 300 additional parking spaces in the downtown area by 2010. Council agreed with the recommendation of the Parking Study and in 2000 directed staff to keep the schedule of construction in its current place. Merchants in the Old Town area continue to express a strong desire for additional parking. The financing anticipates privatization of development with joint participation of funding and/or a fee structure to manage costs.

Changes in the Fauquier County Government plans for the Warrenton/Old Town area have highlighted the need for the Town to proceed on its own in this project. Possible location is north of Main Street between First and Third Streets.



**CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Number:	PD-17-001	Project Title: Police Cruiser Replacements					Department: Police
Estimated Cost:	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>
Prior Authorization							
Land Acquisition							\$0
Architecture/Engineering							\$0
Construction/Purchase	\$215,727						\$215,727
TOTAL	\$215,727	\$0	\$0	\$0	\$0	\$0	\$215,727
Funding Sources:							\$0
General Fund	\$215,727						\$215,727
Enterprise Fund							\$0
Other							\$0
TOTAL	\$215,727	\$0	\$0	\$0	\$0	\$0	\$215,727

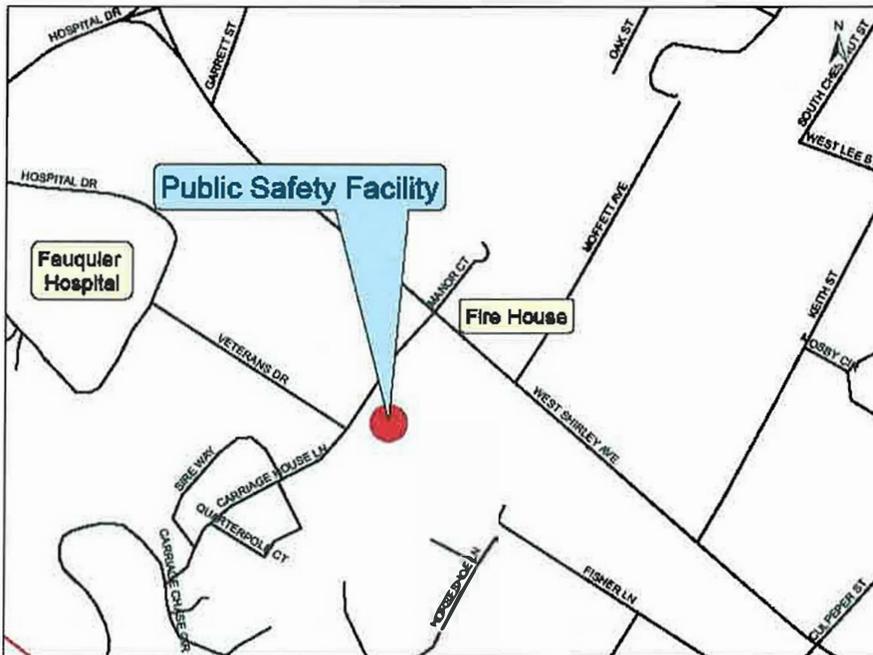
**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Description: Purchase of a 2016 Marked Dodge Charger vehicle to replace the unmarked 2000 Ford Crown Vic (#21) with mileage of 108,035. (\$77,274.20)

Purchase of a 2016 Marked Dodge Charger vehicle to replace the unmarked 2000 Ford Crown Vic (#22) with mileage of 110,883. (\$77,274.20)

Purchase of a 2016 unmarked CID vehicle to replace the 2008 Ford Crown Vic (#12) with mileage of 84,184. This vehicle was transferred to John Hutchins. (\$61,178.40)

Project Justification: Vehicles are to be purchased at Virginia Contract pricing. The requested amount includes the cost of emergency equipment, Motorola Radio Mobile & Portable and Mobile Data Terminals.



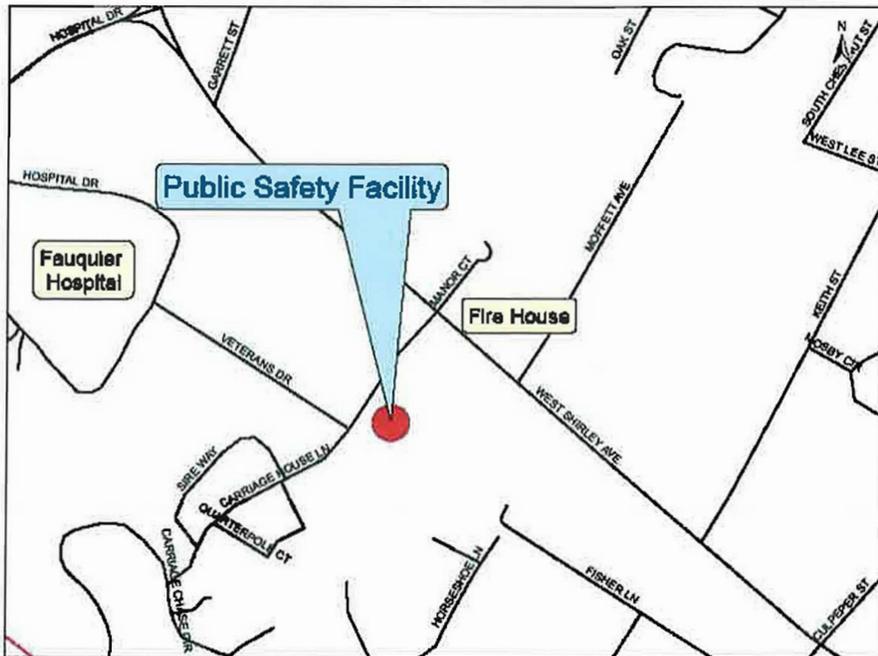
**CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Number:	PD-17-002	Project Title: P25 Compliant Radio System Upgrade	Department: Police				
<u>Estimated Cost:</u>	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>
Prior Authorization							
Land Acquisition							\$0
Architecture/Engineering							\$0
Construction/Purchase	\$185,656						\$185,656
TOTAL	\$186,656	\$0	\$0	\$0	\$0	\$0	\$185,656
<u>Funding Sources:</u>							\$0
General Fund	\$185,656						\$185,656
Enterprise Fund							\$0
Other							\$0
TOTAL	\$185,656	\$0	\$0	\$0	\$0	\$0	\$185,656

**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Description: The FCSO is in the process of transitioning to the P25 Compliant radio system for their Dispatch Center. This transition will be in two phases, taking approximately two years. For WPD portable and cruiser radios to transmit on the new system, they will need to be reprogrammed to the P24 compliant bands. This reprogramming has to take place contemporaneous to the Phase I implementation and then a second time when the Phase II implementation is completed. The Phase II implementation will be sometime after the two year Phase I implementation, but only after all user LE agencies have the requisite equipment and is backward compatible allowing LE agencies to use the system until such time as all agencies can transition to Phase II.

Project Justification: Motorola will only support our model portable radio for four more years and has stopped supporting the cruiser radios as of this writing, so re-programming probably won't be feasible for them.



**CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Number:	PD-17-003	Project Title: Base Mobile Server/Field Reporting Upgrade	Department: Police				
Estimated Cost:	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>
Prior Authorization							
Land Acquisition							\$0
Architecture/Engineering							\$0
Construction/Purchase	\$3,828						\$3,828
TOTAL	\$3,828	\$0	\$0	\$0	\$0	\$0	\$3,828
Funding Sources:							\$0
General Fund	\$3,828						\$3,828
Enterprise Fund							\$0
Other							\$0
TOTAL	\$3,828	\$0	\$0	\$0	\$0	\$0	\$3,828

**CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Number: PD-17-004		Project Title: Virginia Supreme Court Citation Data Software				Department: Police	
Estimated Cost:	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>
Prior Authorization							
Land Acquisition							\$0
Architecture/Engineering							\$0
Construction/Purchase	\$7,720						\$7,720
TOTAL	\$7,720	\$0	\$0	\$0	\$0	\$0	\$7,720
Funding Sources:							\$0
General Fund	\$7,720						\$7,720
Enterprise Fund							\$0
Other							\$0
TOTAL	\$7,720	\$0	\$0	\$0	\$0	\$0	\$7,720

**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Description:

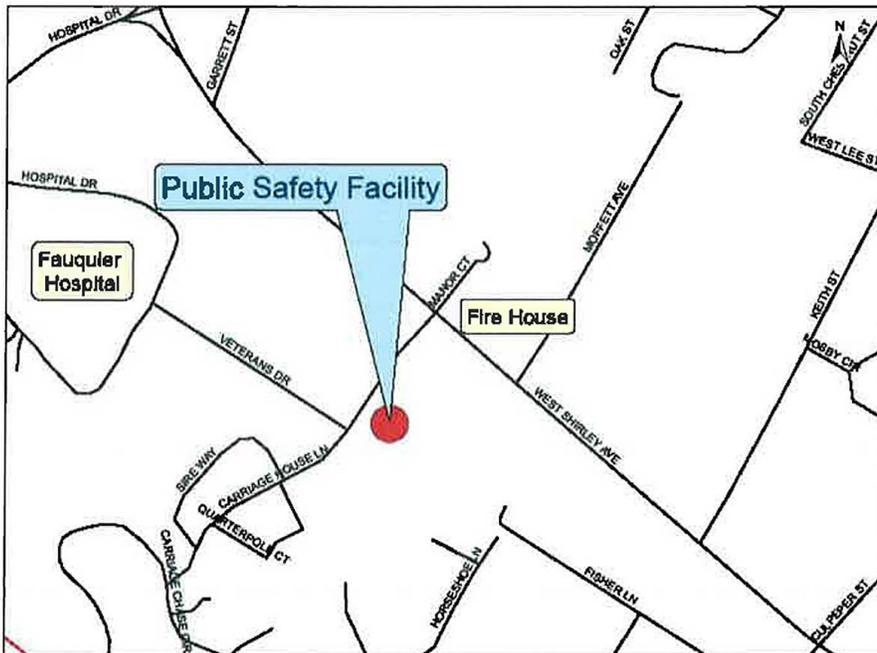
The police department currently has the ability to electronically prepare and transmit summons information to VSC, but not the software to do so. This requires personnel to print out an additional copy for the Court and deliver same for inclusion on the Court's docket.

