

LEXINGTON, VIRGINIA  
CAPITAL IMPROVEMENTS PLAN  
FY2019 – FY2023



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**To:** Honorable Mayor and City Council  
**From:** Noah A. Simon, City Manager  
**Subject:** FY19 Five-Year Capital Improvements Plan  
**Date:** March 2, 2018

I am pleased to present to you the proposed FY19 five (5) year Capital Improvements Plan (CIP). This proposed CIP includes more than \$3.8 million in FY19 in general fund capital projects and represents a continued effort towards addressing much needed projects in Lexington.

In FY18, the City budgeted \$2,298,430 from the General Fund and \$875,610 from the Utility Fund to support capital projects. In FY19, I am proposing to increase those figures with cash, grants and Virginia Department of Transportation (VDOT) funds by \$1,545,010 for totals of \$3,843,440 in the General Fund and \$4,442,285 in the Utility Fund (includes bond proceeds). While our capital needs continue to be significant, our focus is on a comprehensive strategy going forward so that funds are wisely allocated to address project needs.

The CIP presented contains information that reflects projects, priorities, financial and program analysis, cash flow projections and sources of revenues. The FY19 CIP represents the current priorities and staff's best effort to develop a comprehensive program that represents a complete picture of both short term, mid-term, and long term (beyond five years) project needs. City Council input was also included in the development of the FY19 CIP. Projects determined to have highest need are given the highest priority for funding in the proposed program. As always, funding projects will be a challenge as there are limits to what can be paid for within budget constraints compared to the overall need that far surpasses available funds.

In FY19, the City continues to leverage and benefit from City dollars with funds from VDOT. The FY19 CIP contains funding of more than \$2 million from VDOT for roads and bridges. Last summer, the City completed numerous street resurfacing projects in FY18. The City will continue paving in the spring of FY18 and the summer of FY19. Additionally, in FY19 the Lime Kiln Road bridge superstructure is scheduled to be replaced.

In addition to brick and mortar projects, funds have been allocated for other City-wide needs including sidewalk repair and replacement, municipal facilities including schools, the outdoor pool and courthouse. The CIP contains funding for best management practices and repairs at the Public Works facility as well as the necessary replacement of breathing apparatuses for the Fire Department.

The City remains in a fragile position in funding future capital projects. The City is sensitive to changes by VDOT for the numerous grants the City aggressively seeks each year for paving, bridge repair and replacement and other capital needs. VDOT programs are always in a "state of flux and uncertainty" owing to insufficient revenues to meet statewide and local needs over the next five to six years. City staff maintains an excellent relationship with VDOT officials and creatively seeks every opportunity to supplement dollars with state grant dollars. The City continues to submit new applications as well as to modify and resubmit applications for projects that were not funded in previous fiscal years. In FY19, the

City hopes to receive a Safe Routes to School grant for sidewalk and other pedestrian improvements in and around Lylburn Downing Middle School.

There is progress with the projects identified in the Utility Fund with the proposed CIP. In FY19, Utility Fund water projects include Taylor Street (Wallace to Houston), Main Street water upgrades and VMI master metering. Those projects total \$2, 563,590. Wastewater projects include Taylor Street (Wallace to Houston), Enfield Area sewer improvements, infiltration and inflow reduction projects, and the Woods Creek Interceptor improvements for a total of \$1,878,695.

The City continues to follow the water and wastewater projects included in the Financial Roadmap. Detailed program and project costs are contained in the attached CIP for both general fund and utility fund projects.

I am recommending City Council conduct the public hearing and adopt the FY19 CIP and project priorities as presented by City Staff.



Pg#	CIP#	Project Title	FY 18/19	FY 19/20	FY 20/21	FY21/22	FY22/23	Not Yet Programmed	Total
		<b>Sub-total</b>	\$ 677,165	\$ 321,500	\$ 250,000	\$ 2,955,557	\$ 260,000	\$ 1,359,807	\$ 5,824,029
		Less: VDOT Funding	\$ (80,000)	\$ -	\$ -	\$ (2,845,557)	\$ -	\$ -	\$ (2,925,557)
		<b>Category Total</b>	<b>\$ 597,165</b>	<b>\$ 321,500</b>	<b>\$ 250,000</b>	<b>\$ 110,000</b>	<b>\$ 260,000</b>	<b>\$ 1,359,807</b>	<b>\$ 2,898,472</b>
		<b>Municipal Facilities</b>							
19-11	GF-71	School Maintenance	\$ 10,000	\$ -	\$ -	\$ 10,000	\$ 10,000	\$ -	\$ 30,000
19-12	GF-73	High School Capital Projects	\$ 25,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ -	\$ 225,000
		City Hall Renovations & Improvements	\$ -	\$ -	\$ 209,559	\$ 2,555,801	\$ -	\$ -	\$ 2,765,359
N-11	GF-81	Public Works Complex	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,879,906	\$ 6,879,906
N-12	GF-105	Replace Piovano Building Emergency Generator	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 35,000	\$ 35,000
19-15	GF-129	Public Works Complex- Best Management Practices 1	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 150,000
20-6	GF-130	Public Works Complex- Best Management Practices 2	\$ -	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ 150,000
19-13	GF-111	Public Works Yard Repairs – Phase 2	\$ 78,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 78,000
20-7	GF-113	Public Works Yard Repairs – Phase 3	\$ -	\$ 123,000	\$ -	\$ -	\$ -	\$ -	\$ 123,000
19-14	GF-125	Replace Fuel Metering System	\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25,000
19-16	GF-131	Courthouse Energy Savings Project	\$ 13,186	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 13,186
19-17	GF-132	Outdoor Pool Capital Projects	\$ 7,500	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ -	\$ 67,500
		<b>Category Total</b>	<b>\$ 308,686</b>	<b>\$ 338,000</b>	<b>\$ 274,559</b>	<b>\$ 2,630,801</b>	<b>\$ 75,000</b>	<b>\$ 6,914,906</b>	<b>\$ 10,461,265</b>
		<b>Parks &amp; Cemeteries</b>							
20-8	GF-85	Stonewall Jackson Cemetery Office Improvements	\$ -	\$ 18,025	\$ 65,580	\$ -	\$ -	\$ -	\$ 83,605
19-18	GF-87	Parks & Playgrounds Upgrades	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ -	\$ 75,000
19-19	GF-115	Install Football Field Irrigation System Brewbaker Field	\$ 24,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 24,000
19-20	GF-133	Jordan's Point Master Plan	\$ 75,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 75,000
		<b>Sub-total</b>	\$ 114,000	\$ 33,025	\$ 80,580	\$ 15,000	\$ 15,000	\$ -	\$ 182,605
		Less: From Cemetery Fund	\$ -	\$ (18,025)	\$ (65,580)	\$ -	\$ -	\$ -	\$ (83,605)
		<b>Category Total</b>	<b>\$ 114,000</b>	<b>\$ 15,000</b>	<b>\$ 15,000</b>	<b>\$ 15,000</b>	<b>\$ 15,000</b>	<b>\$ -</b>	<b>\$ 174,000</b>
		<b>Stormwater</b>							
19-21	GF-122	Stormwater Improvements	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ -	\$ 125,000
19-22	GF-97	Walker St. Drainage Improvements	\$ 240,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 240,000
21-3	GF-99	Alum Springs Rd. Drainage Improvements	\$ -	\$ -	\$ 30,000	\$ 193,000	\$ -	\$ -	\$ 223,000
N-13	GF-117	Enfield Road Drainage Improvements – Phase 2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 190,550	\$ 190,550
		<b>Category Total</b>	<b>\$ 265,000</b>	<b>\$ 25,000</b>	<b>\$ 55,000</b>	<b>\$ 218,000</b>	<b>\$ 25,000</b>	<b>\$ 190,550</b>	<b>\$ 778,550</b>
		<b>Other</b>							
19-24	GF-134	Moore's Creek Dam- Preliminary Engineering Report	\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25,000
		<b>Funding Sources</b>							

Pg #	CIP#	Project Title						Not Yet	
			FY 18/19	FY 19/20	FY 20/21	FY21/22	FY22/23	Programmed	Total
		VDOT	\$ 2,028,589	\$ -	\$ -	\$ 2,845,557	\$ -	\$ 10,670,513	\$ 15,544,659
		Fire Grants	\$ 250,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 250,000
		Cemetery Fund	\$ -	\$ 18,025	\$ 65,580	\$ -	\$ -	\$ -	\$ 83,605
		General Fund	\$ 1,564,851	\$ 1,186,638	\$ 778,159	\$ 3,375,701	\$ 1,024,830	\$ 9,036,773	\$ 16,966,952
		Total	\$ 3,843,440	\$ 1,204,663	\$ 843,739	\$ 6,221,258	\$ 1,024,830	\$ 19,707,286	\$ 32,845,216

# FY19

Page #	CIP #	Project Title	FY 18/19	Subtotals
		<b><u>Fire Services</u></b>		
19-1	GF-11	Self-Contained Breathing Apparatus Replacement	\$ 285,000	\$ 285,000
		<b><u>Bridges</u></b>		
19-2	GF-17	Moses Mill Rd. (Woods Creek) Bridge Repairs	\$ 114,000	
19-3	GF-19	Jordan St. Bridge Repairs	\$ 106,000	
19-4	GF-23	Lime Kiln Rd. Bridge Superstructure Replacement	\$ 1,948,589	\$ 2,168,589
		<b><u>Streets, Parking, and Sidewalks</u></b>		
19-5	GF-49	Downtown Enhancement Plan	\$ 25,000	
19-6	GF-51	Sidewalk Repairs- City-wide	\$ 35,000	
19-7	GF-53	Street Resurfacing- City-wide	\$ 57,165	
19-9	GF-63	Taylor St. Reconstruction- phase 1	\$ 460,000	
19-10	GF-128	Safe Routes to School Project	\$ 100,000	\$ 677,165
		<b><u>Municipal Facilities</u></b>		
19-11	GF-71	School Maintenance	\$ 10,000	
19-12	GF-73	High School Capital Projects	\$ 25,000	
19-13	GF-111	Public Works Yard Repairs – Phase 2	\$ 78,000	
19-14	GF-125	Replace Fuel Metering System	\$ 25,000	
19-15	GF-129	Public Works Complex- Best Management Practices 1	\$ 150,000	
19-16	GF-131	Courthouse Energy Savings Project	\$ 13,186	
19-17	GF- 132	Outdoor Pool Capital Projects	\$ 7,500	\$ 308,686
		<b><u>Parks &amp; Cemeteries</u></b>		
19-18	GF-87	Parks & Playgrounds Upgrades	\$ 15,000	
19-19	GF-115	Install Football Field Irrigation System Brewbaker Field	\$ 24,000	
19-20	GF-133	Jordan's Point Master Plan	\$ 75,000	\$ 114,000
		<b><u>Stormwater</u></b>		
19-21	GF-122	Stormwater Improvements	\$ 25,000	
19-22	GF-97	Walker St. Drainage Improvements	\$ 240,000	\$ 265,000
		<b><u>Other</u></b>		
19-24	GF-134	Moore's Creek Dam- Preliminary Engineering Report	\$ 25,000	\$ 25,000
		Total		\$ 3,843,440
		<b><u>Funding Sources</u></b>		
		VDOT	\$ 2,028,589	
		Fire Grants	\$ 250,000	
		Cemetery Fund	\$ -	
		General Fund	\$ 1,564,851	



**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF-11

Requesting Department:	Fire and EMS
Category:	Fire Services
Title:	Self Contained Breathing Apparatus Replacement
Status:	No change

Description:	<p>This project is for the replacement of the Self Contained Breathing Apparatus (SCBA) that firefighters wear to breathe clean air during firefighting or hazardous materials exposures. The current cost per unit is \$7000 each with a total of 36 units. Estimated cost for year 2019 is \$285,000.00 This equipment is designed to allow the firefighters to work in environments contaminated by smoke or other toxic fumes and maintain protection of their respiratory system. This is also an OSHA and NIOSH requirement for employers and a standard piece of fire department equipment. LFD partnered with surrounding fire departments in applying for a federal grant to replace all SCBA in the Rockbridge/Lexington/Buena Vista area fire departments. We were unsuccessful in the 2015 grant request for the regional grant and unable to obtain agreement for resubmission. The LFD will submit its own FEMA Fire Act grant request. If this grant is obtained we would be responsible for a 10% cost share.</p>
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Justification:	<p>Existing equipment was purchased in 2004 and has a life cycle of 15 years. All compressed air cylinders have a maximum life span of 15 years by federal DOT regulations.</p>
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Estimated Annual Operating Cost:	\$3000
Work Performed:	In-House

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$35,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$35,000
<i>Fill in other type</i>	\$250,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$250,000
<b>TOTAL</b>	<b>\$285,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$285,000</b>





**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF-17

Requesting Department:	Public Works
Category:	Bridges
Title:	Moses Mill Rd. (Woods Creek) Bridge Repairs
Status:	No change

Description:	Perform strategic repairs to the North Main Street Bridge (Moses Mill Road) over Woods Creek. This two span continuous steel beam bridge is nominally 53 feet long by 24 feet wide. This structure has been rated in “GOOD” condition, but repairs are recommended to maintain the bridge’s structural integrity, safety and reliability. These repairs include repointing masonry abutment joints, patching of spalled and delaminated concrete throughout the structure, beam shimming and reseating, remedies for abutment undermining, and upgrade of approach guardrails and terminals.
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Justification:	This structure is sixty-three (63) years old. Its metal decking exhibits areas of corrosion. One steel beam is elevated above the abutment seat. Concrete bridge abutments, bearing seats, retaining walls and footings display evidence of spalling, scaling and delamination. Abutment footings show evidence of undermining. One of the bridge’s guardrail terminals has experienced impact damage. This bridge was inspected by the City’s structural consultant, Schwartz and Associates. The repairs outlined herein are per their recommendation.
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Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

<b>Funding Summary</b>							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$114,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$114,000
<i>Fill in other type</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$114,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$114,000



**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF-19

Requesting Department:	Public Works
Category:	Bridges
Title:	Jordan St. Bridge Repairs
Status:	No change

Description:	Perform strategic repairs to the Jordan Street bridge over Woods Creek. This single span galvanized steel beam bridge is nominally 36 feet long by 18 feet wide. This structure has been rated in "SATISFACTORY" condition, but repairs are recommended to maintain the bridge's structural integrity, safety and reliability. These repairs include repaving the asphalt approaches, patching of spalled and delaminated concrete throughout the structure, beam shimming and reseating, remedies for abutment undermining, and upgrade of approach guardrails and terminals.
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Justification:	This structure is ninety (90) years old. This bridge's superstructure has been replaced in recent years; however, no work has been performed on its substructure. Concrete bridge abutments, breastwalls and wings display evidence of spalling and delamination. Abutment footings show evidence of undermining. Bridge approach paving has settled significantly. This bridge was inspected by the City's structural consultant, Schwartz and Associates. The repairs outlined herein are per their recommendation.
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Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

<b>Funding Summary</b>							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$106,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$106,000
<i>Fill in other type</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$106,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$106,000



**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF-23

Requesting Department:	Public Works
Category:	Bridges
Title:	Lime Kiln Rd. Bridge Superstructure Replacement
Status:	No change

Description:	Replace the superstructure of Lime Kiln Road bridge over Woods Creek in its entirety. This two span, continuous steel beam bridge is nominally 41 feet long by 23 feet wide. This structure has been rated in "POOR" condition and is approaching the end of its design service life. This bridges continued integrity, safety and reliability are questionable in its present state. This bridge has been rated as structurally deficient by VDOT and is eligible for 100% funding under the State of Good Repair program.
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Justification:	This structure is thirty-eight (38) years old. Its steel deck spans exhibit corrosion, seepage and significant vertical movement. Primary steel support beams, diaphragms and anchors are severely corroded and have sustained extensive section loss and bearing loss. Concrete bridge abutments display evidence of cracking, spalling and undermining. This bridge was inspected by the City's structural consultant, Schwartz and Associates. It is their opinion that full superstructure replacement is warranted given its level of deterioration.
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Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

<b>Funding Summary</b>							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<i>Fill in other type</i>	\$1,948,589	\$ -	\$ -	\$ -	\$ -	\$ -	\$1,948,589
<b>TOTAL</b>	\$1,948,589	\$ -	\$ -	\$ -	\$ -	\$ -	\$1,948,589



**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF-49

Requesting Department:	Public Works
Category:	Streets Parking, and Sidewalks
Title:	Downtown Enhancement Plan
Status:	No change

Description:	This project is intended to provide funds to implement ideas from the Downtown Enhancement Plan. Funds are targeted to smaller projects over the next years.
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Justification:	Like any infrastructure, the public facilities in the City's Downtown Area need continued investment and upgrade. The Downtown Enhancement Plan, accepted in FY14 outlined numerous ideas to improve its attractiveness, enhance pedestrian accommodation, and promote economic viability. Work completed to date has been well received.
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Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$ -	\$125,000
<i>Fill in other type</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$ -	\$125,000



**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF-51

Requesting Department:	Public Works
Category:	Streets Parking, and Sidewalks
Title:	Sidewalk Repairs- City-wide
Status:	No change

Description:	Provides funding to augment annual sidewalk repair and reconstruction. Includes curb and gutter where needed.
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Justification:	The city has about 18 miles of sidewalks. Many are in poor condition and in need of reconstruction or repair. Majority of sidewalks are concrete construction, but a number of neighborhoods, particular older ones, have brick surfaces, which also need repair. Prior funding coupled with this year's request will return sidewalks to a good state of repair. Good sidewalks enhance neighborhood quality of life, safe walkability, and ADA accommodation.
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Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000	\$ -	\$175,000
<i>Fill in other type</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000	\$ -	\$175,000



**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF-53

Requesting Department:	Public Works
Category:	Streets Parking, and Sidewalks
Title:	Street Resurfacing- City-wide
Status:	No change

Description:	Provides funding to augment annual street resurfacing program. Additionally, funding may be applied to these roadways with repaving needs that are not included in the VDOT street inventory.
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Justification:	The pavement condition of many city streets is poor. Ride quality and safety are impaired. Annually the City receives funding from the State for street maintenance, but this funding only covers about 75% of needs. This shortfall equates to about \$200,000 dollars annually. Over many years this under-funding resulted in a significant backlog of resurfacing needs. The city has 50 lane miles of streets for which state funding is received. Additionally, there are 10 lane miles of city streets for which no state funding is received.
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Estimated Annual Operating Cost:	\$Expected reductions in annual maintenance and repair.
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$57,165	\$210,000	\$190,000	\$50,000	\$200,000	\$ -	\$707,165-
<i>Fill in other type</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$57,165	\$210,000	\$190,000	\$50,000	\$200,000	\$ -	\$707,165



**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF-63

Requesting Department:	Public Works
Category:	Streets Parking, and Sidewalks
Title:	Taylor St. Reconstruction- phase 1
Status:	No change

Description:	Remove and replace the entire Taylor Street pavement section, and all associated right-of-way concrete infrastructure, from Wallace Street to Houston Street. Re-profile roadway cross section to generate a more uniform crown and cross slope. The new pavement section shall consist of 8” #21A aggregate base, 4” BM-25 binder asphalt, and 2” SM-9.5 surface asphalt. A new “long slot” CDI will be installed at the northwest corner of Taylor and Houston to prevent storm water from by-passing the existing CDI in this vicinity.
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Justification:	All asphalt and concrete infrastructure within this work zone has surpassed its designed service life. The agglomerated development of Taylor Street itself is suspect from both a design and construction standpoint. Numerous locations along Taylor Street exhibit signs of subgrade failure, pavement oxidation, and pavement cracking. Rehabilitation of this work zone will reduce future maintenance costs and improve roadway “ride” performance and public safety. Increased neighborhood aesthetics improve public moral and property values
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Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

<b>Funding Summary</b>							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$460,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$460,000
<i>Fill in other type</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$460,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$460,000



**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF-128

Requesting Department:	Public Works
Category:	Streets, Parking, and Sidewalks
Title:	Safe Routes to School Project
Status:	New

Description:	In 2017, the City and the Central Shenandoah Planning District Commission teamed to generate a Virginia Department of Transportation Safe Routes to School project for Lylburn Downing Middle School. This project was intended to address pedestrian and bicycle safety and accessibility issues at four locations around the school's campus. Proposed improvements include a Thompson's Knoll sidewalk connection; sidewalk, ADA ramp, and crosswalk upgrades at the school's primary Diamond Street dismissal area; safety modifications to the school's parking lot entrance on Diamond Street; and sidewalk, ADA ramp, and crosswalk upgrades at the intersection of Diamond Street, N. Lewis Street, and Wills Road.
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Justification:	Proposed improvements are necessary to address pedestrian and bicycle safety concerns shared by the school's teachers, staff, and parents.
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Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$20,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$20,000
<i>Fill in other type</i>	\$80,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$80,000
<b>TOTAL</b>	<b>\$100,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$100,000</b>





**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF-71

Requesting Department:	Lexington Schools
Category:	Municipal Facilities
Title:	School Maintenance
Status:	No change

Description:	A systematic approach to maintain the expanded and renovated Lylburn Downing Middle School. This project will be completed over the next five (5) years with approximately 20% of the building painted each year.
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Justification:	It has been eight(8) years since the completion of Lylburn Downing Middle School and areas of the building are in need of painting. Rather than waiting to paint the entire building at once it would be more effective to do a percentage of the building each year. This would allow for the repainting of the building every five (5) years.
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Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

<b>Funding Summary</b>							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$10,000	\$ -	\$ -	\$10,000	\$10,000	\$ -	\$30,000
<i>Fill in other type</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$10,000	\$ -	\$ -	\$10,000	\$10,000	\$ -	\$30,000



**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF-73

Requesting Department:	Lexington Schools
Category:	Municipal Facilities
Title:	High School Capital Projects
Status:	No change

Description:	for yet to be determined project at the high school
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Justification:	to begin to set aside funds for future high school project(s)
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Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$25,000	\$50,000	\$50,000	\$50,000	\$50,000	\$ -	\$225,000
<i>Fill in other type</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$25,00	\$50,000	\$50,000	\$50,000	\$50,000	\$ -	\$225,000



**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF-111

Requesting Department:	Public Works
Category:	Municipal Facilities
Title:	Public Works Yard Repairs – Phase 2
Status:	No change

Description:	Install a new oil/ water separator in front of the Public Works shop to intercept vehicle/ equipment wash down discharges. Project will require removal and replacement of approximately 1,600 square feet of asphalt pavement, installation of an asphalt containment berm, and construction of a new wash down collection system to ensure all discharges are captured and transported to the proposed oil/ water separator.
--------------	--

Justification:	As a municipal entity, the City of Lexington is obligated to serve as an environmental steward and adhere to strict interpretation of all federal and state discharge regulations. While much of these regulations are subject to interpretation for our particular usage, it is deemed prudent to err on the side of caution.
----------------	--

Estimated Annual Operating Cost:	\$3,000
Work Performed:	Contract

<b>Funding Summary</b>							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$78,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$78,000
<i>Fill in other type</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	<b>\$78,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$78,000</b>



**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF-125

Requesting Department:	Public Works
Category:	Municipal Facilities
Title:	Replace Fuel Metering System
Status:	No change

Description:	Project replaces the existing fuel metering system, which registers quantities of gas and diesel fuel dispensed to individual city vehicles and other supported regional organizations. The new system includes both hardware and software to register and track dispensed fuel in a secure and accurate manner.
--------------	--

Justification:	The existing system was installed in 2008 and is approaching the end of its useful service life. Hardware is showing increased failure rate and software is outdated. Annually, 35,000 gallons of fuel is dispensed to vehicles from city departments and supported organizations including regional Tourism and the Maury Express. All departments are allocated their cost share of fuel dispensed and regional organizations are billed for usage. To assure effective internal controls are maintained, the fuel system needs to be reliable and accurate.
----------------	--

Estimated Annual Operating Cost:	\$150
Work Performed:	Contract

<b>Funding Summary</b>							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$25,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$25,000
<i>Fill in other type</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$25,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$25,000



**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF-129

Requesting Department:	Public Works
Category:	Municipal Facilities
Title:	Public Works Complex- Best Management Practices 1
Status:	New

Description:	In 2017, the Virginia Department of Environmental Quality (DEQ) mandated that the City's Public Works complex enter into the State's Industrial Discharge Permit program. Public Work's estimates that the required Waste Management Plan, Stormwater Pollution Prevention Plan, and the permit application itself will be completed in the Spring of 2018. Once this permit is acquired, Public Works complex stormwater discharges must be tested periodically for targeted contaminants. This project was developed to set aside monies for future Best Management Practices (BMPs) that will be identified as part of the permit application process.
--------------	---

Justification:	Public Works anticipates that numerous operational and stormwater related BMPs will be identified as the City proceeds with the development of the mandated DEQ Industrial Stormwater Discharge permit. Monies have been budgeted herein for development and installation of these measures. Once the City is under permit, and stormwater sampling has commenced, additional future measures may be required to remediate specific contaminants.
----------------	---

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

<b>Funding Summary</b>							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$150,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$150,000
<i>Fill in other type</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$150,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$150,000



**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF-131

Requesting Department:	County
Category:	Municipal Facilities
Title:	Courthouse Energy Savings Project
Status:	New

Description:	City's share (25%) of energy savings initiatives which the County plans to implement at the joint court facilities.
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Justification:	A study conducted for the County indicates that energy savings will be generated over a five year period to offset the upfront costs.
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Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

<b>Funding Summary</b>							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$13,186	\$ -	\$ -	\$ -	\$ -	\$ -	\$13,186
<i>Fill in other type</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$13,186	\$ -	\$ -	\$ -	\$ -	\$ -	\$13,186



**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF- 132

Requesting Department:	Pool
Category:	Municipal Facilities
Title:	Outdoor Pool Capital Projects
Status:	New

Description:	funds to be set aside annually for pool improvements per the agreement for operation of the pool by the YMCA.
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Justification:	Pool improvements to be made to increase public utilization of the outdoor pool.
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Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$7,500	\$15,000	\$15,000	\$15,000	\$15,000	\$ -	\$67,500
<i>Fill in other type</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	<b>\$7,500</b>	<b>\$15,000</b>	<b>\$15,000</b>	<b>\$15,000</b>	<b>\$15,000</b>	<b>\$ -</b>	<b>\$67,500</b>



**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF-87

Requesting Department:	Public Works
Category:	Parks and Cemeteries
Title:	Parks & Playgrounds Upgrades
Status:	No change

Description:	This project would provide funding to develop, in conjunction with the neighboring communities, plans for the upgrade of four neighborhood parks: Fairwinds Park, Lime Kiln Park, Richardson Park, and Taylor Street Park. In addition, planning will take place for future improvement of the Kids Playce Playground at Brewbaker Field.
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Justification:	The last major upgrades to the City's neighborhood parks occurred 25 years ago. Presently, playground equipment is considered to be in good condition, but will need to be replaced in the future
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Estimated Annual Operating Cost:	\$500
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$ -	\$75,000
<i>Fill in other type</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$ -	\$75,000





**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF-115

Requesting Department:	Public Works
Category:	Parks and Cemeteries
Title:	Install Football Field Irrigation System Brewbaker Field
Status:	No change

Description:	Project installs an automatic irrigation system for the football field at the Brewbaker sports complex. System consists of stainless steel sports turf heads, commercial grade electric valves, station controller with rain sensor, and system plastic main and lateral lines. Funds are included in the project for a Public Works Crew to connect the new irrigation system to the nearby city water distribution system.
--------------	--

Justification:	The existing irrigation system consists of an antiquated manually assembled and operated configuration of pipes and hoses. This system must be completely assembled and then disassembled at the start and finish of each watering season. When the field is watered, the system must be partially disassembled and relocated approximately every hour to irrigate the entire field. This requires the efforts of several crew members to accomplish. The existing system is labor intensive and inefficient. Crew time could be more effectively and efficiently used in performing other parks and cemeteries tasks. Also, this system must be removed before the start of the annual football season, so watering cannot easily be performed between games during dry or drought periods.
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Estimated Annual Operating Cost:	\$100
Work Performed:	P/W and Contract

<b>Funding Summary</b>							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$24,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$24,000
<i>Fill in other type</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$24,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$24,000



**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF-133

Requesting Department:	City Manager
Category:	Parks and Cemeteries
Title:	Jordan's Point Master Plan
Status:	New

Description:	To provide funds for any master plan for improvements after the Jordan's Point Dam is removed.
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Justification:	To provide funds for any master plan for improvements after the Jordan's Point Dam is removed.
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Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$75,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$75,000
<i>Fill in other type</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	<b>\$75,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$75,000</b>



**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF-122

Requesting Department:	Public Works
Category:	Stormwater
Title:	Stormwater Improvements
Status:	No change

Description:	The City has many areas where the stormwater collection system needs to be improved. Some are for streets where asphalt berms have been used to control run-off, which are proving to be inadequate and some are areas where the underground lines are inadequately sized or in failing structural condition.
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Justification:	The City's stormwater collection system has areas that are insufficient to handle 10-year-design storm events and consists of some very old infrastructure that is failing. Runoff from rainfall events can cause property damage and reduce the neighborhood quality of life. This important component of city infrastructure needs attention.
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Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

<b>Funding Summary</b>							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$ -	\$125,000
<i>Fill in other type</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$ -	\$125,000



**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF-97

Requesting Department:	Public Works
Category:	Stormwater
Title:	Walker St. Drainage Improvements
Status:	No change

Description:	Installs new curb and gutter on the north side of Walker Street, from Houston Street to Nelson Street; and a limited location on the south side adjoining Summit Square Shopping Center.
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Justification:	All properties on the north side of Walker Street are well below the elevation of the roadway, resulting in excessive runoff, erosion and sedimentation to these properties. The City receives complaints and concerns from the residents frequently. An asphalt berm was installed over the years, but this method is only a stopgap, temporary measure.
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Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$240,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$240,000
<i>Fill in other type</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$240,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$240,000

**WALKER STREET  
NORTH SIDE:**

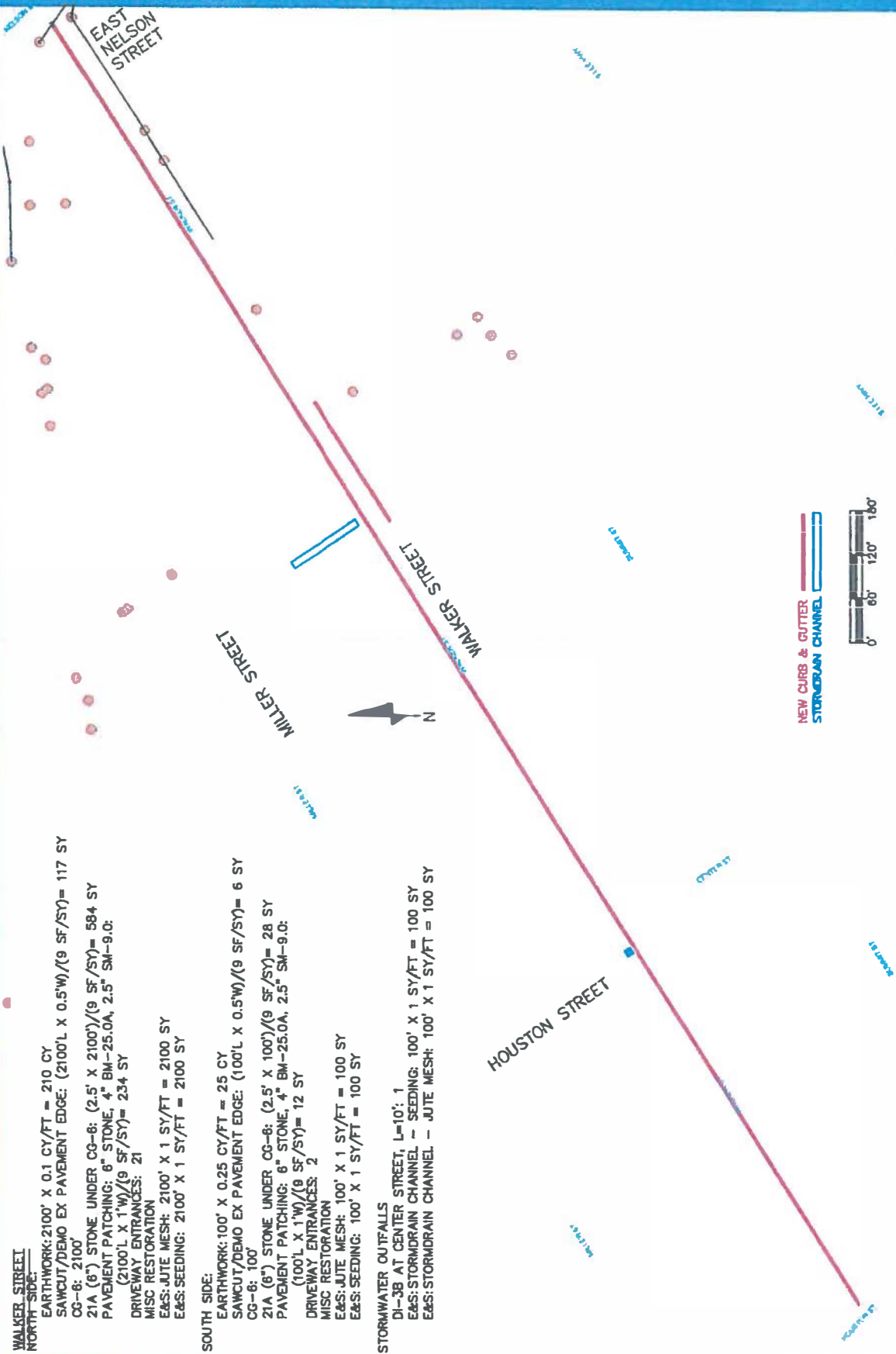
EARTHWORK: 2100' X 0.1 CY/FT = 210 CY  
 SAWCUT/DEMO EX PAVEMENT EDGE: (2100'L X 0.5'W)/(9 SF/SY) = 117 SY  
 CG-6: 2100'  
 21A (6") STONE UNDER CG-6: (2.5' X 2100')/(9 SF/SY) = 584 SY  
 PAVEMENT PATCHING: 6" STONE, 4" BM-25.0A, 2.5" SM-9.0.  
 (2100'L X 1'W)/(9 SF/SY) = 234 SY  
 DRIVEWAY ENTRANCES: 21  
 MISC RESTORATION  
 E&S: JUTE MESH: 2100' X 1 SY/FT = 2100 SY  
 E&S: SEEDING: 2100' X 1 SY/FT = 2100 SY

**SOUTH SIDE:**

EARTHWORK: 100' X 0.25 CY/FT = 25 CY  
 SAWCUT/DEMO EX PAVEMENT EDGE: (100'L X 0.5'W)/(9 SF/SY) = 6 SY  
 CG-6: 100'  
 21A (6") STONE UNDER CG-6: (2.5' X 100')/(9 SF/SY) = 28 SY  
 PAVEMENT PATCHING: 6" STONE, 4" BM-25.0A, 2.5" SM-9.0.  
 (100'L X 1'W)/(9 SF/SY) = 12 SY  
 DRIVEWAY ENTRANCES: 2  
 MISC RESTORATION  
 E&S: JUTE MESH: 100' X 1 SY/FT = 100 SY  
 E&S: SEEDING: 100' X 1 SY/FT = 100 SY

**STORMWATER OUTFALLS**

DI-3B AT CENTER STREET, L=10': 1  
 E&S: STORMDRAIN CHANNEL - SEEDING: 100' X 1 SY/FT = 100 SY  
 E&S: STORMDRAIN CHANNEL - JUTE MESH: 100' X 1 SY/FT = 100 SY



# WALKER STREET: DRAINAGE IMPROVEMENTS

**Civil Consulting  
Group, P.C.**  
ENGINEERING  
DESIGN & ANALYSIS

OCTOBER 2015



**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF-134

Requesting Department:	Public Works
Category:	Dam
Title:	Moore's Creek Dam- Preliminary Engineering Report
Status:	New

Description:	In 2017, the City hired Thompson & Litton, Inc. to generate a Spillway Capacity Analysis, Inundation Study, and Emergency Action Plan for the Moore's Creek Dam. These engineering efforts were required by the Department of Conservation and Recreation (DCR) for the 2018 renewal of the Conditional Operation and Maintenance Permit for this structure. Because this dam is classified as a High Hazard structure, the spillway is required to safely pass one-hundred percent of the Probable Maximum Flood (PMF). Thompson & Litton's Spillway Capacity Analysis indicated that the dams current spillway is only rated for sixty-percent of the PMF. Upon review of this study, DCR's Regional Dam Safety Engineer indicated that the City would be required to develop a Preliminary Engineering Report (PER) addressing modification to the structure's spillway that would bring it into conformance with State criteria.
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Justification:	The City's Moore's Creek Dam is regulated by DCR and subject to all regulations contained within the Virginia Dam Owner's Handbook. The requested PER is required to address documented deficiencies with this structures spillway. This PER will provide options, and associated costs, for modifications to this structure that are required to bring the dam into State compliance.
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Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

<b>Funding Summary</b>							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$25,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$25,000
<i>Fill in other type</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$25,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$25,000

# FY20

Page #	CIP #	Project Title	FY 19/20	Subtotals
		<b><u>Technology</u></b>		
20-1	GF-15	CAMRA Software for Commissioner of the Revenue	\$ 175,000	\$ 175,000
		<b><u>Bridges</u></b>		
20-2	GF-21	Lime Kiln Rd. Bridge Repairs	\$ 148,500	
20-3	GF-29	Barger Lane Bridge Repairs	\$ 138,638	
20-4	GF-31	Moses Mill Rd. (Mill Race) Bridge Repairs	\$ 25,000	\$ 312,138
		<b><u>Streets, Parking, and Sidewalks</u></b>		
19-5	GF-49	Downtown Enhancement Plan	\$ 25,000	
19-6	GF-49	Sidewalk Repairs- City-wide	\$ 35,000	
19-7	GF-49	Street Resurfacing- City-wide	\$ 210,000	
20-5	GF-59	Thompson's Knoll Streets Surface	\$ 51,500	\$ 321,500
		<b><u>Municipal Facilities</u></b>		
19-11	GF-71	School Maintenance	\$ -	
19-12	GF-73	High School Capital Projects	\$ 50,000	
20-6	GF- 130	Public Works Complex- Best Management Practices 2	\$ 150,000	
20-7	GF-113	Public Works Yard Repairs – Phase 3	\$ 123,000	
19-17	GF- 132	Outdoor Pool Capital Projects	\$ 15,000	\$ 338,000
		<b><u>Parks &amp; Cemeteries</u></b>		
20-8	GF-85	Stonewall Jackson Cemetery Office Improvements	\$ 18,025	
19-18	GF-87	Parks & Playgrounds Upgrades	\$ 15,000	\$ 33,025
		<b><u>Stormwater</u></b>		
19-21	GF-122	Stormwater Improvements	\$ 25,000	\$ 25,000
		Total		\$ 1,204,663
		<b><u>Funding Sources</u></b>		
		VDOT	\$ -	
		Fire Grants	\$ -	
		Cemetery Fund	\$ 18,025	
		General Fund	\$1,186,638	
		Total	\$1,204,663	



**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF-15

Requesting Department:	Commissioner of the Revenue
Category:	Real Estate Assessment
Title:	CAMRA Software for Commissioner of the Revenue
Status:	No change

Description:	Replace current CAMRA (real estate software) with new CAMRA software that does not operate on AS400.
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Justification:	Current real estate software operates on AS400. The real estate software is the only software that is being currently run on the AS400. Software is outdated and needs to be replaced. It is not known how long current software provider will be in business.
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Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$ -	\$175,000	\$ -	\$ -	\$ -	\$ -	\$175,000
<i>Fill in other type</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$175,000	\$ -	\$ -	\$ -	\$ -	\$175,000





**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF-21

Requesting Department:	Public Works
Category:	Bridges
Title:	Lime Kiln Rd. Bridge Repairs
Status:	No change

Description:	<p>Perform strategic repairs to the Lime Kiln Road bridge over Woods Creek. This two span, continuous steel beam bridge is nominally 41 feet long by 23 feet wide. This structure has been rated in “POOR” condition and is approaching the end of its design service life. The proposed repairs are intended to extend the structure’s service life an estimated five (5) years, until a full replacement can be funded. Repairs include asphalt wearing course replacement, upgrades to guardrails and terminals, metal deck stabilization, beam and concrete abutment structural repairs, and beam seat shimming and debris removal. This structure is rated as structurally deficient by VDOT and is eligible for 100% funding through the State of Good Repair program. This project has been developed to prolong the structure's life should SGR funding not be received in the near future.</p>
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Justification:	<p>This structure is thirty-eight (38) years old. Its steel deck pans exhibit corrosion, seepage and significant vertical movement. Primary steel support beams, diaphragms and anchors are severely corroded and have sustained extensive section loss and bearing loss. Concrete bridge abutments display evidence of cracking, spalling and undermining. This bridge was inspected by the City’s structural consultant, Schwartz and Associates. It is their opinion these repairs are required to maintain the bridge’s structural integrity, safety and reliability until fully replaced.</p>
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Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

<b>Funding Summary</b>							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$ -	\$148,500	\$ -	\$ -	\$ -	\$ -	\$148,500
<i>Fill in other type</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$148,500	\$ -	\$ -	\$ -	\$ -	\$148,500



**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF-29

Requesting Department:	Public Works
Category:	Bridges
Title:	Barger Lane Bridge Repairs
Status:	No change

Description:	Perform strategic repairs to the Barger Lane Bridge over Sarah's Run (Non NBI Structure). This bridge is of the single reinforced concrete slab span design. This structure has been rated in "FAIR" condition, but repairs are recommended to maintain the bridge's structural integrity, safety and reliability. These repairs include patching all spalled and delaminated concrete throughout the structure, replacement of loose masonry, repointing of masonry joints, and remediation of undermined abutments.
--------------	---

Justification:	This structure is of unknown age. Its concrete slab span exhibits areas of cracking, delamination and seepage. Concrete bridge abutments, breastwalls, and arch facade display evidence of cracking, spalling, scaling and delamination. The bridge's masonry rail system is missing sections of both brick and mortar. This bridge was inspected by the City's structural consultant, Schwartz and Associates. The repairs outlined herein are per their recommendation.
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Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