The VSC Interface can be configured to automatically create an export file at a certain time of day or configured to create an export file only on demand, depending on preference. The export file created by SunGard's VSC Interface must be manually uploaded via the Virginia State Court web portal. This upload process is not performed by the interface.

Project Justification:

This program allows a two-way interface to pass summons information to the Virginia Supreme Court in an approved format and to automate the update of disposition code and disposition date in RMS as it is returned from the VSC.

Purchase includes professional services from SunGard for management oversight and coordination with project management, SunGard's internal resources and any third party vendors. Includes coordinating with the project manager all SunGard related deliveries such as application software, implementation services and scheduling of SunGard's resources with the customer.



TOWN OF WARRENTON
 CAPITAL IMPROVEMENTS PROGRAM
 FISCAL YEARS 2017-2022

Project Number:	PR-17-001	Project Title:	WARF Fitness Equipment Replacement				Department:	Parks & Rec
Estimated Cost:	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>	
Prior Authorization								
Land Acquisition							\$0	
Architecture/Engineering							\$0	
Construction	\$35,000	\$25,000	\$34,000				\$94,000	
TOTAL	\$35,000	\$25,000	\$34,000	\$0	\$0	\$0	\$94,000	
Funding Sources:							\$0	
General Fund	\$35,000	\$25,000	\$34,000				\$94,000	
Enterprise Fund							\$0	
Other							\$0	
TOTAL	\$35,000	\$25,000	\$34,000	\$0	\$0	\$0	\$94,000	

**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Description: Refurbish the three Woodway treadmills. (2016-17)

- Purchase two state of the art ARC Trainers to complement current cardio equipment in the fitness room. (2016-17)
- Replace recumbent and upright cardio bicycles in the WARf fitness room. (2017-18)
- Replace elliptical trainers in the WARf fitness room. (2018-19)
- Replace two of the four treadmills and refurbish the remaining two. (2018-19)

Project Justification:

Woodway Treadmills - These treadmills have minimal maintenance which justified a refurbishment as opposed to replacement.

Recumbent & Upright Bicycles - Equipment is nine (9) years old and gets a lot of use. Replacement will be necessary.

ARC trainers - ARC Trainers are popular at neighboring fitness facilities. Runners love them because there is impact to their joints. Younger members would prefer the ARC trainer over the elliptical trainers we have had since we opened where as our senior members prefer the elliptical trainers.

Elliptical Trainers - WARf elliptical trainers we refurbished in 2015 with a 3-4 year life expectancy on parts and frame. Replacing these ellipticals will be necessary.

Treadmills - Two of the four Free Motion treadmills were refurbished in 2015. The life expectancy of these treadmills will require replacement. This request includes refurbishment costs for the remaining two treadmills.



TOWN OF WARRENTON
 CAPITAL IMPROVEMENTS PROGRAM
 FISCAL YEARS 2017-2022

Project Number:	PR-17-002	Project Title:	WARF Facility Upgrades				Department:	Parks & Rec
Estimated Cost:	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>	
Prior Authorization								
Land Acquisition							\$0	
Architecture/Engineering							\$0	
Construction	\$49,500						\$49,500	
TOTAL	\$49,500	\$0	\$0	\$0	\$0	\$0	\$49,500	
Funding Sources:							\$0	
General Fund	\$49,500						\$49,500	
Enterprise Fund							\$0	
Other							\$0	
TOTAL	\$49,500	\$0	\$0	\$0	\$0	\$0	\$49,500	

**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Description: Facility upgrades to the Warrenton Aquatic and Recreation Facility to include the following:

Permanent wall between fitness room and multipurpose classroom	\$15,000.00
Touchpad replacement - pool timing system	\$10,500.00
Fence and Gates/WARF trash area	\$5,000.00
Surveillance camera upgrades	\$7,000.00
Hand dryers	<u>12,000.00</u>

Project Justification:

Permanent Wall - This project will remove the temporary wall that has been separating the WARF's Multi-Purpose Room and Fitness Room since September 2007. This temporary wall serves an inferior purpose. By removing this wall and constructing a permanent wall, we will be able to install mirrors on both sides which will aide in group fitness classes. Additionally, once the permanent wall is installed, a weight training redesign in the fitness room will allow for additional cardio equipment (ARC trainers) and enhance the full cycle of training equipment in the fitness room.

Touchpad Replacement (Colorado Timing System) - Our current touchpads are eight years old. The manufacturer will not refurbish the pads after they are six years old. Pads are necessary for swim meet timing.

Fence and Gates/WARF Trash Area - The trash area gates at the WARF are in large swinging type that have been bent and destroyed by the wind and no longer close. This is the first thing you see as you drive into the WARF. A proper fence and gates will shield the trash from public view.

Surveillance Camera Upgrades - Enhancements to the current camera/surveillance system will allow better identification in case of incidents at the WARF.

Hand Dryers - The traditional paper towel dispensers have to be continually refilled during peak event time, such as swim meets. There is also a lot of trash and mess created by having paper towels, as well as the continued expense of the towels themselves. It is anticipated that switching to electric hand dryers will save roughly \$4,000 a year. In addition, it is an environmentally responsible change.



**TOWN OF WARRENTON
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Number:	PR-17-003	Project Title:	Micro Golf				Department:	Parks & Rec
<u>Estimated Cost:</u>	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>	
Prior Authorization								
Land Acquisition							\$0	
Architecture/Engineering							\$0	
Construction	\$50,000*	\$35,000					\$85,000	
TOTAL	\$50,000	\$35,000	\$0	\$0	\$0	\$0	\$85,000	
<u>Funding Sources:</u>							\$0	
General Fund	\$50,000*	\$35,000					\$85,000	
Enterprise Fund							\$0	
Other							\$0	
TOTAL	\$50,000	\$35,000	\$0	\$0	\$0	\$0	\$85,000	
<p>* This project is not funded in the FY2017 Capital Improvement Fund Proposed Budget. Funding for this project has been shifted to future years.</p>								

**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Description: Micro golf course at the WARF will provide an additional recreation amenity that is not available in our community. Course will be designed in two phases, with the first nine holes in place in FY17 and the next nine in FY18. This amenity should provide fun for all ages.

Project Justification: Adding a micro golf course would provide a recreational opportunity for the citizens of Warrenton and the surrounding area. There is currently no micro golf course in the area. It is anticipated that initial investment would be recouped in the first full year of operation and that the course would become a source of additional revenue for the WARF.





Micro-Golf® Features and Benefits

The **Micro-Golf®** System is a truly unique COST of Wisconsin, Inc. product. This **Micro-Golf®** idea and design resulted from more than 57 years of engineering and architectural excellence in the recreation industry. **Micro-Golf®** offers the challenging and exciting golf holes entertainment centers demand in today's competitive recreation industry. Due to its custom design, **Micro-Golf®** is suitable for indoor or outdoor use. The course compliments numerous existing locations such as resorts/hotels, shopping malls, bowling centers, driving ranges, family entertainment centers, city parks and municipal aquatic centers or it can be a stand-alone business.

Micro-Golf® is entertaining for adults and children of all ages. Every course and golf hole design is unique, and miniature golfers of all abilities find it challenging, yet fun to play! The **Micro-Golf®** courses can be customized to meet specific target audiences and include natural landscaping with rock work, waterfalls, or be highly themed with facades, sets, scenery and props. Our designs also accommodate wheel chair accessibility for players that are physically challenged.

The popularity of **Micro-Golf®** has grown worldwide, so much so, that it is sanctioned by the US Pro Mini-Golf Association (USPMGA) and World Minigolf Federation (WMF) for tournaments throughout the world. Each **Micro-Golf®** Course includes a Marketing, Operations, and Maintenance Manual to assist you in organizing your own tournaments.

The **Micro-Golf®** System is constructed of a durable, state-of-the-art concrete composite material that looks, feels, and plays like a permanent miniature golf hole. It is weather resistant, traffic durable, and contains no plywood or wood products that can rot or decompose. **Micro-Golf®** is built to last for either indoor or outdoor use. COST is so confident in the product; we provide a one year warranty on each **Micro-Golf®** Course.

Installation:

The **Micro-Golf®** course is easily installed at grade level on a compacted surface. The course can be integrated into the natural topography of your site or we can design your **Micro-Golf®** Course to include elevation changes by importing fill materials. Many of our customers have also utilized the **Micro-Golf®** System on existing tennis courts, parking lots, concrete floors, wood decks, and the rooftops of buildings, which maximizes space and earning potential.

To simplify and facilitate installation, plastic templates will be furnished with the arrival of the course, or advanced shipment can be arranged. This allows for pre-layout of the course prior to the installation of the golf holes. These templates are also used as a guide to rough cut the carpeting for the holes. Owners typically complete the installation of an 18-Hole course within 2 weeks.

Included in all **Micro-Golf®** packages:

1. Customized, one of a kind, computer aided hole layout course design (in AutoCAD) generated from an owner supplied site plan.
2. Hole templates, which can be provided prior to the course arrival.
3. Carpeting and carpet adhesive.
4. Brick edging and concrete adhesive.
5. All the necessary assembly hardware.
6. Lifting bolts and bars for assembly.
7. A "How To" Installation Instruction booklet.
8. 9-Hole courses include two (2) multi-cup holes and two (2) movable boulder obstacles, three (3) fixed post clusters, two (2) putt-through logs, one (1) stump and various simulated sand traps and roughs.
18-Hole courses include four (4) multi-cup holes, and four (4) movable simulated boulders, six (6) fixed clusters, four (4) putt-through logs, two (2) stumps and various sand traps and roughs.
9. Palletize holes for shipping via closed body truck trailer.
10. Marketing, maintenance and operations manual.

HEADQUARTERS:	4201 HIGHWAY P	JACKSON	WI	53037	(262) 677-6060	(800) 221-7625	FAX (262) 677-6020
SOUTHERN OFFICE:	6467 HAZELTINE NATIONAL DR STE 155	ORLANDO	FL	32822	(407) 818-2110	(800) 778-0071	FAX (407) 818-2113
WESTERN OFFICE:	3400 HARBOR AVENUE SW STE 242	SEATTLE	WA	98126	(206) 223-6777	(888) 567-2678	FAX (206) 223-0566

WEBSITE: www.costofwisconsin.com

Potential Revenue for a Miniature Golf Course at the WARF

Please find below estimates for potential revenue on an 18-hole miniature golf course . The example below is based on charging \$5 per game.