<b>Funding Summary</b>							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$ -	\$138,638	\$ -	\$ -	\$ -	\$ -	\$138,638
<i>Fill in other type</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$138,638	\$ -	\$ -	\$ -	\$ -	\$138,638



**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF-31

Requesting Department:	Public Works
Category:	Bridges
Title:	Moses Mill Rd. (Mill Race) Bridge Repairs
Status:	No change

Description:	Perform strategic repairs to the North Main Street Bridge (Moses Mill Road) over the Mill Race. This single span concrete T-beam bridge is nominally 23 feet long by 27 feet wide. This structure has been rated in “FAIR” condition, but repairs are recommended to maintain the bridge’s structural integrity, safety and reliability. These repairs include shotcreting/ patching all spalled and delaminated concrete throughout the structure; milling and repaving the asphalt wearing surface; epoxy coating the concrete deck surface; removing and replacing all railings; and upgrade of approach guardrails and terminals.
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Justification:	This structure is eighty-six (86) years old. Its concrete decking exhibits areas of cracking and seepage. Concrete bridge abutments, bearing seats, and parapet walls display evidence of spalling, cracking, scaling and delamination. The bridge rail system is non-standard. The bridge deck wearing surface is potholed and delaminated. This bridge was inspected by the City’s structural consultant, Schwartz and Associates. The repairs outlined herein are per their recommendation.
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Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$ -	\$25,000	\$138,600	\$ -	\$ -	\$ -	\$163,600
<i>Fill in other type</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$25,000	\$138,600	\$ -	\$ -	\$ -	\$163,600



**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF-59

Requesting Department:	Public Works
Category:	Streets Parking, and Sidewalks
Title:	Thompson's Knoll Streets Surface
Status:	No change

Description:	Project provides lay down of hot mix asphalt wearing course, 1 ½ thick, on all streets in the subdivision: Thompson's Knoll, Evans Drive, Murchison Drive, and Alice Street.
--------------	--

Justification:	The asphalt wearing course was not included in the original construction project scope of work. This asphalt layer is necessary to provide a smooth riding surface and to preserve the integrity of the asphalt pavement system in the subdivision.
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Estimated Annual Operating Cost:	\$100
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$ -	\$51,500	\$ -	\$ -	\$ -	\$ -	\$51,500
<i>Fill in other type</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$51,500	\$ -	\$ -	\$ -	\$ -	\$51,500



**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF- 130

Requesting Department:	Public Works
Category:	Municipal Facilities
Title:	Public Works Complex- Best Management Practices 2
Status:	New

Description:	The Public Works Complex-Best Management Practices 1 project was developed to address operational and stormwater specific Best Management Practices (BMPs) arising during development of the Department of Environmental Quality (DEQ) mandated Industrial Discharge Permit. This project was generated to address additional BMPs, or modifications to Phase 1 BMPs, that may be necessitated after a years worth of stormwater sampling data.
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Justification:	This project was developed to set aside monies for additional BMPs, or modifications to Phase 1 BMPs, that may be required once the City has obtained its DEQ Industrial Discharge Permit and has amassed a year's worth of stormwater sampling data. It should be noted that once under permit, the City will be required to make any improvements necessary to ensure stormwater discharges comply with State contaminate thresholds.
----------------	---

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

<b>Funding Summary</b>							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$ -	\$150,000	\$ -	\$ -	\$ -	\$ -	\$150,000
<i>Fill in other type</i>	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$150,000	\$ -	\$ -	\$ -	\$ -	\$150,000



**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF-113

Requesting Department:	Public Works
Category:	Municipal Facilities
Title:	Public Works Yard Repairs – Phase 3
Status:	No Change

Description:	Remove and replace approximately 1,500 square yards of failed or deteriorated asphalt pavement in front of the Public Works office, from the main entry gate to the face of the shop building. The new pavement section shall consist of 8 inches of VDOT #21A stone base, 4 inches of VDOT BM-25 base asphalt, and 2” of VDOT SM-9.5 surface asphalt.
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Justification:	The existing pavement in this area is cracked, rutted and fatigued. Some locations exhibit signs of subgrade failure. It is generally thought that the existing pavement section is under designed for the actual vehicle and equipment loadings imposed. Replacement is warranted in the near future to prevent further subgrade disturbance and increased replacement costs.
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Estimated Annual Operating Cost:	\$0
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$ -	\$123,000	\$ -	\$ -	\$ -	\$ -	\$123,000
<i>Fill in other type</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$123,000	\$ -	\$ -	\$ -	\$ -	\$123,000



**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF-85

Requesting Department:	Public Works
Category:	Parks and Cemeteries
Title:	Stonewall Jackson Cemetery Office Improvements
Status:	No change

Description:	Renovates the existing office, garage, and restrooms; and installs new electrical and heating. Improves drainage, constructs new pavement, and includes new office furnishings.
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Justification:	Office space and restrooms are old and dated. They are inadequate for staff use and present a poor appearance to the general public who visit the cemetery as a tourist destination, to conduct business, and visit family gravesites. Heating and electrical are marginal throughout the building. Funds design in FY 19 and construction in FY20.
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Estimated Annual Operating Cost:	Reduced from present due to greater energy efficiencies.
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$ -	\$ -	\$65,580	\$ -	\$ -	\$ -	\$65,580
<i>Fill in other type</i>	\$ -	\$18,025	\$ -	\$ -	\$ -	\$ -	\$18,025
<b>TOTAL</b>	\$ -	\$18,025	\$65,580	\$ -	\$ -	\$ -	\$83,605

# FY21

Page #	CIP #	Project Title	FY 20/21	Subtotals
		<b><u>Bridges</u></b>		
20-4	GF-31	Moses Mill Rd. (Mill Race) Bridge Repairs	\$ 138,600	
21-1	GF-35	Ross Rd. Bridge Repairs	\$ 45,000	\$ 183,600
		<b><u>Streets, Parking, and Sidewalks</u></b>		
19-5	GF-49	Downtown Enhancement Plan	\$ 25,000	
19-6	GF-49	Sidewalk Repairs- City-wide	\$ 35,000	
19-7	GF-49	Street Resurfacing- City-wide	\$ 190,000	\$ 250,000
		<b><u>Municipal Facilities</u></b>		
19-11	GF-71	School Maintenance	\$ -	
19-12	GF-73	High School Capital Projects	\$ 50,000	
21-2	GF-77	City Hall Renovations & Improvements	\$ 209,559	
19-17	GF- 132	Outdoor Pool Capital Projects	\$ 15,000	\$ 274,559
		<b><u>Parks &amp; Cemeteries</u></b>		
19-18	GF-87	Parks & Playgrounds Upgrades	\$ 15,000	
20-8	GF-85	Stonewall Jackson Cemetery Office Improvements	\$ 65,580	\$ 80,580
		<b><u>Stormwater</u></b>		
19-21	GF-122	Stormwater Improvements	\$ 25,000	
21-3	GF-99	Alum Springs Rd. Drainage Improvements	\$ 30,000	\$ 55,000
		<b>Total</b>		<b>\$ 843,739</b>
		<b><u>Funding Sources</u></b>		
		VDOT	\$ -	
		Fire Grants	\$ -	
		Cemetery Fund	\$ 65,580	
		General Fund	\$ 778,159	
		<b>Total</b>	<b>\$ 843,739</b>	





**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF-35

Requesting Department:	Public Works
Category:	Bridges
Title:	Ross Rd. Bridge Repairs
Status:	No change

Description:	Perform strategic repairs to the Ross Road Bridge over Sarah's Run (Non NBI Structure). This bridge is of the single reinforced concrete slab span design. This structure has been rated in "FAIR" condition, but repairs are recommended to maintain the bridge's structural integrity, safety and reliability. These repairs include patching all spalled and delaminated concrete throughout the structure, milling and repaving wearing course asphalt pavement, epoxy coating concrete deck, sealing cracks on the underside of the deck, and remediation of abutment undermining.
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Justification:	This structure is of unknown age. Its concrete slab span exhibits areas of cracking, spalling and delamination. Concrete bridge abutments, wingwalls, breastwalls, and parapets display evidence of cracking, spalling, and delamination. Bridge abutments show evidence of undermining. This bridge was inspected by the City's structural consultant, Schwartz and Associates. The repairs outlined herein are per their recommendation.
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Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$ -	\$ -	\$45,000	\$247,500	\$ -	\$ -	\$292,500
<i>Fill in other type</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$45,000	\$247,500	\$ -	\$ -	\$292,500



**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF-77

Requesting Department:	Public Works
Category:	Municipal Facilities
Title:	City Hall Renovations & Improvements
Status:	No change

Description:	Provides for total renovation and improvements to City Hall to include complete interior demolition; space study; total interior build-out; new mechanical, electrical, & plumbing; energy efficient windows; basement improvements for storage; site and drainage improvements; generator Installation; and office system furnishings. Complete interior demolition will provide for optimal space utilization and flexibility for organizational changes. The historic character of the exterior will be retained.
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Justification:	The existing building is over one-hundred years old and is in need of complete renovation and improvements to extend service life for another 50 years. The existing building is not energy efficient and space utilization is marginal. The aesthetic appearance of the building is poor for what is the City's flagship facility.
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Estimated Annual Operating Cost:	Reduced from present due to greater energy efficiencies.
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$ -	\$ -	\$209,559	\$2,555,801	\$ -	\$ -	\$2,765,359
<i>Fill in other type</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$209,559	\$2,555,801	\$ -	\$ -	\$2,765,359



**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF-99

Requesting Department:	Public Works
Category:	Stormwater
Title:	Alum Springs Rd. Drainage Improvements
Status:	No change

Description:	Installs new curb and gutter on both sides of Alum Springs Rd., from Borden Rd to Lime Kiln Rd; and on the east side of Lime Kiln Road from Alum Springs to McClungs. Provides for improvements to channel within existing drainage easement behind houses fronting on Lime Kiln Rd.
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Justification:	Residents on both sides of Alum Springs Rd. experience erosion damage to driveway entrances and lawn areas due to excessive runoff from storm events. All properties on the east side of Lime Kiln Rd. are well below the elevation of the roadway resulting in excessive runoff, erosion, and sedimentation to these properties. The City receives complaints and concerns from residents frequently. An asphalt berm was installed over the years, but this method is only a stopgap, temporary measure.
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Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$ -	\$ -	\$30,000	\$193,000	\$ -	\$ -	\$223,000
<i>Fill in other type</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$30,000	\$193,000	\$ -	\$ -	\$223,000

SIXTY WEST DR

**ALUM SPRINGS ROAD: BORDEN TO LIME KILN**

**WEST SIDE:**

EARTHWORK: 850' X 0.25 CY/FT = 213 CY  
 SAWCUT/DEMO EX PAVEMENT EDGE: (850'L X 0.5'W)/(9 SF/SY) = 48 SY  
 CG-6: 850'  
 21A (6") STONE UNDER CG-6: (2.5' X 850')/(9 SF/SY) = 237 SY  
 PAVEMENT PATCHING: 6" STONE, 4" BM-25.0A, 2.5" SM-9.0:  
 (850'L X 1'W)/(9 SF/SY) = 95 SY  
 DRIVEWAY ENTRANCES: 10  
 MISC RESTORATION  
 E&S: JUTE MESH: 850' X 0.33 SY/FT = 281 SY  
 E&S: SEEDING: 850' X 0.33 SY/FT = 281 SY

**EAST SIDE:**

EARTHWORK: 850' X 0.25 CY/FT = 213 CY  
 SAWCUT/DEMO EX PAVEMENT EDGE: (850'L X 0.5'W)/(9 SF/SY) = 48 SY  
 CG-6: 850'  
 21A (6") STONE UNDER CG-6: (2.5' X 850')/(9 SF/SY) = 237 SY  
 PAVEMENT PATCHING: 6" STONE, 4" BM-25.0A, 2.5" SM-9.0:  
 (850'L X 1'W)/(9 SF/SY) = 95 SY  
 DRIVEWAY ENTRANCES: 9  
 MISC RESTORATION  
 E&S: JUTE MESH: 850' X 0.33 SY/FT = 281 SY  
 E&S: SEEDING: 850' X 0.33 SY/FT = 281 SY

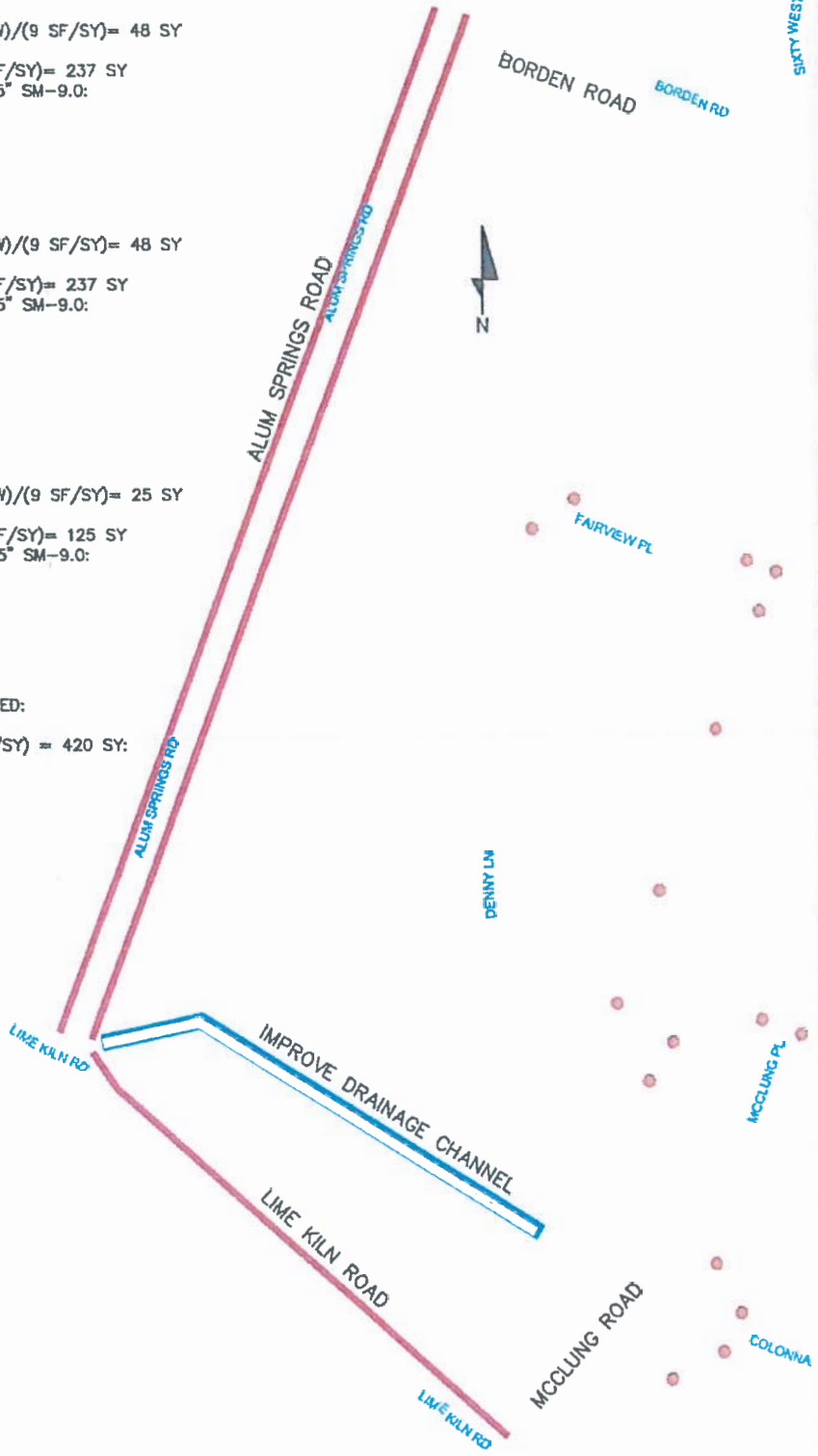
**LIME KILN ROAD: ALUM TO MCCLUNGS**

**EAST SIDE:**

EARTHWORK: 550' X 0.25 CY/FT = 113 CY  
 SAWCUT/DEMO EX PAVEMENT EDGE: (450'L X 0.5'W)/(9 SF/SY) = 25 SY  
 CG-6: 450'  
 21A (6") STONE UNDER CG-6: (2.5' X 450')/(9 SF/SY) = 125 SY  
 PAVEMENT PATCHING: 6" STONE, 4" BM-25.0A, 2.5" SM-9.0:  
 (450'L X 1'W)/(9 SF/SY) = 50 SY  
 DRIVEWAY ENTRANCES: 5  
 MISC RESTORATION  
 E&S: JUTE MESH: 450' X 0.33 SY/FT = 149 SY  
 E&S: SEEDING: 450' X 0.33 SY/FT = 149 SY

**MISCELLANEOUS:**

STORMDRAIN CHANNEL EXCAV, GRASS-LINED, SEEDED:  
 (375L' X 10'W)/(9 SF/SY) = 420 SY:  
 E&S: CHANNEL LINING EC-3 (375L' X 10'W)/(9 SF/SY) = 420 SY:



NEW CURB & GUTTER ———  
 STORMDRAIN CHANNEL ———



# ALUM SPRINGS AND LIMEKILN DRAINAGE IMPROVEMENTS

OCTOBER 2015

# FY22

Page #	CIP #	Project Title	FY 21/22	Subtotals
		<b><u>Bridges</u></b>		
22-1	GF-27	Diamond St. Bridge Repairs	\$ 39,700	
21-1	GF-35	Ross Rd. Bridge Repairs	\$ 247,500	
22-2	GF-45	Welch Park Rd. Bridge Replacement	\$ 114,700	\$ 401,900
		<b><u>Streets, Parking, and Sidewalks</u></b>		
19-5	GF-49	Downtown Enhancement Plan	\$ 25,000	
19-6	GF-51	Sidewalk Repairs- City-wide	\$ 35,000	
19-7	GF-53	Street Resurfacing- City-wide	\$ 50,000	
22-3	GF-127	North Main St. Entry Complete Street Entry Corridor	\$ 2,845,557	\$ 2,955,557
		<b><u>Municipal Facilities</u></b>		
19-11	GF-71	School Maintenance	\$ 10,000	
19-12	GF-73	High School Capital Projects	\$ 50,000	
21-2	GF-77	City Hall Renovations & Improvements	\$ 2,555,801	
19-17	GF- 132	Outdoor Pool Capital Projects	\$ 15,000	\$ 2,630,801
		<b><u>Parks &amp; Cemeteries</u></b>		
19-18	GF-87	Parks & Playgrounds Upgrades	\$ 15,000	\$ 15,000
		<b><u>Stormwater</u></b>		
19-21	GF-122	Stormwater Improvements	\$ 25,000	
21-3	GF-99	Alum Springs Rd. Drainage Improvements	\$ 193,000	\$ 218,000
		Total		\$ 6,221,258
		<b><u>Funding Sources</u></b>		
		VDOT	\$ 2,845,557	
		Fire Grants	\$ -	
		Cemetery Fund	\$ -	
		General Fund	\$ 3,375,701	
		Total	\$ 6,221,258	



**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF-27

Requesting Department:	Public Works
Category:	Bridges
Title:	Diamond St. Bridge Repairs
Status:	No change

Description:	Perform strategic repairs to the Diamond Street Bridge over Town Branch (Non NBI Structure). This bridge is of the double reinforced concrete box culvert design. This structure has been rated in "Satisfactory" condition, but repairs are recommended to maintain the bridge's structural integrity, safety and reliability. These repairs include patching all spalled and delaminated concrete throughout the structure, sealing construction joints, and rail replacement.
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Justification:	This structure is of unknown age. Its concrete barrels and abutment wingwalls exhibit areas of cracking, spalling and delamination. Barrel joints are open and leaking. Bridge rails are broken and out of plumb. This bridge was inspected by the City's structural consultant, Schwartz and Associates. The repairs outlined herein are per their recommendation.
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Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

<b>Funding Summary</b>							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$ -	\$ -	\$ -	\$39,700	\$ -	\$ -	\$39,700
<i>Fill in other type</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$39,700	\$ -	\$ -	\$39,700



**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF-45

Requesting Department:	Public Works
Category:	Bridges
Title:	Welch Park Rd. Bridge Replacement
Status:	No change

Description:	<p>Replace the Welch Park Road bridge over Sarah's Run in its entirety. This single barrel corrugated steel arch pipe culvert is nominally 23 feet long by 30 feet wide. This structure is approaching the end of its design service life. Its condition is deemed substandard given the section loss in the steel arch. This bridges continued integrity, safety and reliability are questionable in its present state. This structure will be replaced by a new concrete box culvert. It is anticipated that future VDOT funds will be acquired for the full cost of replacement.</p>
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Justification:	<p>This structure is fifty-two (52) years old. The steel arch pipe exhibits severe corrosion and section loss in its crown and points of bearing on the abutments. The concrete abutments and wing walls show signs of cracking and undermining. This bridge was inspected by the City's structural consultant, Schwartz and Associates. It is their opinion that full replacement is warranted given its level of deterioration.</p>
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Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$ -	\$ -	\$ -	\$114,700	\$649,830	\$ -	\$764,530
<i>Fill in other type</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$114,700	\$649,830	\$ -	\$764,530



**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF-127

Requesting Department:	Public Works
Category:	Streets, Parking, and Sidewalks
Title:	North Main St. Entry Complete Street Entry Corridor
Status:	No change

Description:	This project addresses multimodal improvements to N. Main Street from Jefferson Street to its juncture with the U.S. Route 11 Bypass. These improvements include eliminating all on-street parking; narrowing the roadway to allow for expansion of existing sidewalks and incorporation of new planting beds; installation of new ADA compliant curbing and walks; patching, milling, and repaving N. Main Street; installation of colored and textured crosswalks; and permanently delineating new bike lanes on both sides of the roadway. The City received 100% project funding in 2017. Project is estimated to go to construction in FY 22.
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Justification:	N. Main Street serves as the City's northern gateway to its vibrant downtown area. N. Main Street is also part of the designated U.S. 76 Bike Route. Unfortunately agglomerated development, the overabundance of side street parking, and the mere age of the City's infrastructure throughout this corridor has led to numerous safety and mobility challenges. Pedestrian and driver safety are at odds with the limited site distances imposed by current on street parking and the lack of clearly defined cross-walks; project sidewalks are non-ADA compliant and riddled with obstructions; roadway pavements are fatigued and rutted; bicycle mobility is significantly impacted by lack of designated bike lanes, uneven pavements, and non-compliant drainage inlet grates; and the attractiveness of this significant entry corridor is diminished by the overabundance of hardscapes and lack of greenery.
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Estimated Annual Operating Cost:	\$0
Work Performed:	Contract

<b>Funding Summary</b>							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<i>Fill in other type</i>	\$ -	\$ -	\$ -	\$2,845,557	\$ -	\$ -	\$2,845,557
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$2,845,557	\$ -	\$ -	\$2,845,557



# FY23

Page #	CIP #	Project Title	FY 22/23	Subtotals
		<b><u>Bridges</u></b>		
22-2	GF-45	Welch Park Rd. Bridge Replacement	\$ 649,830	\$ 649,830
		<b><u>Streets, Parking, and Sidewalks</u></b>		
19-5	GF-49	Downtown Enhancement Plan	\$ 25,000	
19-6	GF-51	Sidewalk Repairs- City-wide	\$ 35,000	
19-7	GF-53	Street Resurfacing- City-wide	\$ 200,000	\$ 260,000
		<b><u>Municipal Facilities</u></b>		
19-11	GF-71	School Maintenance	\$ 10,000	
19-12	GF-73	High School Capital Projects	\$ 50,000	
19-17	GF- 132	Outdoor Pool Capital Projects	\$ 15,000	\$ 75,000
		<b><u>Parks &amp; Cemeteries</u></b>		
19-18	GF-87	Parks & Playgrounds Upgrades	\$ 15,000	\$ 15,000
		<b><u>Stormwater</u></b>		
19-21	GF-122	Stormwater Improvements	\$ 25,000	\$ 25,000
		<b>Total</b>		<b>\$ 1,024,830</b>
		<b><u>Funding Sources</u></b>		
		VDOT	\$ -	
		Fire Grants	\$ -	
		Cemetery Fund	\$ -	
		General Fund	\$ 1,024,830	
		<b>Total</b>	<b>\$ 1,024,830</b>	

# Not Yet Programmed

Page #	CIP #	Project Title	Not Yet Programmed	Subtotals
		<b><u>Bridges</u></b>		
N-1	GF-25	Route 11 Bridge Replacement	\$ 4,500,000	
N-2	GF-33	Rebel Ridge Rd. Bridge Repairs	\$ 201,571	
N-3	GF-37	Route 60 (Woods Creek) Bridge Replacement	\$ 6,170,513	
N-4	GF-41	Thornhill Rd. (Sarah's Run) Bridge Repairs	\$ 189,689	
N-5	GF-43	Thornhill Rd. (Unnamed Tributary) Bridge Repairs	\$ 180,250	\$ 11,242,023
		<b><u>Streets, Parking, and Sidewalks</u></b>		
N-6	GF-57	McCrum's Parking Lot	\$ 255,677	
N-7	GF-61	Swimming Pool Parking Lot Repairs	\$ 197,784	
N-8	GF-65	Taylor St. Reconstruction- phase 2	\$ 347,782	
N-9	GF-67	Estill St. Improvements	\$ 176,640	
N-10	GF-69	Wayfinding Signage Program	\$ 381,924	\$ 1,359,807
		<b><u>Municipal Facilities</u></b>		
N-11	GF-81	Public Works Complex	\$ 6,879,906	
N-12	GF-105	Replace Piovano Building Emergency Generator	\$ 35,000	\$ 6,914,906
		<b><u>Stormwater</u></b>		
N-13	GF-117	Enfield Road Drainage Improvements – Phase 2	\$ 190,550	\$ 190,550
		Total		\$ 19,707,286
		<b><u>Funding Sources</u></b>		
		VDOT	\$ 10,670,513	
		Fire Grants	\$ -	
		Cemetery Fund	\$ -	
		General Fund	\$ 9,036,773	
		Total	\$ 19,707,286	



**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF-25

Requesting Department:	Public Works
Category:	Bridges
Title:	Route 11 Bridge Replacement
Status:	No change

Description:	<p>Replace the Route 11 (Business) bridge over Route 11 (By-pass) in its entirety. This three span, steel beam bridge is nominally 141 feet long by 30 feet wide. Strategic bridge repairs were performed in 2014, adding a modicum of years to its service life. VDOT funds have been previously secured for work at this location, and may be applied to bridge repair efforts; however, they must be tied to one of VDOT's funding programs. It is anticipated that future VDOT funds will be acquired for the full cost of replacement. This structure serves as a vital corridor to the City and has exceeded its design service life. In the event of failure, the safety and socioeconomic impacts to the community would be innumerable.</p>
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Justification:	<p>This structure is over sixty (60) years old. Its concrete deck slabs are cracked and exhibit significant amounts of seepage. Primary steel support beams and diaphragms are severely corroded and have sustained extensive section loss. This bridge was inspected by the City's structural consultant, Schwartz and Associates. It is their opinion that full replacement is warranted given its level of deterioration.</p>
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Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

<b>Funding Summary</b>							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<i>Fill in other type</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$4,500,000	\$4,500,000
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$4,500,000	\$4,500,000



**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF-33

Requesting Department:	Public Works
Category:	Bridges
Title:	Rebel Ridge Rd. Bridge Repairs
Status:	No change

Description:	Perform strategic repairs to the Rebel Ridge Road Bridge over Woods Creek (Non NBI Structure). This bridge is of the double reinforced concrete box culvert design. This structure has been rated in “Satisfactory” condition, but repairs are recommended to maintain the bridge’s structural integrity, safety and reliability. These repairs include patching all spalled and delaminated concrete throughout the structure; remediation of outlet undermining and embankment erosion; and upgrades to guardrails and terminals.
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Justification:	This structure is of unknown age. Its concrete barrels and abutment wingwalls exhibit areas of cracking, spalling and delamination. The culvert outlet is undermined and the upstream embankments are experiencing erosion. Bridge timber rails are spilt and checked. This bridge was inspected by the City’s structural consultant, Schwartz and Associates. The repairs outlined herein are per their recommendation.
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Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

<b>Funding Summary</b>							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$201,571	\$201,571
<i>Fill in other type</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$201,571	\$201,571



**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF-37

Requesting Department:	Public Works
Category:	Bridges
Title:	Route 60 (Woods Creek) Bridge Replacement
Status:	No change

Description:	Replace the Route 60 bridge over Woods Creek in its entirety. This three span, concrete T-beam bridge is nominally 156 feet long by 34 feet wide. This structure serves as a vital corridor to the City and has exceeded its design service life. In the event of failure, the safety and socioeconomic impacts felt by the community would be innumerable. It is anticipated that future VDOT funds will be acquired for the full cost of replacement.
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Justification:	This structure is eighty-seven (87) years old. Its concrete deck slabs are cracked and exhibit significant amounts of seepage. Primary concrete support beams and girders are severely cracked, spalled and delaminated with numerous areas of exposed reinforcing steel and loss of bearing at the abutment seats. Bridge abutments and piers show similar levels of distress. This bridge was inspected by the City's structural consultant, Schwartz and Associates. It is their opinion that full replacement is warranted given its level of deterioration.
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Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

<b>Funding Summary</b>							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<i>Fill in other type</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$6,170,513	\$6,170,513
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$6,170,513	\$6,170,513



**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF-41

Requesting Department:	Public Works
Category:	Bridges
Title:	Thornhill Rd. (Sarah's Run) Bridge Repairs
Status:	No change

Description:	Perform strategic repairs to the Thornhill Road Bridge over Sarah's Run (Non NBI Structure). This bridge is of the single reinforced concrete slab span design. This structure has been rated in "Satisfactory" condition, but repairs are recommended to maintain the bridge's structural integrity, safety and reliability. These repairs include milling and repaving wearing course asphalt pavement, epoxy coating the concrete bridge deck, patching parapet and underside of deck concrete spalls, pressure injection of construction joints, upgrades to bridge guardrails, transitions and terminals.
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Justification:	This structure is of unknown age. Its concrete slab span exhibits areas of cracking, delamination, scale and seepage. Concrete bridge abutment breastwalls and wings display evidence of cracking and scale. This bridge was inspected by the City's structural consultant, Schwartz and Associates. The repairs outlined herein are per their recommendation.
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Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

<b>Funding Summary</b>							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$189,689	\$189,689
<i>Fill in other type</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$189,689	\$189,689



**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF-43

Requesting Department:	Public Works
Category:	Bridges
Title:	Thornhill Rd. (Unnamed Tributary) Bridge Repairs
Status:	No change

Description:	Perform strategic repairs to the Thornhill Road Bridge over an unnamed tributary to Sarah's Run (Non NBI Structure). This bridge is of the single reinforced concrete slab span design. This structure has been rated in "Fair" condition, but repairs are recommended to maintain the bridge's structural integrity, safety and reliability. These repairs include milling and repaving wearing course asphalt pavement, epoxy coating the concrete bridge deck, patching parapet, abutment, wingwall and underside of deck concrete spalls, sealing construction joints, and upgrades to bridge guardrails, transitions and terminals.
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Justification:	This structure is of unknown age. Its concrete slab span exhibits areas of cracking, delamination, scale and seepage. Concrete bridge abutments, breastwalls, wings and parapets display evidence of spalling, delamination, cracking and scale. This bridge was inspected by the City's structural consultant, Schwartz and Associates. The repairs outlined herein are per their recommendation.
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Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

<b>Funding Summary</b>							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$180,250	\$180,250
<i>Fill in other type</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$180,250	\$180,250



**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF-57

Requesting Department:	Public Works
Category:	Streets Parking, and Sidewalks
Title:	McCrum's Parking Lot
Status:	No change

Description:	Remove and replace the entire parking lot pavement section. The new pavement section shall consist of 8" #21A aggregate base, 2.5" BM-25 binder asphalt, and 1.5" SM-9.5 surface asphalt. Replace all perimeter and island concrete curb. Replace two concrete entrances. Remove landscaped finger islands. Landscaping will be relocated to more suitable center islands. Finger island removal will increase lot capacity. Center island brick pavers will be removed. Only select areas will be reinstalled for pedestrian access. Aged parking lot lighting will be replaced.
--------------	---

Justification:	The lot's pavement section has surpassed its designed service life. Numerous locations exhibit signs of subgrade failure, pavement oxidation, and pavement cracking. Lot has deteriorated to a level where seal coating and surface overlays are no longer viable maintenance options. The lot's concrete infrastructure is chipped, spalled and cracked and is no longer structurally sufficient. The existing finger islands have proven inadequate for sustaining landscape materials. The existing lights are aged and rusted, no longer conveying the aesthetics of a vibrant downtown area.
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Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$255,677	\$255,677
<i>Fill in other type</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$255,677	\$255,677





**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF-61

Requesting Department:	Public Works
Category:	Streets Parking, and Sidewalks
Title:	Swimming Pool Parking Lot Repairs
Status:	No change

Description:	Remove and replace the entire parking lot pavement section. The new pavement section shall consist of 8" #21A aggregate base, 2.5" BM-25 binder asphalt, and 1.5" SM-9.5 surface asphalt. Install three concrete swales through the existing landscaped median to improve drainage. Install a 10' by 5' sidewalk pad at ballfield entrance to minimize erosion concerns at this location.
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Justification:	The lot's pavement section has surpassed its designed service life. Numerous locations exhibit signs of subgrade failure, pavement oxidation, and pavement cracking. Lot has deteriorated to a level where seal coating and surface overlays are no longer viable maintenance options.
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Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$197,784	\$197,784
<i>Fill in other type</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$197,784	\$197,784



**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF-65

Requesting Department:	Public Works
Category:	Streets Parking, and Sidewalks
Title:	Taylor St. Reconstruction- phase 2
Status:	No change

Description:	Remove and replace the entire Taylor Street pavement section, and all associated right-of-way (R.O.W) concrete infrastructure, from Spotswood Drive to Dead End. Infrastructure will be replaced in like-kind. Topography and development in the R.O.W limit road widening and installation of “new” concrete curbs/ walks. The new pavement section shall consist of 8” #21A aggregate base, 4” BM-25 binder asphalt, and 2” SM-9.5 surface asphalt. The slot length of the CDI at the north east corner of Taylor and E. Preston will be increased to prevent storm water from by-passing this structure.
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Justification:	All asphalt and concrete infrastructure within this work zone has surpassed its designed service life. The agglomerated development of Taylor Street itself is suspect from both a design and construction standpoint. Numerous locations along Taylor Street exhibit signs of subgrade failure, pavement oxidation, and pavement cracking. Rehabilitation of this work zone will reduce future maintenance costs and improve roadway “ride” performance and public safety. Increased neighborhood aesthetics improve public moral and property values.
----------------	---

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$347,782	\$347,782
<i>Fill in other type</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$347,782	\$347,782



**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF-67

Requesting Department:	Public Works
Category:	Streets Parking, and Sidewalks
Title:	Estill St. Improvements
Status:	No change

Description:	Remove and replace the entire Estill Street pavement section from E. Nelson Street to E. Washington Street. Project includes straightening the road alignment, the provision of additional parallel parking on the east side of the street, and a new concrete sidewalk on the west side of the street. The new pavement section shall consist of 8" #21A aggregate base, 4" BM-25 binder asphalt, and 2" SM-9.5 surface asphalt.
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Justification:	The asphalt pavement in this work zone has surpassed its designed service life. Numerous locations along Estill Street exhibit signs of subgrade failure, pavement oxidation, and pavement cracking. The roadway is poorly aligned. Current edge of road parking limits adequate two-way traffic flow. Presently there are no sidewalks extending the length of the work zone to accommodate pedestrian traffic.
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Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$176,640	\$176,640
<i>Fill in other type</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$176,640	\$176,640



**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF-69

Requesting Department:	Public Works
Category:	Streets Parking, and Sidewalks
Title:	Wayfinding Signage Program
Status:	No change

Description:	To implement the Regional Wayfinding Signage Program developed by Frazier & Associates for the Lexington and Rockbridge Area Tourism. The project will be to install 3 monument gateway signs, 5 secondary gateway signs, 4 trailblazer A signs, 27 trailblazer B signs, and 8 parking directional signs.
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Justification:	One of the Work Items of the City Council's Economic Development Plan, the addition of wayfinding signage will aid tourism and economic development within the City.
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Estimated Annual Operating Cost:	\$100
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$381,924	\$381,924
<i>Fill in other type</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$381,924	\$381,924



**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF-81

Requesting Department:	Public Works
Category:	Municipal Facilities
Title:	Public Works Complex
Status:	No change

Description:	Construct new building for PW trade employees to include supervisor space, lunch/training room, kitchenette, shop space, addition to administrative building, storage shed, road salt storage, fuel pumps, generator, drainage, asphalt pavement, fencing, and furnishings. Provides for complete demolition of existing structures and paved areas.
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Justification:	Existing structures are antiquated and poorly designed for intended use. Heating and lighting are inadequate. Shop and storage spaces are marginal at best. Site pavement is in poor and rapidly deteriorating condition. Traffic circulation is poor and at marginal safety level.
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Estimated Annual Operating Cost:	Reduced from present due to greater energy efficiencies.
Work Performed:	Contract

<b>Funding Summary</b>							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$6,879,906	\$6,879,906
<i>Fill in other type</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$6,879,906	\$6,879,906



**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF-105

Requesting Department:	Public Works
Category:	Municipal Facilities
Title:	Replace Piovano Building Emergency Generator
Status:	No change

Description:	Project replaces an outmoded 15 KW emergency generator at the Piovano Building. Also installs a new automatic transfer switch. The existing generator is sized to furnish emergency power to limited lighting and a few other circuits to facilitate egress in the event of commercial power loss.
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Justification:	The existing generator was installed when the building was constructed in 1979 and is no longer parts supportable. It does still run and can be used in event of an emergency. However, its reliability is questionable owing to its years in service and in the event of a component failure will not be repairable.
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Estimated Annual Operating Cost:	\$150
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$35,000	\$35,000
<i>Fill in other type</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$35,000	\$35,000



**CIP PROJECT REQUEST**  
**FY2019-FY2023**

GF-117

Requesting Department:	Public Works
Category:	Stormwater
Title:	Enfield Road Drainage Improvements – Phase 2
Status:	No change

Description:	Install approximately 560 linear feet of 15” and 18” HDPE storm sewer down the south side of Enfield Road, from 330 Enfield Road to the Enfield Road culvert crossing just prior to the intersection with Lime Kiln Road. Reconfigure the curb inlet adjacent to 330 Enfield Road to discharge into the new system. Enlarge the drop inlet at the Enfield Road culvert crossing to ensure additional sag inlet capacity. Install additional drop inlets throughout this zone for increased stormwater interception. Replace disturbed Enfield Road sidewalk and pavements as required.
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Justification:	The drop inlet adjacent to 330 Enfield Road currently discharges down the roadway embankment on the south side of Enfield Road and onto the property of 320 Enfield Road. Public Works has received numerous complaints from the residents of 320 Enfield Road regarding erosion of their property due to this discharge. The current Enfield Road culvert crossing drop inlet is inadequately sized to intercept the stormwater runoff directed to it. Additional curb drop inlets are recommended along this corridor to reduce the spread of runoff into vehicle drive lanes and reduce the risk of overbank discharge from the City right-of-way onto private property.
----------------	---

Estimated Annual Operating Cost:	\$0
Work Performed:	Contract

<b>Funding Summary</b>							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Programmed	Total
General Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$190,550	\$190,550
<i>Fill in other type</i>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$190,550	\$190,550

**City of Lexington  
FY 2019 -FY 2023 Capital Improvement Plan- UtilityFund**

rev 2/7/18 Page #	CIP #	Project Title	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	Not Yet Programmed	Total
		<b>Water Projects</b>							
19-1	UF-1	Taylor (Wallace to Houston)	\$188,490						\$188,490
20-1	UF-3	Washington, Massie, Randolph		\$139,572	\$2,385,000				\$2,524,572
19-2	UF-7	Main Street Water Upgrades & VMI Master Metering	\$2,375,100						\$2,375,100
23-1	UF-9	Jackson & Lee					\$40,000	\$170,000	\$210,000
N-2	UF-11	Jackson/Whitmore (Jordan to Plunkett)						\$648,104	\$648,104
N-3	UF-13	Sellers/Edmondson & Westside Ct.						\$796,948	\$796,948
N-4	UF-15	Stonewall & Marshall						\$817,099	\$817,099
23-2	UF-19	Barclay Drive					\$50,000	\$232,000	\$282,000
N-6	UF-23	Carruthers & Dorman						\$184,172	\$184,172
N-7	UF-25	E. Preston & Varner						\$569,966	\$569,966
21-1	UF-27	S. Main & Wallace			\$83,736	\$1,372,000			\$1,455,736
N-8	UF-29	New Water Main- Jordan St. to Enfield Pump Station						\$1,357,634	\$1,357,634
N-9	UF-31	Bell Rd.						\$576,069	\$576,069
N-10	UF-33	Confederate Circle						\$239,445	\$239,445
N-11	UF-35	Center St. & Summit St.						\$434,651	\$434,651
N-12	UF-37	Maple Lane						\$382,348	\$382,348
N-13	UF-39	Willow Lane & Lampe Circle						\$265,649	\$265,649
N-14	UF-41	Stono Lane & N. Main St.						\$301,296	\$301,296
N-15	UF-43	Hook Lane & Graham Lane						\$180,141	\$180,141
N-16	UF-45	Overhill Dr.						\$518,886	\$518,886
N-17	UF-47	Providence Hill Neighborhood						\$934,547	\$934,547
N-18	UF-49	Johnston & Oakview Neighborhoods						\$971,890	\$971,890
N-19	UF-51	Paxton & Boyer Neighborhoods						\$1,123,811	\$1,123,811
19-3	UF-53	Main Street Water Upgrades (sheet # 2)	\$0						\$0
N-20	UF-55	Estill St.						\$183,111	\$183,111
N-21	UF-57	Diamond, Maury, Smith, Lewis						\$866,649	\$866,649
N-22	UF-59	N. Lewis St.						\$236,899	\$236,899
N-23	UF-61	McCorkle Dr. & Shop Rd.						\$1,112,990	\$1,112,990
N-24	UF-63	Highland Dr.						\$266,710	\$266,710
N-25	UF-65	Borden Rd.						\$219,712	\$219,712
N-26	UF-67	Ross Rd.						\$651,605	\$651,605
N-27	UF-69	Thornhill Rd.						\$1,008,279	\$1,008,279
23-3	UF 171	Jackson Area Water System Improvements-Phase 1					\$135,900	\$1,400,000	\$1,535,900
		Category Total	\$2,563,590	\$139,572	\$2,468,736	\$1,372,000	\$225,900	\$16,650,613	\$23,420,411
		<b>Wastewater Projects</b>							
19-4	UF-71	Taylor (Wallace to Hoston)	\$155,530						\$155,530
23-4	UF-73	White St. Area					\$156,520	\$524,748	\$681,268
23-5	UF-75	McDowell St. Area					\$95,740	\$292,528	\$388,268
23-6	UF-77	Myers St. Area					\$165,128	\$560,093	\$725,221
N-28	UF-79	Highland Rd. Area						\$442,714	\$442,714
N-29	UF-81	Spotswood Dr. Area						\$401,413	\$401,413