Initial Cost	\$36,000
Potential Grant	\$25,000
Town's Investment	\$11,000

	Daily	Prime Mth	3 Prime Mth	50% of Prime Mth	5 off Months	3 Prime and 5 off Months
10%	\$423.00	\$10,575.00	\$31,725.00	\$5,287.50	\$26,437.50	\$58,162.50
15%	\$634.50	\$15,862.50	\$47,587.50	\$7,931.25	\$39,656.25	\$87,243.75
20%	\$846.00	\$21,150.00	\$63,450.00	\$10,575.00	\$52,875.00	\$116,325.00
25%	\$1,057.50	\$26,437.50	\$79,312.50	\$13,218.75	\$66,093.75	\$145,406.25
30%	\$1,269.00	\$31,725.00	\$95,175.00	\$15,862.50	\$79,312.50	\$174,487.50
100%	\$4,230.00					

Based on a 12 hours day with maximum capacity: 18 holes with 4 players = 72 players per hour
 \$5 per game x 72 players = \$360 per hour, 12 hours x \$360 per hour=\$4,230 (100% capacity)
 25 day month (5-6 days rain average)

	Daily	Prime Mth	3 Prime Mth	50% of Prime Mth	5 off Months	3 Prime and 5 off Months
10%	\$360.00	\$9,000.00	\$27,000.00	\$4,500.00	\$22,500.00	\$49,500.00
15%	\$540.00	\$13,500.00	\$40,500.00	\$6,750.00	\$33,750.00	\$74,250.00
20%	\$720.00	\$18,000.00	\$54,000.00	\$9,000.00	\$45,000.00	\$99,000.00
25%	\$900.00	\$22,500.00	\$67,500.00	\$11,250.00	\$56,250.00	\$123,750.00
30%	\$1,080.00	\$27,000.00	\$81,000.00	\$13,500.00	\$67,500.00	\$148,500.00
100%	\$3,600.00					

Based on a 10 hours day with maximum capacity: 18 holes with 4 players = 72 players per hour
 \$5 per game x 72 players = \$360 per hour, 10 hours x \$360 per hour=\$3,600 (100% capacity)
 25 day month (5-6 days rain average)

	Daily	Prime Mth	3 Prime Mth	50% of Prime Mth	5 off Months	3 Prime and 5 off Months
10%	\$288.00	\$7,200.00	\$21,600.00	\$3,600.00	\$18,000.00	\$39,600.00
15%	\$432.00	\$10,800.00	\$32,400.00	\$5,400.00	\$27,000.00	\$59,400.00
20%	\$576.00	\$14,400.00	\$43,200.00	\$7,200.00	\$36,000.00	\$79,200.00
25%	\$720.00	\$18,000.00	\$54,000.00	\$9,000.00	\$45,000.00	\$99,000.00
30%	\$864.00	\$21,600.00	\$64,800.00	\$10,800.00	\$54,000.00	\$118,800.00
100%	\$2,880.00					

Based on a 8 hours day with maximum capacity: 18 holes with 4 players = 72 players per hour
 \$5 per game x 72 players = \$360 per hour, 8 hours x \$360 per hour=\$2,880 (100% capacity)
 25 day month (5-6 days rain average)

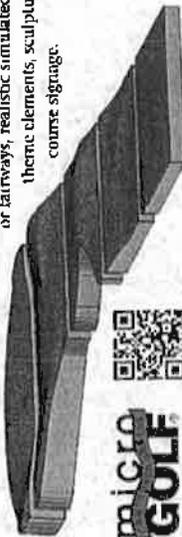


18 Holes in as Little as 4000 sq. ft. (375 sq. meters)

Micro-Golf® is so compact, so flexible, you can place a full 18-hole course in as little as 4000 sq. ft. The exclusive modular system allows course designs to accommodate even the most irregular of spaces. It provides you the advantage of a modular course with no compromise in quality, durability, or style. With over 150 courses worldwide, Micro-Golf® has proven to be a successful miniature golf business venture. You owe it to yourself and your customers to look into Micro-Golf®.

The Latest in Contoured Golf Course Design

Micro-Golf® greens and fairways are contoured to create the look of more expensive on-site constructed courses. The lightweight sections are palletized for easy shipping. The modular system installs easily with the aid of custom templates, detailed blueprints, and installation instructions. Your layout can be installed, expanded, or rearranged as you wish. It can include prefabricated ponds and waterfalls, moveable obstacles for use on greens or fairways, realistic simulated vegetation, theme elements, sculptures, and full course signage.



Jackson, WI - Corporate Headquarters
4201 Highway P, Jackson, WI 53037
262-677-6060 • 1-800-221-7525
Orlando, FL
6457 Hazeltine National Drive, Suite 155, Orlando, FL 32822 407-816-2110 • 1-800-778-0071
Seattle, WA
3400 Harbor Avenue SW, Suite 202, Seattle, WA 98126 206-223-5777 • 1-888-567-2878
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www.microgolf.com

adventure golf with modular flexibility

Micro-Golf®



flexible

contoured

modular

black light

highly-durable

realistic



moveable

themed

contoured

lightweight

black light

flexible

modular



Is it modular or is it poured-in-place... only you will know.

Micro-Golf® offers all the fun and excitement of adventure golf holes at an affordable price. Each course is custom designed to accommodate your parcel of land or interior floor plan.

Micro-Golf® is composed of a durable, yet lightweight, concrete composite for many years of operation. The modular design allows for easy installation by the owner or a local contractor, saving you thousands of dollars over conventional miniature golf course construction.

Micro-Golf® is perfect for indoor or outdoor applications as a complete attraction or as added entertainment at a larger facility.

Your customized Micro-Golf® course can be a 9-hole or an 18-hole package in white light or black light complete with rockwork, waterfalls, theme elements, and more!

customer satisfaction

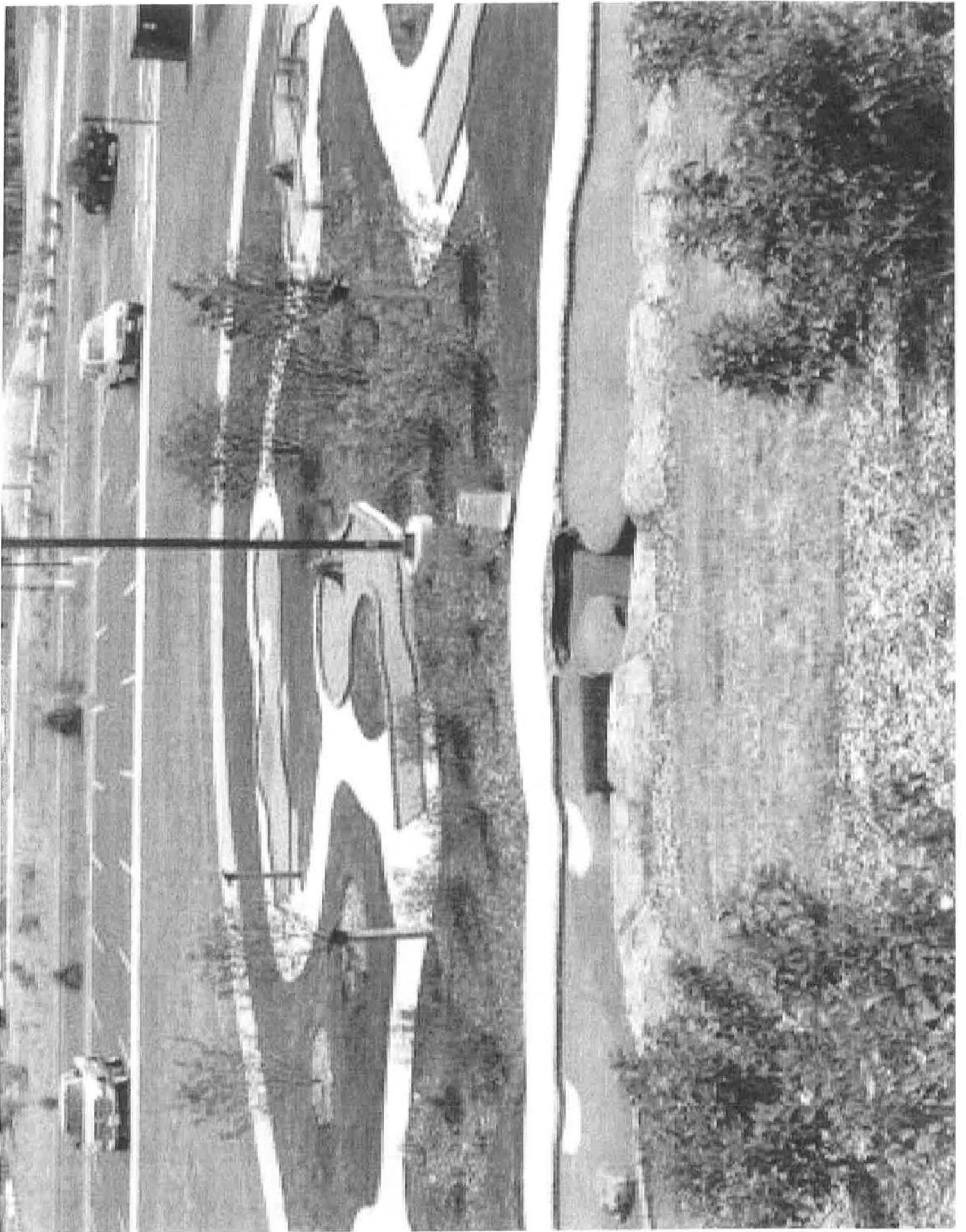
"We are very pleased with the course and the profits we received. Micro-Golf® was cost effective and easy to install."
Chris Meals, Owner of Royal Green Golf Center

"The insight, expertise and flexibility were exactly what the District was looking for. COST provided us with a superior product. We are very pleased with the challenge of play for all ages. The Micro-Golf® design allows for smooth and orderly play on our course."
Roger Schambarger, Splash Land Mini-Golf

"The contours, hazards and theme elements offer the perfect balance of excitement and challenge. My customers love the course."
Jason Bapstus, Valley Lane FEC

"COST's Micro-Golf® provided a beautiful, yet cost effective, miniature golf course. My customers are always complimenting our course."
Roger Peckius, Jr., Owner/GM, Choo Choo Family Fun Center





**TOWN OF WARRENTON
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Number:	PR-17-004	Project Title:	Vehicle Replacement				Department:	Parks & Rec
Estimated Cost:	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>	
Prior Authorization								
Land Acquisition							\$0	
Architecture/Engineering							\$0	
Construction	\$27,000						\$27,000	
TOTAL	\$27,000	\$0	\$0	\$0	\$0	\$0	\$27,000	
Funding Sources:							\$0	
General Fund	\$27,000						\$27,000	
Enterprise Fund							\$0	
Other							\$0	
TOTAL	\$27,000	\$0	\$0	\$0	\$0	\$0	\$27,000	

TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022

Project Description: Purchase of a sport utility vehicle on state contract.

Project Justification: Currently, there are only two vehicles for the department, a 1996 Chevrolet Blazer and a 2003 Ford F150 pickup. There have been many times that we have to use our own vehicles to conduct Town business because of scheduled maintenance, breakdowns, or simply having both vehicles being used at one time.



**TOWN OF WARRENTON
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Number: PR-17-005		Project Title: Timber Fence Trail					Department: Parks & Rec	
Estimated Cost:	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>	
Prior Authorization								
Land Acquisition							\$0	
Architecture/Engineering							\$0	
Construction	\$918,756*						\$918,756	
TOTAL	\$918,756	\$0	\$0	\$0	\$0	\$0	\$918,756	
Funding Sources:							\$0	
General Fund	\$91,876*						\$91,876	
Enterprise Fund							\$0	
Other	826,880*						\$826,880	
TOTAL	\$918,756	\$0	\$0	\$0	\$0	\$0	\$918,756	
<p>* This project is not funded in the FY2017 Capital Improvement Fund Proposed Budget. Funding for this project has been shifted to future years.</p>								

**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Description: Construction of a trail which would connect the WARF and Rady Park. The trail will pass through Fauquier High School property and will connect to Timber Fence Parkway.

Project Justification: Construction of safe trails is vital to building a walkable, bikeable community. Timber Fence Trail will connect two well used recreational amenities; the WARF and Rady Park, providing the community with more opportunities for walking and biking.

A grant application has been filed with the VDOT TAP program. This grant, if awarded, would cover 80% of the cost of constructing the trail. The Town and Fauquier County have agreed to split the remaining costs. The Town would be responsible for making payments on design and construction of the trail and submitting these expenses to VDOT for reimbursement.

This request is contingent upon receiving funding of 80% from the VDOT TAP program.



**TOWN OF WARRENTON
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Number:	PR-17-006	Project Title:	Depot Park - Phases II and III				Department:	Parks & Rec
<u>Estimated Cost:</u>	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>	
Prior Authorization								
Land Acquisition							\$0	
Architecture/Engineering							\$0	
Construction	\$50,000*		\$50,000				\$100,000	
TOTAL	\$50,000	\$0	\$50,000	\$0	\$0	\$0	\$100,000	
<u>Funding Sources:</u>							\$0	
General Fund	\$50,000*		\$50,000				\$100,000	
Enterprise Fund							\$0	
Other							\$0	
TOTAL	\$50,000	\$0	\$50,000	\$0	\$0	\$0	\$100,000	
<p>* This project is not funded in the FY2017 Capital Improvement Fund Proposed Budget. Funding for this project has been shifted to future years.</p>								

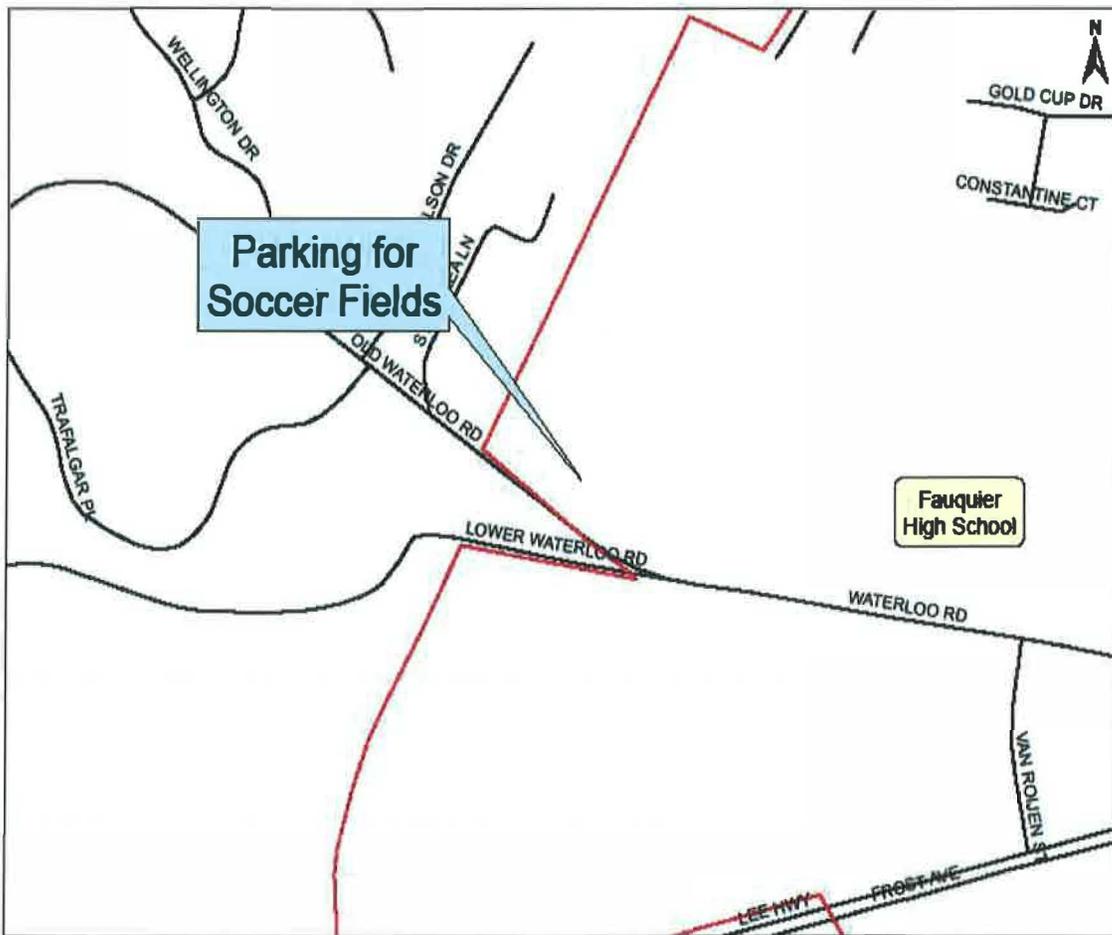
**TOWN OF WARRENTON
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Number:	PR-17-007	Project Title: Parking Improvements for Soccer Fields				Department: Parks & Rec	
<u>Estimated Cost:</u>	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>
Prior Authorization							
Land Acquisition							\$0
Architecture/Engineering							\$0
Construction	\$20,000						\$20,000
TOTAL	\$20,000	\$0	\$0	\$0	\$0	\$0	\$20,000
<u>Funding Sources:</u>							\$0
General Fund	\$20,000						\$20,000
Enterprise Fund							\$0
Other							\$0
TOTAL	\$20,000	\$0	\$0	\$0	\$0	\$0	\$20,000

TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022

Project Description: Parking continues to be a problem on weekends at the WARF complex. Due to the large number of soccer games scheduled, there is little parking available for the WARF, hockey, skate park and Fun for All Playground users. This initiative will provide for using gravel to expand the parking available in the fields area off Rt. 211.

Project Justification: In order to make all facilities in the complex available to their various users, additional parking is needed to accommodate soccer patrons.



**TOWN OF WARRENTON
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Number:	PR-17-008	Project Title: Fields Trail Completion					Department: Parks & Rec
Estimated Cost:	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>
Prior Authorization							
Land Acquisition							\$0
Architecture/Engineering							\$0
Construction	\$40,000*						\$40,000
TOTAL	\$40,000	\$0	\$0	\$0	\$0	\$0	\$40,000
Funding Sources:							\$0
General Fund	\$40,000*						\$40,000
Enterprise Fund							\$0
Other							\$0
TOTAL	\$40,000	\$0	\$0	\$0	\$0	\$0	\$40,000
<p>* This project is not funded in the FY2017 Capital Improvement Fund Proposed Budget. Funding for this project has been shifted to future years.</p>							

**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Description: Complete the trail on the WARF complex property around the fields.

Project Justification: The trails around the fields at the WARF complex are heavily used by walkers, bikers, runners, and school sports teams. Currently, there is an area where the asphalt trail turns to gravel. This project will allow completion of the asphalt trail so that users do not have to adjust to different terrain.