**City of Lexington  
FY 2019 -FY 2023 Capital Improvement Plan- UtilityFund**

rev 2/7/18	CIP #	Project Title	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	Not Yet Programmed	Total
N-30	UF-83	Taylor St. Area						\$571,571	\$571,571
N-31	UF-85	Central Jackson Wastewater Collection Line Redesign						\$2,785,075	\$2,785,075
N-32	UF-87	N. Jefferson Area						\$154,043	\$154,043
N-33	UF-89	S. Jefferson Area						\$183,642	\$183,642
N-34	UF-91	S. Jefferson St. Wastewater Collection Line						\$266,604	\$266,604
N-35	UF-93	S. Main St.						\$199,025	\$199,025
N-36	UF-95	Lee Highway						\$506,728	\$506,728
N-37	UF-97	Graham & Hook Lane Area						\$494,337	\$494,337
N-38	UF-99	Cambell Lane Area						\$291,960	\$291,960
N-39	UF-101	Willis Rd. to N. Lewis St.						\$380,917	\$380,917
N-40	UF-103	Morningside Dr. & Donald St.						\$435,818	\$435,818
N-41	UF-105	E. Nelson St.						\$472,069	\$472,069
N-42	UF-109	McCorkle Interceptor						\$245,290	\$245,290
N-43	UF-111	McCorkle Dr. Area						\$244,399	\$244,399
N-44	UF-113	Allen Ave. & Mary Lane						\$320,688	\$320,688
N-45	UF-117	Overhill Dr.						\$282,380	\$282,380
19-5	UF-121	Enfield Area Sewer Improvements (sheet #1)	\$1,148,095						\$1,148,095
19-6	UF-123	Enfield Area Sewer Improvements (sheet #2)	\$0						\$0
N-46	UF-125	Taylor St. to E. Preston						\$486,529	\$486,529
N-47	UF-127	Houston St.						\$344,856	\$344,856
N-48	UF-129	Senseny Lane & Carruthers St.						\$468,865	\$468,865
20-2	UF-131	Ruff Lane Area		\$45,490	\$106,020				\$151,510
20-3	UF-133	N. Randolph St. & Parry Lane		\$76,480	\$217,860				\$294,340
N-49	UF-135	S. Randolph St.						\$116,126	\$116,126
20-4	UF-137	Tucker St.		\$76,275	\$213,455				\$289,730
N-50	UF-139	Diamond St.						\$181,053	\$181,053
20-5	UF-141	Massie St.		\$151,785	\$486,060				\$637,845
20-6	UF-143	E. Washington St.		\$52,515	\$129,800				\$182,315
N-51	UF-145	Arpia St.						\$211,872	\$211,872
N-52	UF-147	Waddell St.						\$231,202	\$231,202
N-53	UF-149	Morrison Dr., Link Rd., Welch Park Place						\$547,382	\$547,382
N-54	UF-151	Shenandoah Rd.						\$354,903	\$354,903
N-55	UF-153	McMath Circle						\$130,639	\$130,639
N-56	UF-155	Colston St.						\$339,742	\$339,742
N-57	UF-157	Hamric St. Area						\$320,158	\$320,158
N-58	UF-159	Thornhill Rd.						\$488,152	\$488,152
N-59	UF-161	Providence Place & McCormick St.						\$553,365	\$553,365
N-60	UF-163	Ruffner Place						\$235,382	\$235,382
N-61	UF-165	Master Meter Installation						\$223,181	\$223,181
N-62	UF-167	Marshall St.						\$124,630	\$124,630
19-7	UF-169	Infiltration & Inflow Reduction Projects	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000		\$250,000
19-8	UF-170	Woods Creek Interceptor Improvements	\$ 525,070						\$525,070
		Category Total	\$1,878,695	\$452,545	\$1,203,195	\$50,000	\$467,388	\$15,414,079	\$19,465,902

**City of Lexington  
FY 2019 - FY 2023 Capital Improvement Plan- Utility Fund**

rev 2/7/18 Page #	CIP #	Project Title	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	Not Yet Programmed	Total
		Total Utility Fund	\$4,442,285	\$592,117	\$3,671,931	\$1,422,000	\$693,288	\$32,064,692	\$42,886,313

# FY19

<b>Page #</b>	<b>CIP #</b>	<b>Project Title</b>	<b>FY18/19</b>	<b>Subtotals</b>
		<b><u>Water Projects</u></b>		
<b>19-1</b>	UF-1	Taylor (Wallace to Houston)	\$ 188,490	
<b>19-2</b>	UF-7	Main Street Water Upgrades & VMI Master Metering	\$2,375,100	
<b>19-3</b>	UF-53	Main Street Water Upgrades (sheet # 2)	\$ 0	\$2,563,590
		<b><u>Wastewater Projects</u></b>		
<b>19-4</b>	UF-71	Taylor (Wallace to Houston)	\$ 155,530	
<b>19-5</b>	UF-121	Enfield Area Sewer Improvements (sheet #1)	\$1,148,095	
<b>19-6</b>	UF-123	Enfield Area Sewer Improvements (sheet #2)	\$ 0	
<b>19-7</b>	UF-169	Infiltration & Inflow Reduction Projects	\$ 50,000	
<b>19-8</b>	UF-170	Woods Creek Interceptor Improvements	\$ 525,070	\$1,878,695
		<b>Total of FY19 Utility Fund projects</b>		<b>\$4,442,285</b>



**CIP PROJECT REQUEST**

UF-1

Requesting Department:	Public Works
Category:	Water
Title:	Taylor Street Phase I (Wallace to Houston)
Status:	No Change

Description:	Project replaces approximately 1,120 LF of 6” D.I. waterline, 30 residential service connections, and three fire hydrants within the Taylor Street right-of-way from Wallace Street to Houston Street. Estimate below assumes this work is bundled with the Taylor Street Phase 1 roadway reconstruction CIP. Engineering cost included in roadway design fee.
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Justification:	The water infrastructure in this work zone is approximately 70 years old and nearing the end of its design service life. Project accelerated to leverage construction savings by performing work concurrent with the Taylor Street Phase 1 roadway reconstruction CIP.
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Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

<b>Funding Summary</b>							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$188,490	\$ -	\$ -	\$ -	\$ -	\$ -	\$188,490
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	<b>\$188,490</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$188,490</b>



## CIP PROJECT REQUEST

UF-7

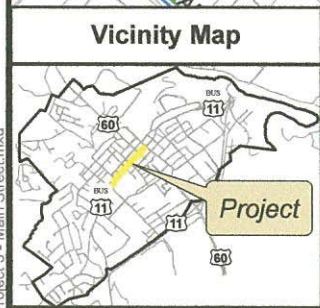
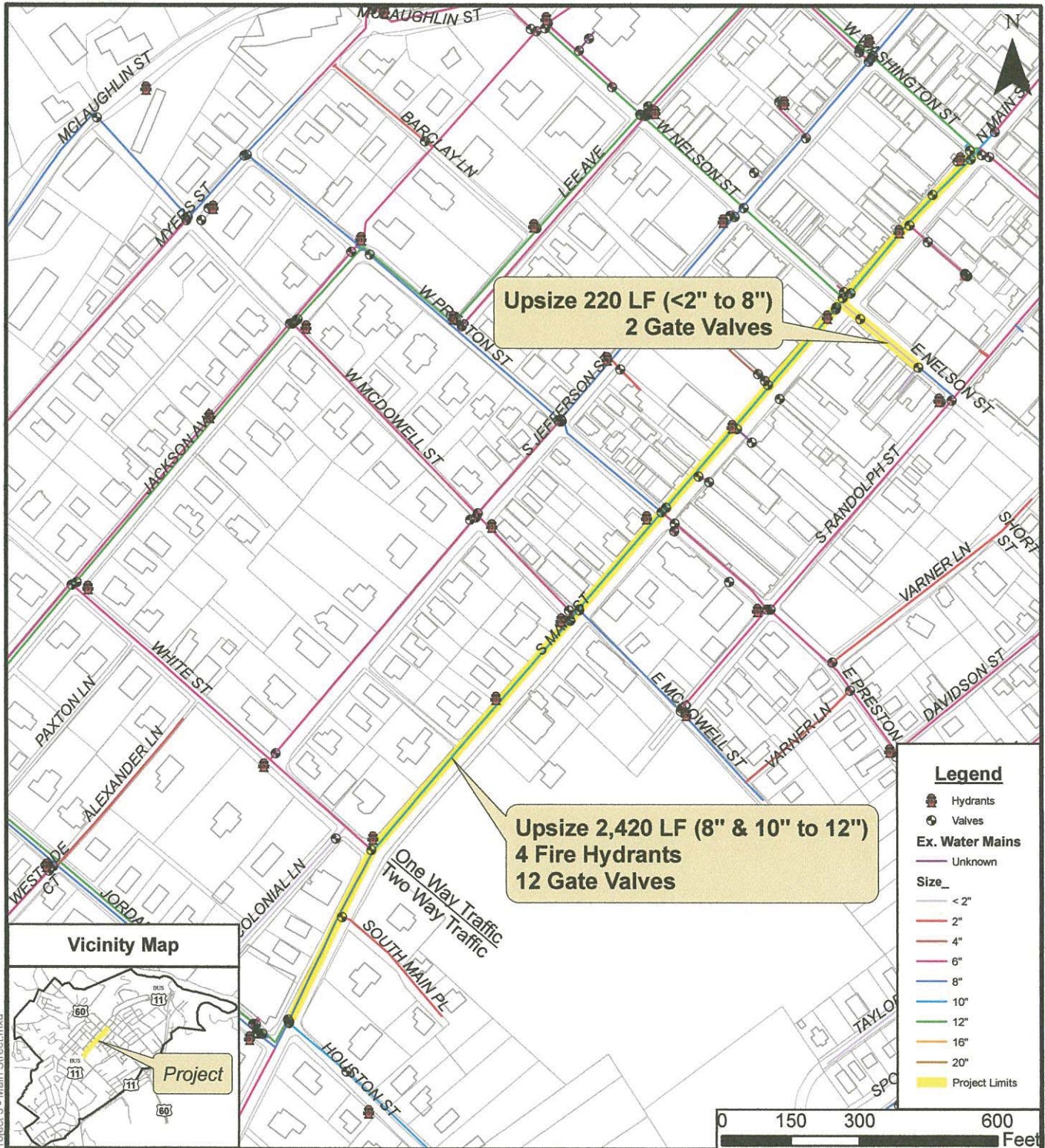
Requesting Department:	Public Works
Category:	Water
Title:	Main Street Water Upgrades & VMI Master Metering
Status:	No Change

Description:	<p>Project upsizes approximately 2,420 LF of 8 &amp; 10-inch cast iron pipe to 12-inch ductile iron (DI) pipe and upsizes approximately 220 LF of existing 2-inch pipe to 8-inch DI, connecting to the new 12-inch DI S. Main St. pipe. The project is located on S. Main St. from Houston St. to Washington St. and a short section on E Nelson St. The S. Main St. section will be replaced with 2,420 LF of 12-inch DI pipe, including 4 fire hydrants, 12 gate valves, and approximately 45 service connections. The E. Nelson St. (Route 60) includes a new 220 LF of 8-inch DI pipe with 2 gate valves and approximately 5 service connections. Funding below indicates merger of this project and UF-53.</p>
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Justification:	<p>The pipes in this section are beyond their designed life cycle use as they are approximately 112 years old potentially resulting in poor water quality and high exfiltration in joints. This project has a high impact of deferral based on the age of the pipe potentially failing and causing health and safety impacts</p>
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Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

<b>Funding Summary</b>							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$2,375,100	\$ -	\$ -	\$ -	\$ -	\$ -	\$2,375,100
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$2,375,100	\$ -	\$ -	\$ -	\$ -	\$ -	\$2,375,100



**Project #3 - Main Street (Houston to Washington)**  
**Upsize 8" & 10" to 12" and Upsize <2" to 8"**

SCALE: 1" = 300'  
 JOB #: B15164B-01



**Draper Aden Associates**  
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 Blacksburg, VA 24060  
 540-552-0444 Fax: 540-552-0291

Richmond, VA  
 Charlottesville, VA  
 Hampton Roads, VA



**FIGURE**  
**3**



**CIP PROJECT REQUEST**

UF-53

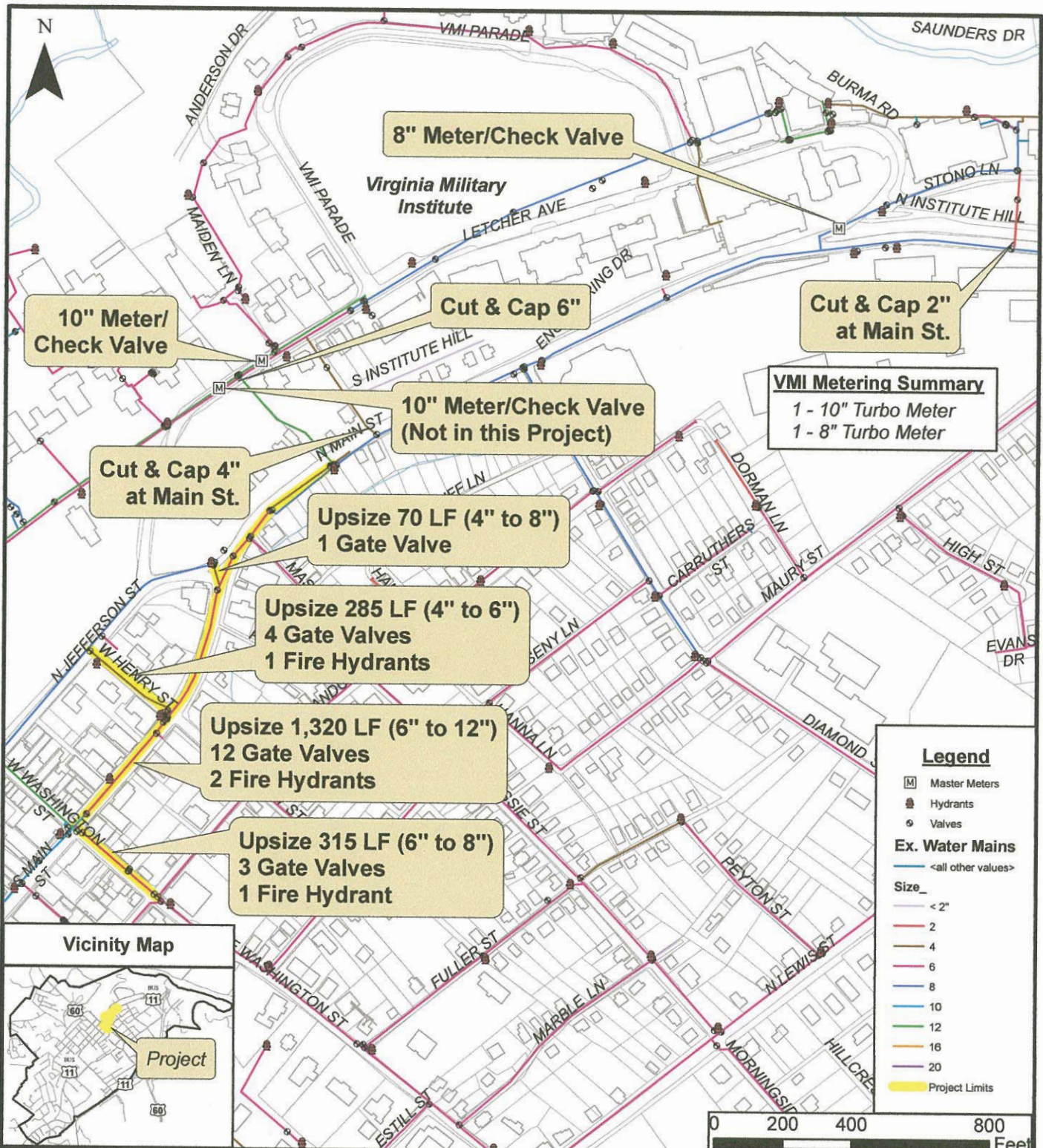
Requesting Department:	Public Works
Category:	Water
Title:	Main Street Water Upgrades (sheet # 2)
Status:	No Change

Description:	<p>Project includes upsizing 1,320 LF of 6-inch cast iron pipe to 12-inch ductile iron (DI) pipe, 70 LF of 4-inch cast iron to 8-inch DI pipe, 285 Lf of 4-inch cast iron pipe to 6-inch DI pipe, 315 LF of 6-inch to 8-inch DI pipe and 2 meter/check valve vaults. N. Main St. from E. Washington St. to the existing 12-inch pipe north of Massie St. includes 1,320 LF of 12-inch DI pipe, 12 gate valves, 2 fire hydrants and approximately 25 service connections. The 70 LF of 4-inch pipe connecting N. Jefferson to N. Main St. will be replaced with 8-ince DI pipe and 1 gate valve. E. Washington St. from Randolph St. to N. Main St. includes 315 LF of 8-inch DI pipe, 3 gate valves, 1 fire hydrant and approximately 10 service connection. W. Henry St. from N Jefferson St. to S. Main St. includes 285 LF of 6" DI pipe, 4 gate valves, 1 fire hydrant and 1 service connection. Project merged with UF-7.</p>
--------------	--

Justification:	<p>Project replaces existing aged and undersized lines, improves system continuity, and increases system capacity and fire flow performance. Project, in conjunction with the S. and N. Main Street improvements, will develop a primary distribution system greatly benefiting much of the City, but particularly the vital downtown district, W&amp;L and VMI. Providing for concurrent metering of VMI at this time will leverage design and construction cost savings, as well as minimize redundant repairs to the City's R.O.W. Master metering VMI will keep maintenance of public utilities within the public R.O.W. and may reduce the City's non-revenue water burden.</p>
----------------	--

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>



**VMI Metering Summary**  
 1 - 10" Turbo Meter  
 1 - 8" Turbo Meter

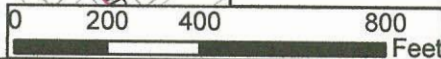
**Legend**

- [M] Master Meters
- [H] Hydrants
- [V] Valves

**Ex. Water Mains**  
 — <all other values>

**Size**

- < 2"
- 2
- 4
- 6
- 8
- 10
- 12
- 16
- 20
- Project Limits



**Project #26 - Master Metering of Virginia Military Institute**  
 New 12" on Main, New 8" on Washington, New 6" on Henry

SCALE: 1" = 400'  
 DATE: NOVEMBER 2015  
 JOB #: B15164B-01

**Draper Aden Associates**  
 Engineering ♦ Surveying ♦ Environmental Services  
 2206 South Main Street  
 Blacksburg, VA 24060  
 540-552-0444 Fax: 540-552-0291

Richmond, VA  
 Charlottesville, VA  
 Hampton Roads, VA



**FIGURE**  
**26**





**CIP PROJECT REQUEST**

UF-71

Requesting Department:	Public Works
Category:	Wastewater
Title:	Taylor Street (Wallace to Houston) 6" Sewer Main Replacement
Status:	No Change

Description:	Project replaces approximately 985 LF of existing gravity sewer pipe, six manholes, and nine service laterals within the Taylor Street right-of-way from Wallace Street to Houston Street. Estimate below assumes this work is bundled with the Taylor Street Phase 1 roadway reconstruction CIP. Engineering cost included in the roadway design fee.
--------------	--

Justification:	The sewer infrastructure in this work zone is approximately 116 years old and at the end of its design service life. Project accelerated to leverage construction savings by performing work concurrent with the Taylor Street Phase 1 roadway reconstruction CIP.
----------------	--

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

<b>Funding Summary</b>							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$155,530	\$ -	\$ -	\$ -	\$ -	\$ -	\$155,530
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	<b>\$155,530</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$155,530</b>



**CIP PROJECT REQUEST**

UF-121

Requesting Department:	Public Works
Category:	Wastewater
Title:	Enfield Area Sewer Improvements (sheet #1)
Status:	No Change

Description:	This project replaces approximately 1,700 feet of existing gravity sewer pipe and associated laterals on Lime Kiln Road from Enfield Road to Alum Spring Road. Existing service line connections to residences will be replaced to the property line and will include cleanouts. Project merged with UF-123.
--------------	--

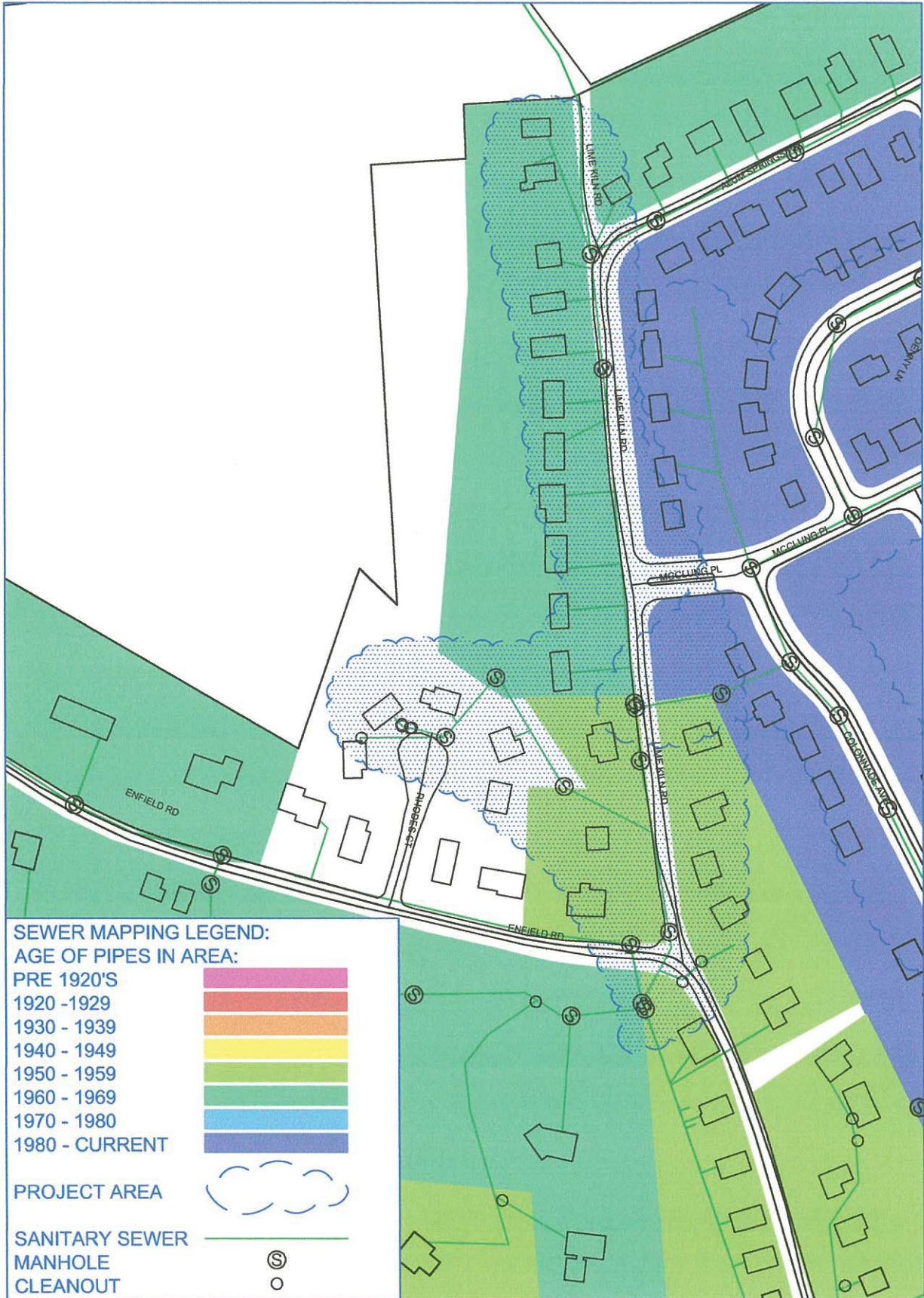
Justification:	The existing collection line was constructed in the 1960's and has a history of chronic inflow and infiltration problems. The line has been previously tested and examined by the City personnel and is known to have I&I issues. The line is subject to heavy amounts of inflow in rain events that contribute to capacity issues in the trunk line.
----------------	---

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

<b>Funding Summary</b>							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$1,148,095	\$ -	\$ -	\$ -	\$ -	\$ -	\$1,148,095
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	<b>\$1,148,095</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$1,148,095</b>

CITY OF LEXINGTON - CAPITAL IMPROVEMENTS PLAN  
 ENFIELD BASIN - LIME KILN ROAD WASTEWATER COLLECTION LINE

CIP# UF-121



**SEWER MAPPING LEGEND:**  
**AGE OF PIPES IN AREA:**

PRE 1920'S	[Pink swatch]
1920 - 1929	[Red swatch]
1930 - 1939	[Orange swatch]
1940 - 1949	[Yellow swatch]
1950 - 1959	[Light Green swatch]
1960 - 1969	[Medium Green swatch]
1970 - 1980	[Blue swatch]
1980 - CURRENT	[Dark Blue swatch]

**PROJECT AREA** [Dashed blue line symbol]

**SANITARY SEWER MANHOLE** [Circle with 'S' symbol]

**CLEANOUT** [Plain circle symbol]



**CIP PROJECT REQUEST**

UF-123

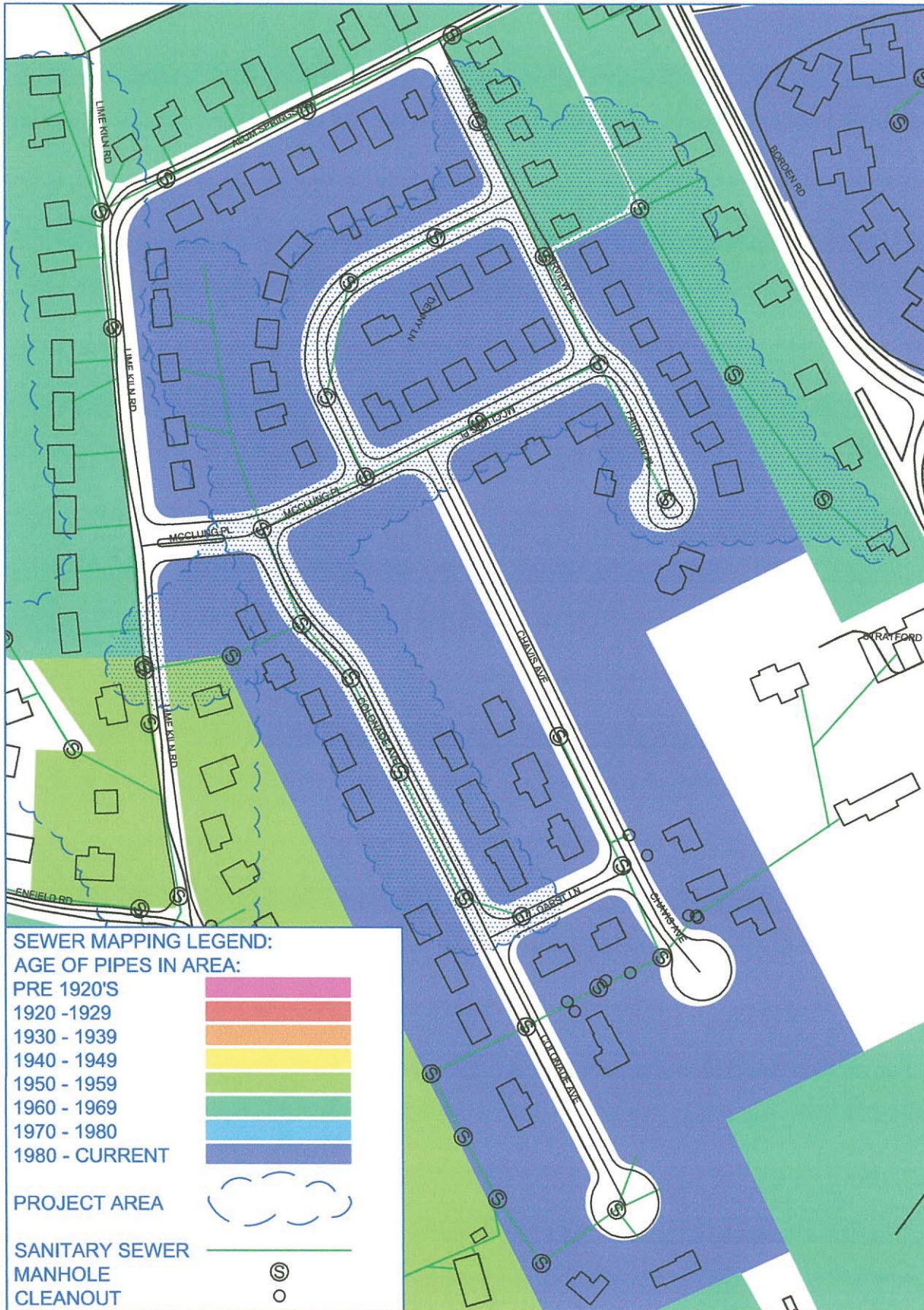
Requesting Department:	Public Works
Category:	Wastewater
Title:	Enfield Area Sewer Improvements (sheet #2)
Status:	No Change

Description:	This project replaces approximately 3,400 feet of existing gravity sewer pipe and associated laterals on McClung Place, Fairview Place, Denny Lane, and Colonnade Avenue. Existing service line connections to residences will be replaced to the property line and will include cleanouts. Engineering design services scheduled for FY21. Project merged with UF-121.
--------------	---

Justification:	The existing collection line was constructed since 2000 by a private developer before being given to the City. The roads, sewers, etc in the development show signs of improper compaction and settling. The sewer lines in the area are a source of inflow and infiltration to the Enfield Basin despite their newer age.
----------------	--

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -





**CIP PROJECT REQUEST**

UF-169

Requesting Department:	Public Works
Category:	Wastewater
Title:	Infiltration & Inflow Reduction Projects
Status:	No Change

Description:	This project provides funds for investigation, analysis, engineering, and rehabilitation of wastewater lines where extensive infiltration or inflow (I & I) is identified. The highest priority for identified projects will be the elimination of direct inflow. For certain work, opportunity exists to leverage city utility funds through the Maury Service Authority I & I Revenue Sharing Program, which provides a match of 75% for eligible projects.
--------------	---

Justification:	Infiltration and inflow must be reduced from the City's wastewater collection system to maximize capacity for customers; prevent overflows; reduce city purchased wastewater treatment costs; and to facilitate wastewater treatment plant operation within permitted limits.
----------------	---

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

<b>Funding Summary</b>							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$ -	\$250,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$ -</b>	<b>\$250,000</b>



**CIP PROJECT REQUEST**

UF-170

Requesting Department:	Public Works
Category:	Wastewater
Title:	Woods Creek Interceptor Improvements
Status:	New

Description:	<p>Project upsizes approximately 1,600 LF of the City's Woods Creek sewer interceptor from 12" to 14" ductile iron pipe. Work limits span from Lime Kiln Road to the confluence of the Sarah's Run and Woods Creek interceptors. In 2013, Anderson and Associates conducted a capacity analysis of both the Woods Creek and McCorkle sewer interceptors. Peak flows accounted for full system development and infiltration and intrusion (I&amp;I). I&amp;I flows were generated from sewer monitoring over a three day period where four inches of rain fell. Capacity issues concerning the subject work area were not identified; however, manholes within the upper reaches of the work zone have been noted to surcharge and overflows have been reported. In 2016, Public works installed sewer monitors in and around this reach for a four month period. Flows exceeding Anderson's report were not measured. In 2017, Public Works and Civil Consulting Group conducted independent hydraulic grade line studies of this zone using Anderson's peak flows. Again, capacity issues were not identified. In 2017, Aaron J. Conner was employed to video inspect this section of interceptor. No obvious breaks, blockages, or liner failures were found; however, numerous sags and rises were noted, making this reach susceptible to both sediment and air blockages.</p>
--------------	--

Justification:	<p>This section of the City's Woods Creek interceptor has documented sewage overflows. Manholes along this reach have been bolted and sealed as a preventative measure; however, video analysis reveals much of this section is poorly aligned and is being unduly surcharged during significant rainfall events. This City has surveyed accessible portions of this line and has installed air vents with limited success. Since much of this reach is inaccessible or environmentally sensitive, it is extremely difficult to perform additional strategic improvements. It is recommended that this line be upsized and located away from Woods Creek itself.</p>
----------------	--

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$525,070	\$ -	\$ -	\$ -	\$ -	\$ -	\$525,070
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	<b>\$525,070</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$525,070</b>

# FY20

<b>Page #</b>	<b>CIP #</b>	<b>Project Title</b>	<b>FY19/20</b>	<b>Subtotals</b>
		<b><u>Water Projects</u></b>		
<b>20-1</b>	UF-3	Washington, Massie, Randolph	\$139,572	\$139,572
		<b><u>Wastewater Projects</u></b>		
<b>19-7</b>	UF-169	Infiltration & Inflow Reduction Projects	\$50,000	
<b>20-2</b>	UF-131	Ruff Lane Area	\$45,490	
<b>20-3</b>	UF-133	N. Randolph St. & Parry Lane	\$76,480	
<b>20-4</b>	UF-137	Tucker St.	\$76,275	
<b>20-5</b>	UF-141	Massie St.	\$151,785	
<b>20-6</b>	UF-143	E. Washington St.	\$52,515	\$452,545
		<b>Total of FY20 Utility Fund projects</b>		<b>\$592,117</b>





**CIP PROJECT REQUEST**

UF-3

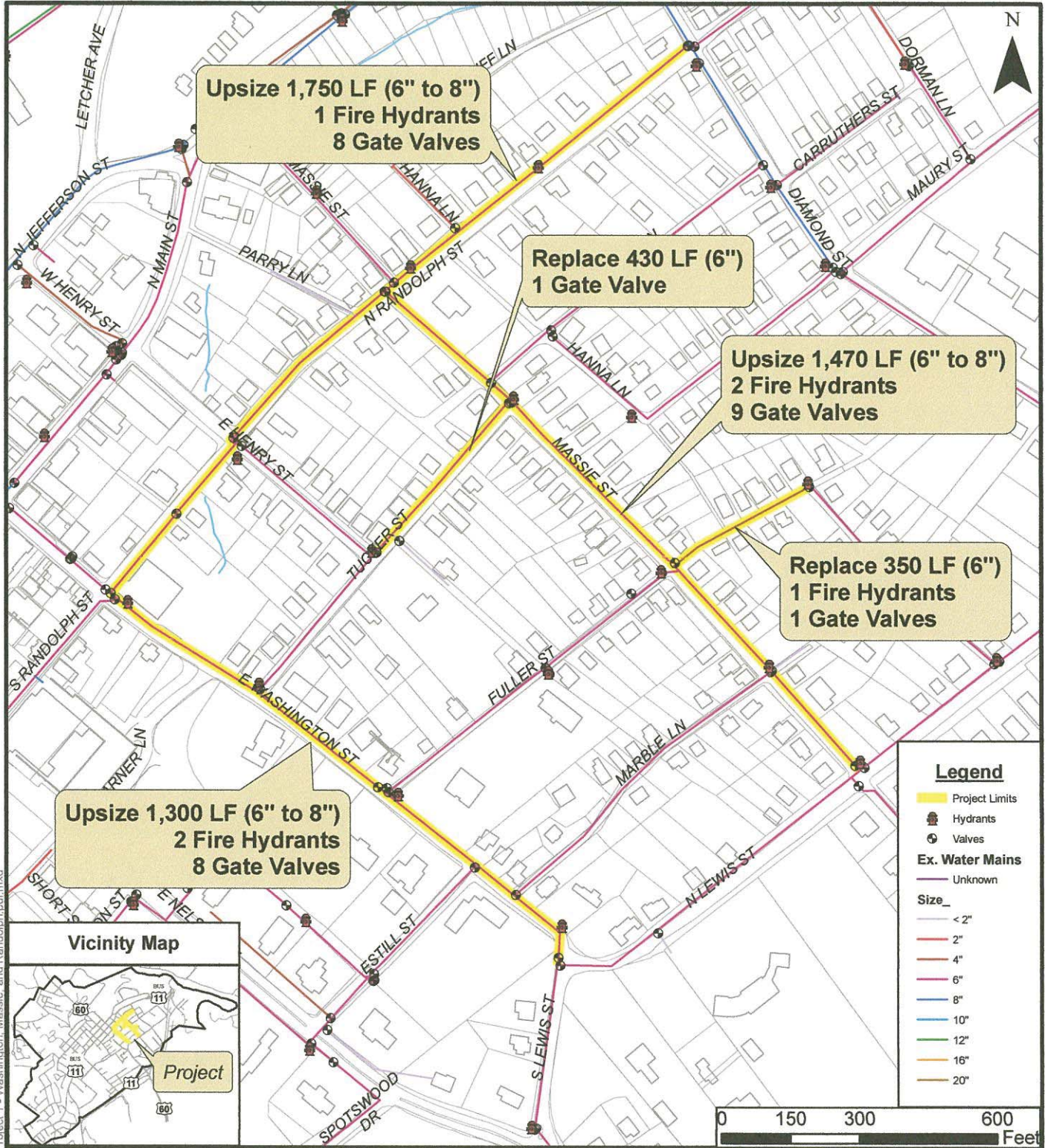
Requesting Department:	Public Works
Category:	Water
Title:	Washington, Massie, Randolph Streets
Status:	No Change

Description:	<p>Project upsizes approximately 4,520 LF of 6-inch cast iron pipe to 8-inch ductile iron (DI) pipe and replaces 780 LF of 6-inch cast iron pipe with new 6" DI pipe. This project includes three major street sections and two small adjacent street sections. E. Washington St. from S. Randolph St. to N. Lewis St. will be replaced with 1,300 LF of 8-inch DI pipe, 2 fire hydrants, 8 gate valves and approximately 20 service connections. Massie St. from N. Randolph St. to N. Lewis St. will be replaced with 1,470 LF of 8-inch DI pipe, 2 fire hydrants, 9 gate valves and approximately 30 service connections. N. Randolph St. from E. Washington St. to Diamond St. will be replaced with 1,750 LF of 8-inch DI pipe, 1 fire hydrants, 8 gate valves and approximately 40 service connections. The two small sections consist of replacing 430 LF of 6-inch cast iron with 6-inch DI including 1 gate valve and approximately 8 service connections on Tucker St and 350 LF of 6-inch cast iron to 6-inch DI and 1 gate valve and fire hydrant and 9 service connections on Fuller St. from Massie St. to Peyton St.</p>
--------------	---

Justification:	<p>The pipes in this section are beyond their designed life cycle use as they are approximately 81 years old potentially resulting in poor water quality and high exfiltration in joints. This project has a high impact of deferral based on the age of the pipe and the potential for failure resulting in increased risk to health and safety of the community.</p>
----------------	--

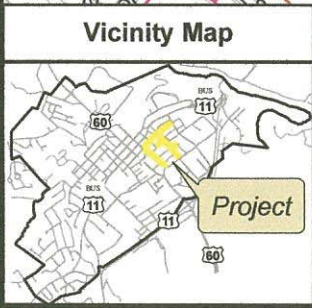
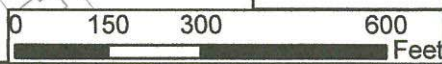
Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

<b>Funding Summary</b>							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$139,572	\$2,385,000	\$ -	\$ -	\$ -	\$2,524,572
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$139,572	\$2,385,000	\$ -	\$ -	\$ -	\$2,524,572



**Legend**

- Project Limits
- Hydrants
- Valves
- Ex. Water Mains**
- Unknown
- Size\_**
- < 2"
- 2"
- 4"
- 6"
- 8"
- 10"
- 12"
- 16"
- 20"



**Project #1 - Washington, Massie, & Randolph**  
**Replace 6" & Upsize 6" to 8"**

SCALE: 1" = 300'  
 JOB #: B15164B-01

**Draper Aden Associates**  
 Engineering ♦ Surveying ♦ Environmental Services  
 2206 South Main Street  
 Blacksburg, VA 24060  
 540-552-0444 Fax: 540-552-0291

Richmond, VA  
 Charlottesville, VA  
 Hampton Roads, VA



**FIGURE**  
**1**



**CIP PROJECT REQUEST**

UF-131

Requesting Department:	Public Works
Category:	Wastewater
Title:	Ruff Lane Area Wastewater Collection Line
Status:	No Change

Description:	This project replaces approximately 550 linear feet of existing gravity sewer pipe and associated laterals near the intersection of Ruff Lane and Hannah Lane. Existing service line connections to residences will be replaced to the property line and will include cleanouts.
--------------	--