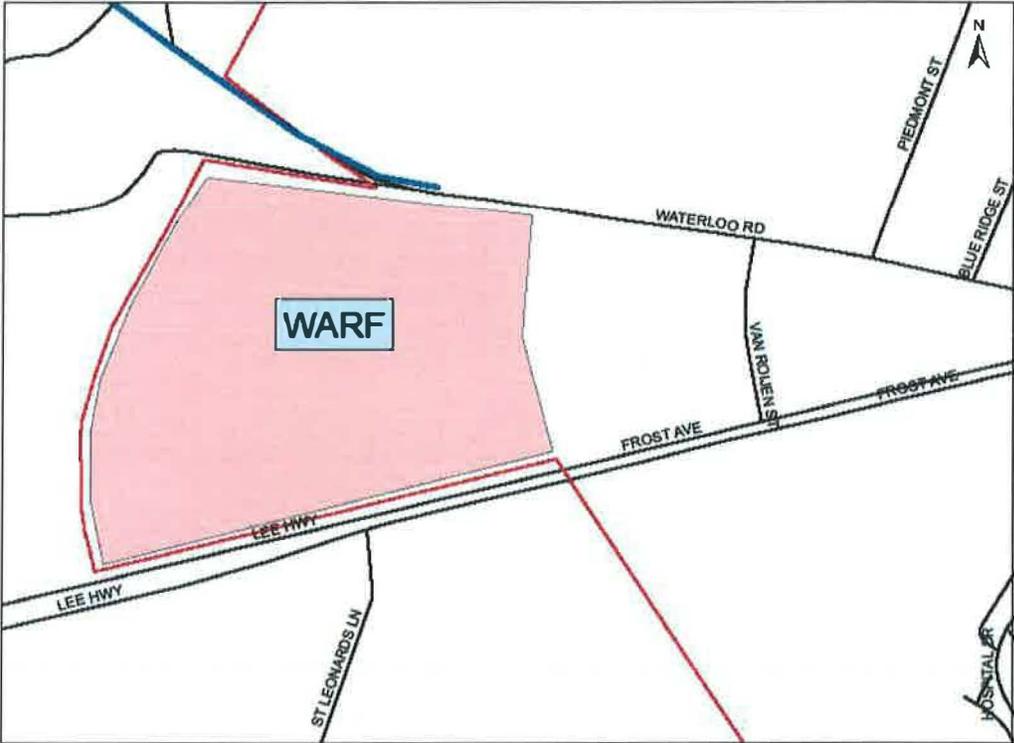
**TOWN OF WARRENTON
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Number:	PR-18-001	Project Title:	WARF Roof				Department:	Parks & Rec
Estimated Cost:	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>	
Prior Authorization								
Land Acquisition							\$0	
Architecture/Engineering							\$0	
Construction		\$105,000					\$105,000	
TOTAL	\$0	\$105,000	\$0	\$0	\$0	\$0	\$105,000	
Funding Sources:							\$0	
General Fund		\$105,000					\$105,000	
Enterprise Fund							\$0	
Other							\$0	
TOTAL	\$0	\$105,000	\$0	\$0	\$0	\$0	\$105,000	

**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Description: Replacement of the flat membrane roof at the Warrenton Aquatic and Recreation Facility. The original roof was poorly installed and has leaked continually since the building was opened. Repeated attempts at repair have been made since the building has been opened. The roofing experts tell us that the roof membrane needs to be replaced.

Project Justification: The original roof was poorly installed. It was covered in repair patches before the building opened to the public. It has had numerous repair attempts made, but has leaked continually since the building was opened.



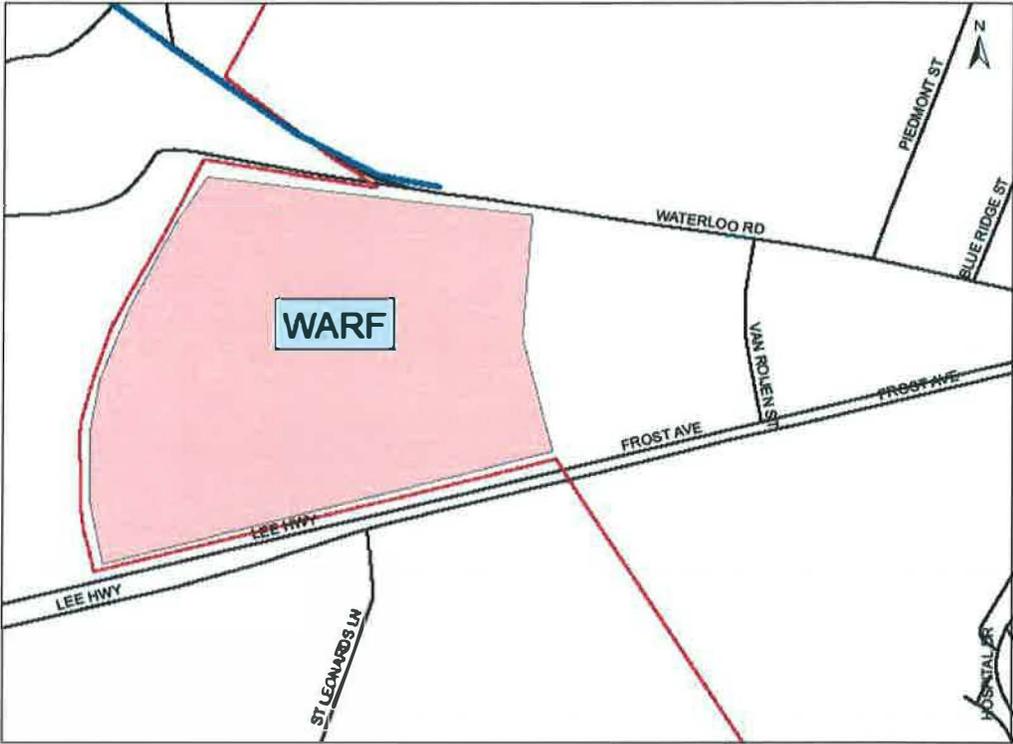
**TOWN OF WARRENTON
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Number:	PR-18-002	Project Title:	UV Disinfection - Pools			Department:	Parks & Rec	
Estimated Cost:	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>	
Prior Authorization								
Land Acquisition							\$0	
Architecture/Engineering							\$0	
Construction		\$35,000	\$30,000	23,000			\$88,000	
TOTAL	\$0	\$35,000	\$30,000	\$23,000	\$0	\$0	\$88,000	
Funding Sources:							\$0	
General Fund		\$35,000	\$30,000	23,000			\$88,000	
Enterprise Fund							\$0	
Other							\$0	
TOTAL	\$0	\$35,000	\$30,000	\$23,000	\$0	\$0	\$88,000	

TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022

Project Description: Add ultraviolet light disinfection to the pools at the WARF.

Project Justification: Ultraviolet light disinfection has been the industry standard for many years now. This is similar to the system that is in place at the Town Water Treatment Plant. UV disinfection was part of the original design of the WARF, but was eliminated to save on construction costs. UV is used as a supplemental disinfection system in combating recreational water illnesses such as e coli, cryptosporidium and giardia. It also has the potential to improve air quality and reduce chemical use.



TOWN OF WARRENTON
 CAPITAL IMPROVEMENTS PROGRAM
 FISCAL YEARS 2017-2022

Project Number:	PR-18-003	Project Title:	HVAC Repair				Department:	Parks & Rec
Estimated Cost:	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>	
Prior Authorization								
Land Acquisition							\$0	
Architecture/Engineering							\$0	
Construction		\$45,000					\$45,000	
TOTAL	\$0	\$45,000	\$0	\$0	\$0	\$0	\$45,000	
Funding Sources:							\$0	
General Fund		\$45,000					\$45,000	
Enterprise Fund							\$0	
Other							\$0	
TOTAL	\$0	\$45,000	\$0	\$0	\$0	\$0	\$45,000	

**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Description: Unforeseen major repair to the HVAC system at the WARF.

Project Justification: While we have a preventative maintenance program, things can and will eventually fail. The equipment at the WARF is commercial grade refrigeration and heating equipment, so repairs can be costly. A single compressor failure of the chiller was estimated to us in 2013 for \$41,938.00. It would be prudent to have this money available in case of an unforeseen failure.



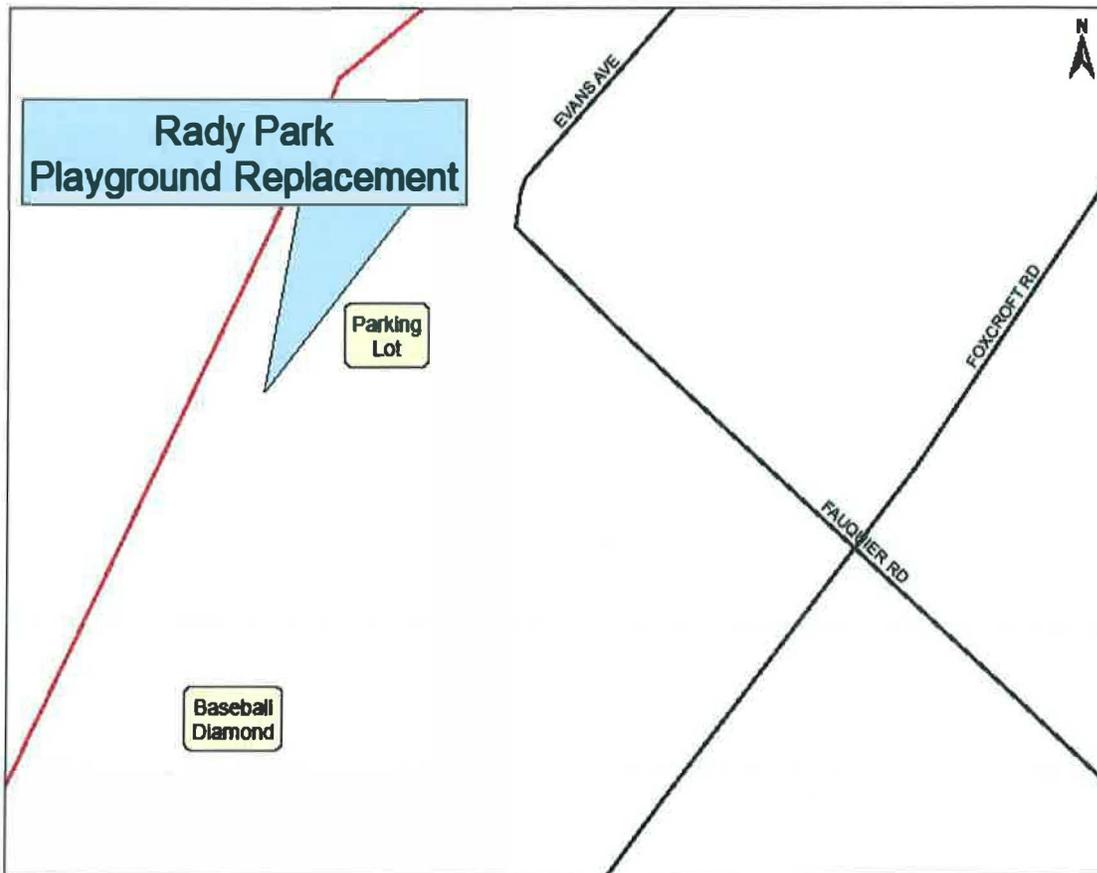
TOWN OF WARRENTON
 CAPITAL IMPROVEMENTS PROGRAM
 FISCAL YEARS 2017-2022

Project Number:	PR-18-004	Project Title:	Rady Park Playground Replacement				Department:	Parks & Rec
Estimated Cost:	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>	
Prior Authorization								
Land Acquisition							\$0	
Architecture/Engineering							\$0	
Construction		\$150,000					\$150,000	
TOTAL	\$0	\$150,000	\$0	\$0	\$0	\$0	\$150,000	
Funding Sources:							\$0	
General Fund		\$150,000					\$150,000	
Enterprise Fund							\$0	
Other							\$0	
TOTAL	\$0	\$150,000	\$0	\$0	\$0	\$0	\$150,000	

TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022

Project Description: Replacement of the playground at Rady Park.