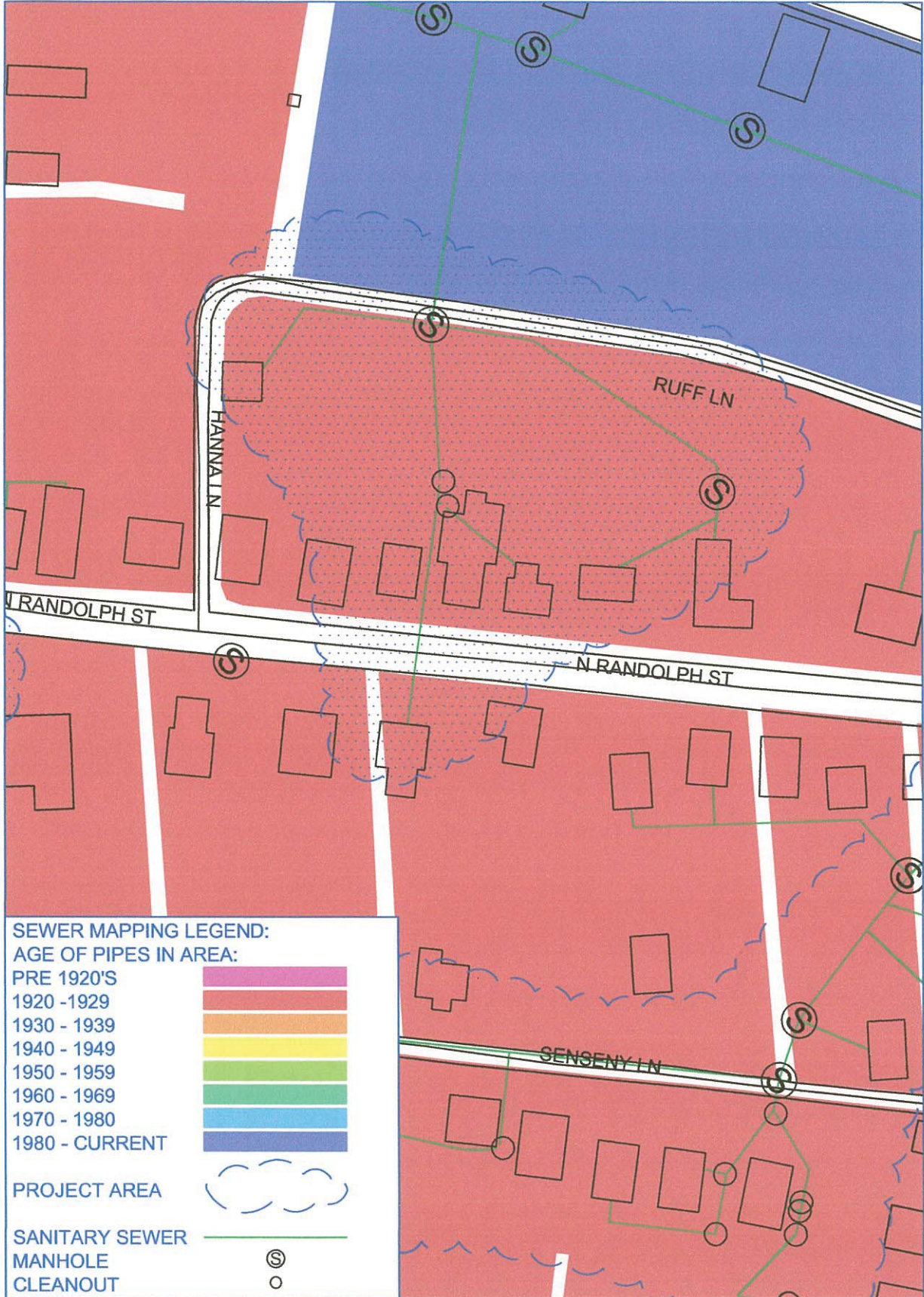
Justification:	The existing collection line was constructed in the 1920's. The project area has a history of inflow and infiltration problems as well as other problems related to the sewers age. The line has been previously tested and examined by the City personnel and is known to have I&I issues.
----------------	---

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$45,490	\$106,020	\$ -	\$ -	\$ -	\$151,510
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$45,490	\$106,020	\$ -	\$ -	\$ -	\$151,510

CITY OF LEXINGTON - CAPITAL IMPROVEMENTS PLAN  
 DIAMOND BASIN -RUFF LANE AREA WASTEWATER COLLECTION LINE

CIP# UF-131



**SEWER MAPPING LEGEND:**  
 AGE OF PIPES IN AREA:

PRE 1920'S	[Pink]
1920 - 1929	[Red]
1930 - 1939	[Orange]
1940 - 1949	[Yellow]
1950 - 1959	[Light Green]
1960 - 1969	[Green]
1970 - 1980	[Blue-Green]
1980 - CURRENT	[Blue]

PROJECT AREA: [Dashed Blue Line]

SANITARY SEWER MANHOLE: [Circle with 'S']

CLEANOUT: [Circle]



**CIP PROJECT REQUEST**

UF-133

Requesting Department:	Public Works
Category:	Wastewater
Title:	North Randolph Street & Parry Lane Wastewater Collection Line
Status:	No Change

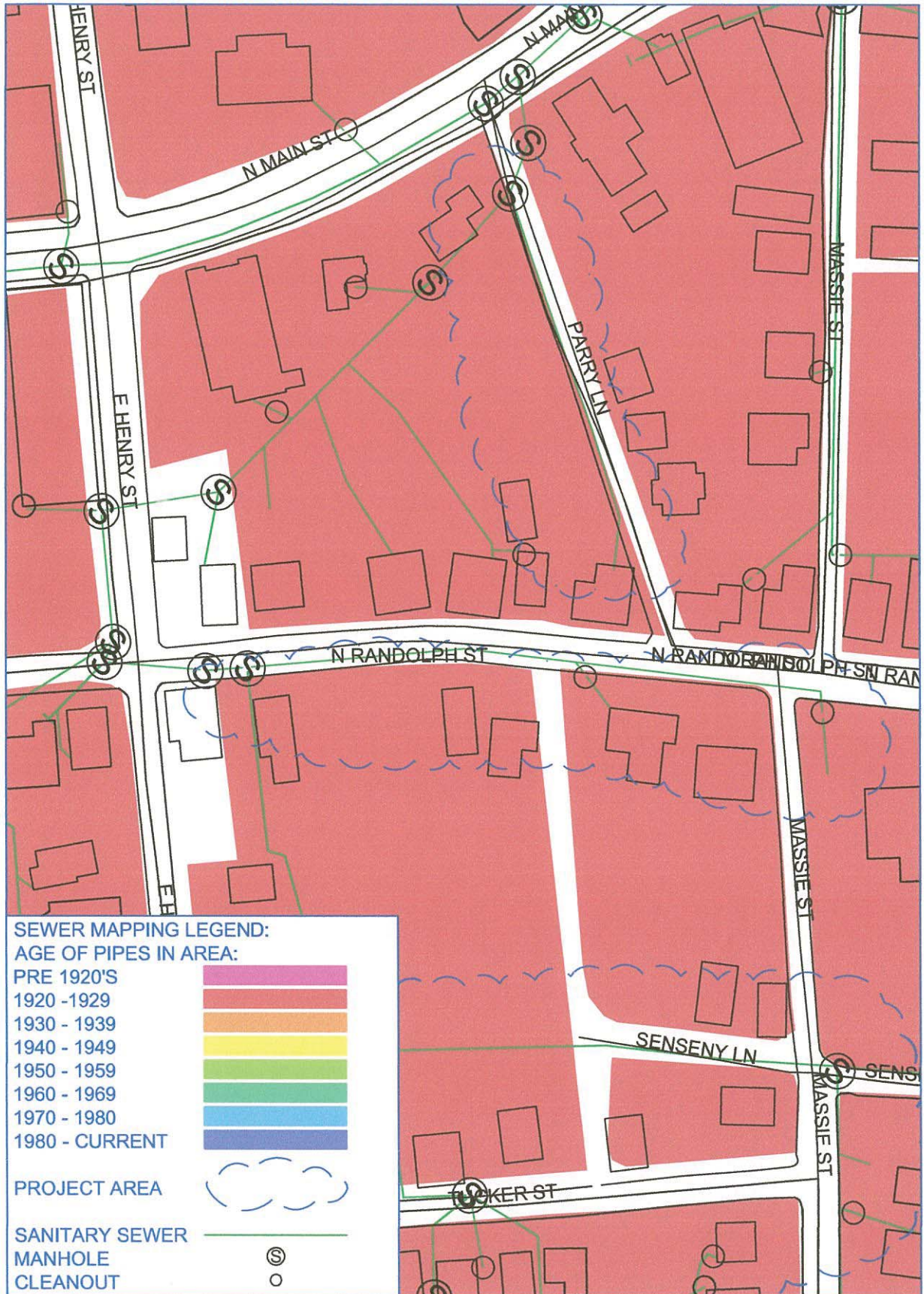
Description:	This project replaces approximately 900 linear feet of existing gravity sewer pipe and associated laterals near the intersection of North Randolph Street and Parry Lane. Existing service line connections to residences will be replaced to the property line and will include cleanouts.
--------------	---

Justification:	The existing collection line was constructed in the 1920's. The project area has a history of inflow and infiltration problems as well as other problems related to the sewers age. The line has been previously tested and examined by the City personnel and is known to have I&I issues.
----------------	---

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$76,480	\$217,860	\$ -	\$ -	\$ -	\$294,340
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$76,480	\$217,860	\$ -	\$ -	\$ -	\$294,340

DIAMOND BASIN - N RANDOLPH STREET AND PARRY LANE WASTEWATER COLLECTION LINE



**SEWER MAPPING LEGEND:**

**AGE OF PIPES IN AREA:**

- PRE 1920'S
- 1920 - 1929
- 1930 - 1939
- 1940 - 1949
- 1950 - 1959
- 1960 - 1969
- 1970 - 1980
- 1980 - CURRENT

**PROJECT AREA**

**SANITARY SEWER**

**MANHOLE**

**CLEANOUT**



**CIP PROJECT REQUEST**

UF-137

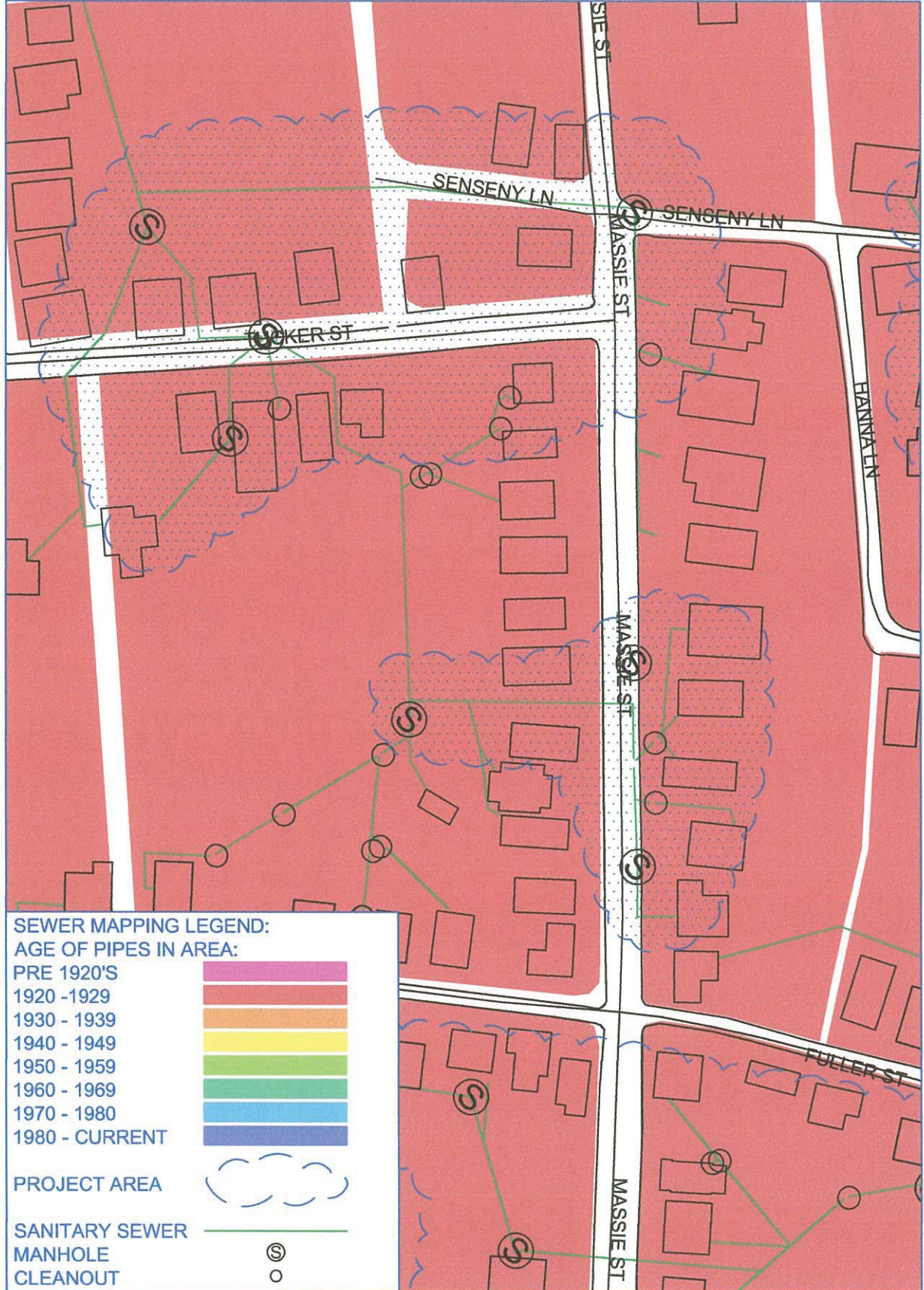
Requesting Department:	Public Works
Category:	Wastewater
Title:	Tucker Street Wastewater Collection Line
Status:	No Change

Description:	This project replaces approximately 1,100 linear feet of existing gravity sewer pipe and associated laterals near the confluence of Tucker Street, Massie Street, and Senseny Lane. Existing service line connections to residences will be replaced to the property line and will include cleanouts.
--------------	---

Justification:	The existing collection line was constructed in the 1920's. The project area has a history of inflow and infiltration problems as well as other problems related to the sewers age. The line has been previously tested and examined by the City personnel and is known to have I&I issues.
----------------	---

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

<b>Funding Summary</b>							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$76,275	\$213,455	\$ -	\$ -	\$ -	\$289,730
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$76,275	\$213,455	\$ -	\$ -	\$ -	\$289,730







**CIP PROJECT REQUEST**

UF-141

Requesting Department:	Public Works
Category:	Wastewater
Title:	Massie Street Wastewater Collection Line
Status:	No Change

Description:	This project replaces approximately 2,300 linear feet of existing gravity sewer pipe and associated laterals in the vicinity of Massie Street and Fuller Street and North Lewis Street and Peyton Street. Existing service line connections to residences will be replaced to the property line and will include cleanouts.
--------------	---

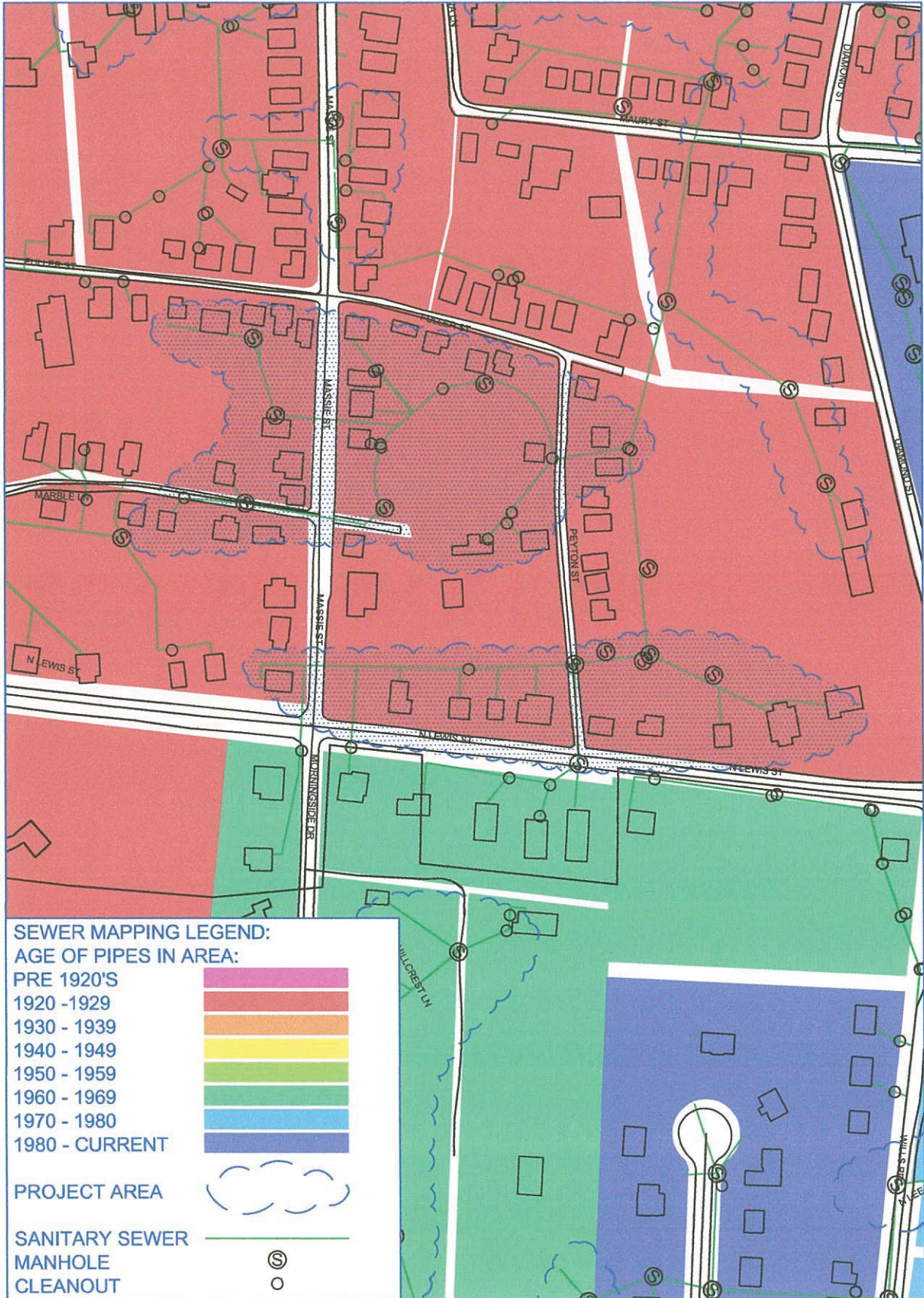
Justification:	The existing collection line was constructed in the 1920's. The project area has a history of inflow and infiltration problems as well as other problems related to the sewers age. The line has been previously tested and examined by the City personnel and is known to have I&I issues.
----------------	---

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

<b>Funding Summary</b>							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$151,785	\$486,060	\$ -	\$ -	\$ -	\$637,845
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$151,785	\$486,060	\$ -	\$ -	\$ -	\$637,845

CITY OF LEXINGTON - CAPITAL IMPROVEMENTS PLAN  
 DIAMOND BASIN - MASSIE STREET AREA WASTEWATER COLLECTION LINE

CIP# UF-141





**CIP PROJECT REQUEST**

UF-143

Requesting Department:	Public Works
Category:	Wastewater
Title:	East Washington Street Wastewater Collection Line
Status:	No Change

Description:	This project replaces approximately 600 linear feet of existing gravity sewer pipe and associated laterals along East Washington Street from North Lewis Street to Fuller Street. Existing service line connections to residences will be replaced to the property line and will include cleanouts.
--------------	---

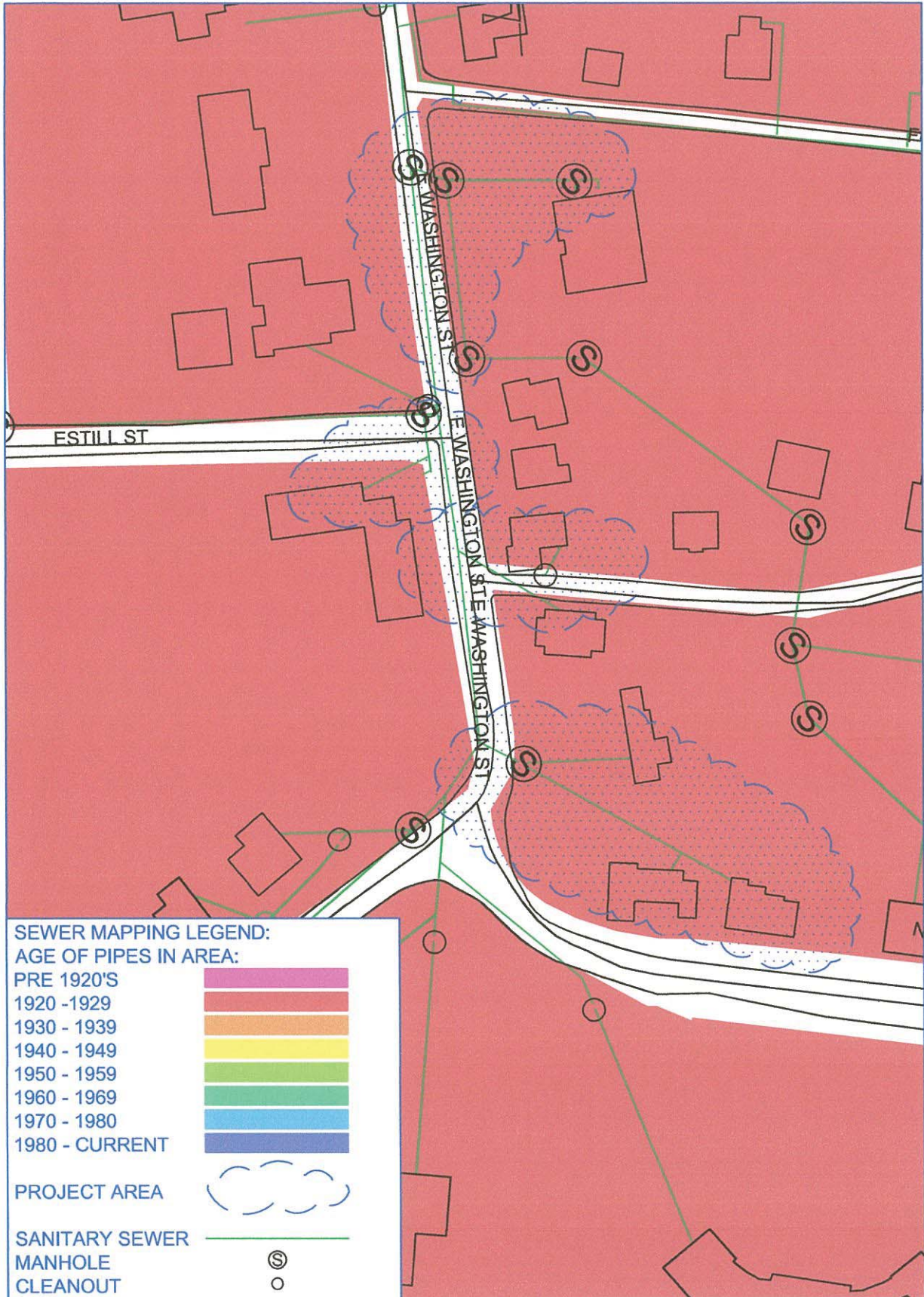
Justification:	The existing collection line was constructed in the 1920's. The laterals all have long standing issues. The project area has a history of inflow and infiltration problems as well as other problems related to the sewers age. The line has been previously tested and examined by the City personnel and is known to have I&I issues.
----------------	---

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

<b>Funding Summary</b>							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$52,515	\$129,800	\$ -	\$ -	\$ -	\$182,315
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$52,515	\$129,800	\$ -	\$ -	\$ -	\$182,315

CITY OF LEXINGTON - CAPITAL IMPROVEMENTS PLAN  
 DIAMOND BASIN - E WASHINGTON STREET WASTEWATER COLLECTION LINE

CIP# UF-143



# FY21

<b>Page #</b>	<b>CIP #</b>	<b>Project Title</b>	<b>FY20/21</b>	<b>Subtotals</b>
		<b><u>Water Projects</u></b>		
<b>20-1</b>	UF-3	Washington, Massie, Randolph	\$ 2,385,000	
<b>21-1</b>	UF-27	S. Main & Wallace	\$ 83,736	\$2,468,736
		<b><u>Wastewater Projects</u></b>		
<b>19-7</b>	UF-169	Infiltration & Inflow Reduction Projects	\$ 50,000	
<b>20-2</b>	UF-131	Ruff Lane Area	\$ 106,020	
<b>20-3</b>	UF-133	N. Randolph St. & Parry Lane	\$ 217,860	
<b>20-4</b>	UF-137	Tucker St.	\$ 213,455	
<b>20-5</b>	UF-141	Massie St.	\$ 486,060	
<b>20-6</b>	UF-143	E. Washington St.	\$ 129,800	
				\$1,203,195
		Total of FY21 Utility Fund projects		\$3,671,931



**CIP PROJECT REQUEST**

UF-27

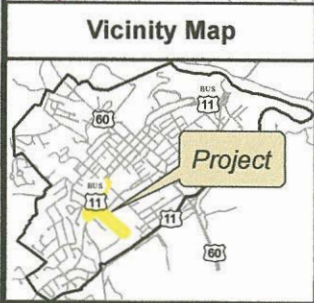
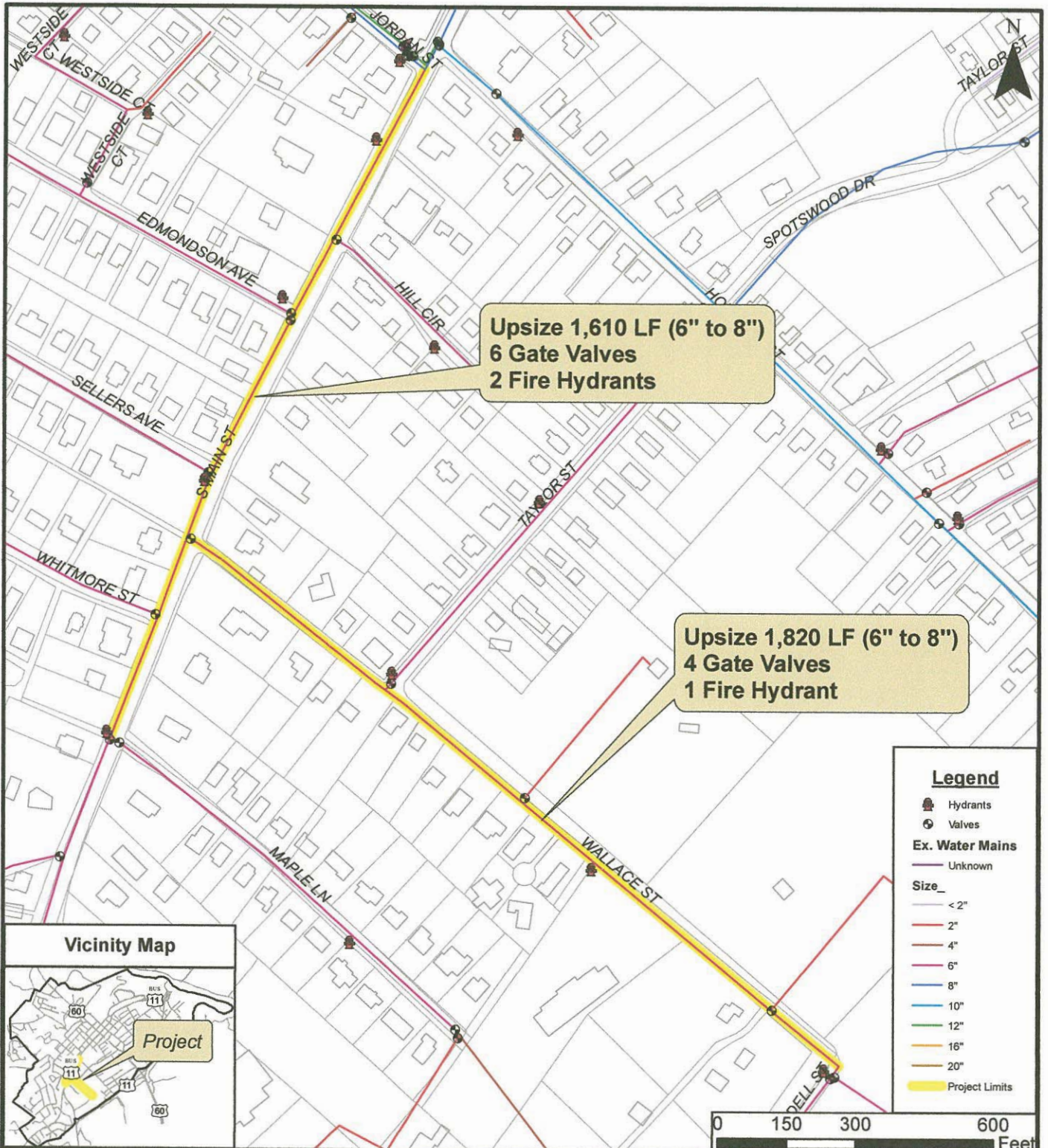
Requesting Department:	Public Works
Category:	Water
Title:	S. Main Street & Wallace Street Water System Upgrades
Status:	No Change

Description:	Project includes upsizing 3,430 LF of 6-inch cast iron pipe to 8-inch ductile iron (DI) pipe. S. Main St. from Maple Ln. to Jordan St. includes 1,610 LF of 8-inch DI pipe, 6 gate valves, 2 fire hydrant and approximately 26 service connections. Wallace St. from Main St. to Waddell St. includes 1,820 LF of 8-inch DI pipe, 4 gate valves, 1 fire hydrant and approximately 20 service connections.
--------------	---

Justification:	The pipes in this section are beyond their designed life cycle use as they are approximately 85 years old potentially resulting in poor water quality and high exfiltration in joints. This project has a high impact of deferral based on the age of the pipe and the potential for failure resulting in increased risk to health and safety of the community.
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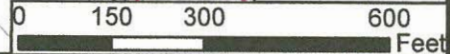
Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$83,736	\$1,372,000	\$ -	\$ -	\$1,455,736
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$83,736	\$1,372,000	\$ -	\$ -	\$1,455,736



**Legend**

- Hydrants
- Valves
- Ex. Water Mains**
- Unknown
- Size**
- < 2"
- 2"
- 4"
- 6"
- 8"
- 10"
- 12"
- 16"
- 20"
- Project Limits



**Project #13 - S. Main St. and Wallace St.**  
**Upsize 6" to 8"**

SCALE: 1" = 300'

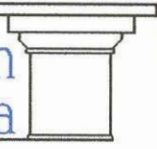
JOB #: B15164B-01



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**FIGURE**  
**13**

# FY22

<b>Page #</b>	<b>CIP #</b>	<b>Project Title</b>	<b>FY21/22</b>
		<b><u>Water Projects</u></b>	
<b>21-1</b>	UF-27	S. Main & Wallace	\$ 1,372,000
		<b><u>Wastewater Projects</u></b>	
<b>19-7</b>	UF-169	Infiltration & Inflow Reduction Projects	\$ 50,000
		Total of FY22 Utility Fund projects	\$1,422,000



# FY23

Page #	CIP #	Project Title	FY22/23	Subtotals
		<b><u>Water Projects</u></b>		
<b>23-1</b>	UF-9	Jackson & Lee	\$ 40,000	
<b>23-2</b>	UF-19	Barclay Drive	\$ 50,000	
<b>23-3</b>	UF 171	Jackson Area Water System Improvements- Phase 1	\$135,900	\$225,900
		<b><u>Wastewater Projects</u></b>		
<b>19-7</b>	UF-169	Infiltration & Inflow Reduction Projects	\$ 50,000	
<b>23-4</b>	UF-73	White St. Area	\$156,520	
<b>23-5</b>	UF-75	McDowell St. Area	\$ 95,740	
<b>23-6</b>	UF-77	Myers St. Area	\$165,128	\$467,388
		Total of FY23 Utility Fund projects		\$693,288



**CIP PROJECT REQUEST**

UF-9

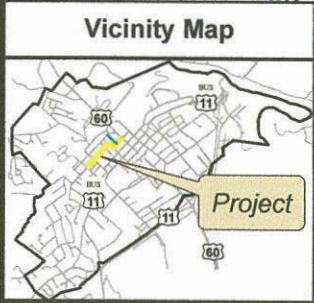
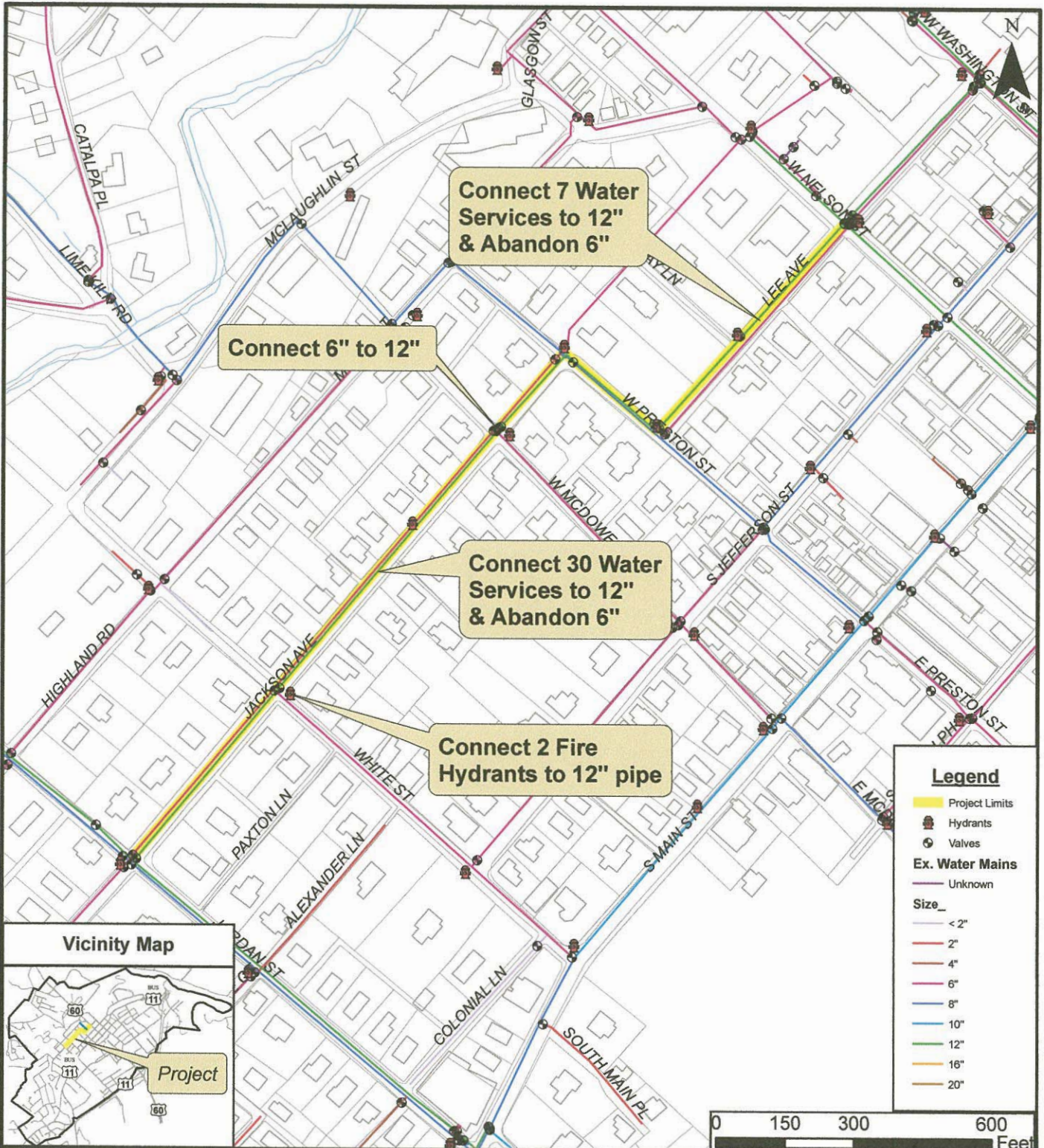
Requesting Department:	Public Works
Category:	Water
Title:	Jackson Avenue & Lee Avenue Water System Upgrades
Status:	No Change

Description:	Project consists of installing approximately 37 service connections and 2 fire hydrants to an existing 12-inch pipe and abandoning the adjacent 6-inch pipe. The 6-inch pipe on McDowell St. will be tied into the 12-inch pipe. The project is located on Jackson Ave. from Jordan St. to Preston St. and Lee Ave. from W Preston St. to W Nelson St. The Randolph St. and Nelson St. (Route 60) will require utility crossings and traffic detours.
--------------	---

Justification:	The existing 12-inch line was installed in the 1989, but the older 92 year old 6-inch line is serving the local homes/businesses. The 6-inch pipe in this section is beyond its designed life cycle of use. This project will utilize an existing pipe minimizing the environmental and social impacts.
----------------	---

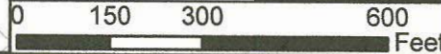
Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$40,000	\$170,000	\$210,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$40,000</b>	<b>\$170,000</b>	<b>\$210,000</b>



**Legend**

- Project Limits
- Hydrants
- Valves
- Ex. Water Mains**
- Unknown
- Size**
- < 2"
- 2"
- 4"
- 6"
- 8"
- 10"
- 12"
- 16"
- 20"



**Project #4 - Jackson Avenue & Lee Avenue  
Connect Water Services to 12" & Abandon 6"**

SCALE: 1" = 300'

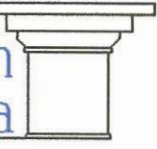
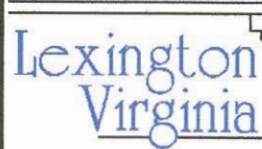
JOB #: B15164B-01



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**FIGURE  
4**

Path: P:\B15100\B15164B-01\GIS\Project 4 - Water Services on Jackson.mxd



**CIP PROJECT REQUEST**

UF-19

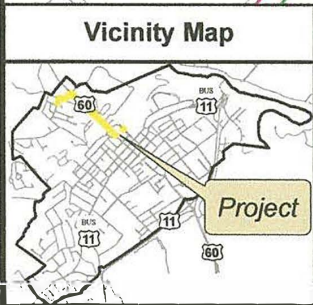
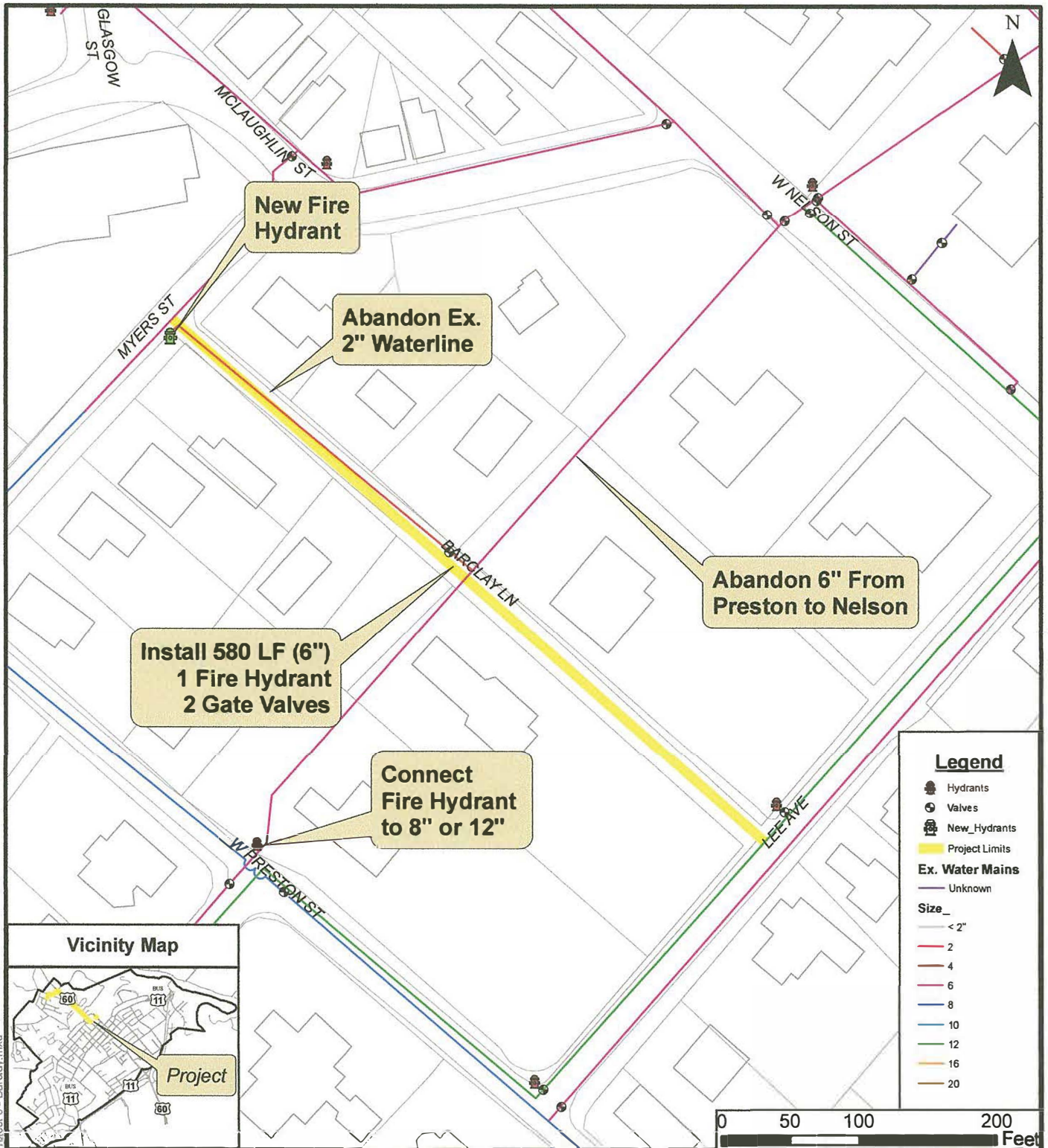
Requesting Department:	Public Works
Category:	Water
Title:	Barclay Drive Water System Upgrades
Status:	No Change

Description:	Project requires approximately 580 LF of 6-inch ductile iron (DI) pipe and an abandonment of an existing 6-inch pipe. A new 580 LF alignment will connect Myers St. and Lee Ave. along Barclay Ln. with a 6-inch DI pipe and will require 1 fire hydrant, 2 gate valves and approximately 7 new service connections (including 2 meter relocations). The existing 6-inch cast iron pipe from W. Preston St. to W. Nelson St and the existing 2-inch cast iron pipe in Barclay Ln will be abandoned in place. Relocate fire hydrant connection at the intersection of W. Preston St. and Jackson Ave. from the, to be abandoned 6-inch pipe, to the 8-inch or 12-inch pipe on Preston St.
--------------	--

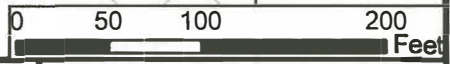
Justification:	Active pipes are more easily accessible in right-of-ways rather than backyards in case of emergency. The existing pipes being abandoned are approximately 92 years old and are beyond their designed life cycle of use. This project has social impacts by abandoning an active line between parcels and moving the active line to the street removing the need for easements on private property.
----------------	--

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$50,000	\$232,000	\$282,000
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$50,000	\$232,000	\$282,000



Legend	
	Hydrants
	Valves
	New_Hydrants
	Project Limits
Ex. Water Mains	
	Unknown
Size	
	< 2"
	2
	4
	6
	8
	10
	12
	16
	20



**Project #9 - Barclay Drive**  
**New 6" on Barclay & Abandon 6" Behind Houses**

SCALE: 1" = 100'

JOB #: B15164B-01



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FIGURE

9



**CIP PROJECT REQUEST**

UF 171

Requesting Department:	Public Works
Category:	Water
Title:	Jackson Area Water System Improvements-Phase 1
Status:	New

Description:	Project replaces 870 LF of 8" waterline on W. Preston Street (Jefferson Street to Meyers Street); 550 LF 6" waterline on W. McDowell Street (Jefferson Street to Jackson Avenue); and 1,600 LF of 8" waterline on Meyers and McLaughlin Streets (from White Street to W. Nelson Street). Replacement includes all isolation valves, hydrants and services within the work area(s).
--------------	--

Justification:	Project was developed to align water and wastewater replacement initiatives in this portion of the Jackson neighborhood. Original 2015 Water Distribution System CIP projects did not prioritize these lines due to indeterminate aging data. Project intended to replace waterlines concurrently with wastewater improvements that have been prioritized in this area; thereby, enabling the City to program roadway resurfacing improvements at an earlier time and reducing overall customer inconvenience.
----------------	--

Estimated Annual Operating Cost:	\$2,015
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$135,900	\$1,400,000	\$1,535,900
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$135,900	\$1,400,000	\$1,535,900



**CIP PROJECT REQUEST**

UF-73

Requesting Department:	Public Works
Category:	Wastewater
Title:	White Street Area Wastewater Collection Line
Status:	No Change

Description:	This project replaces approximately 2800 linear feet of existing gravity sewer pipe and associated laterals along White Street from Main Street to Jackson Avenue. Existing service line connections to residences will be replaced to the property line and will include cleanouts.
--------------	--

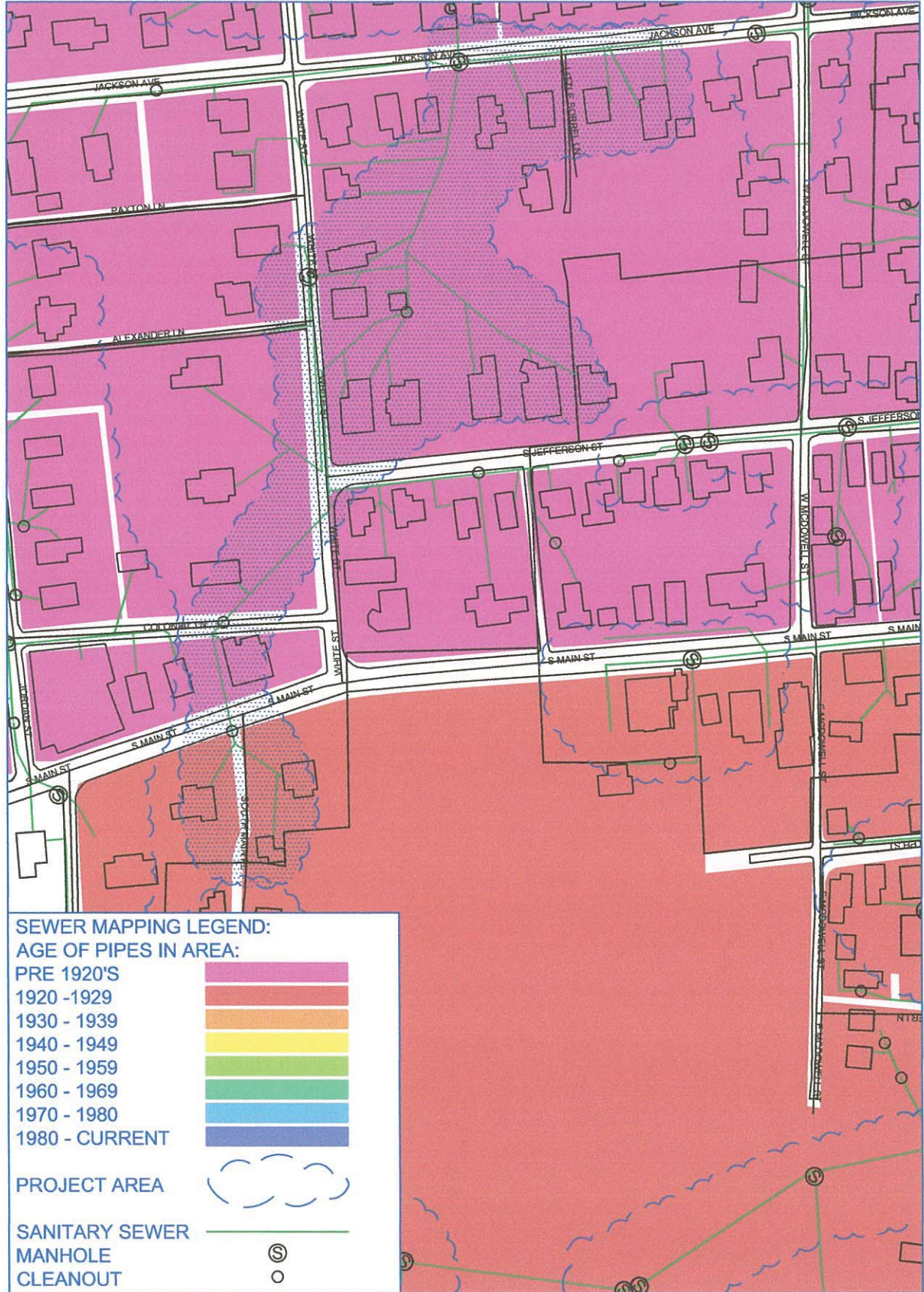
Justification:	The Jackson sewershed is amongst the oldest section of the City's infrastructure with areas dating back to the founding of the City. The infrastructure does not meet current regulations and has a history of inflow and infiltration problems as well as other problems related to the sewers age. The line has been previously tested and examined by the City personnel and is known to have I&I issues.
----------------	--

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$156,520	\$524,748	\$681,268
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$156,520	\$524,748	\$681,268

CITY OF LEXINGTON - CAPITAL IMPROVEMENTS PLAN  
 JACKSON BASIN - WHITE STREET AREA WASTEWATER COLLECTION LINE

CIP# UF-73







**CIP PROJECT REQUEST**

UF-75

Requesting Department:	Public Works
Category:	Wastewater
Title:	McDowell Street Area Wastewater Collection Line
Status:	No Change

Description:	This project replaces approximately 1450 linear feet of existing gravity sewer pipe and associated laterals along McDowell Street from Jackson Avenue to McLaughlin Street. Existing service line connections to residences will be replaced to the property line and will include cleanouts.
--------------	---

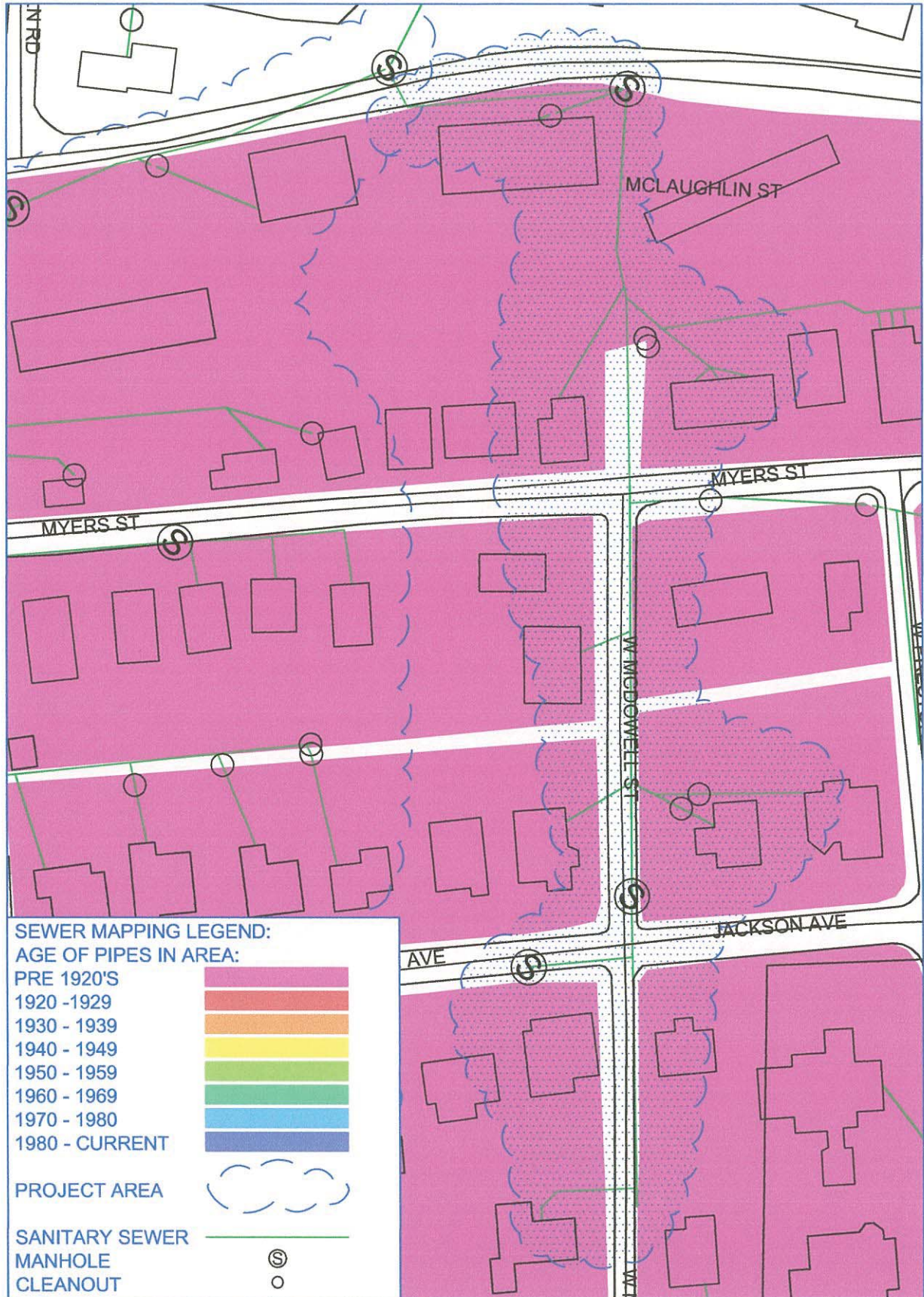
Justification:	The Jackson sewershed is amongst the oldest section of the City's infrastructure with areas dating back to the founding of the City. The infrastructure does not meet current regulations and has a history of inflow and infiltration problems as well as other problems related to the sewers age. The line has been previously tested and examined by the City personnel and is known to have I&I issues.
----------------	--

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$95,740	\$292,528	\$388,268
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$95,740	\$292,528	\$388,268

CITY OF LEXINGTON - CAPITAL IMPROVEMENTS PLAN  
 JACKSON BASIN - W MCDOWELL STREET AREA WASTEWATER COLLECTION LINE

CIP# UF-75





**CIP PROJECT REQUEST**

UF-77

Requesting Department:	Public Works
Category:	Wastewater
Title:	Myers Street Area Wastewater Collection Line
Status:	No Change

Description:	This project replaces approximately 3500 linear feet of existing gravity sewer pipe and associated laterals along Myers Street and Highland Road from Jackson Avenue to McLaughlin. Existing service line connections to residences will be replaced to the property line and will include cleanouts.
--------------	---

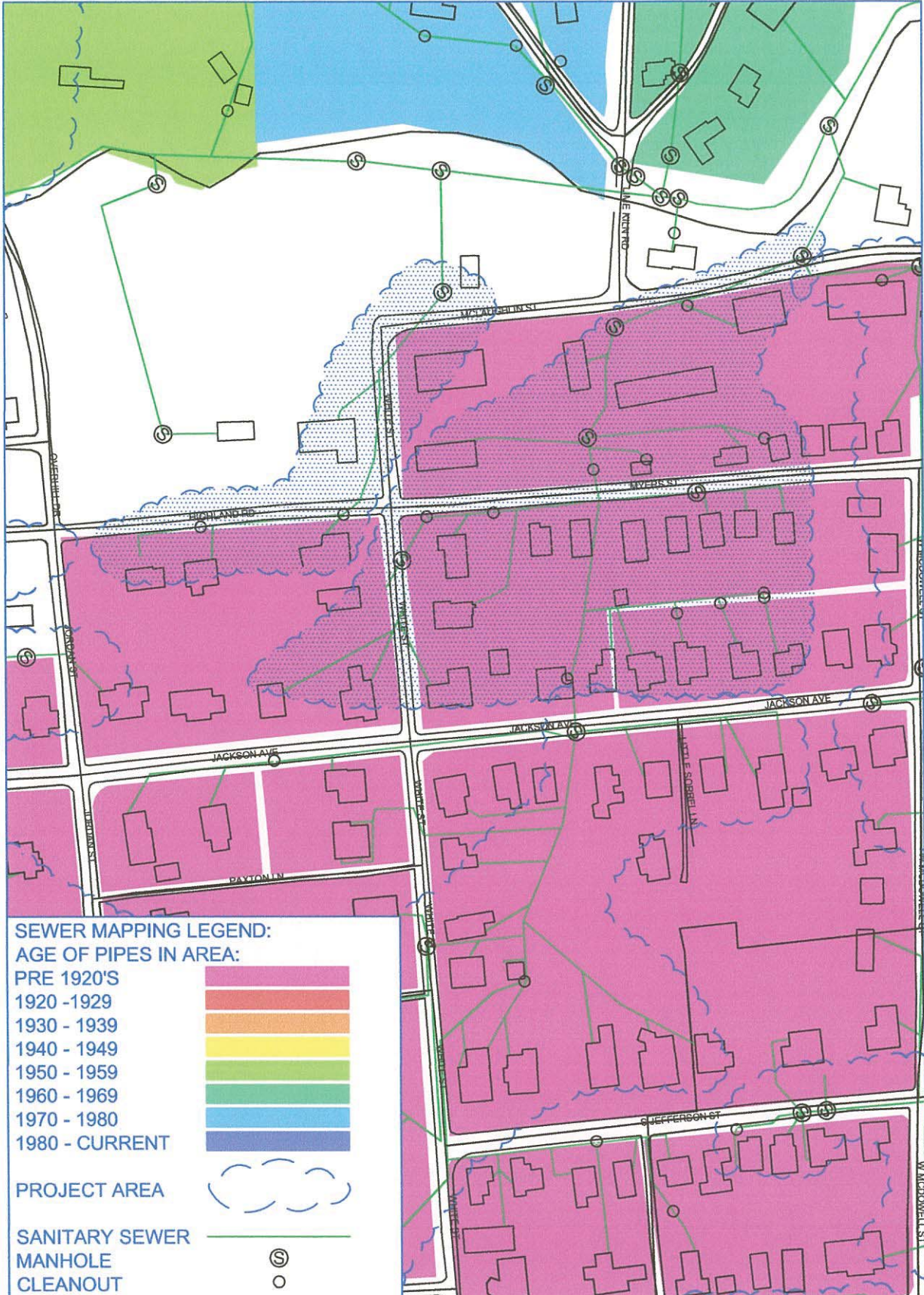
Justification:	The Jackson sewershed is amongst the oldest section of the City's infrastructure with areas dating back to the founding of the City. The infrastructure does not meet current regulations and has a history of inflow and infiltration problems as well as other problems related to the sewers age. The line has been previously tested and examined by the City personnel and is known to have I&I issues.
----------------	--

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

<b>Funding Summary</b>							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$165,128	\$560,093	\$725,221
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$165,128	\$560,093	\$725,221

CITY OF LEXINGTON - CAPITAL IMPROVEMENTS PLAN  
 JACKSON BASIN - MYERS STREET AREA WASTEWATER COLLECTION LINE

CIP# UF-77



# Not Yet Programmed

Page #	CIP #	Project Title	FY22/23	Subtotals
		<b><u>Water Projects</u></b>		
23-1	UF-9	Jackson & Lee	\$ 170,000	
N-2	UF-11	Jackson/Whitmore (Jordan to Plunkett)	\$ 648,104	
N-3	UF-13	Sellers/Edmondson & Westside Ct.	\$ 796,948	
N-4	UF-15	Stonewall & Marshall	\$ 817,099	
23-2	UF-19	Barclay Drive	\$ 232,000	
N-6	UF-23	Carruthers & Dorman	\$ 184,172	
N-7	UF-25	E. Preston & Varner	\$ 569,966	
N-8	UF-29	New Water Main- Jordan St. to Enfield Pump Station	\$1,357,634	
N-9	UF-31	Bell Rd.	\$ 576,069	
N-10	UF-33	Confederate Circle	\$ 239,445	
N-11	UF-35	Center St. & Summit St.	\$ 434,651	
N-12	UF-37	Maple Lane	\$ 382,348	
N-13	UF-39	Willow Lane & Lampe Circle	\$ 265,649	
N-14	UF-41	Stono Lane & N. Main St.	\$ 301,296	
N-15	UF-43	Hook Lane & Graham Lane	\$ 180,141	
N-16	UF-45	Overhill Dr.	\$ 518,886	
N-17	UF-47	Providence Hill Neighborhood	\$ 934,547	
N-18	UF-49	Johnston & Oakview Neighborhoods	\$ 971,890	
N-19	UF-51	Paxton & Boyer Neighborhoods	\$1,123,811	
N-20	UF-55	Estill St.	\$ 183,111	
N-21	UF-57	Diamond, Maury, Smith, Lewis	\$ 866,649	
N-22	UF-59	N. Lewis St.	\$ 236,899	
N-23	UF-61	McCorkle Dr. & Shop Rd.	\$1,112,990	
N-24	UF-63	Highland Dr.	\$ 266,710	
N-25	UF-65	Borden Rd.	\$ 219,712	
N-26	UF-67	Ross Rd.	\$ 651,605	
N-27	UF-69	Thornhill Rd.	\$1,008,279	
23-3	UF 171	Jackson Area Water System Improvements-Phase 1	\$1,400,000	
		Category Total		\$16,650,613
		<b><u>Wastewater Projects</u></b>		
23-4	UF-73	White St. Area	\$ 524,748	
23-5	UF-75	McDowell St. Area	\$ 292,528	
23-6	UF-77	Myers St. Area	\$ 560,093	
N-28	UF-79	Highland Rd. Area	\$ 442,714	
N-29	UF-81	Spotswood Dr. Area	\$ 401,413	
N-30	UF-83	Taylor St. Area	\$ 571,571	
N-31	UF-85	Central Jackson Wastewater Collection Line Redesign	\$2,785,075	

# Not Yet Programmed

Page #	CIP #	Project Title	FY22/23	Subtotals
N-32	UF-87	N. Jefferson Area	\$ 154,043	
N-33	UF-89	S. Jefferson Area	\$ 183,642	
N-34	UF-91	S. Jefferson St. Wastewater Collection Line	\$ 266,604	
N-35	UF-93	S. Main St.	\$ 199,025	
N-36	UF-95	Lee Highway	\$ 506,728	
N-37	UF-97	Graham & Hook Lane Area	\$ 494,337	
N-38	UF-99	Cambell Lane Area	\$ 291,960	
N-39	UF-101	Willis Rd. to N. Lewis St.	\$ 380,917	
N-40	UF-103	Morningside Dr. & Donald St.	\$ 435,818	
N-41	UF-105	E. Nelson St.	\$ 472,069	
N-42	UF-109	McCorkle Interceptor	\$ 245,290	
N-43	UF-111	McCorkle Dr. Area	\$ 244,399	
N-44	UF-113	Allen Ave. & Mary Lane	\$ 320,688	
N-45	UF-117	Overhill Dr.	\$ 282,380	
N-46	UF-125	Taylor St. to E. Preston	\$ 486,529	
N-47	UF-127	Houston St.	\$ 344,856	
N-48	UF-129	Senseny Lane & Carruthers St.	\$ 468,865	
N-49	UF-135	S. Randolph St.	\$ 116,126	
N-50	UF-139	Diamond St.	\$ 181,053	
N-51	UF-145	Arpia St.	\$ 211,872	
N-52	UF-147	Waddell St.	\$ 231,202	
N-53	UF-149	Morrison Dr., Link Rd., Welch Park Place	\$ 547,382	
N-54	UF-151	Shenandoah Rd.	\$ 354,903	
N-55	UF-153	McMath Circle	\$ 130,639	
N-56	UF-155	Colston St.	\$ 339,742	
N-57	UF-157	Hamric St. Area	\$ 320,158	
N-58	UF-159	Thornhill Rd.	\$ 488,152	
N-59	UF-161	Providence Place & McCormick St.	\$ 553,365	
N-60	UF-163	Ruffner Place	\$ 235,382	
N-61	UF-165	Master Meter Installation	\$ 223,181	
N-62	UF-167	Marshall St.	\$ 124,630	
		Category Total		\$15,414,079
		Total of unscheduled Utility Fund projects		\$32,064,692



**CIP PROJECT REQUEST**

UF-11

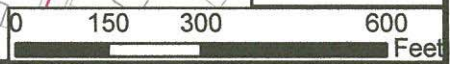
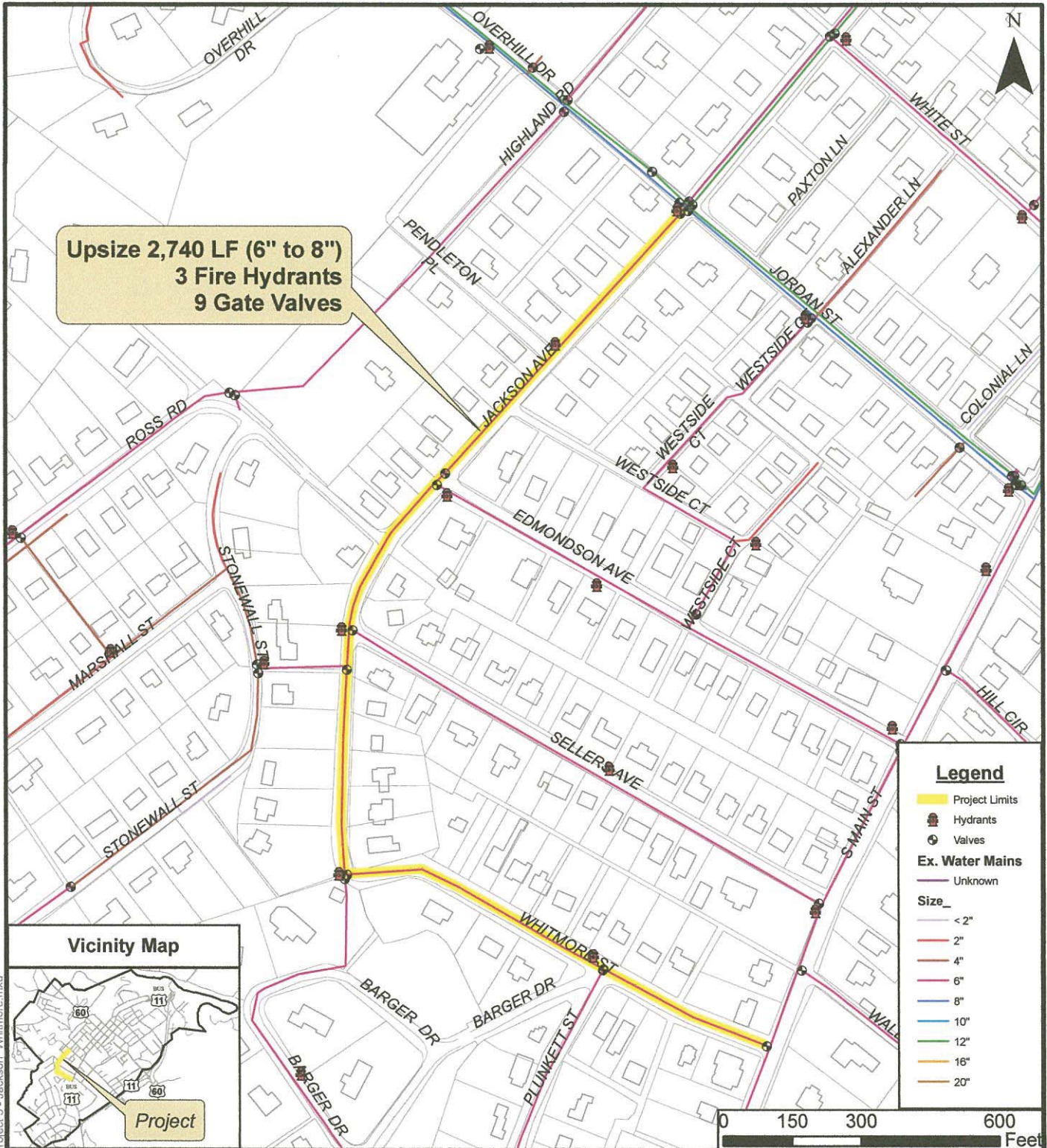
Requesting Department:	Public Works
Category:	Water
Title:	Jackson Avenue/Whitmore Street (Jordan to Plunkett) Water System Upgrades
Status:	No Change

Description:	Project upsizes approximately 2,740 LF of 6-inch cast iron pipe to 8-inch ductile iron (DI) pipe. The project is located on Whitmore St. from S Main St. To Jackson Ave, and Jackson Ave. from Whitmore to Jordan St. and includes 3 fire hydrants, 9 gate valves, and approximately 47 service connections will be replaced.
--------------	---

Justification:	The pipes in this section are beyond their designed life cycle use as they are approximately 92 years old potentially resulting in poor water quality and high exfiltration in joints. This project has a high impact of deferral based on the age of the pipe and the potential for failure resulting in increased risk to health and safety of the community.
----------------	---

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$648,104	\$648,104
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$648,104	\$648,104



**Project #5 - Jackson/Whitmore (Jordan to Plunkett)**  
**Upsize 6" to 8"**

SCALE: 1" = 300'  
JOB #: B15164B-01

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Hampton Roads, VA



**FIGURE**  
**5**





**CIP PROJECT REQUEST**

UF-13

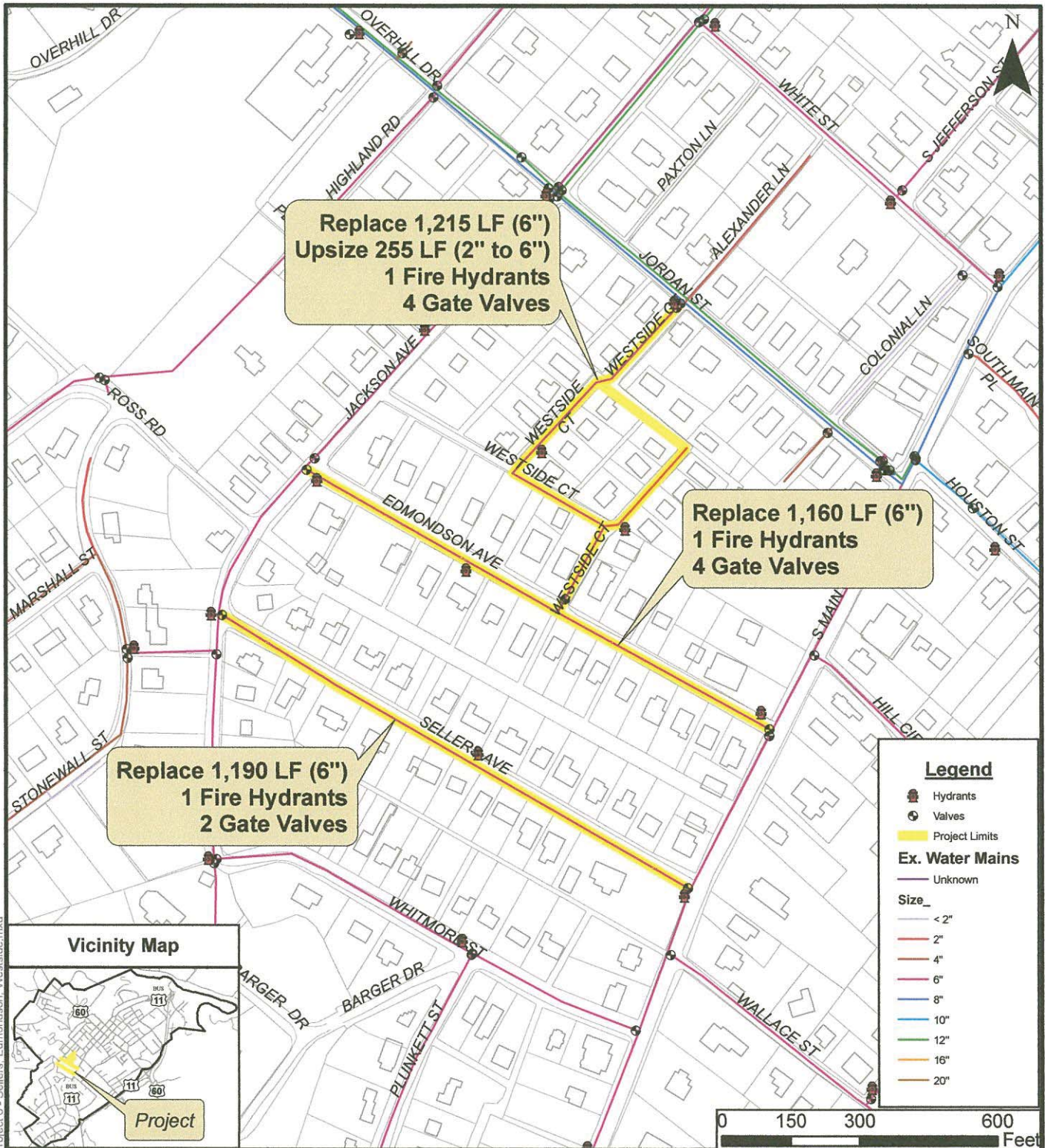
Requesting Department:	Public Works
Category:	Water
Title:	Sellers Avenue, Edmondson Avenue & Westside Court Water System Upgrade
Status:	No Change

Description:	Project upsizes approximately 255 LF of 2-inch pipe to 6-inch ductile iron (DI) pipe and replaces 3,565 LF of 6-inch cast iron pipe with 6-inch DI pipe. The entire length of Sellers Ave. will be replaced with 1,190 LF of 6-inch DI pipe, 1 fire hydrants, 2 gate valves and approximately 20 service connections. The entire length of Edmondson Ave. will be replaced with 1,160 LF of 6-inch DI pipe, 1 fire hydrants, 4 gate valves and approximately 25 service connections. Westside Ct. from Edmondson Ave. to Jordan St. will be replaced with 1,470 LF of 6-inch DI pipe creating a loop, 1 fire hydrant, 4 gate valves and approximately 21 service connections.
--------------	---

Justification:	The pipes in this section are beyond their designed life cycle use as they are approximately 85 and 92 years old potentially resulting in poor water quality and high exfiltration in joints. This project has a high impact of deferral based on the age of the pipe and the potential for failure resulting in increased risk to health and safety of the community.
----------------	--

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

<b>Funding Summary</b>							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$796,948	\$796,948
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$796,948	\$796,948



**Legend**

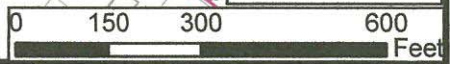
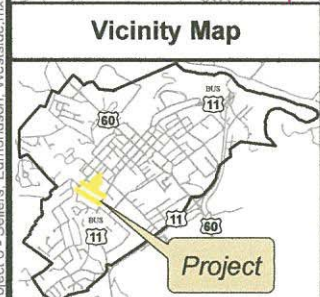
- Hydrants
- Valves
- Project Limits

**Ex. Water Mains**

- Unknown

**Size\_**

- < 2"
- 2"
- 4"
- 6"
- 8"
- 10"
- 12"
- 16"
- 20"



**Project #6 - Sellers, Edmondson, & Westside**  
**Replace 6" and Upsize 2" to 6"**

SCALE: 1" = 300'  
 JOB #: B15164B-01

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**FIGURE**  
**6**



**CIP PROJECT REQUEST**

UF-15

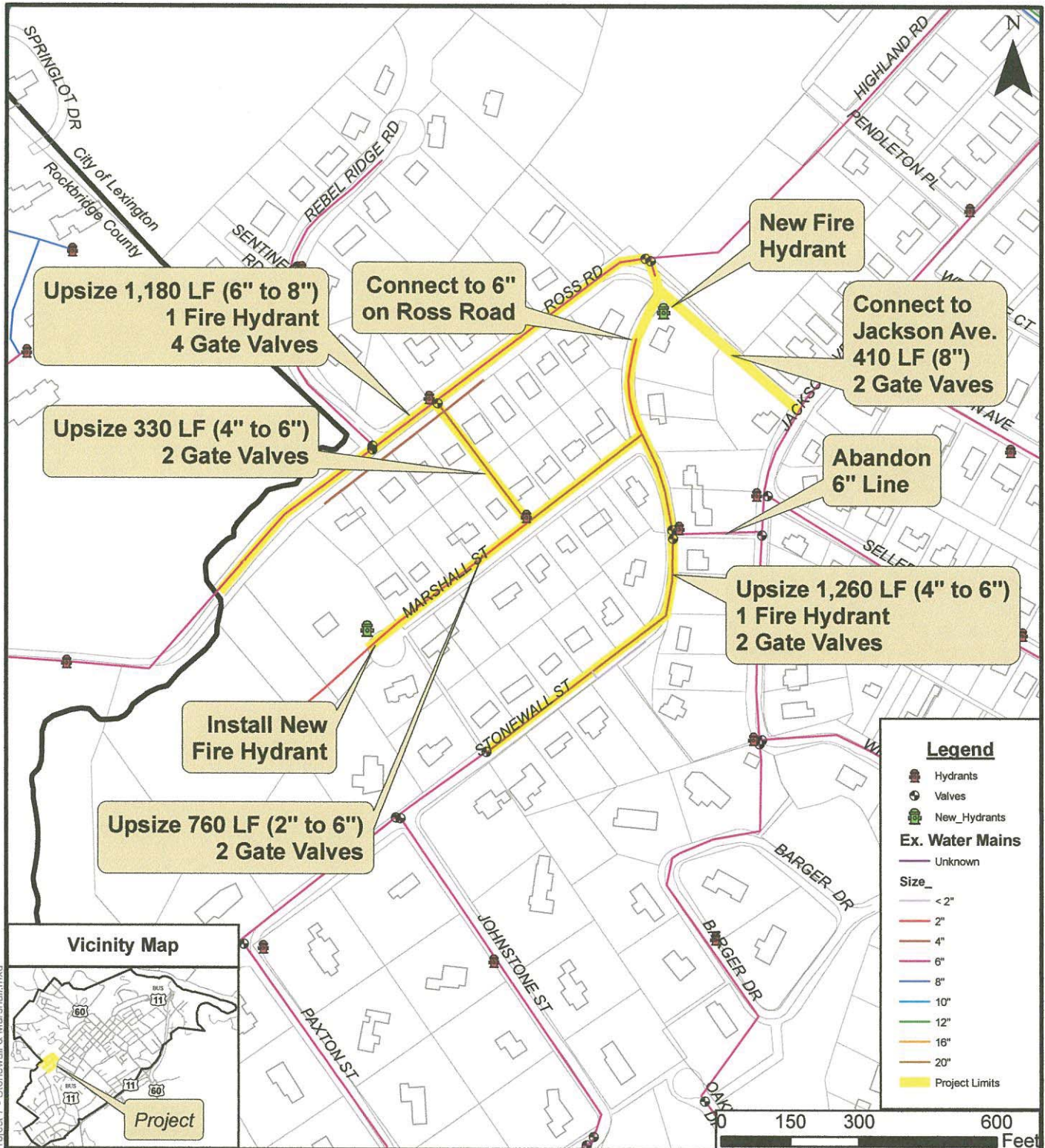
Requesting Department:	Public Works
Category:	Water
Title:	Stonewall Street & Marshall Street Water System Upgrades
Status:	No Change

Description:	<p>Project upsizes approximately 3,530 LF of 2- and 4-inch galvanized steel pipe to 6- and 8-inch ductile iron (DI) pipe, including 410 LF of new 8-inch DI pipe and the abandonment of the existing 2-, 4- and 6-inch cast iron pipes. Stonewall St. from the 600 block valve to Ross Rd. will be replaced with 1,260 LF of 6-inch DI pipe, 1 fire hydrant, 2 gate valves and approximately 17 service connections. The entire length of Marshall St. will be replaced with 760 LF of 6-inch DI pipe, 1 fire hydrant, 2 gate valves and approximately 17 service connections. The existing 6-inch cast iron pipe connecting Stonewall St. and Jackson Ave. will be abandoned in place and the two service connections relocated to the adjacent new 6-inch DI pipe on Stonewall St. A new 410 LF 8-inch DI pipe will connect Stonewall St. to Jackson Ave along Ross Rd. Ross Rd. from the City line to Stonewall St. will be replaced with 1,180 LF of 8-inch DI pipe including 1 fire hydrant, 4 gate valves and approximately 14 service connections. The 4-inch pipe connecting Ross Rd. to the center of Marshall St. will be replaced with 330 LF of 6-inch DI pipe including 2 gate valves.</p>
--------------	---

Justification:	<p>The pipes in this section are beyond their designed life cycle use as they are approximately 92 years old potentially resulting in poor water quality and high exfiltration in joints. This project has a high impact of deferral based on the age of the pipe and the potential for failure resulting in increased risk to health and safety of the community.</p>
----------------	--

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$817,099	\$817,099
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$817,099	\$817,099



**Legend**

- Hydrants
- Valves
- New Hydrants
- Ex. Water Mains**
- Unknown
- Size**
- < 2"
- 2"
- 4"
- 6"
- 8"
- 10"
- 12"
- 16"
- 20"
- Project Limits



**Project #7 - Stonewall & Marshall & Jackson Ave. Tie-in**  
**Upsize 2" & 4" to 6" / 6" to 8"**

SCALE: 1" = 300'  
 JOB #: B15164B-01

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**FIGURE**  
**7**



**CIP PROJECT REQUEST**

UF-23

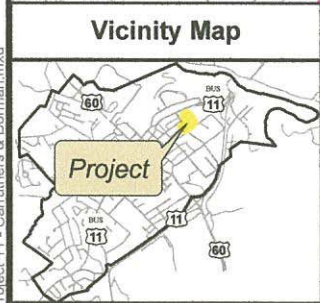
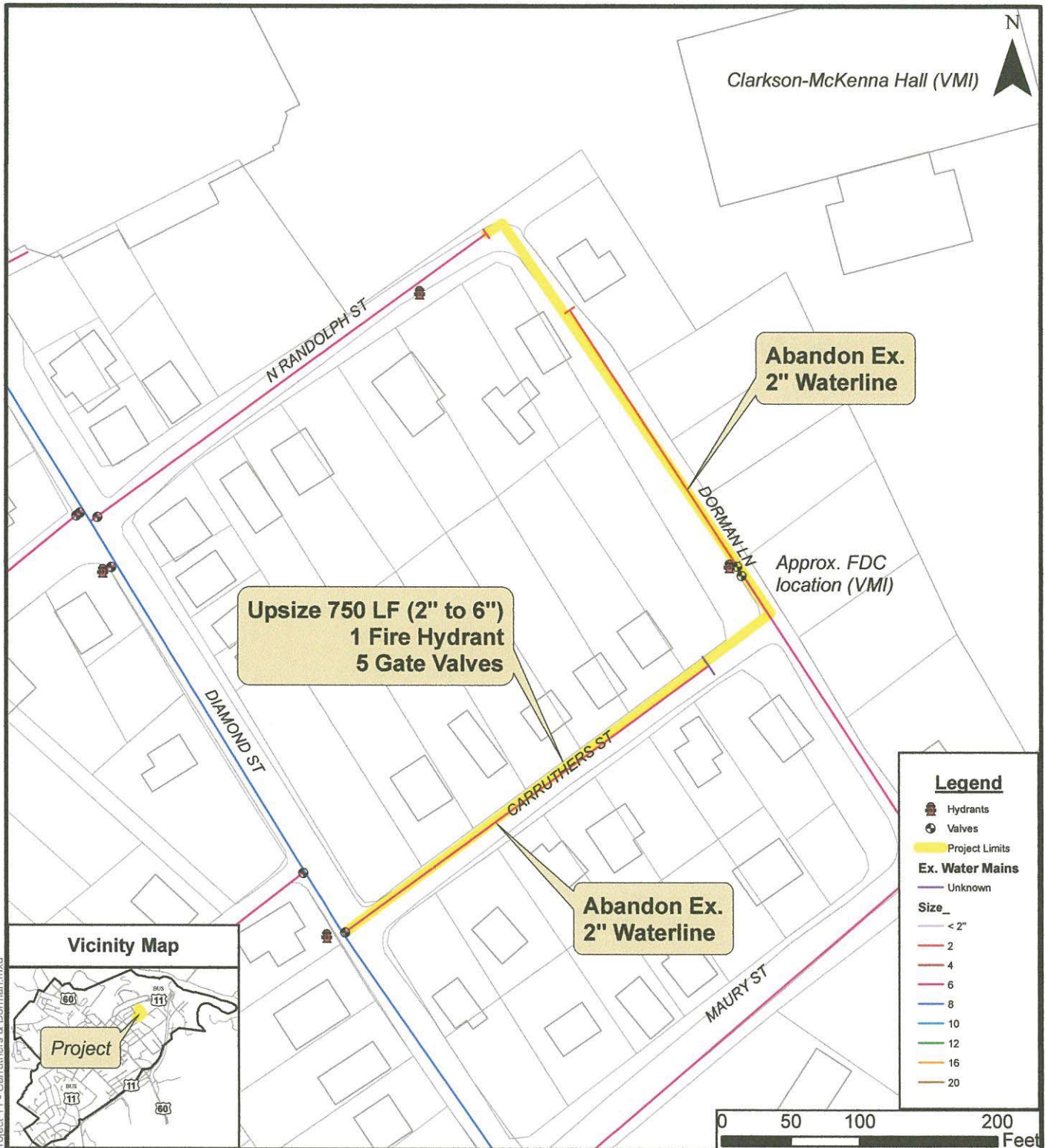
Requesting Department:	Public Works
Category:	Water
Title:	Carruthers Street & Dorman Lane Water System Upgrades
Status:	No Change