Project Justification: Rady Park is one of our most popular and heavily used parks. The playground equipment was installed over 20 years ago and is starting to show its age. It is beyond the manufacturer's intended service life and should be replaced. The intention is to replace the equipment with a more modern, themed playground set, so that children of all abilities will be able to enjoy.



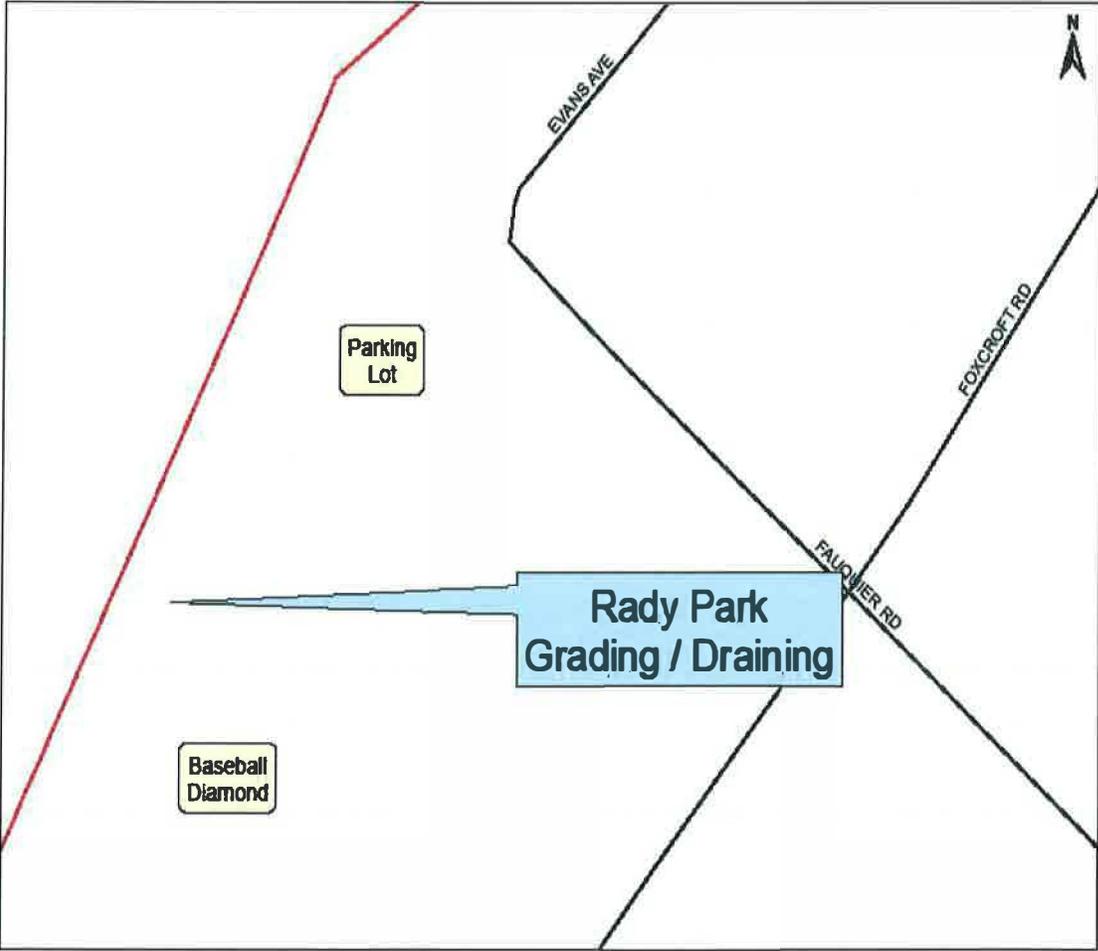
**TOWN OF WARRENTON
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Number:	PR-18-005	Project Title:	Rady Park Grading/Drainage				Department:	Parks & Rec
Estimated Cost:	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>	
Prior Authorization								
Land Acquisition							\$0	
Architecture/Engineering							\$0	
Construction		\$15,000					\$15,000	
TOTAL	\$0	\$15,000	\$0	\$0	\$0	\$0	\$15,000	
Funding Sources:							\$0	
General Fund		\$15,000					\$15,000	
Enterprise Fund							\$0	
Other							\$0	
TOTAL	\$0	\$15,000	\$0	\$0	\$0	\$0	\$15,000	

TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022

Project Description: Brush removal, drainage and grading at Rady Park.

Project Justification: There is a wooded area between the trail and the open fields. There is a lot of overgrowth, standing water and trees in poor condition. The goal would be to remove the trees in poor condition, prune the mature trees in good condition to reduce the canopy and allow sunlight in. Proper drainage and grading, as well as removing the overgrowth and planting grass would make this into usable park space.



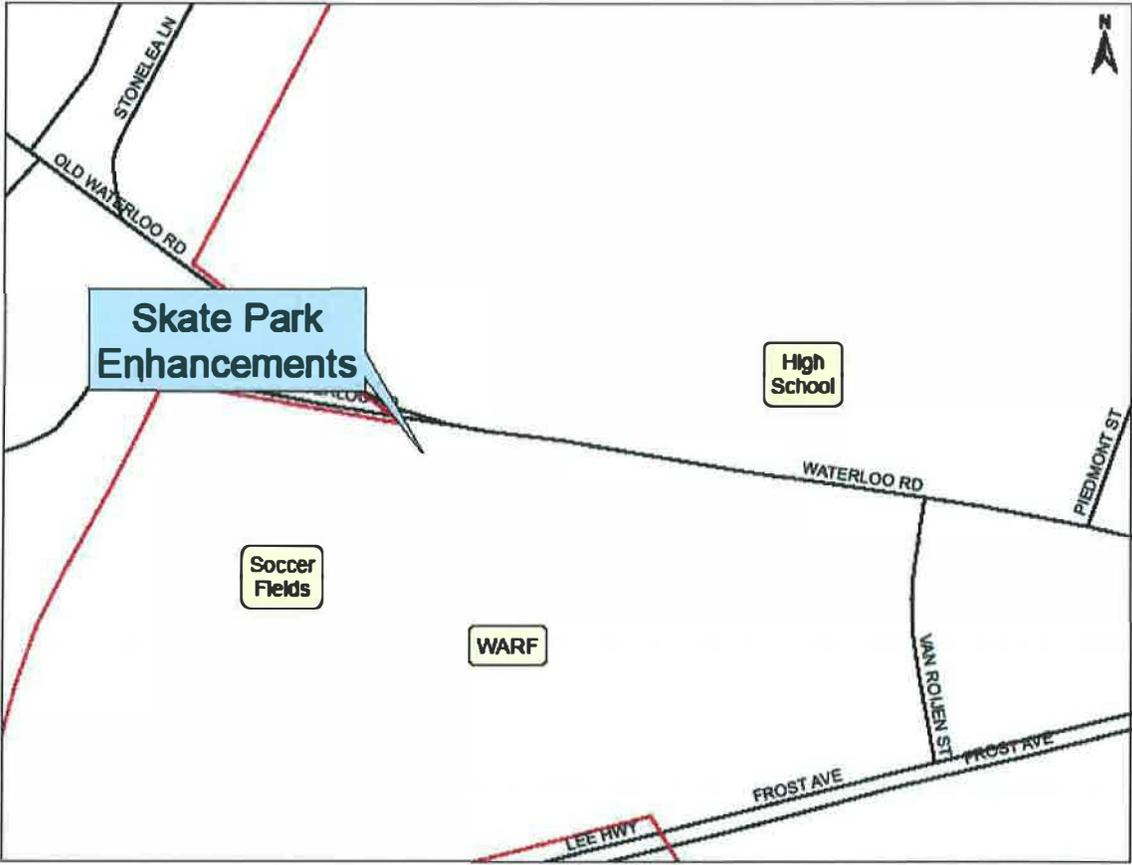
**TOWN OF WARRENTON
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Number:	PR-18-006	Project Title: Skate Park Enhancements					Department: Parks & Rec
<u>Estimated Cost:</u>	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>
Prior Authorization							
Land Acquisition							\$0
Architecture/Engineering							\$0
Construction		\$10,000					\$10,000
TOTAL	\$0	\$10,000	\$0	\$0	\$0	\$0	\$10,000
<u>Funding Sources:</u>							\$0
General Fund		\$10,000					\$10,000
Enterprise Fund							\$0
Other							\$0
TOTAL	\$0	\$10,000	\$0	\$0	\$0	\$0	\$10,000

TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022

Project Description: Add an additional obstacle at the skate park which will provide a challenge to those at a more advanced skill level.

Project Justification: The current park is nine years old and needs to provide continuing challenges to the athletic skater in order to keep users coming back instead of seeking other (inappropriate) areas of the Town for their use.



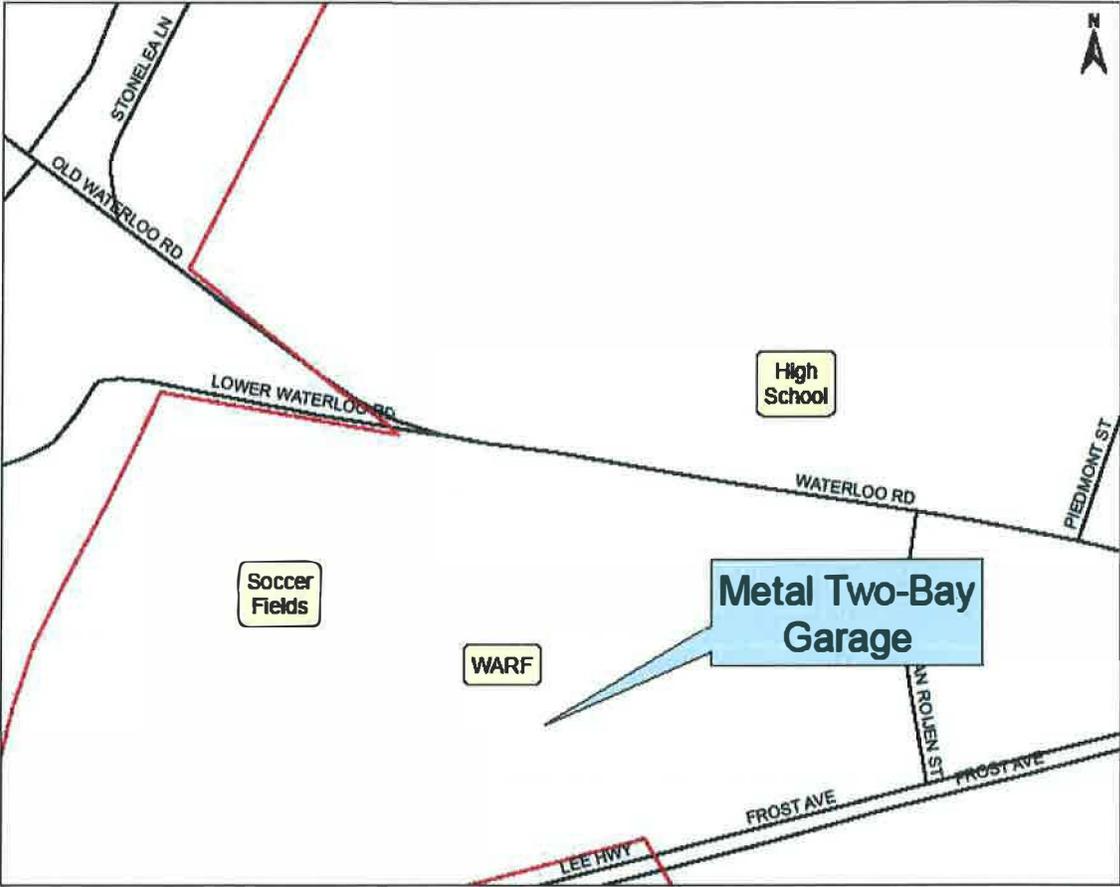
TOWN OF WARRENTON
 CAPITAL IMPROVEMENTS PROGRAM
 FISCAL YEARS 2017-2022

Project Number:	PR-19-001	Project Title:	Metal Two-Bay Garage				Department:	Parks & Rec
Estimated Cost:	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>	
Prior Authorization								
Land Acquisition							\$0	
Architecture/Engineering							\$0	
Construction			\$40,000				\$40,000	
TOTAL	\$0	\$0	\$40,000	\$0	\$0	\$0	\$40,000	
Funding Sources:							\$0	
General Fund			\$40,000				\$40,000	
Enterprise Fund							\$0	
Other							\$0	
TOTAL	\$0	\$0	\$40,000	\$0	\$0	\$0	\$40,000	

TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022

Project Description: Construction of a two-bay prefab metal garage behind the WARF.

Project Justification: When the WARF was built, we did not have any parks to take care of. Since that time, we have taken on care of several parks, with future parks being planned. We need a place to store materials and equipment, as well as space for future needs.



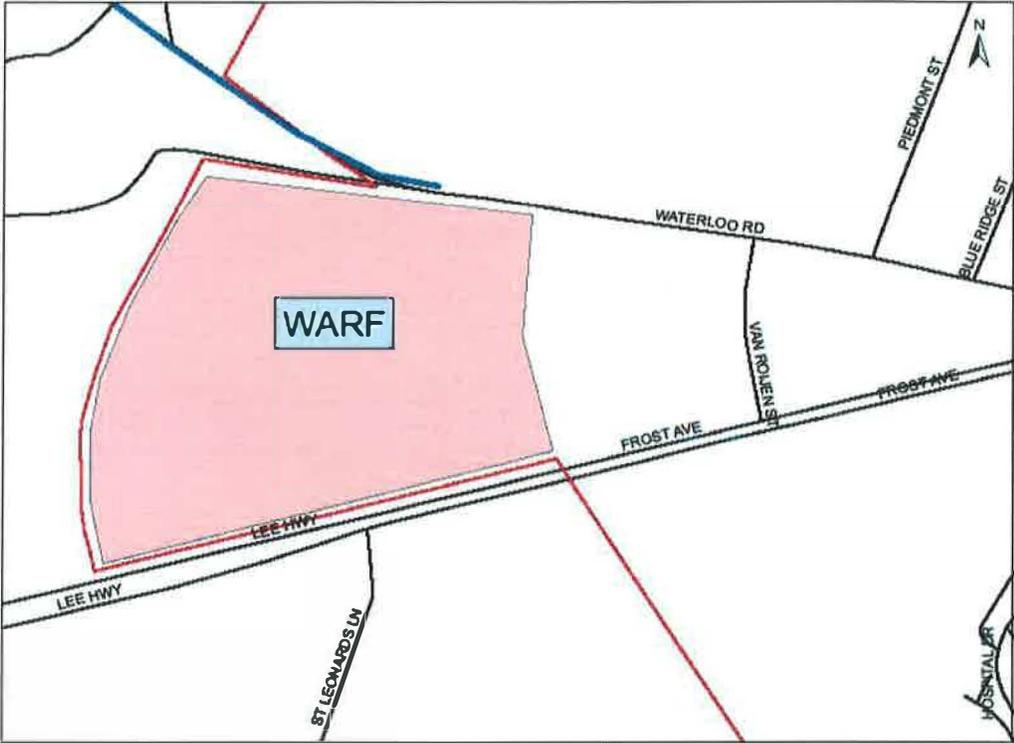
**TOWN OF WARRENTON
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Number:	PR-19-002	Project Title:	Carpet for the WARF's Business Office				Department:	Parks & Rec
Estimated Cost:	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>	
Prior Authorization								
Land Acquisition							\$0	
Architecture/Engineering							\$0	
Construction			\$20,000				\$20,000	
TOTAL	\$0	\$0	\$20,000	\$0	\$0	\$0	\$20,000	
Funding Sources:							\$0	
General Fund			\$20,000				\$20,000	
Enterprise Fund							\$0	
Other							\$0	
TOTAL	\$0	\$0	\$20,000	\$0	\$0	\$0	\$20,000	

TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022

Project Description: Replace the carpet in the WARF's Business Office.

Project Justification: By 2018, the carpet in the WARF's Business Office will be 11 years old and will need to be replaced.



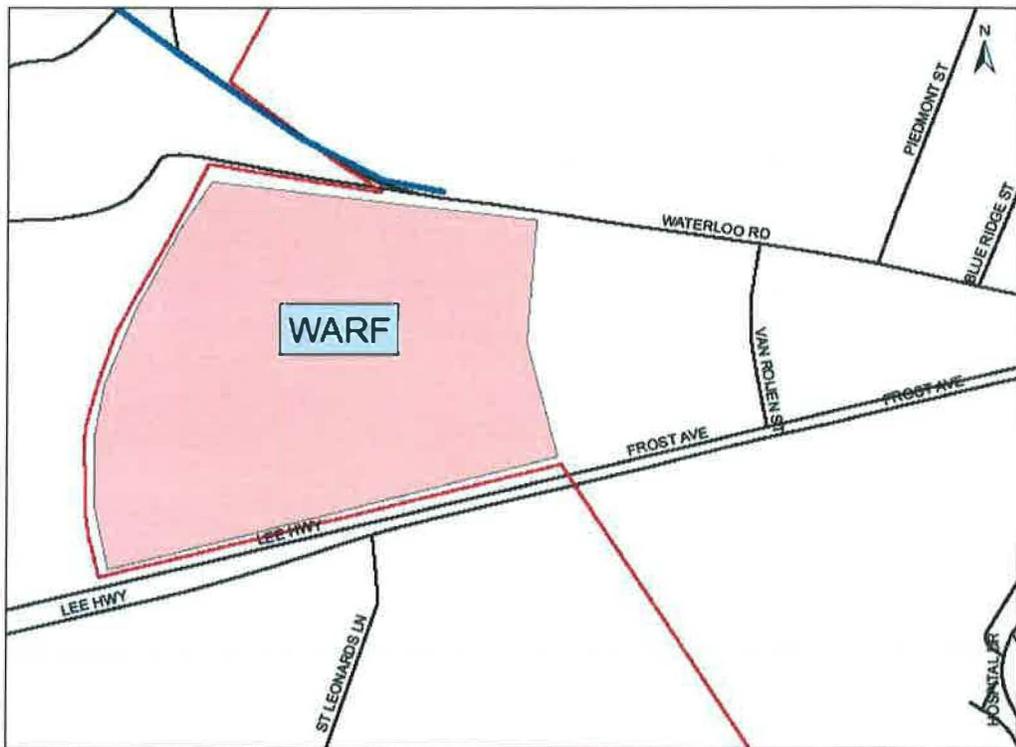
**TOWN OF WARRENTON
 CAPITAL IMPROVEMENTS PROGRAM
 FISCAL YEARS 2017-2022**

Project Number:	PR-19-003	Project Title:	Tractor				Department:	Parks & Rec
Estimated Cost:	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>	
Prior Authorization								
Land Acquisition							\$0	
Architecture/Engineering							\$0	
Construction			\$48,000				\$48,000	
TOTAL	\$0	\$0	\$48,000	\$0	\$0	\$0	\$48,000	
Funding Sources:							\$0	
General Fund			\$48,000				\$48,000	
Enterprise Fund							\$0	
Other							\$0	
TOTAL	\$0	\$0	\$48,000	\$0	\$0	\$0	\$48,000	

TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022

Project Description: Tractor with front-end loader, backhoe and bush hog for the WARF.

Project Justification: At the present time, we have no heavy equipment to take care of tasks at the parks. A tractor could be used for every day maintenance tasks, as well as park improvements.