Description:	Project upsizes two 2-inch pipes with 6-inch pipes and creates a loop by connecting Diamond St. to Carruthers St. to Dorman Ln. to the end of N. Randolph St. The existing 2-inch cast iron pipes will be abandoned in place and approximately 750 LF of 6-inch DI pipe will replace it including 5 gate valves, 1 fire hydrant, and approximately 14 service connections.
--------------	--

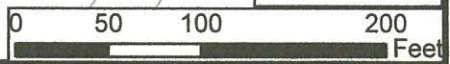
Justification:	This project will offer increased fire flow to the surrounding area. The pipes in this section are of unknown age. This project has public safety implications as it provides protection during a fire event.
----------------	---

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$184,172	\$184,172
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$184,172	\$184,172




Legend	
	Hydrants
	Valves
	Project Limits
Ex. Water Mains	
	Unknown
Size	
	< 2"
	2
	4
	6
	8
	10
	12
	16
	20



**Project #11 - Carruthers St. & Dorman Ln.**  
**New 6" on Carruthers & Dorman & Abandon 2" Pipe**

SCALE: 1" = 100'  
 JOB #: B15164B-01



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**FIGURE**  
**11**



**CIP PROJECT REQUEST**

UF-25

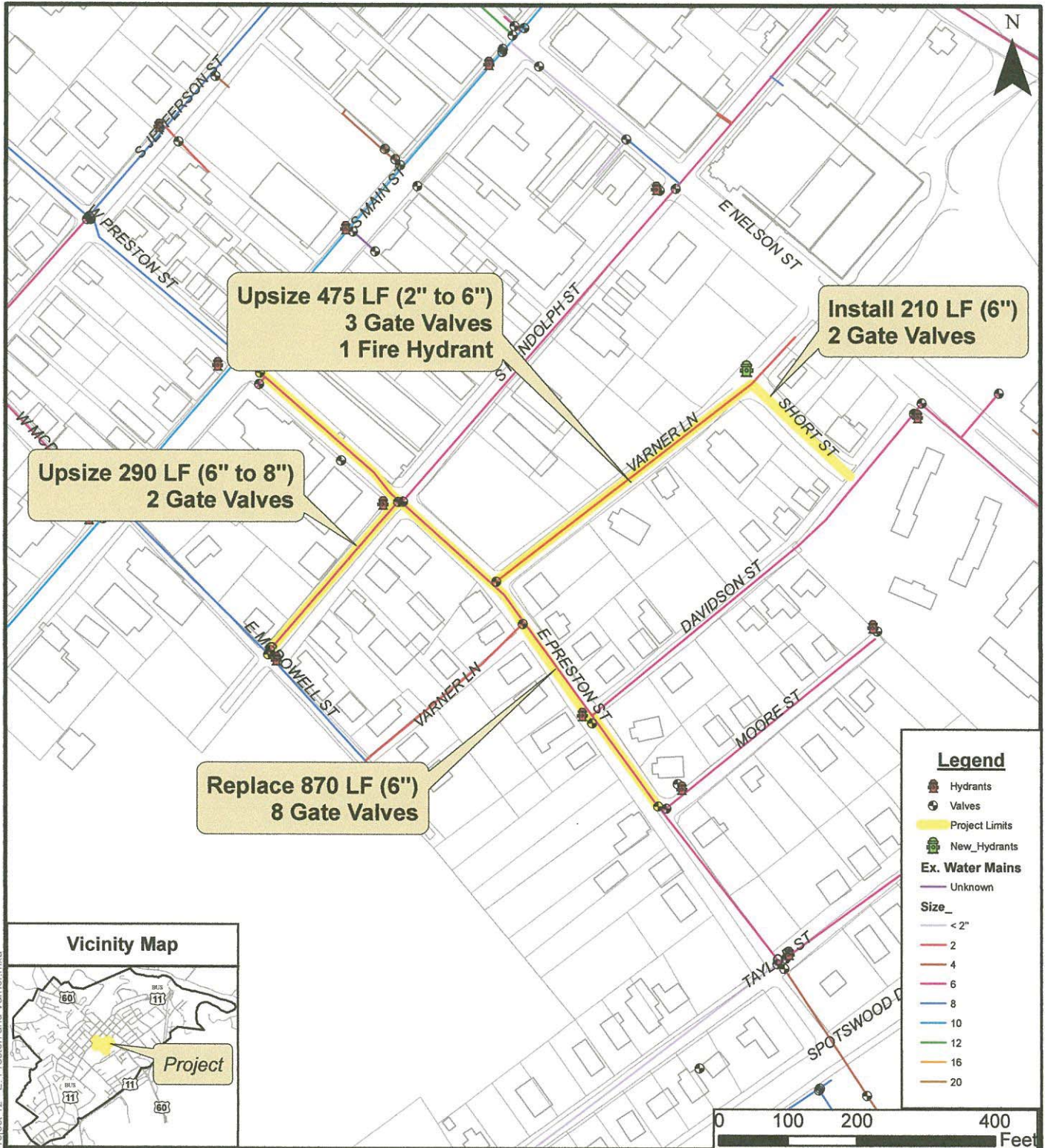
Requesting Department:	Public Works
Category:	Water
Title:	E. Preston Street & Varner Lane Water System Upgrades
Status:	No Change

Description:	Project includes 1,555 LF of 6-inch ductile iron (DI) pipe and 290 LF of 8-inch DI pipe. E. Preston St. from Moore St. to Main St. includes replacement of 870 LF of 6-inch DI pipe, 8 gate valves and approximately 14 service connections. Varner and Short St. includes upsizing 475 LF of 2-inch pipe to 6-inch DI pipe and 210 LF of new 6-inch DI pipe creating a loop for fire flow capacity, 5 gate valves, 1 new fire hydrant and approximately 4 service connections. S. Randolph from McDowell St. to Preston St. includes upsizing 290 LF of 6-inch cast iron pipe to 8-inch DI pipe and 2 gate valves.
--------------	---

Justification:	The pipes in this section are beyond their designed life cycle use as they are approximately 85 years old potentially resulting in poor water quality and high exfiltration in joints. This project has a high impact of deferral based on the age of the pipe and the potential for failure resulting in increased risk to health and safety of the community.
----------------	---

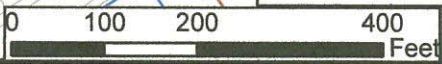
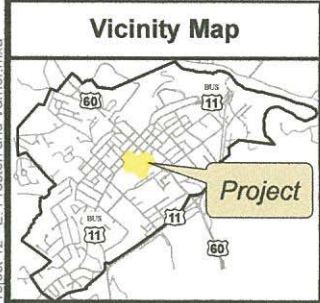
Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$569,966	\$569,966
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$569,966</b>	<b>\$569,966</b>



**Legend**

- Hydrants
- Valves
- Project Limits
- New Hydrants
- Ex. Water Mains**
- Unknown
- Size\_**
- < 2"
- 2
- 4
- 6
- 8
- 10
- 12
- 16
- 20



**Project #12 - E. Preston St. and Varner Ln.**  
**Replace 6" and Upsize 2" to 6" & 6" to 8"**

SCALE: 1" = 200'  
 JOB #: B15164B-01

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**FIGURE**  
**12**





**CIP PROJECT REQUEST**

UF-29

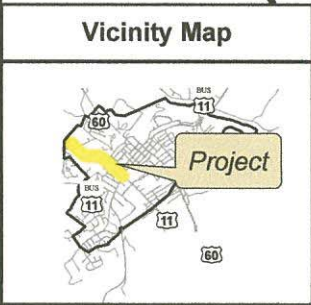
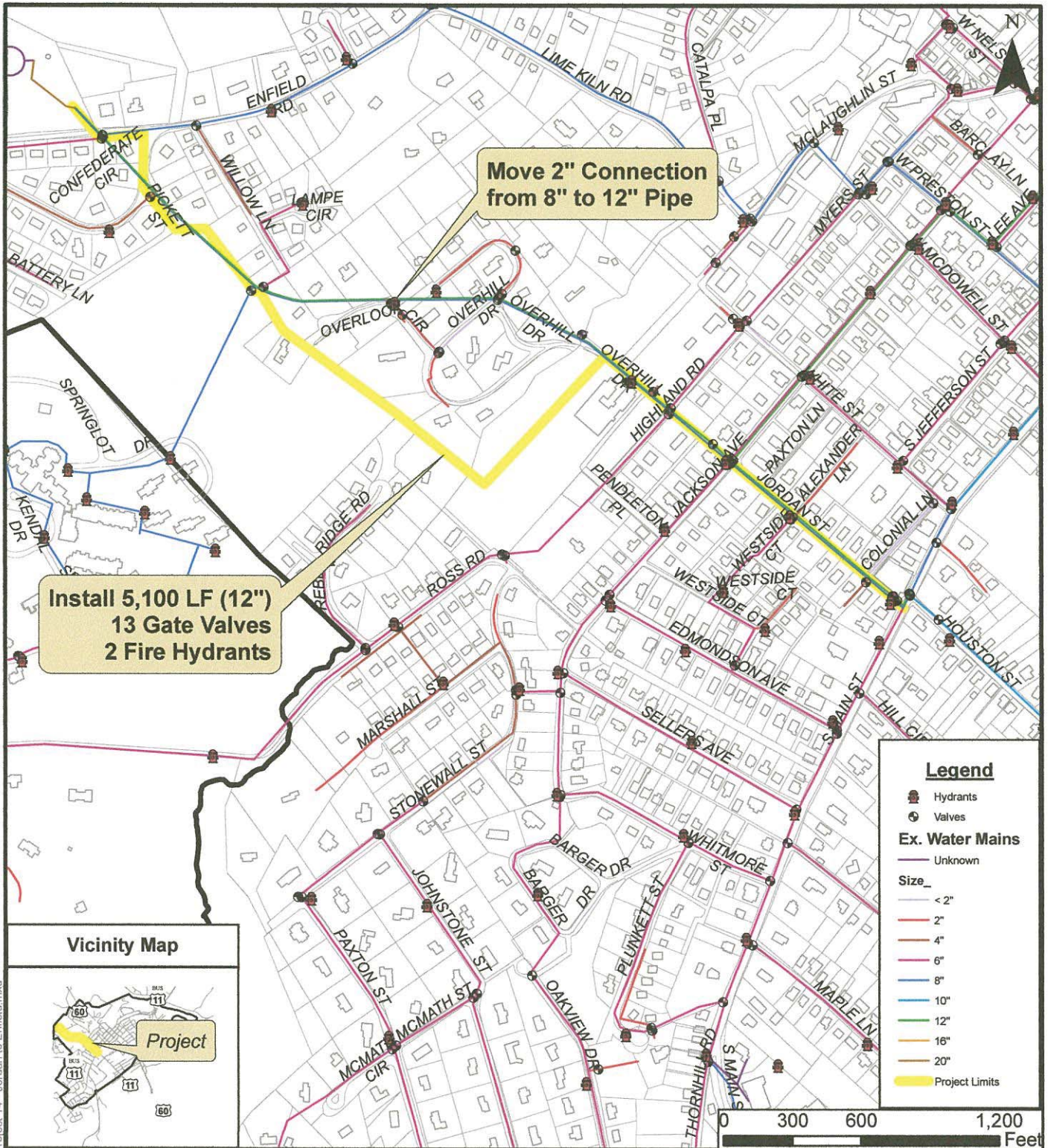
Requesting Department:	Public Works
Category:	Water
Title:	New Water Main- Jordan Street to Enfield Pump Station
Status:	No Change

Description:	Project includes replacing 5,100 LF of 12-inch cast iron pipe to 12-inch ductile iron (DI) pipe and abandonment of 8-inch cast iron pipe. This alignment is from Enfield pump station to Pickett St. then traverses cross country to Overhill Dr. and along Jordan St. to S Main St. This line includes 5,100 LF of 12-inch DI pipe, 13 gate valves, 2 fire hydrants, moving a 2" connection from 8-inch pipe to 12-inch pipe and approximately 10 service connections.
--------------	---

Justification:	The pipes in this section are beyond their designed life cycle use as they are approximately 92 years old potentially resulting in poor water quality and high exfiltration in joints. This project has a high impact of deferral based on the age of the pipe and the potential for failure resulting in increased risk to health and safety of the community. This project will decrease maintenance liability and will be easier to access if needed and will provide higher fire flow potential to the local school.
----------------	--

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$1,357,634	\$1,357,634
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$1,357,634	\$1,357,634



**Project #14 - Jordan St. to Enfield PS**  
**New 12" from Enfield to Main St.**

SCALE: 1" = 600'

JOB #: B15164B-01



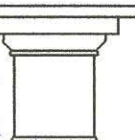
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Lexington  
 Virginia



FIGURE

14



**CIP PROJECT REQUEST**

UF-31

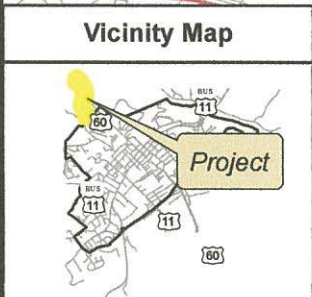
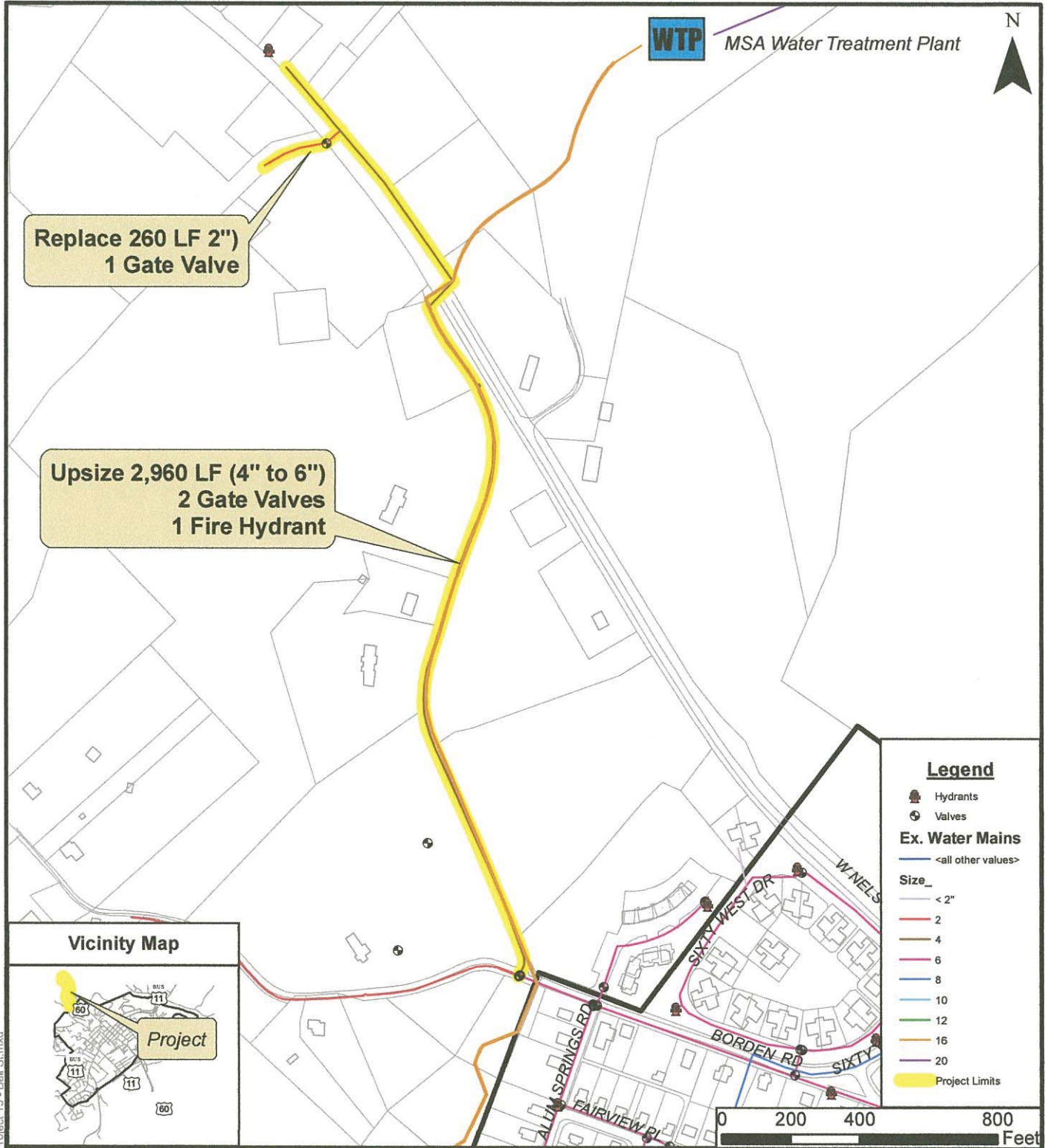
Requesting Department:	Public Works
Category:	Water
Title:	Bell Road Water System Upgrades
Status:	No Change

Description:	Project includes upsizing 2,960 LF of 4-inch cast iron pipe to 6-inch ductile iron (DI) pipe and replacing 260 LF of 2-inch cast iron pipe. This alignment is the entire length of Bell Rd. and W. Midland Trail from Bell Rd. to the end of service fire hydrant. This alignment includes 2,950 LF of 6-inch DI pipe, 2 gate valves, 1 fire hydrant and approximately 5 service connections. An additional 260 LF of 2-inch cast iron pipe along Keydet Ln. will be replaced with 2-inch DI pipe, 1 gate valve and 1 service connection.
--------------	---

Justification:	The pipes in this section are beyond their designed life cycle use as they are approximately 55 years old potentially resulting in poor water quality and high exfiltration in joints. This project has a high impact of deferral based on the age of the pipe and the potential for failure resulting in increased risk to health and safety of the community.
----------------	---

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$576,069	\$576,069
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$576,069	\$576,069



**Project #15 - Bell Rd.**  
**Upsize 4" to 6" & Replace 2"**

SCALE: 1" = 400'  
JOB #: B15164B-01

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**FIGURE**  
**15**



**CIP PROJECT REQUEST**

UF-33

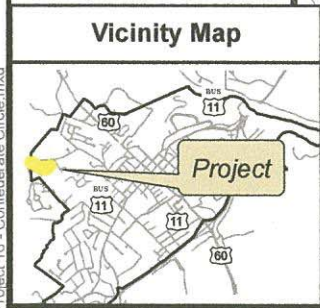
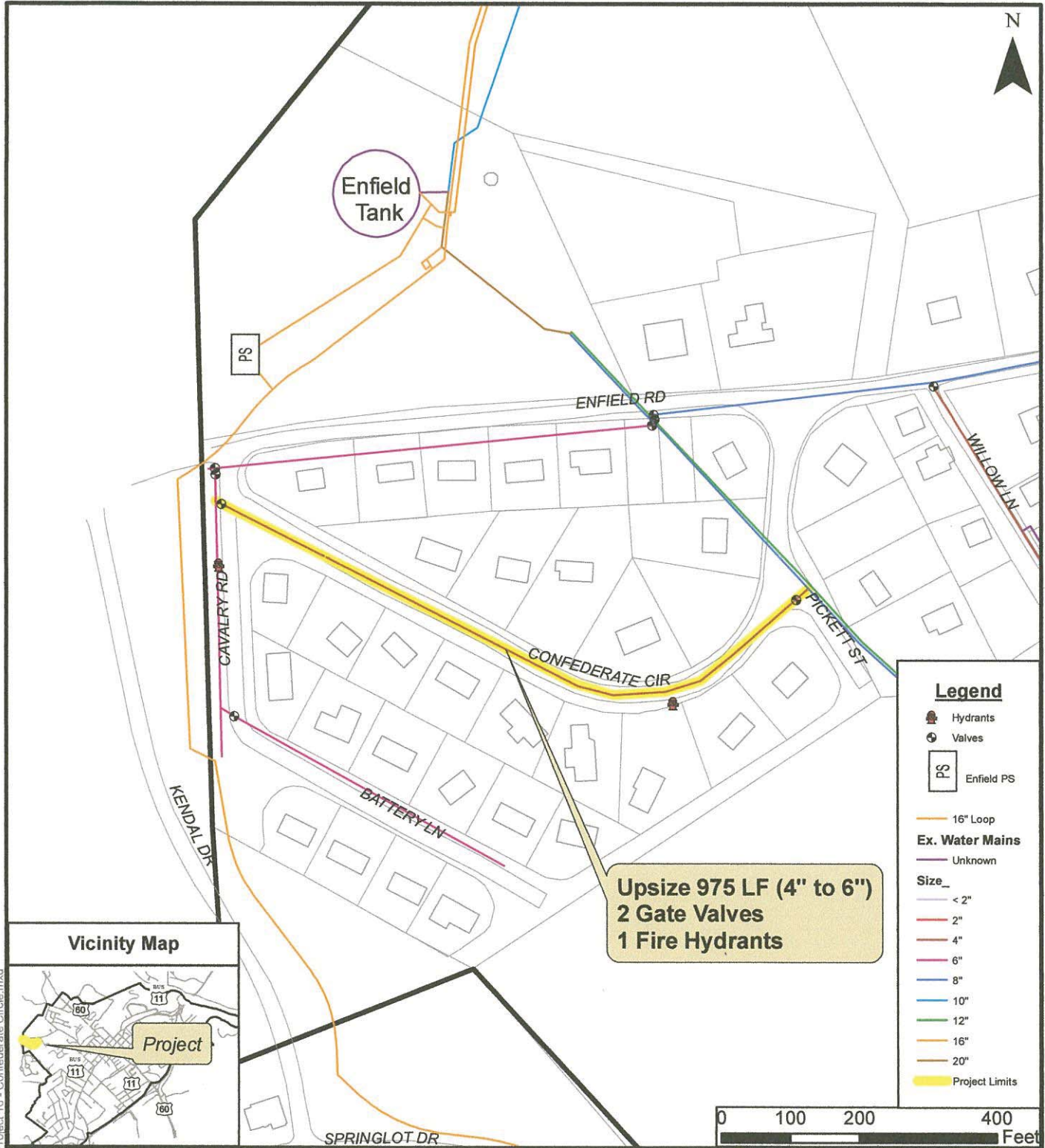
Requesting Department:	Public Works
Category:	Water
Title:	Confederate Circle Water System Upgrades
Status:	No Change

Description:	Project includes upsizing 975 LF of 4-inch cast iron pipe to 6-inch ductile iron (DI) pipe. This alignment includes the entire length of Confederate Cir. from Cavalry Rd. to Pickett St. including 975 LF of 6-inch DI pipe, 2 gate valves, 1 fire hydrant and approximately 13 service connections.
--------------	---

Justification:	This project will offer increased fire flow to the local residences. The pipes in this section are of unknown age. This project has public safety implications as it provides protection during a fire event.
----------------	---


Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

<b>Funding Summary</b>							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$239,445	\$239,445
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$239,445	\$239,445



**Project #16 - Confederate Circle**  
**Upsize 4" to 6"**

SCALE: 1" = 200'  
 JOB #: B15164B-01



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**FIGURE**  
**16**



**CIP PROJECT REQUEST**

UF-35

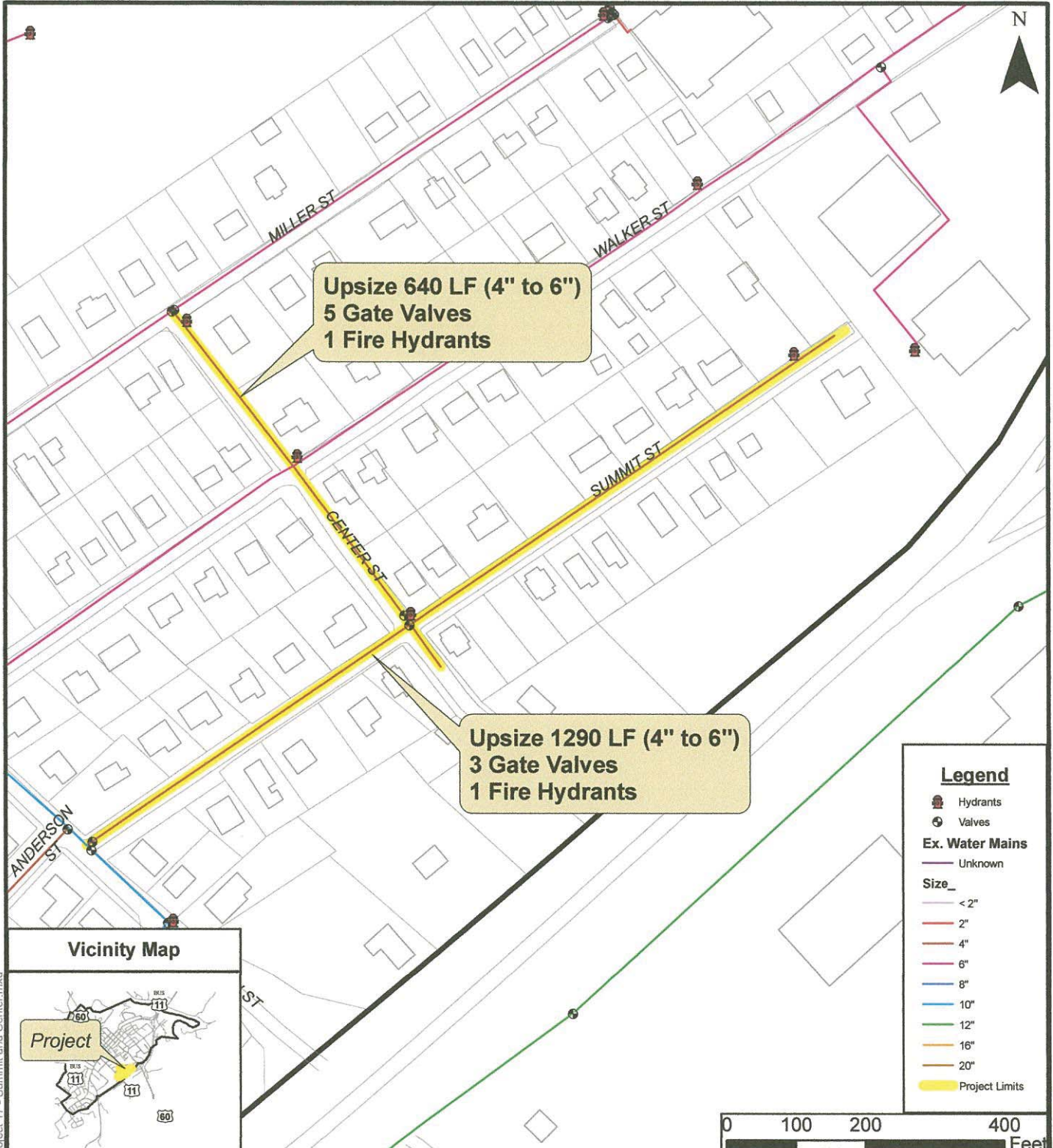
Requesting Department:	Public Works
Category:	Water
Title:	Center Street & Summit Street Water System Upgrades
Status:	No Change

Description:	Project includes upsizing 1,930 LF of 4-inch cast iron pipe to 6-inch ductile iron (DI) pipe. The entire length of Center St. will be upsized including 640 LF of 6-inch DI pipe, 5 gate valves, 1 fire hydrant and approximately 10 service connections. This entire length of Summit St. and a connection to the adjacent pipe will be upsized including 1,290 LF of 6-inch DI pipe, 3 gate valves, 1 fire hydrant and approximately 10 service connections.
--------------	--

Justification:	This project will offer increased fire flow to the local residences. The pipes in this section are approximately 50 years old. This project has public safety implications as it provides protection during a fire event.
----------------	---

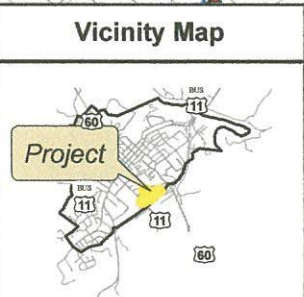
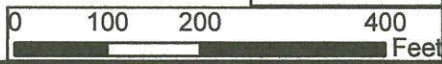
Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$434,651	\$434,651
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$434,651	\$434,651



**Legend**

- Hydrants
- Valves
- Ex. Water Mains**
- Unknown
- Size\_**
- < 2"
- 2"
- 4"
- 6"
- 8"
- 10"
- 12"
- 16"
- 20"
- Project Limits



**Project #17 - Summit St. & Center St.**  
**Upsize 4" to 6"**

SCALE: 1" = 200'  
 JOB #: B15164B-01

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**FIGURE**  
**17**





**CIP PROJECT REQUEST**

UF-37

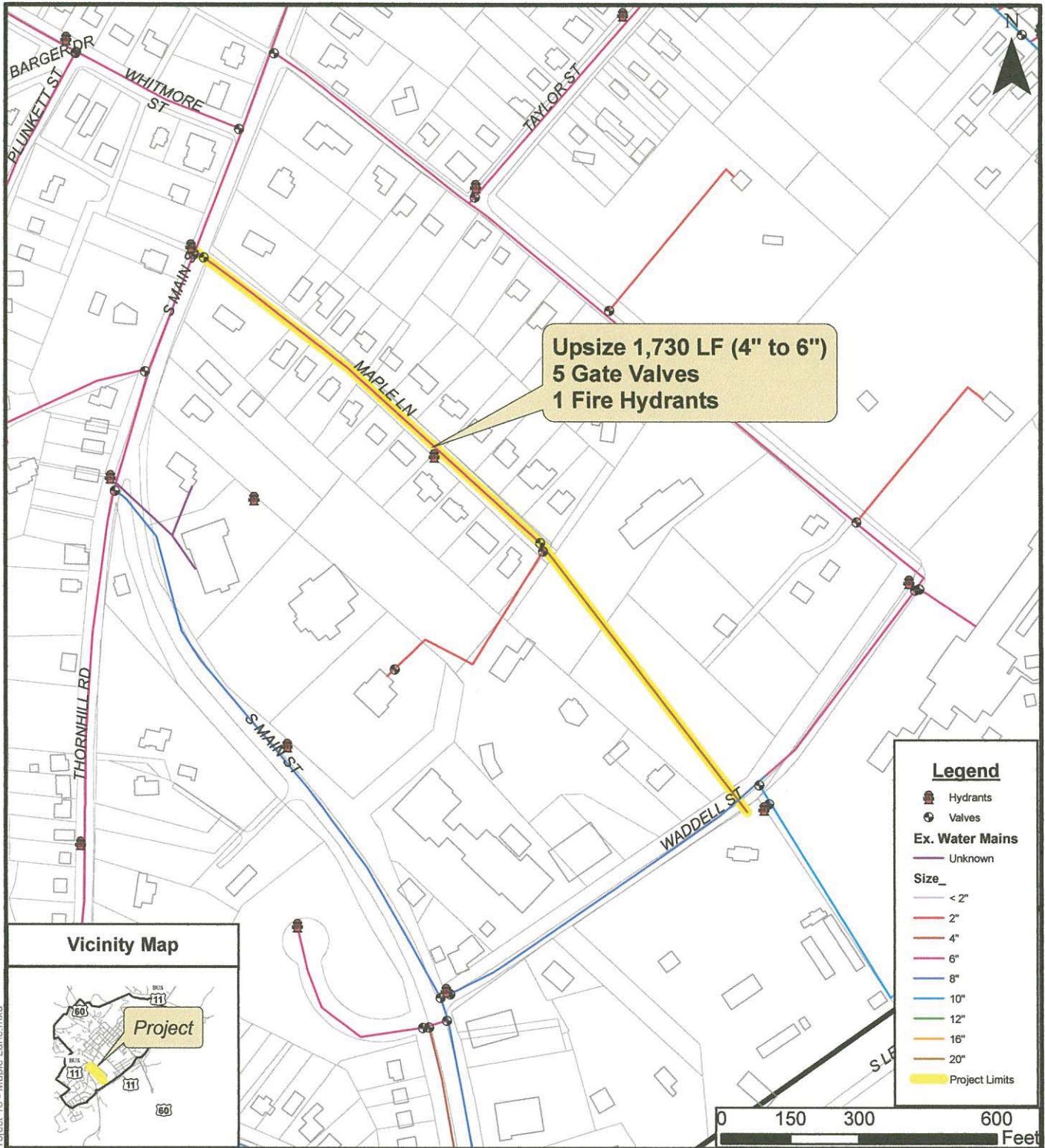
Requesting Department:	Public Works
Category:	Water
Title:	Maple Lane Water System Upgrades
Status:	No Change

Description:	Project includes upsizing 1,730 LF of 4-inch cast iron pipe to 6-inch ductile iron (DI) pipe. The entire length of Maple Ln. and across to Waddell St. will be upsized including 1,730 LF of 6-inch DI pipe, 5 gate valves, 1 fire hydrants and approximately 23 service connections.
--------------	---

Justification:	This project will offer increased fire flow to the local residences. The pipes in this section are beyond their designed life cycle use as they are approximately 64 years old potentially resulting in poor water quality and high exfiltration in joints. This project has a high impact of deferral based on the age of the pipe and the potential for failure resulting in increased risk to health and safety of the community.
----------------	--

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$382,348	\$382,348
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$382,348	\$382,348



**Upsize 1,730 LF (4" to 6")  
5 Gate Valves  
1 Fire Hydrants**


**Legend**

- Hydrants
- Valves
- Ex. Water Mains**
- Unknown
- Size**
- <2"
- 2"
- 4"
- 6"
- 8"
- 10"
- 12"
- 16"
- 20"
- Project Limits



**Project #18 - Maple Ln.  
Upsize 4" to 6"**

SCALE: 1" = 300'  
JOB #: B15164B-01



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**FIGURE  
18**

Path: P:\B15100B\15164B\B15164B-01\PGIS\Project\_18 - Maple Lane.mxd



**CIP PROJECT REQUEST**

UF-39

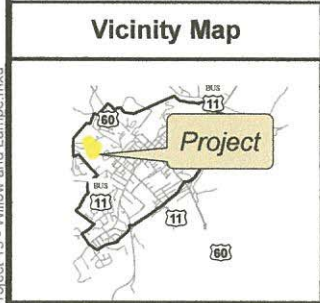
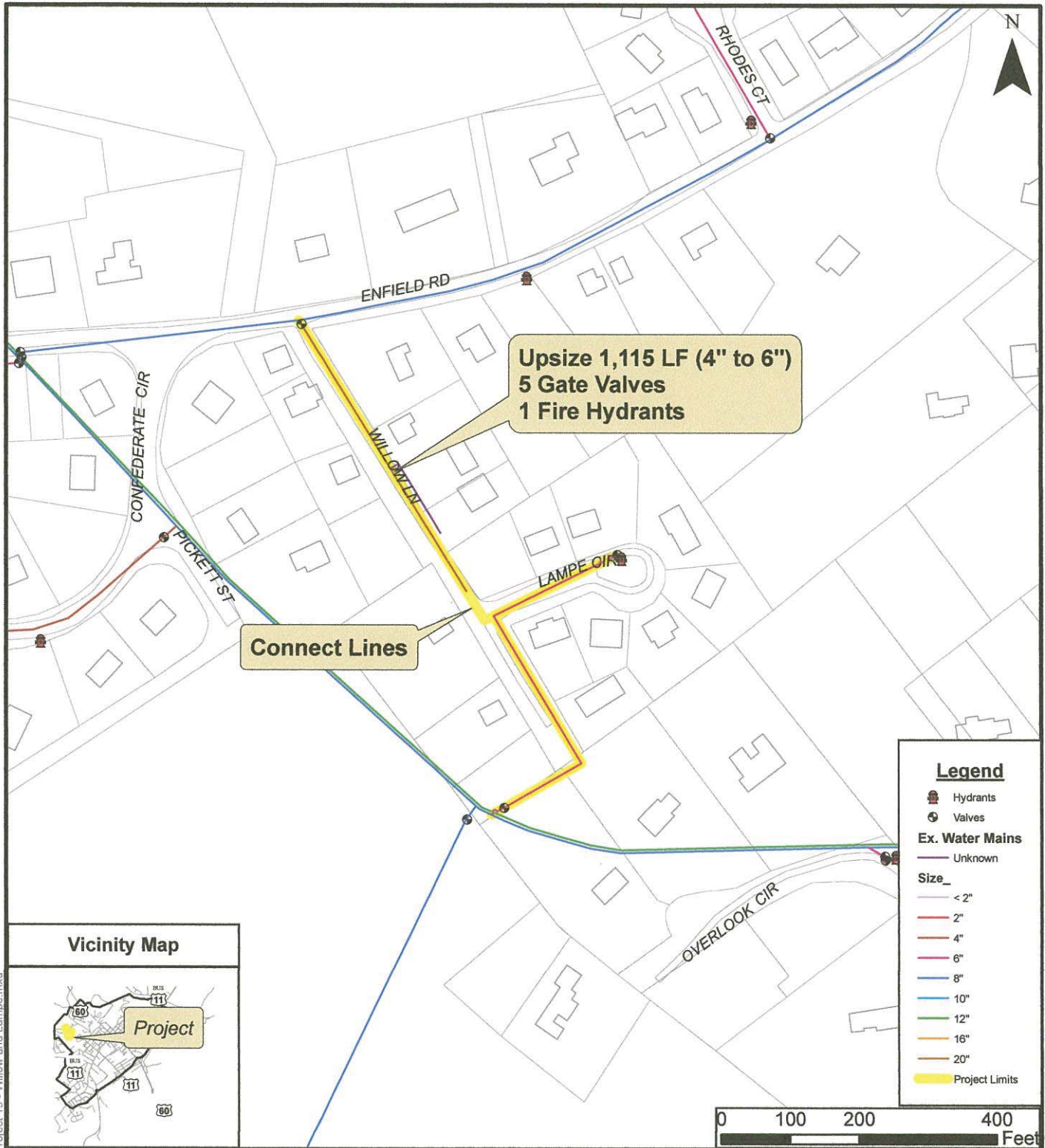
Requesting Department:	Public Works
Category:	Water
Title:	Willow Lane & Lampe Circle Water System Upgrades
Status:	No Change

Description:	Project includes upsizing 1,115 LF of 4-inch cast iron pipe to 6-inch ductile iron (DI) pipe. The entire length of Willow Ln. and Lampe Cir. will be upsized including a connection between branches, 1,115 LF of 6-inch DI pipe, 5 gate valves, 1 fire hydrant and approximately 17 service connections.
--------------	---

Justification:	This project will offer increased fire flow to the local residences. The pipes in this section are approximately 57 years old. This project has public safety implications as it provides protection during a fire event.
----------------	---


Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$265,649	\$265,649
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$265,649	\$265,649



**Project #19 - Willow Lane & Lampe Circle**  
**Upsize 4" to 6"**

SCALE: 1" = 200'  
 JOB #: B15164B-01



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**FIGURE**  
**19**

Path: P:\B15100B\15164B\B15164B-01\GIS\Project\_19 - Willow and Lampe.mxd



**CIP PROJECT REQUEST**

UF-41

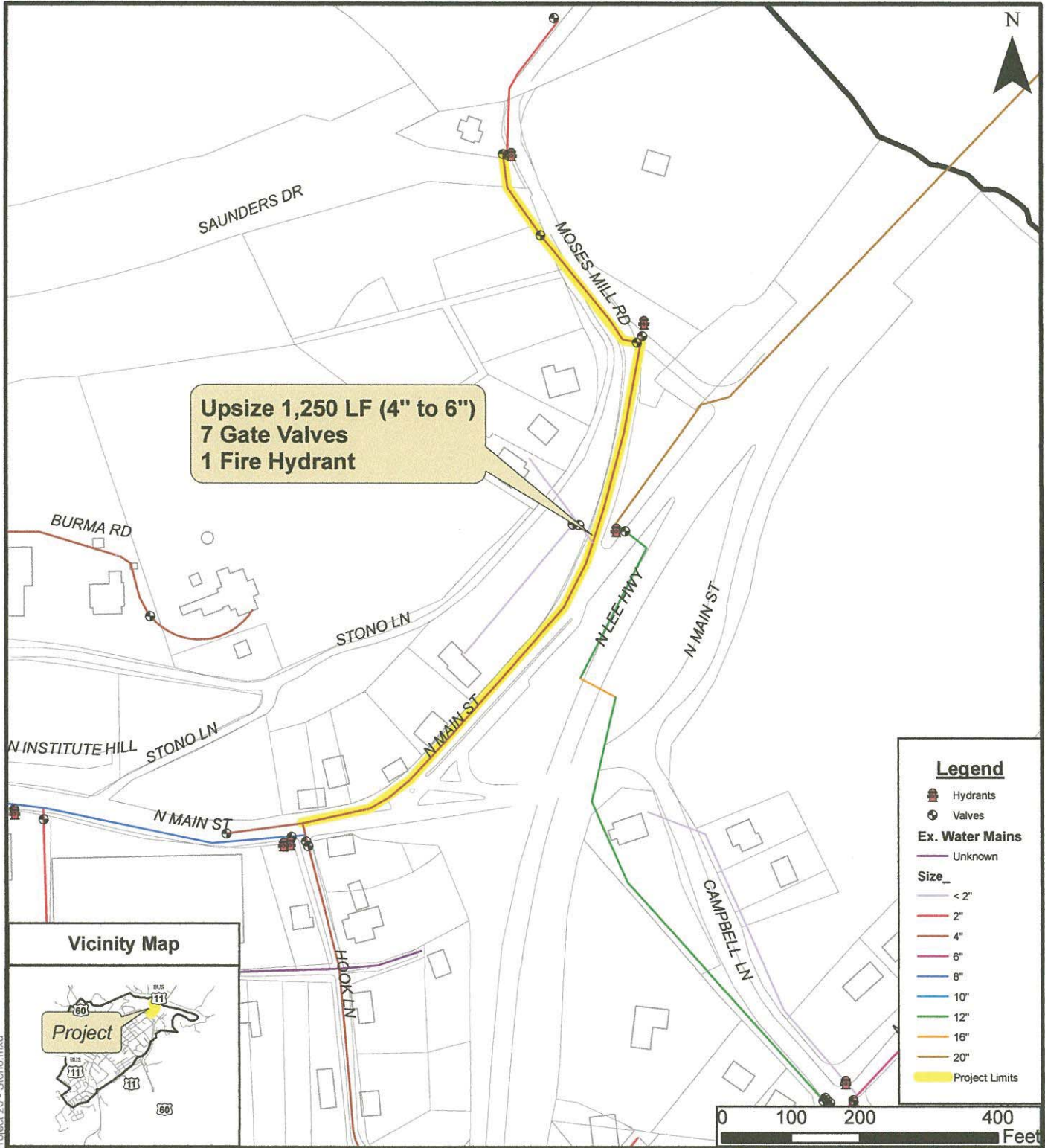
Requesting Department:	Public Works
Category:	Water
Title:	Stono Ln. & N. Main Street Water System Upgrades
Status:	No Change

Description:	Project includes upsizing 1,250 LF of 4-inch cast iron pipe to 6-inch ductile iron (DI) pipe. N. Main St. from Hook Ln. to Stono Ln. to Jordan's Point Park includes 1,250 LF of 6-inch DI pipe, 7 gate valves, 1 fire hydrant and approximately 6 service connections.
--------------	---

Justification:	This project will offer increased fire flow to the local residences. The pipes in this section are approximately 61 years old. The pipe is as deep as 12.5 feet in some areas making access and maintenance liability an issue. This project has public safety implications as it provides protection during a fire event.
----------------	--

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

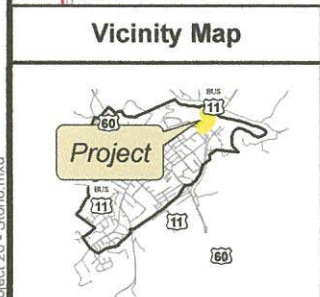
Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$301,296	\$301,296
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$301,296	\$301,296



**Upsize 1,250 LF (4" to 6")  
7 Gate Valves  
1 Fire Hydrant**


**Legend**

- Hydrants
- Valves
- Ex. Water Mains**
- Unknown
- Size\_**
- < 2"
- 2"
- 4"
- 6"
- 8"
- 10"
- 12"
- 16"
- 20"
- Project Limits



**Project #20 - Stono Ln. and N Main St.  
Upsize 4" to 6"**

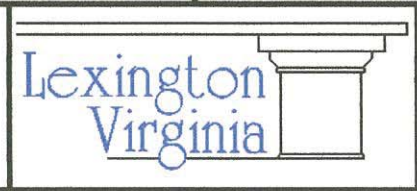
SCALE: 1" = 200'  
JOB #: B15164B-01



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**FIGURE  
20**



**CIP PROJECT REQUEST**

UF-43

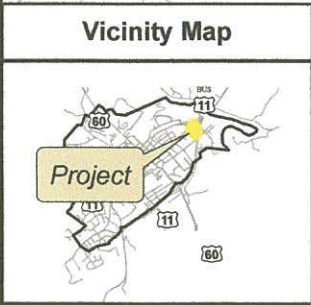
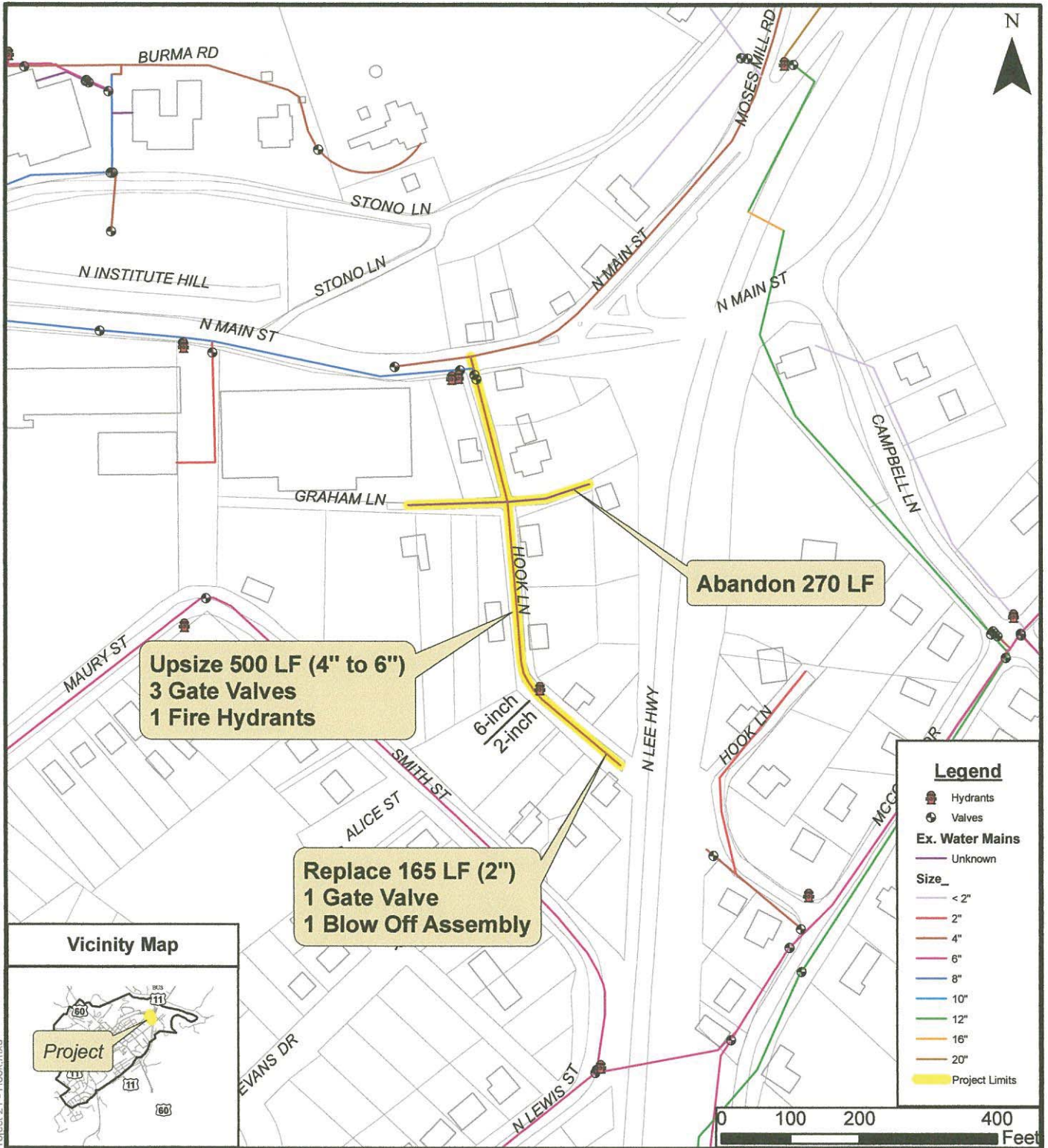
Requesting Department:	Public Works
Category:	Water
Title:	Hook Lane & Graham Lane Water System Upgrades
Status:	No Change

Description:	Project includes upsizing 500 LF of 4-inch cast iron pipe to 6-inch ductile iron (DI) pipe, replacing 165 LF of 2-inch pipe and abandoning 270 LF of 2-inch cast iron pipe. Hook Ln. from N. Main St. to the fire hydrant includes upsizing 500 LF of 4-inch to 6-inch DI pipe, 3 gate valves, 1 fire hydrants and approximately 7 service connections and replacing 165 LF of 2-inch DI pipe, 1 gate valve, 3 service connections and 1 blow off assembly. Graham Ln. includes abandoning 270 LF of 2-inch DI pipe, and replacing it with 2 long service connections.
--------------	--

Justification:	This project will offer increased fire flow to the local residences. This project has public safety implications as it provides protection during a fire event. The pipes in this section are beyond their designed life cycle use as they are approximately 76 and 61 years old potentially resulting in poor water quality and high exfiltration in joints. This project has a high impact of deferral based on the age of the pipe and the potential for failure resulting in increased risk to health and safety of the community.
----------------	--

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$180,141	\$180,141
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$180,141	\$180,141



**Project #21 - Hook Ln. & Graham Ln.**  
**Upsize 4" to 6" and Replace 2"**

SCALE: 1" = 200'  
 JOB #: B15164B-01



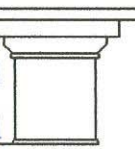
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 Blacksburg, VA 24060  
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 Virginia



**FIGURE**  
**21**

Path: P:\B15100\B15164B\B15164B-01\GIS\Project\_21 - Hook.mxd





**CIP PROJECT REQUEST**

UF-45

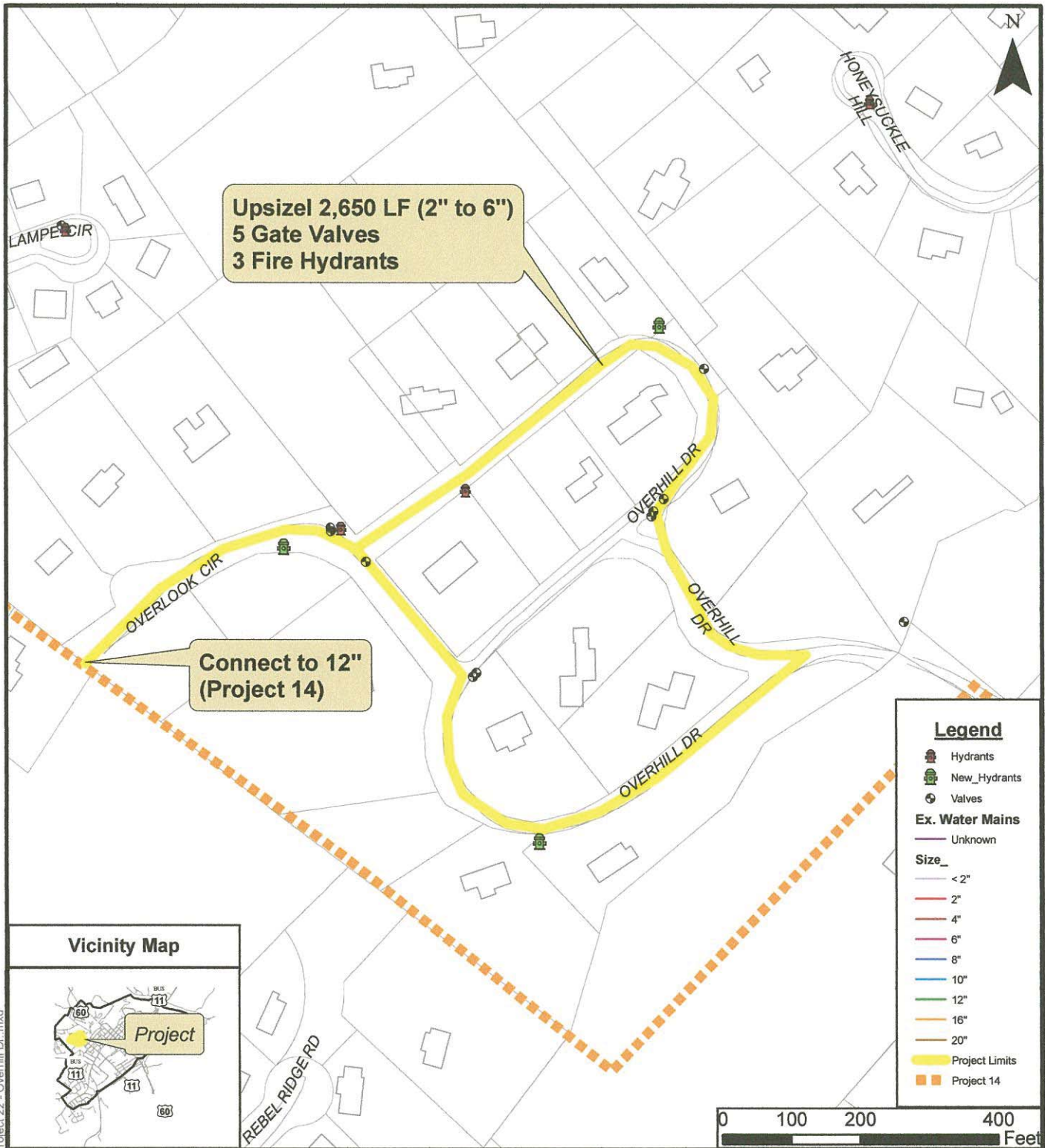
Requesting Department:	Public Works
Category:	Water
Title:	Overhill Drive Water System Upgrades
Status:	No Change

Description:	Project includes upsizing 2,650 LF of 2-inch cast iron pipe to 6-inch ductile iron (DI) pipe. The alignment would replace the pipes in the Overhill Dr. and Overlook Cir. neighborhood and would connect to the future 12” DI pipe alignment from the Enfield Tank to the downtown area. This project includes 2,650 LF of 6-inch DI pipe, 5 gate valves, 3 fire hydrants, and approximately 19 service connections. This project will also abandon the 12- and 8-inch pipes aligned in hard to access areas.
--------------	---

Justification:	Active pipes are more easily accessible in right-of-ways rather than backyards in case of emergency. This project will offer increased fire flow to the local residences. This project has public safety implications as it provides protection during a fire event.
----------------	--

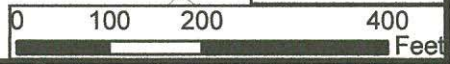
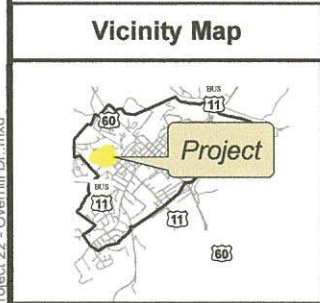
Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$518,886	\$518,886
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$518,886	\$518,886



**Legend**

- Hydrants
- New\_Hydrants
- Valves
- Ex. Water Mains**
- Unknown
- Size\_**
- <2"
- 2"
- 4"
- 6"
- 8"
- 10"
- 12"
- 16"
- 20"
- Project Limits
- Project 14



**Project #22 - Overhill Dr.**  
**Upsize 2" to 6"**

SCALE: 1" = 200'  
 JOB #: B15164B-01

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**FIGURE**  
**22**



**CIP PROJECT REQUEST**

UF-47

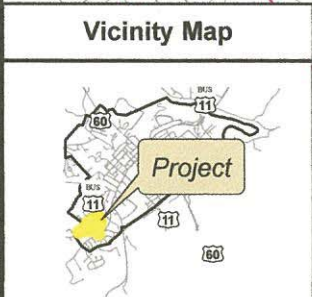
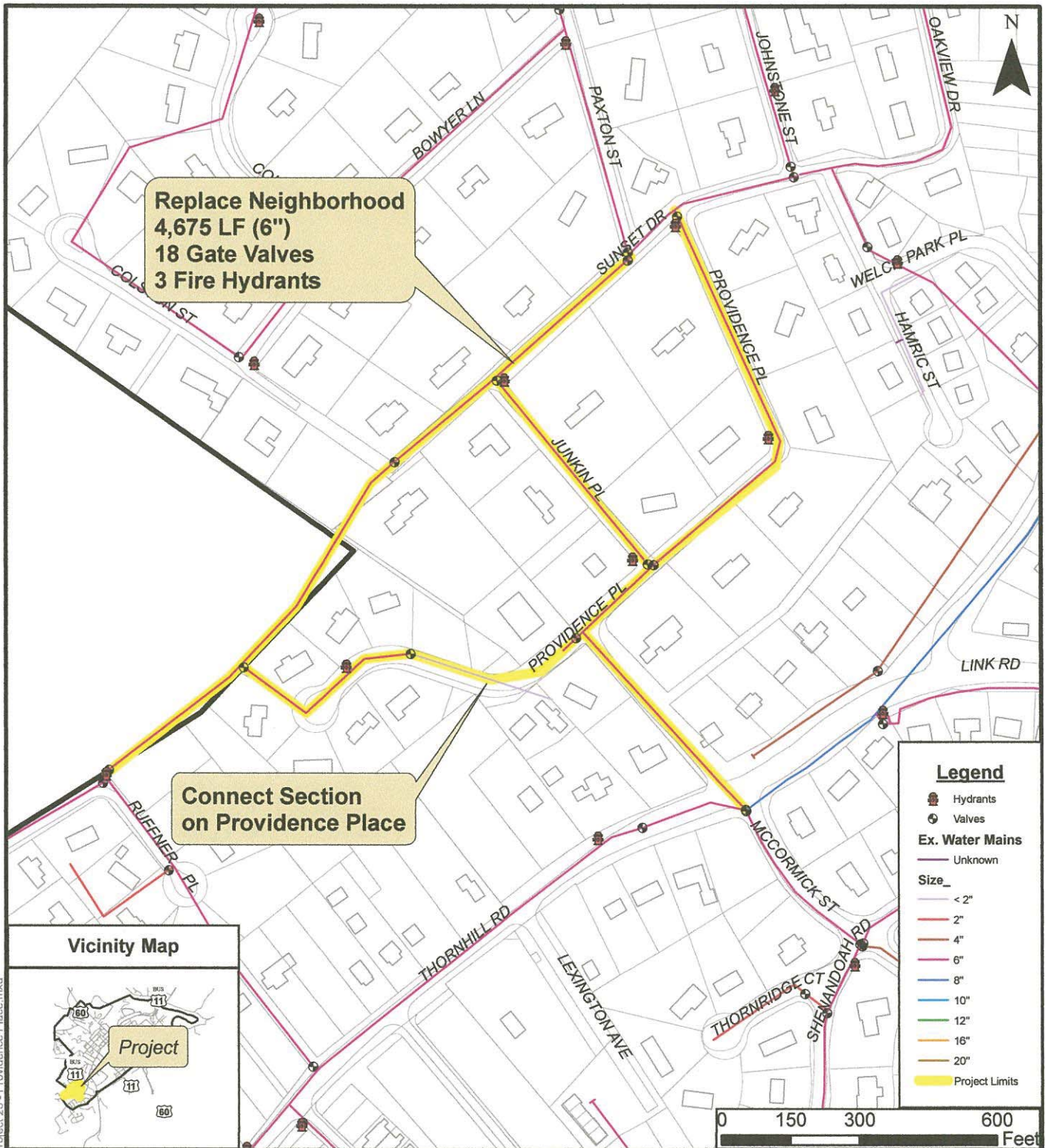
Requesting Department:	Public Works
Category:	Water
Title:	Providence Hill Neighborhood Water System Upgrades
Status:	No Change

Description:	Project includes replacing 4,675 LF of 6-inch cast iron pipe to 6-inch ductile iron (DI) pipe. This project includes all of Providence Pl. and Junkin Pl. as well as Sunset Dr. from Paxton St. to Ruffner St. and McCormick St. from Thornhill Rd. to Providence Pl. This replacement includes 18 gate valves and 3 fire hydrants.
--------------	---

Justification:	The pipes in this section are beyond their designed life cycle use as they are approximately 61 years old potentially resulting in poor water quality and high exfiltration in joints. This project has a high impact of deferral based on the age of the pipe and the potential for failure resulting in increased risk to health and safety of the community.
----------------	---

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$934,547	\$934,547
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$934,547	\$934,547



**Project #23 - Neighborhood Replacement  
 (Providence Hill Phase)  
 Replace All with 6"**

SCALE: 1" = 300'  
 JOB #: B15164B-01

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**FIGURE  
 23**



**CIP PROJECT REQUEST**

UF-49

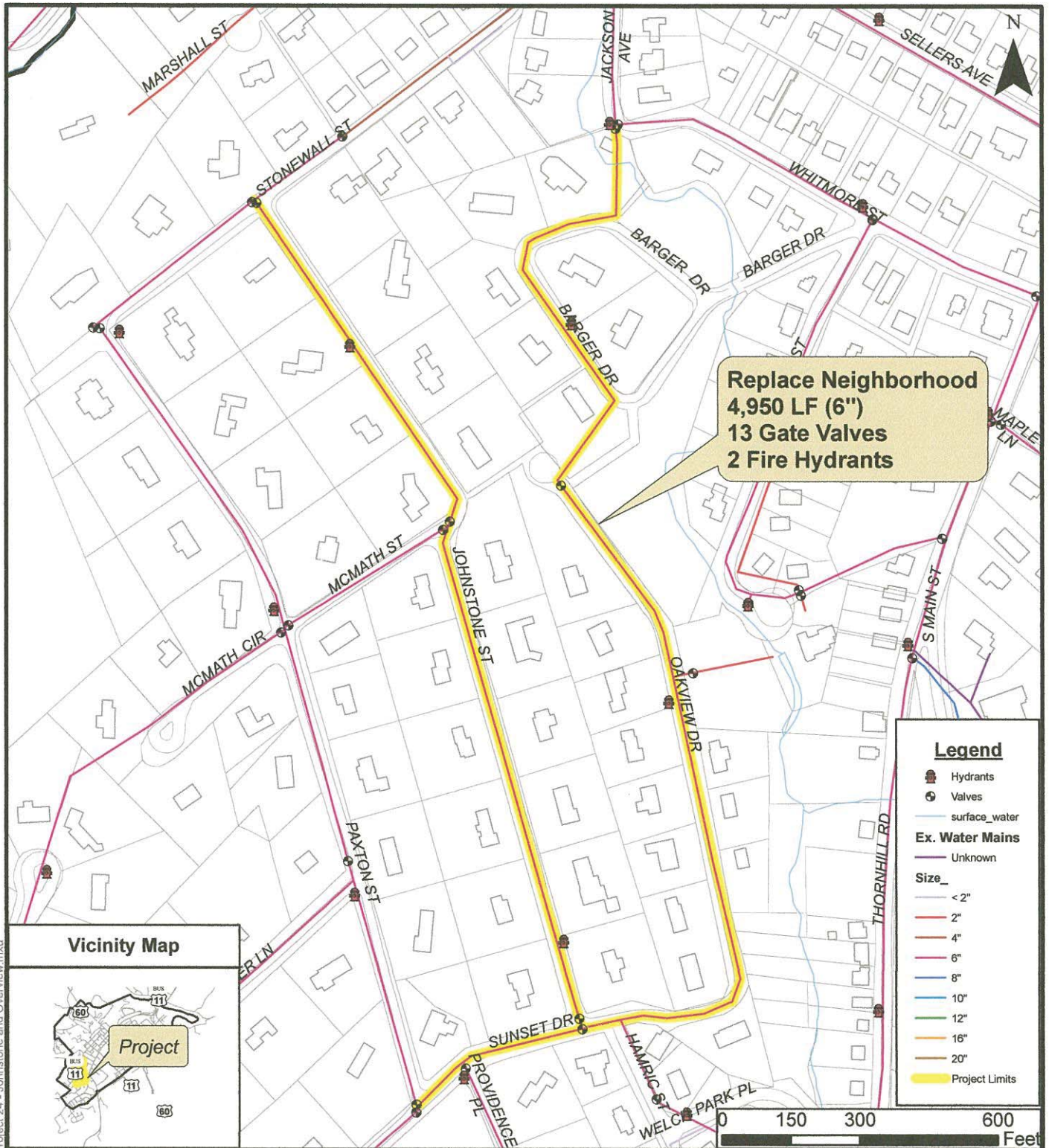
Requesting Department:	Public Works
Category:	Water
Title:	Johnston & Oakview Neighborhood Water System Upgrades
Status:	No Change

Description:	Project includes replacing 4,950 LF of 6-inch cast iron pipe to 6-inch ductile iron (DI) pipe. This project includes all of Oakview Dr., Barger Dr., Johnstone St. and Sunset Dr. from Paxton St. to Oakview Dr. This replacement includes 13 gate valves and 2 fire hydrants.
--------------	--

Justification:	The pipes in this section are beyond their designed life cycle use as they are approximately 60 years old potentially resulting in poor water quality and high exfiltration in joints. This project has a high impact of deferral based on the age of the pipe and the potential for failure resulting in increased risk to health and safety of the community.
----------------	---

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$971,890	\$971,890
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$971,890	\$971,890



Replace Neighborhood  
 4,950 LF (6")  
 13 Gate Valves  
 2 Fire Hydrants

**Legend**

- Hydrants
- Valves
- surface\_water
- Ex. Water Mains**
- Unknown
- Size\_**
- < 2"
- 2"
- 4"
- 6"
- 8"
- 10"
- 12"
- 16"
- 20"
- Project Limits



**Project #24 - Neighborhood Replacement  
 (Johnstone & Oakview Phase)  
 Replace All with 6"**

SCALE: 1" = 300'

JOB #: B15164B-01

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**FIGURE  
 24**



**CIP PROJECT REQUEST**

UF-51

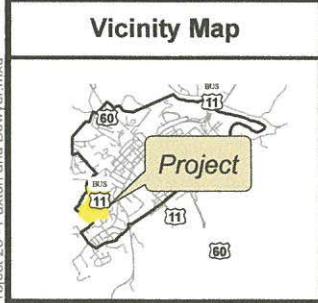
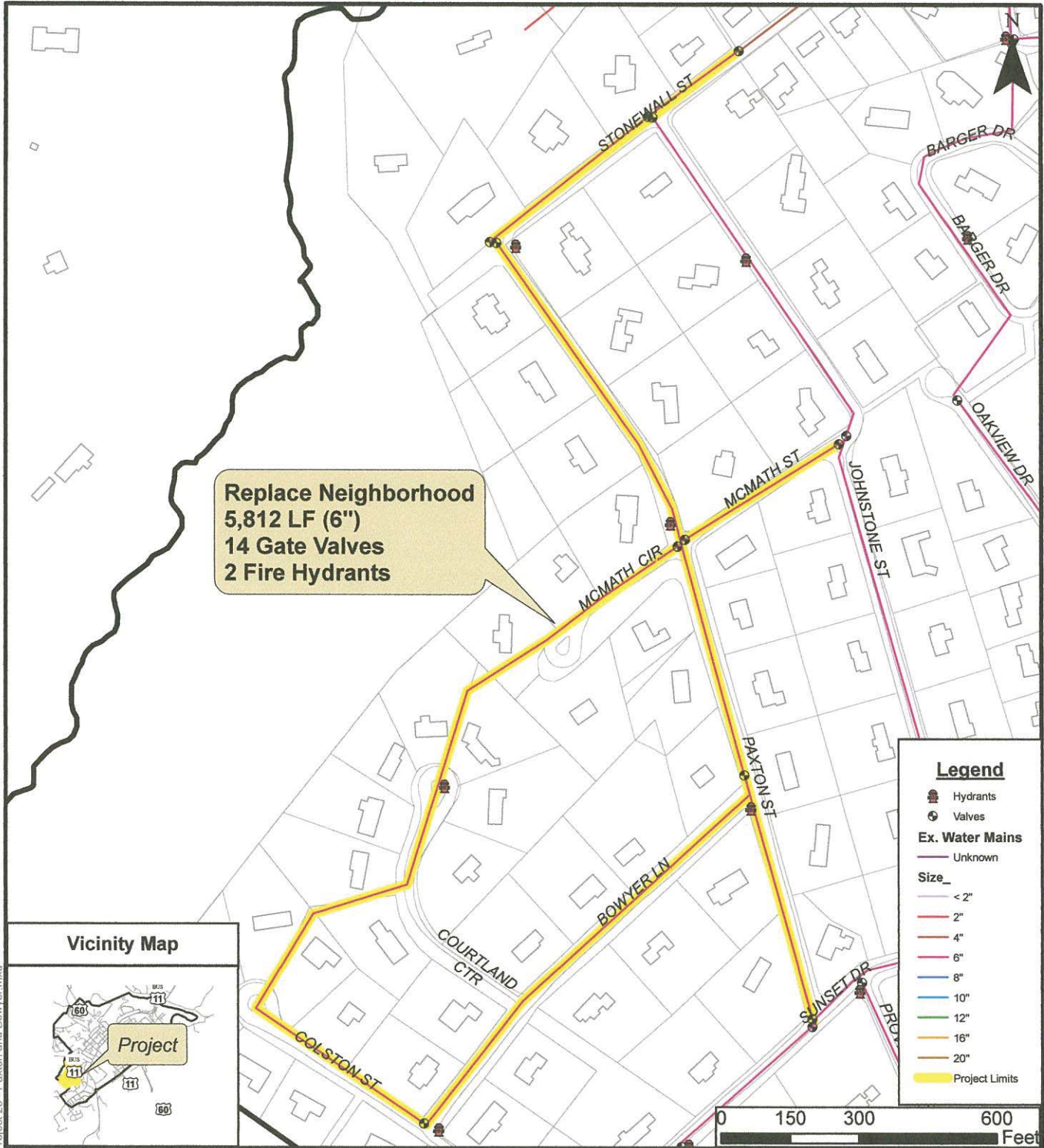
Requesting Department:	Public Works
Category:	Water
Title:	Paxton & Boyer Neighborhood Water System Upgrades
Status:	No Change

Description:	Project includes replacing 5,812 LF of 6-inch cast iron pipe to 6-inch ductile iron (DI) pipe. This project includes all of McMath St., McMath Cir., Bowyer Ln. and Colston St. from Bowyer Ln. to the cul-de-sac, Stonewall St. from Johnstone St. to Paxton St., and Paxton St. from Stonewall St. to Sunset Dr. This replacement includes 14 gate valves and 2 fire hydrants.
--------------	--

Justification:	The pipes in this section are beyond their designed life cycle use as they are approximately 61 years old potentially resulting in poor water quality and high exfiltration in joints. This project has a high impact of deferral based on the age of the pipe potentially failing and causing health and safety impacts
----------------	--

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$1,123,811	\$1,123,811
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$1,123,811	\$1,123,811



**Project #25 - Neighborhood Replacement  
 (Paxton & Bowyer Phase)  
 Replace All with 6"**

SCALE: 1" = 300'  
 JOB #: B15164B-01

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**FIGURE  
 25**





**CIP PROJECT REQUEST**

UF-55

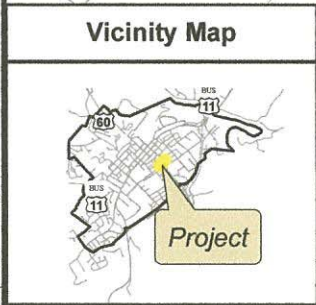
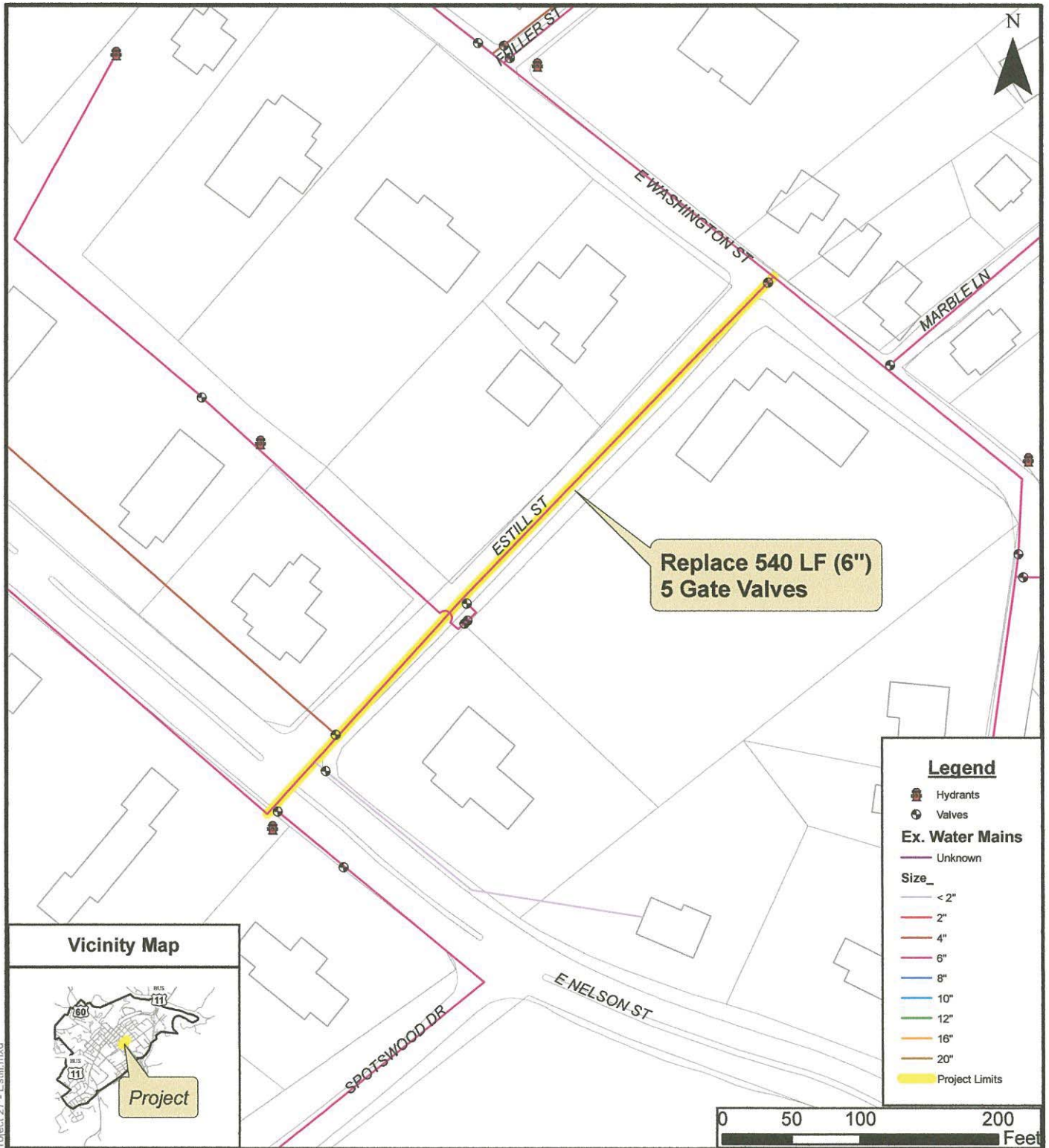
Requesting Department:	Public Works
Category:	Water
Title:	Estill Street Water System Upgrades
Status:	No Change

Description:	Project includes replacing 540 LF of 6-inch cast iron pipe with 6-inch ductile iron (DI) pipe. The entire length of Estill Rd. will be replaced including 5 gate valves.
--------------	--

Justification:	The pipes in this section are beyond their designed life cycle use as they are approximately 76 years old potentially resulting in poor water quality and high exfiltration in joints. This project has a high impact of deferral based on the age of the pipe and the potential for failure resulting in increased risk to health and safety of the community.
----------------	---

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$183,111	\$183,111
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$183,111	\$183,111



**Project #27 - Estill St.**  
**Replace 6"**

SCALE: 1" = 100'

JOB #: B15164B-01



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**FIGURE**  
**27**

Path: P:\B15100\B15164B\B15164B-01\GIS\Project 27 - Estill.mxd



**CIP PROJECT REQUEST**

UF-57

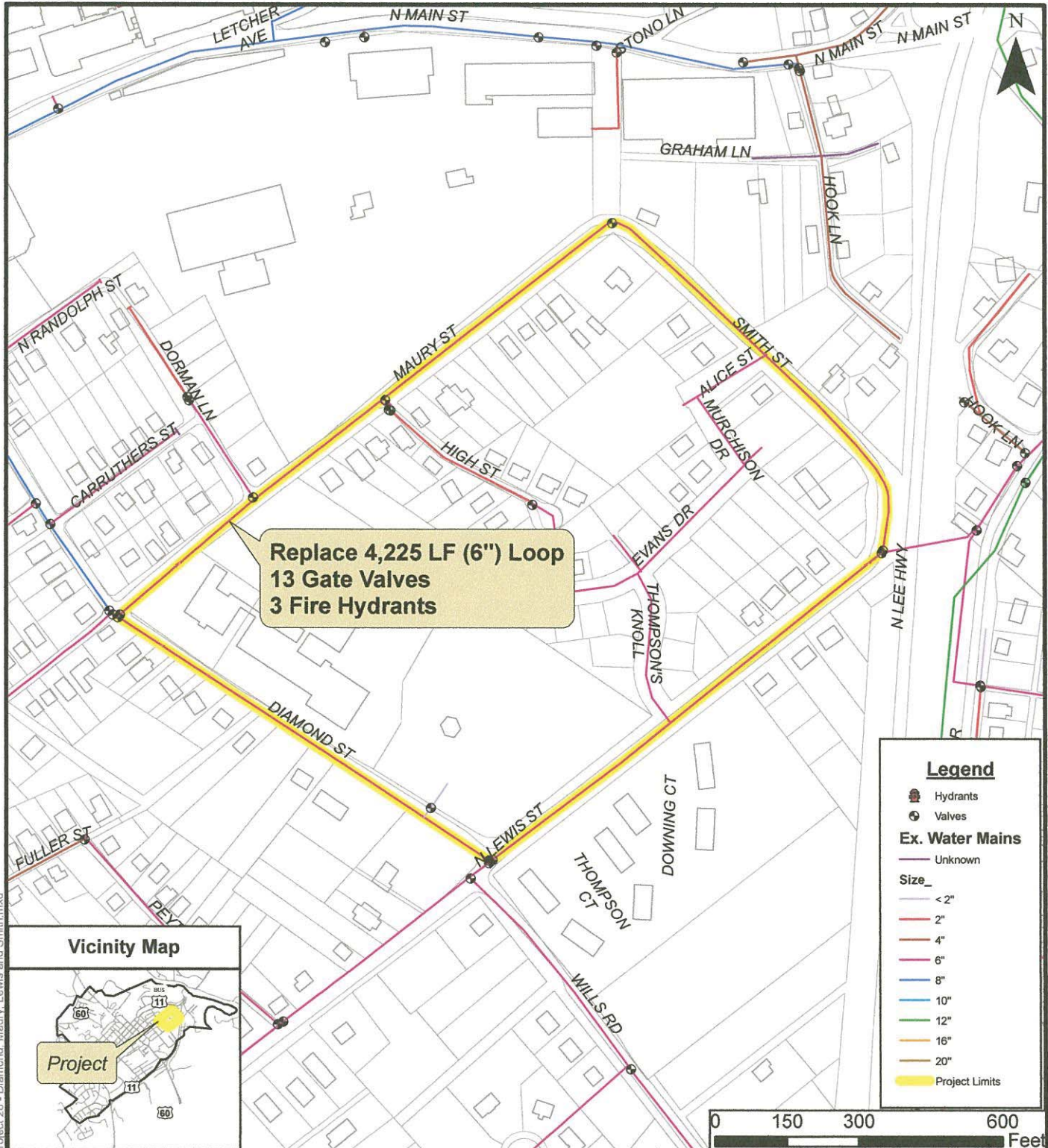
Requesting Department:	Public Works
Category:	Water
Title:	Diamond, Maury, Smith, and Lewis Streets Water System Upgrades
Status:	No Change

Description:	Project includes replacing 4,225 LF of 6-inch cast iron pipe with 6-inch ductile iron (DI) pipe. The limits of replacement include Diamond St. from Lewis St. to Maury St., Maury St. from Diamond St. to the end, N. Lewis St. from Diamond St. to the end, and all of Smith St. including 13 gate valves, 3 fire hydrants and 46 service connections.
--------------	---

Justification:	The pipes in this section are beyond their designed life cycle use as they are approximately 61 years old potentially resulting in poor water quality and high exfiltration in joints. The piping in this area is approximately 6.5-feet deep. This project has a high impact of deferral based on the age of the pipe and the potential for failure resulting in increased risk to health and safety of the community.
----------------	---

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

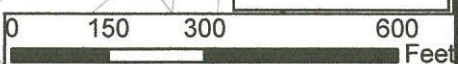
Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$866,649	\$866,649
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$866,649	\$866,649



Replace 4,225 LF (6") Loop  
 13 Gate Valves  
 3 Fire Hydrants

**Legend**

- Hydrants
- Valves
- Ex. Water Mains**
- Unknown
- Size**
- < 2"
- 2"
- 4"
- 6"
- 8"
- 10"
- 12"
- 16"
- 20"
- Project Limits



**Project #28 - Diamond, Maury, Smith & Lewis St. Loop**  
**Replace 6"**

SCALE: 1" = 300'  
 JOB #: B15164B-01

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 2206 South Main Street  
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**FIGURE**  
**28**