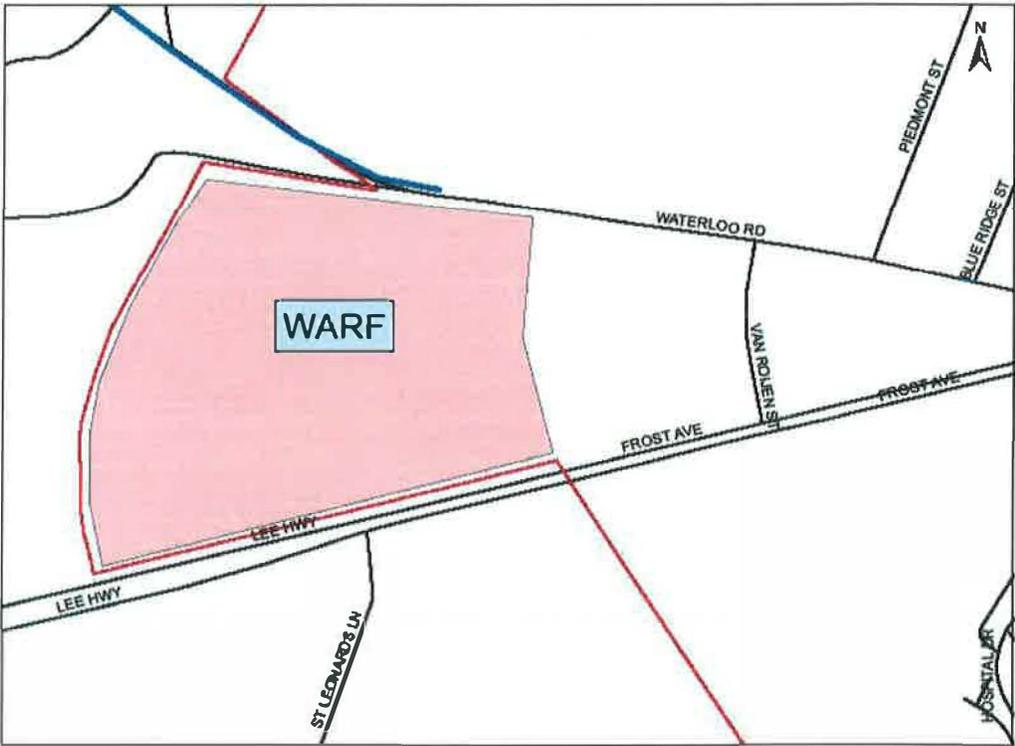
TOWN OF WARRENTON
 CAPITAL IMPROVEMENTS PROGRAM
 FISCAL YEARS 2017-2022

Project Number:	PR-20-001	Project Title:	WARF Curb				Department:	Parks & Rec	
<u>Estimated Cost:</u>	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>		
Prior Authorization									
Land Acquisition							\$0		
Architecture/Engineering							\$0		
Construction				90,000			\$90,000		
TOTAL	\$0	\$0	\$0	\$90,000	\$0	\$0	\$90,000		
<u>Funding Sources:</u>							\$0		
General Fund				90,000			\$90,000		
Enterprise Fund							\$0		
Other							\$0		
TOTAL	\$0	\$0	\$0	\$90,000	\$0	\$0	\$90,000		

TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022

Project Description: Add curbing to the WARF parking lot and parking lot islands.

Project Justification: When the WARF was constructed, much of the parking lot remained without curbing. This has caused many issues over the years with stormwater runoff, illegal parking and soil containment. It has also caused us to make numerous repairs to the turf caused by vehicle tires overshooting the paved parking spaces.



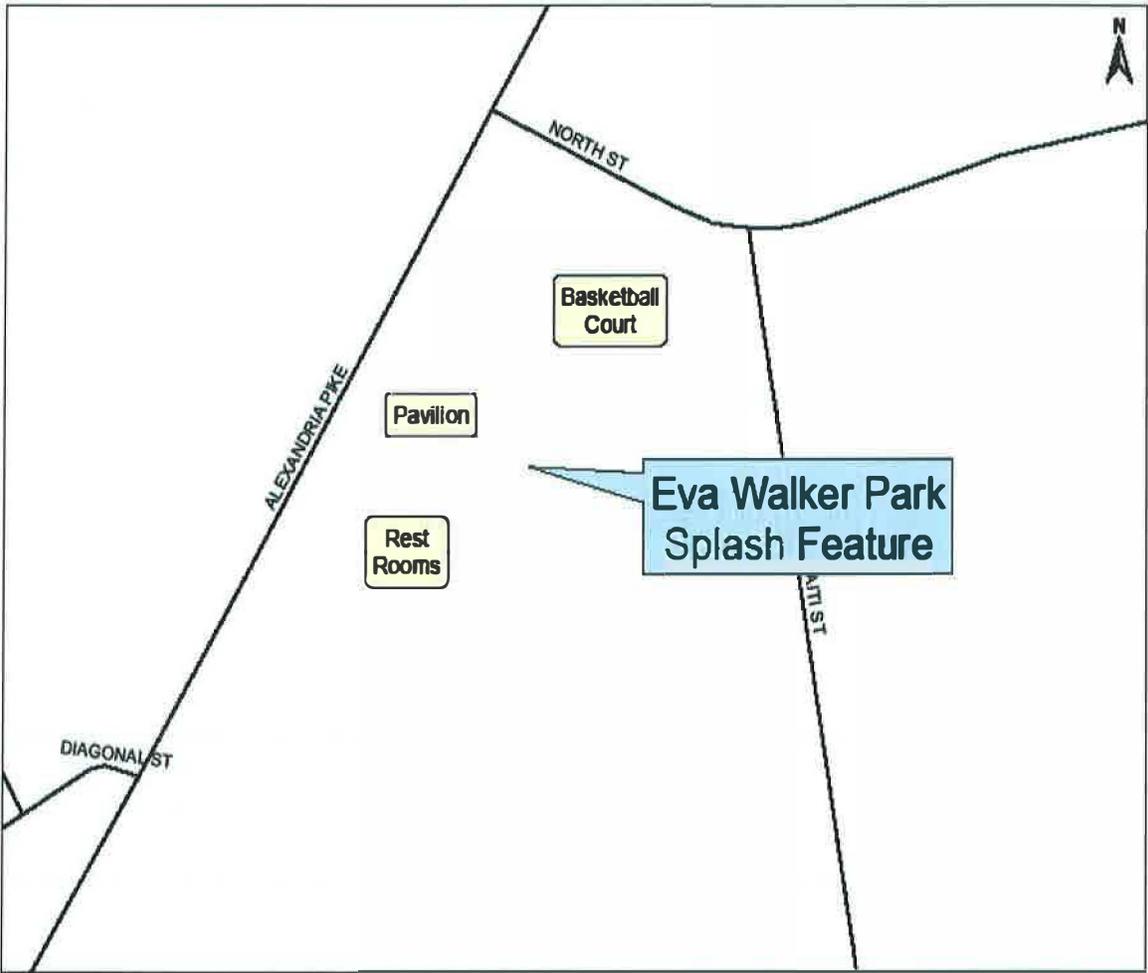
**TOWN OF WARRENTON
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Number: PR-20-002		Project Title: Eva Walker Park Splash Feature				Department: Parks & Rec		
Estimated Cost:	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>	
Prior Authorization								
Land Acquisition							\$0	
Architecture/Engineering							\$0	
Construction				35,000			\$35,000	
TOTAL	\$0	\$0	\$0	\$35,000	\$0	\$0	\$35,000	
Funding Sources:							\$0	
General Fund				35,000			\$35,000	
Enterprise Fund							\$0	
Other							\$0	
TOTAL	\$0	\$0	\$0	\$35,000	\$0	\$0	\$35,000	

TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022

Project Description: Installation of a small splash fountain at Eva Walker Park.

Project Justification: Installation of a small splash feature at Eva Walker Park would provide an additional summer recreation choice for children of the community. A small splash fountain would allow children to enjoy the park in an additional way during the hot days of summer. The fountain would have motion detectors so that water would run only when the fountain is in use.



**CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Number:	FD17-001	Project Title:	Ladder Truck Replacement				Department:	Fire Department	
Estimated Cost:	<u>2016-17</u>	<u>2017-18</u>	<u>2018-19</u>	<u>2019-20</u>	<u>2020-21</u>	<u>2022 and Beyond</u>	<u>Total</u>		
Prior Authorization									
Land Acquisition							\$0		
Architecture/Engineering							\$0		
Construction/Purchase	\$150,000						\$150,000		
TOTAL	\$150,000	\$0	\$0	\$0	\$0	\$0	\$150,000		
Funding Sources:							\$0		
General Fund	\$150,000						\$150,000		
Enterprise Fund							\$0		
Other							\$0		
TOTAL	\$150,000	\$0	\$0	\$0	\$0	\$0	\$150,000		

**TOWN OF WARRENTON, VIRGINIA
CAPITAL IMPROVEMENTS PROGRAM
FISCAL YEARS 2017-2022**

Project Description:

The current in-service ladder truck has reached its end of useful life. The WVFC apparatus replacement program outlines the need for a new, front-line ladder truck every 20 years. This is for a variety of reasons to include maintenance costs, annual and periodical third party testing, overall reliability, and aging technology. The goal is to sell the 1996 model year ladder truck to help recoup some of the projected \$1.2M replacement cost. The current ladder truck is still in good shape, well maintained, and adequate for its mission with us, however time is passing for this to stay that way. The current ladder truck will make a great addition to another fire department's fleet who does not have a ladder truck and is in need, or an agency that is looking for a reliable reserve/back up unit to complement its current fleet.

Project Justification:

A work group has been formed within the WVFC to start the process of creating specifications for a new ladder truck, with a goal of ordering after July 1, 2016. This is tentatively planned for the new budget year and based on receiving these funds to assist with overall costs. This funding allotment is to be used solely for the purchase of a new ladder truck will allow the WVFC to carry on with its current planning and funding obligations (replacing firefighter turnout gear, repair and maintenance of apparatus and equipment and other such things to maintain our current operational capacity).

Once ordered, the vendor will need approximately 10 months of build time. This will be followed by 2-3 months of time needed by the WVFC to equip train and overall accept the vehicle to ensure it is exactly what was ordered. The new ladder truck will be run and operated for at least 20 years FY2036-37.