**CIP PROJECT REQUEST**

UF-59

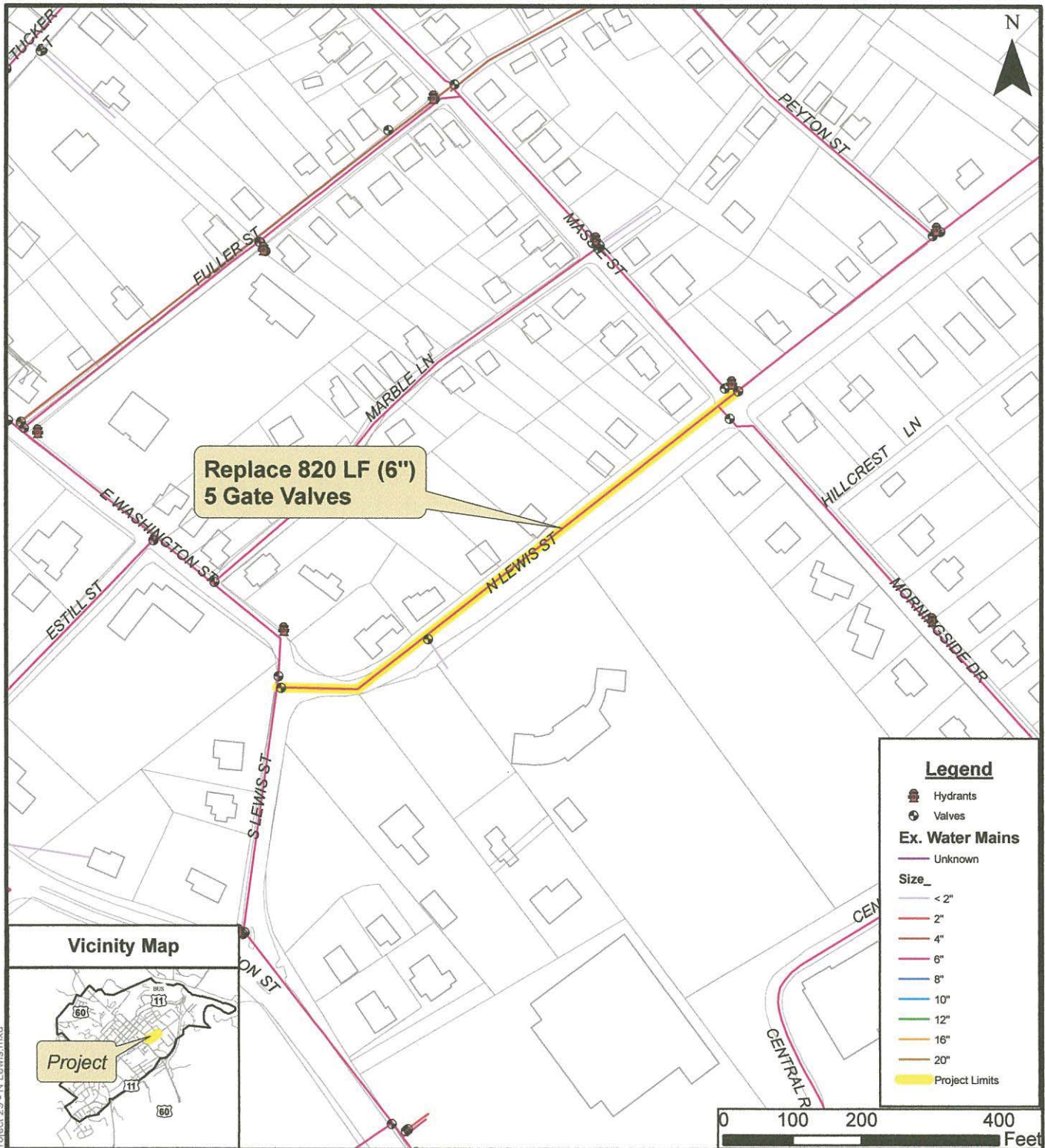
Requesting Department:	Public Works
Category:	Water
Title:	N. Lewis Street Water System Upgrades
Status:	No Change

Description:	Project includes replacing 820 LF of 6-inch cast iron pipe with 6-inch ductile iron (DI) pipe. The limits of replacement are on N. Lewis St. from S. Lewis St. to Morningside Dr. and include 5 gate valves and approximately 9 service connections.
--------------	--

Justification:	The pipes in this section are beyond their designed life cycle use as they are approximately 60 years old potentially resulting in poor water quality and high exfiltration in joints. This project has a high impact of deferral based on the age of the pipe and the potential for failure resulting in increased risk to health and safety of the community.
----------------	---

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

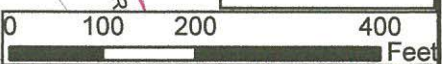
Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$236,899	\$236,899
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$236,899	\$236,899



Replace 820 LF (6")  
5 Gate Valves

**Legend**

- Hydrants
- Valves
- Ex. Water Mains**
- Unknown
- Size\_**
- < 2"
- 2"
- 4"
- 6"
- 8"
- 10"
- 12"
- 16"
- 20"
- Project Limits



**Project #29 - N. Lewis St.**  
**Replace 6"**

SCALE: 1" = 200'  
JOB #: B15164B-01

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**FIGURE**  
**29**

Path: P:\B15164B\B15164B-01\GIS\Project 29 - N. Lewis.mxd



**CIP PROJECT REQUEST**

UF-61

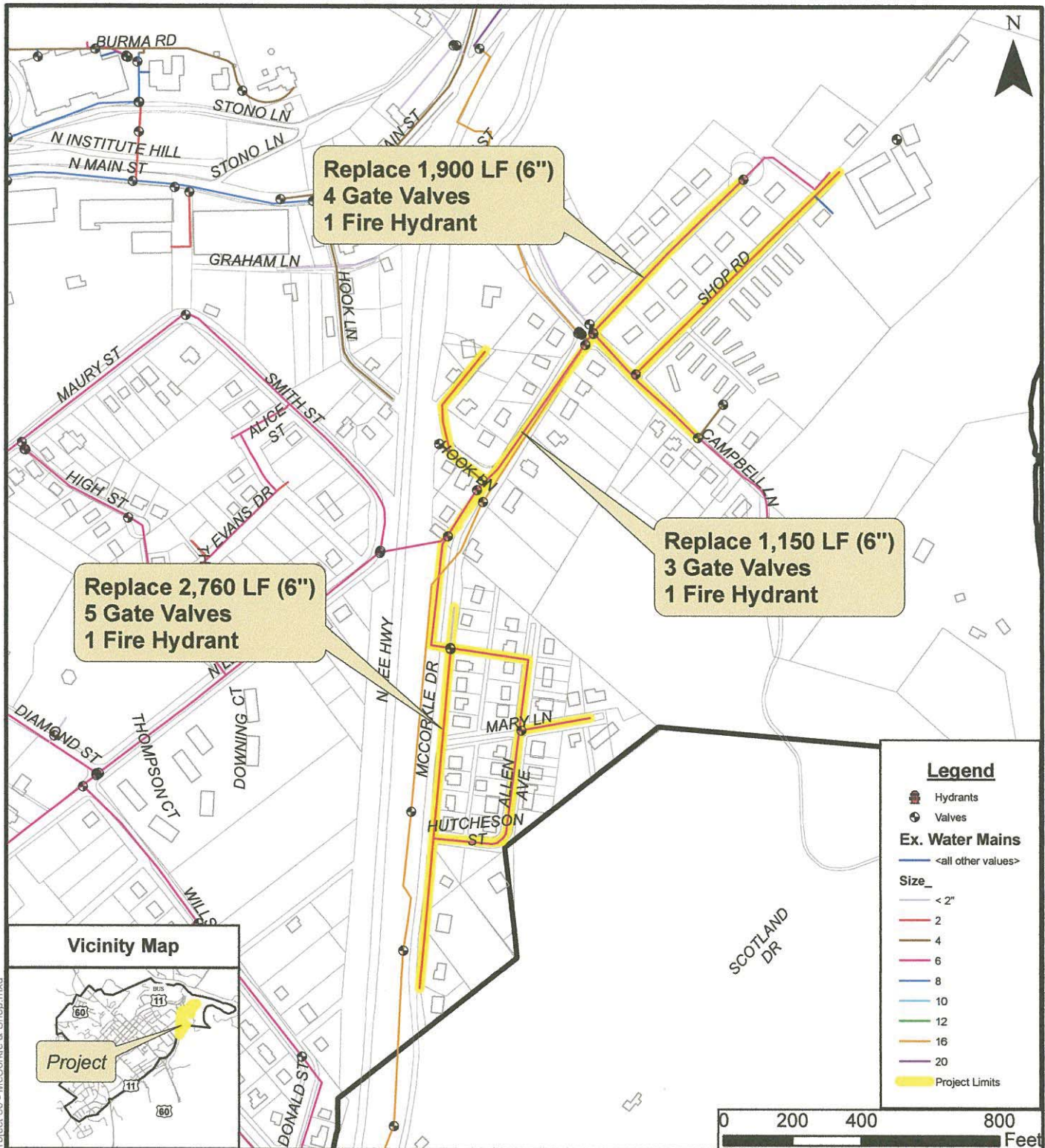
Requesting Department:	Public Works
Category:	Water
Title:	McCorkle Drive & Shop Road Water System Upgrades
Status:	No Change

Description:	<p>Project includes replacing 5,810 LF of 6-inch cast iron pipe with 6-inch ductile iron (DI) pipe. The limits of replacement are split into three sections. The southern section includes McCorkle Dr. from Hook Ln. south, Hutcheson St., Allen Ave. and Mary Ln. consisting of 2,760 LF, 5 gate valves, 1 fire hydrant and approximately 38 service connections. The middle section includes 1,150 LF of 6" DI pipe on McCorkle Dr. from Hook Ln. north and all of Hook Ln. including 3 gate valves, 1 fire hydrant and approximately 18 service connections. The northern section includes McCorkle Dr. from Campbell Ln. north, Shop Rd., and Campbell Ln. from McCorkle Dr. east, and consists of 1,900 LF, 4 gate valves, 1 fire hydrant and approximately 24 service connections.</p>
--------------	---

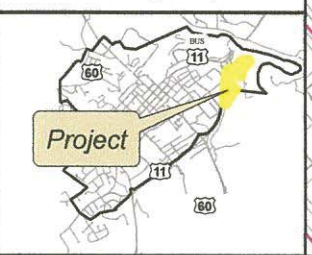
Justification:	<p>The pipes in this section are beyond their designed life cycle use as they are approximately 61 years old potentially resulting in poor water quality and high exfiltration in joints. This project has a high impact of deferral based on the age of the pipe and the potential for failure resulting in increased risk to health and safety of the community.</p>
----------------	--

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$1,112,990	\$1,112,990
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$1,112,990	\$1,112,990



**Vicinity Map**



**Project #30 - McCorkle Dr. & Shop Rd.  
Replace 6"**

SCALE: 1" = 400'

JOB #: B15164B-01



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**FIGURE**

**30**





**CIP PROJECT REQUEST**

UF-63

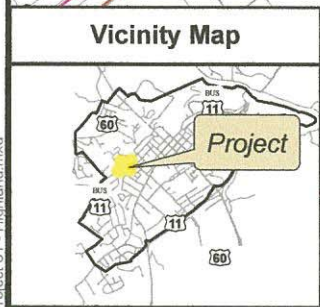
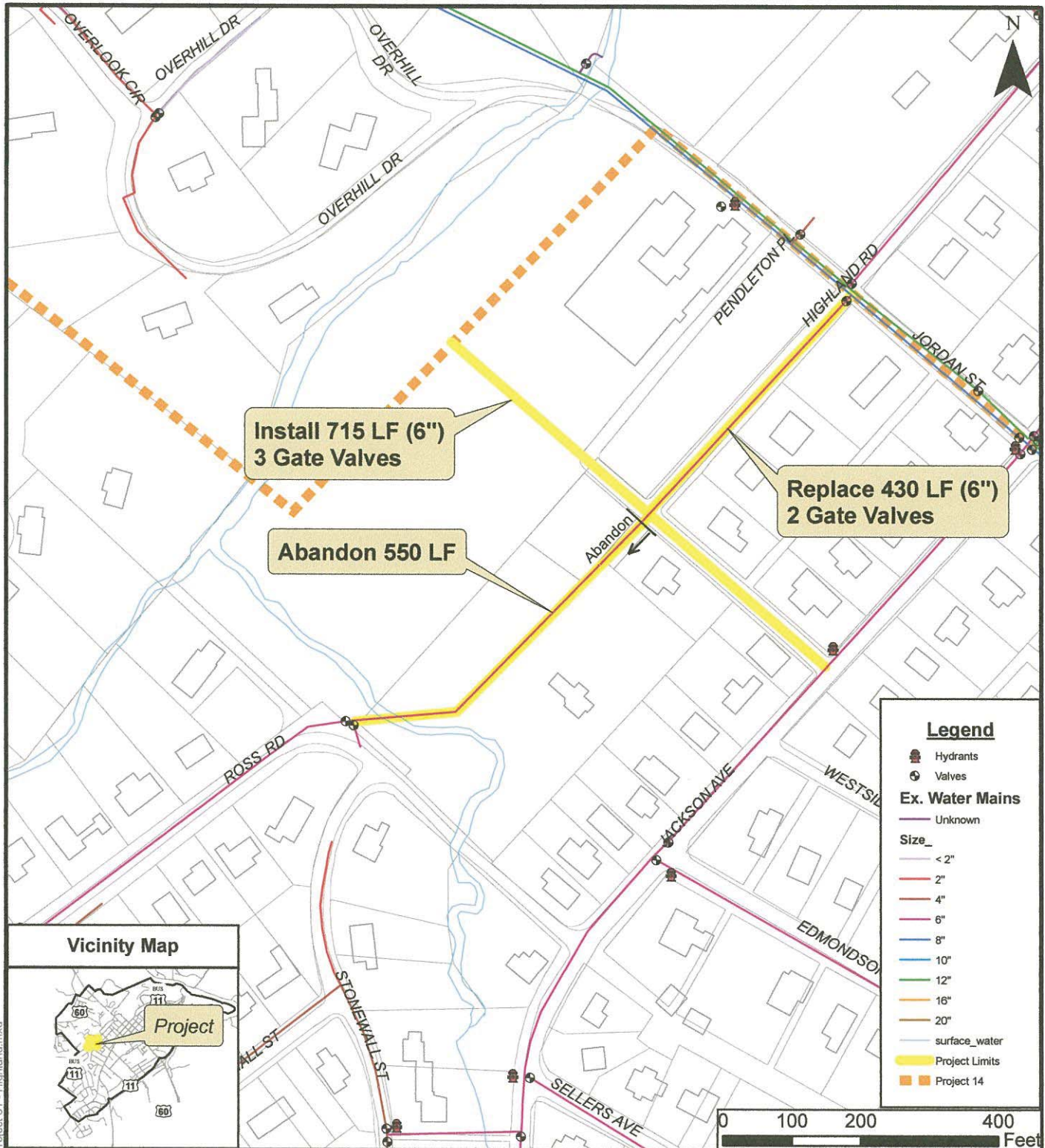
Requesting Department:	Public Works
Category:	Water
Title:	Highland Drive Water System Upgrades
Status:	No Change

Description:	Project includes replacing 430 LF of 6-inch cast iron pipe with 6-inch ductile iron (DI) pipe, installing a new 715 LF of 6" DI pipe alignment and abandonment of 550 LF of cast iron pipe. Highland Rd. from Jordan St. to Pendleton Pl. includes 430 LF of DI pipe, 2 gate valves, and 4 service connections. A new 715 LF alignment will connect the 12-inch pipe (Project 14) north of Harrington Waddell Elementary School behind the school to Pendleton Pl. and Jackson Ave. including 3 gate valve and 2 service connections. The existing pipe that traverses from Highland Rd. to Ross Rd. will be abandoned in place requiring a new long service connection.
--------------	--

Justification:	The pipes in this section are beyond their designed life cycle use as they are approximately 63 years old potentially resulting in poor water quality and high exfiltration in joints. This project has a high impact of deferral based on the age of the pipe and the potential for failure resulting in increased risk to health and safety of the community. This project will reduce maintenance liability for pipes outside of the right of way.
----------------	---

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$266,710	\$266,710
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$266,710	\$266,710



**Project #31 - Highland Rd.  
New 6" & Replace 6"**

SCALE: 1" = 200'  
JOB #: B15164B-01



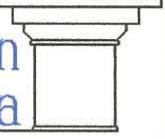
**Draper Aden Associates**

Engineering • Surveying • Environmental Services

2206 South Main Street  
Blacksburg, VA 24060  
540-552-0444 Fax: 540-552-0291

Richmond, VA  
Charlottesville, VA  
Hampton Roads, VA

Lexington  
Virginia



**FIGURE  
31**



**CIP PROJECT REQUEST**

UF-65

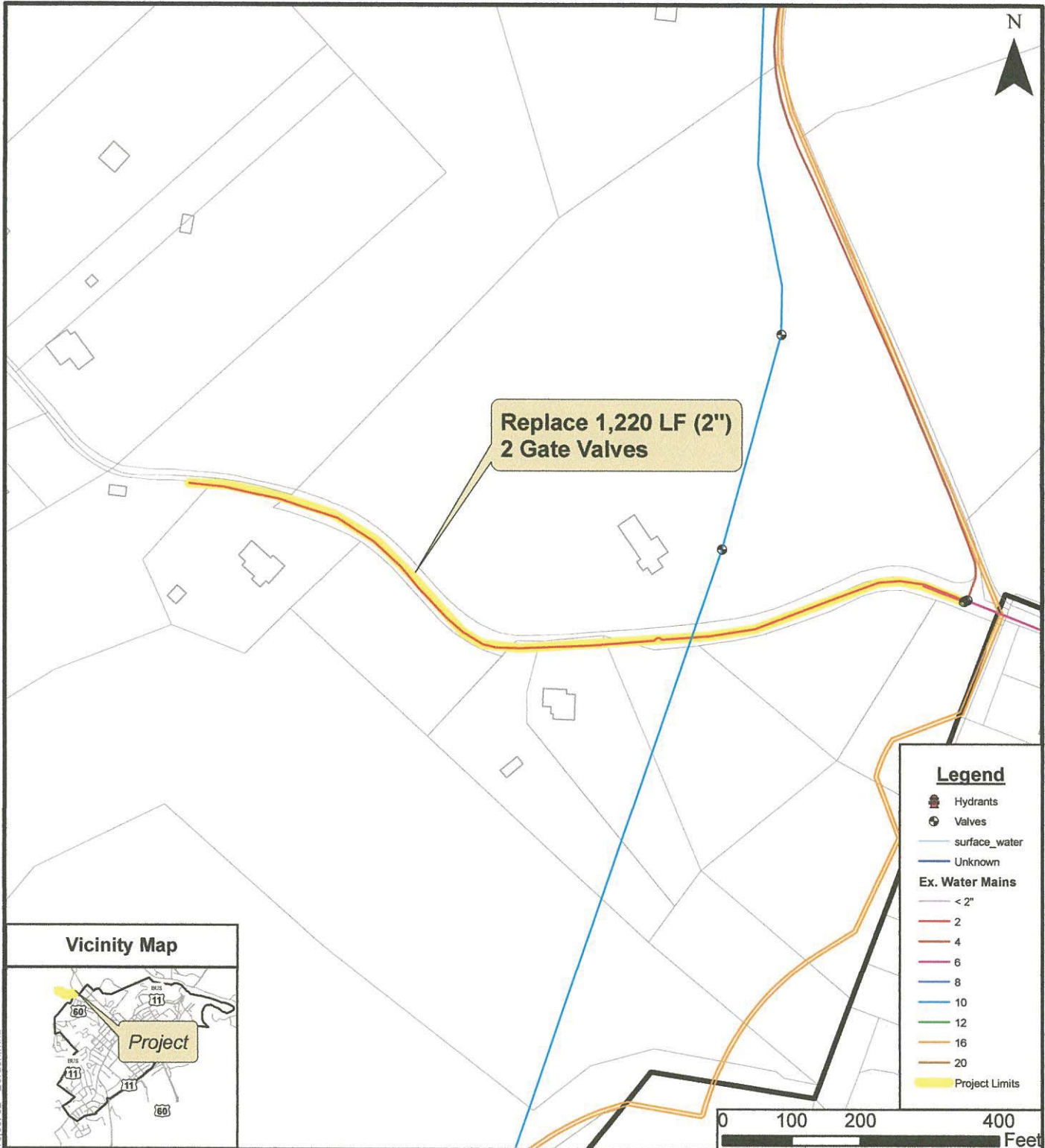
Requesting Department:	Public Works
Category:	Water
Title:	Borden Road Water System Upgrades
Status:	No Change

Description:	Project includes replacing 1,220 LF of 2-inch cast iron pipe with 2-inch ductile iron (DI) pipe. Project includes 1,220 LF of DI pipe, 2 gate valves, and 5 service connections.
--------------	--

Justification:	The pipe is beyond its designed life cycle use potentially resulting in poor water quality and high exfiltration in joints. This project has a high impact of deferral based on the age of the pipe and the potential for failure resulting in increased risk to health and safety of the community.
----------------	--

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

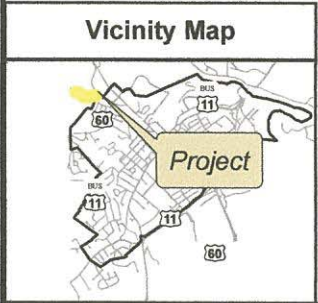
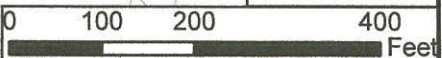
Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$219,712	\$219,712
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$219,712	\$219,712



Replace 1,220 LF (2")  
2 Gate Valves

**Legend**

- Hydrants
- Valves
- surface\_water
- Unknown
- Ex. Water Mains**
- < 2"
- 2
- 4
- 6
- 8
- 10
- 12
- 16
- 20
- Project Limits



**Project #32 - Borden Rd.  
Replace 2"**

SCALE: 1" = 200'  
JOB #: B15164B-01



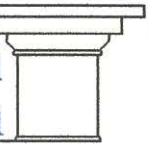
**Draper Aden Associates**

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Blacksburg, VA 24060  
540-552-0444 Fax: 540-552-0291

Richmond, VA  
Charlottesville, VA  
Hampton Roads, VA

Lexington  
Virginia



**FIGURE  
32**

Path: P:\B15100\B15164B\B15164B-01\GIS\Project 32 - Borden.mxd



**CIP PROJECT REQUEST**

UF-67

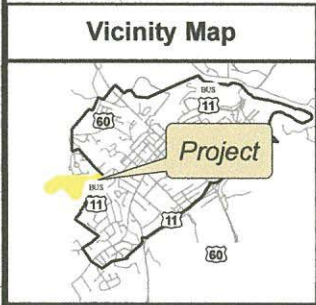
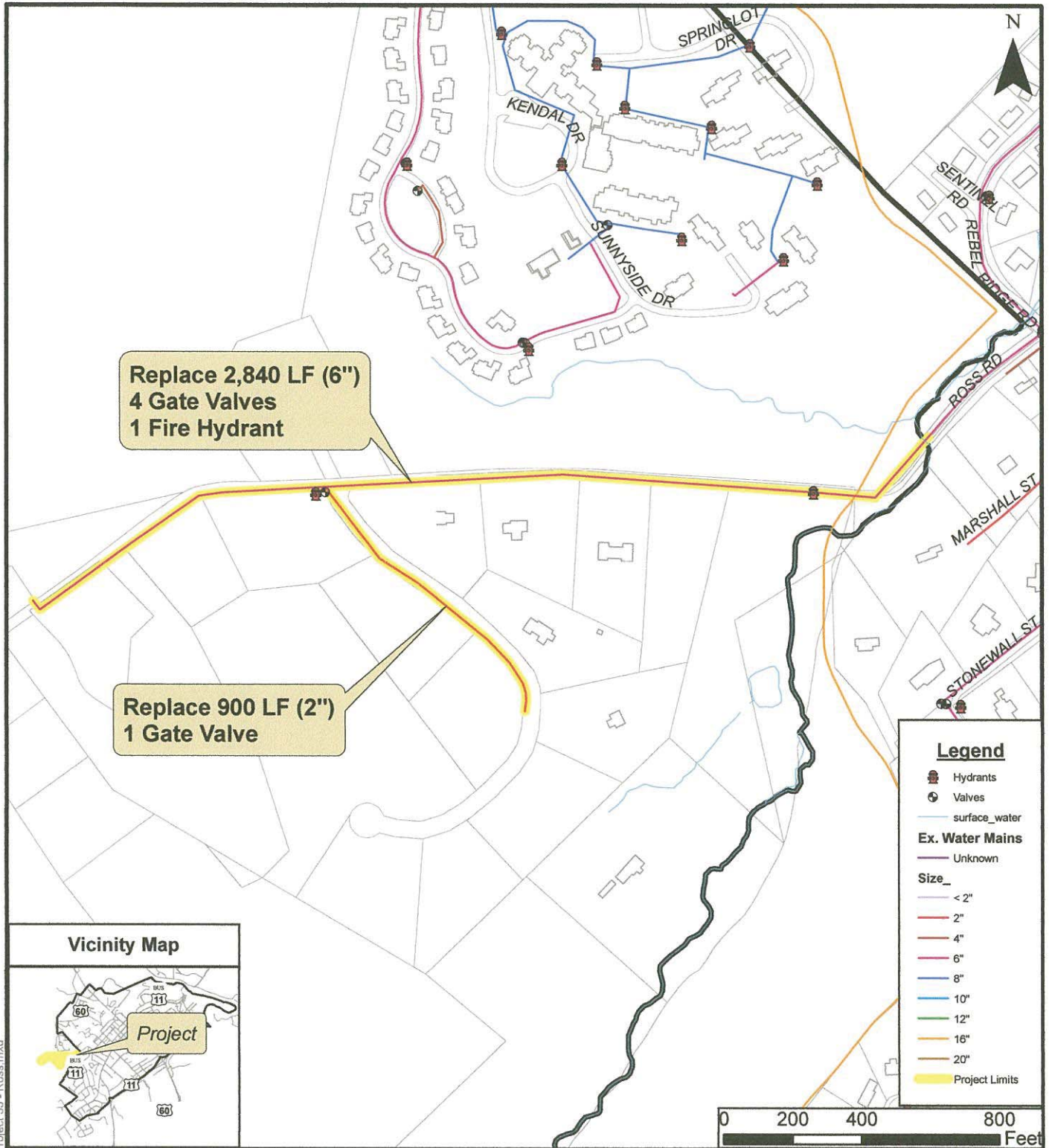
Requesting Department:	Public Works
Category:	Water
Title:	Ross Rpad Water System Upgrades
Status:	No Change

Description:	Project includes replacing 3,740 LF of 2- and 6-inch cast iron pipe with 2- and 6-inch ductile iron (DI) pipe. Ross Rd. includes 2,840 LF of 6-inch DI pipe, 4 gate valves, 1 fire hydrant and approximately 5 service connections. Route 687 includes 900 LF of 2-inch DI pipe, 1 gate valve and approximately 2 service connections.
--------------	--

Justification:	The pipe is beyond its designed life cycle use potentially resulting in poor water quality and high exfiltration in joints. This project has a high impact of deferral based on the age of the pipe and the potential for failure resulting in increased risk to health and safety of the community.
----------------	--

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

<b>Funding Summary</b>							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$651,605	\$651,605
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$651,605	\$651,605



**Project #33 - Ross Rd.**  
**Replace 2" & 6"**

SCALE: 1" = 400'

JOB #: B15164B-01



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 Hampton Roads, VA

Lexington  
 Virginia



FIGURE

33

Path: P:\B15100\B15164B\01\GIS\Project 33 - Ross.mxd



**CIP PROJECT REQUEST**

UF-69

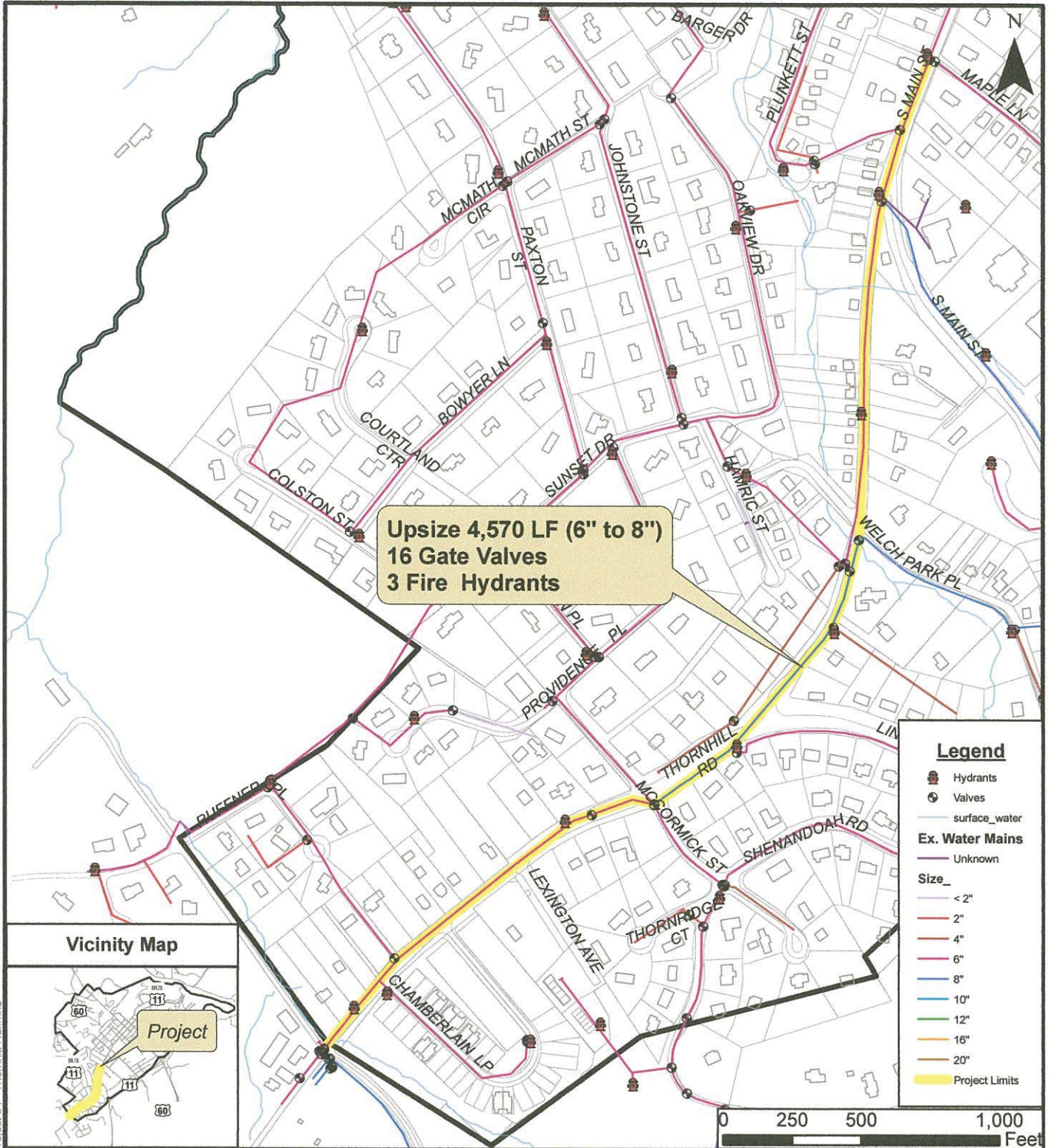
Requesting Department:	Public Works
Category:	Water
Title:	Thornhill Road Water System Upgrades
Status:	No Change

Description:	Project includes upsizing 4,570 LF of 6-inch cast iron pipe with 8-inch ductile iron (DI) pipe. The alignment is on Thornhill Rd. from Birdfield Rd. to Maple Ln. and includes 4,570 LF of 8-inch DI pipe, 16 gate valves, 3 fire hydrants and approximately 50 service connections.
--------------	--

Justification:	The pipe is beyond its designed life cycle use potentially resulting in poor water quality and high exfiltration in joints. This project has a high impact of deferral based on the age of the pipe and the potential for failure resulting in increased risk to health and safety of the community. This project will eliminate a 13' deep water line what is difficult to access and maintain.
----------------	--

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$1,008,279	\$1,008,279
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$1,008,279</b>	<b>\$1,008,279</b>



**Upsize 4,570 LF (6" to 8")  
16 Gate Valves  
3 Fire Hydrants**

- Legend**
- Hydrants
  - Valves
  - surface\_water
  - Ex. Water Mains**
  - Unknown
  - Size\_**
  - < 2"
  - 2"
  - 4"
  - 6"
  - 8"
  - 10"
  - 12"
  - 16"
  - 20"
  - Project Limits

**Vicinity Map**



**Project #34 - Thornhill Rd.  
Upsize 6" to 8"**

SCALE: 1" = 500'

JOB #: B15164B-01



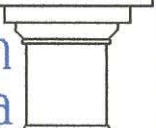
**Draper Aden Associates**

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Blacksburg, VA 24060  
540-552-0444 Fax: 540-552-0291

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Virginia



**FIGURE**

**34**

Path: P:\B15164B\B15164B-01\GIS\Protect\_34 - Thornhill Rd.mxd





**CIP PROJECT REQUEST**

UF-79

Requesting Department:	Public Works
Category:	Wastewater
Title:	Highland Road Area Wastewater Collection Line
Status:	No Change

Description:	This project replaces approximately 2230 linear feet of existing gravity sewer pipe and associated laterals along Highland Road from Jordan Street to Ross Road. Existing service line connections to residences will be replaced to the property line and will include cleanouts.
--------------	--

Justification:	The Jackson sewershed is amongst the oldest section of the City's infrastructure with areas dating back to the founding of the City. The infrastructure does not meet current regulations and has a history of inflow and infiltration problems as well as other problems related to the sewers age. The line has been previously tested and examined by the City personnel and is known to have I&I issues.
----------------	--

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$442,714	\$442,714
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$442,714	\$442,714

CITY OF LEXINGTON - CAPITAL IMPROVEMENTS PLAN  
 JACKSON BASIN - HIGHLAND ROAD AREA WASTEWATER COLLECTION LINE

CIP# UF-79





**CIP PROJECT REQUEST**

UF-81

Requesting Department:	Public Works
Category:	Wastewater
Title:	Spotswood Drive Area Wastewater Collection Line
Status:	No Change

Description:	This project replaces approximately 1760 linear feet of existing gravity sewer pipe and associated laterals along Spotswood Drive and Houston Street. Existing service line connections to residences will be replaced to the property line and will include cleanouts.
--------------	---

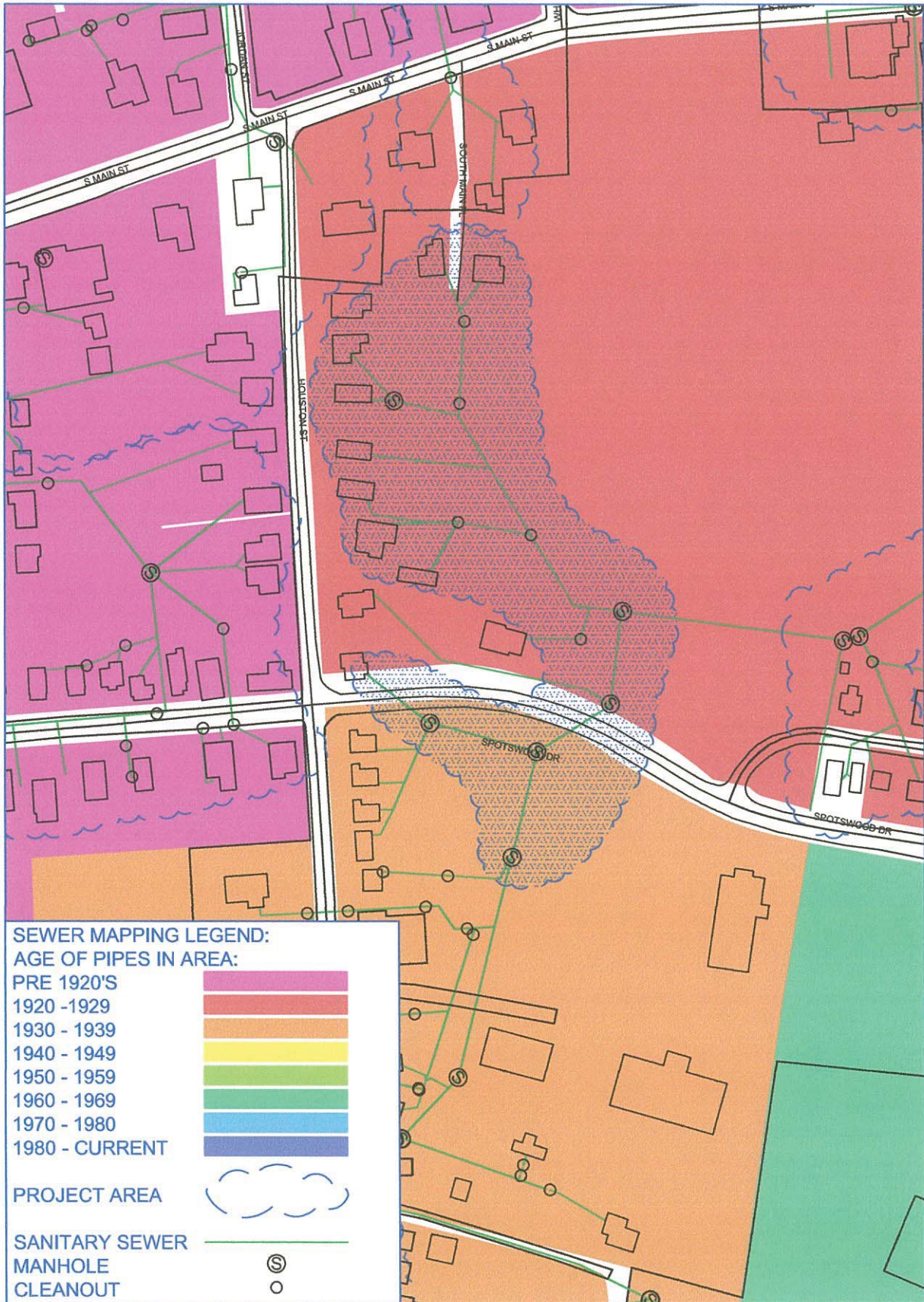
Justification:	The Jackson sewershed is amongst the oldest section of the City's infrastructure with areas dating back to the founding of the City. The infrastructure does not meet current regulations and has a history of inflow and infiltration problems as well as other problems related to the sewers age. The line has been previously tested and examined by the City personnel and is known to have I&I issues.
----------------	--

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$401,413	\$401,413
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$401,413</b>	<b>\$401,413</b>

CITY OF LEXINGTON - CAPITAL IMPROVEMENTS PLAN  
 JACKSON BASIN - SPOTSWOOD DRIVE AREA WASTEWATER COLLECTION LINE

CIP# UF-81





**CIP PROJECT REQUEST**

UF-83

Requesting Department:	Public Works
Category:	Wastewater
Title:	Taylor Street Area Wastewater Collection Line
Status:	No Change

Description:	This project replaces approximately 3320 linear feet of existing gravity sewer pipe and associated laterals along Taylor Street, Houston Street, and Hill Circle. Existing service line connections to residences will be replaced to the property line and will include cleanouts.
--------------	---

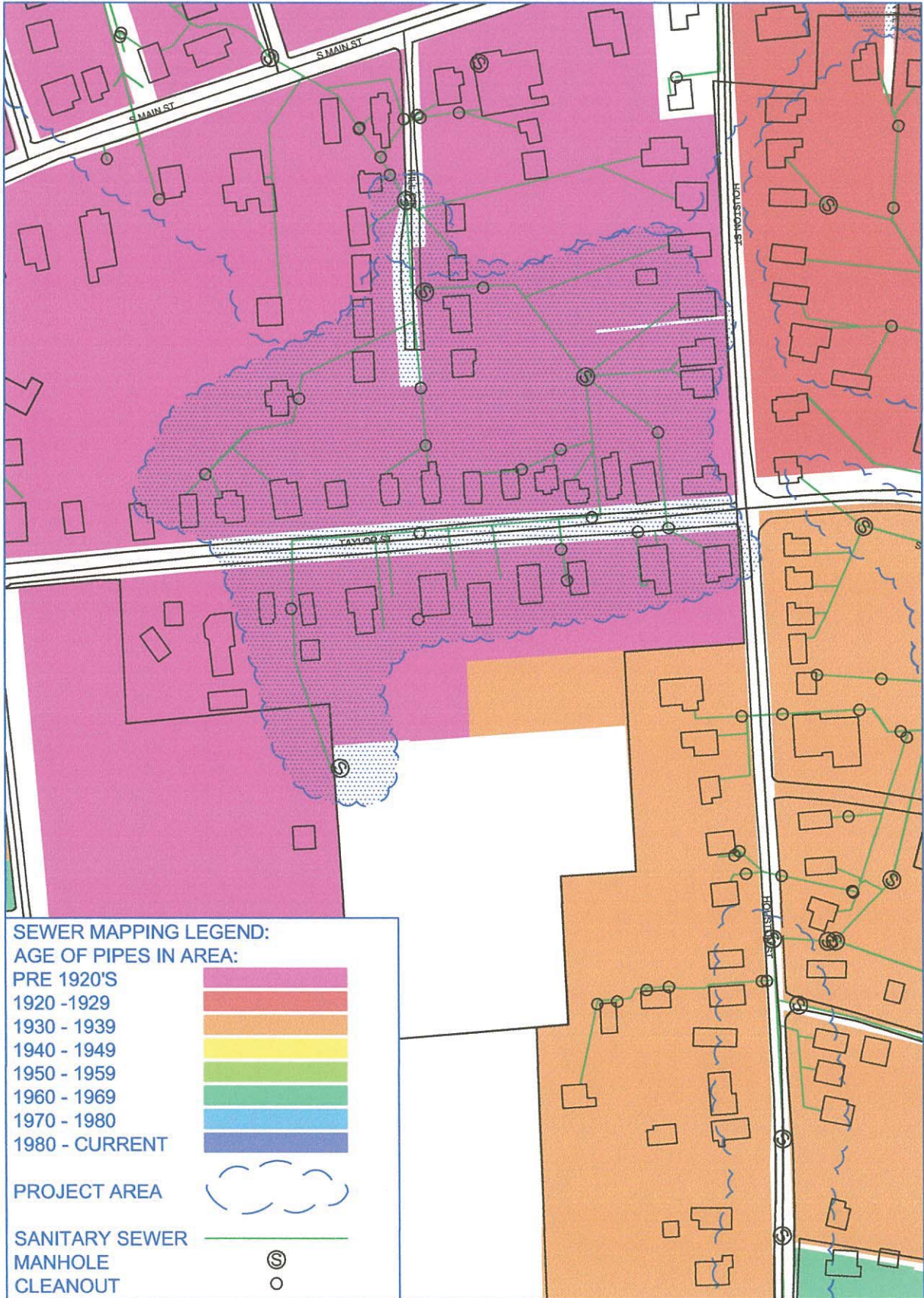
Justification:	The Jackson sewershed is amongst the oldest section of the City's infrastructure with areas dating back to the founding of the City. The infrastructure does not meet current regulations and has a history of inflow and infiltration problems as well as other problems related to the sewers age. The line has been previously tested and examined by the City personnel and is known to have I&I issues.
----------------	--

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$571,571	\$571,571
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$571,571	\$571,571

CITY OF LEXINGTON - CAPITAL IMPROVEMENTS PLAN  
 JACKSON BASIN - TAYLOR STREET AREA WASTEWATER COLLECTION LINE

CIP# UF-83





**CIP PROJECT REQUEST**

UF-85

Requesting Department:	Public Works
Category:	Wastewater
Title:	Central Jackson Wastewater Collection Line Redesign
Status:	No Change

Description:	This project replaces approximately 12,000 linear feet of existing gravity sewer pipe and associated laterals along Sellers Avenue, Ross Road, Edmondson Avenue, Westside Court, and Jordan Street. Existing service line connections to residences will be replaced to the property line and will include cleanouts.
--------------	---

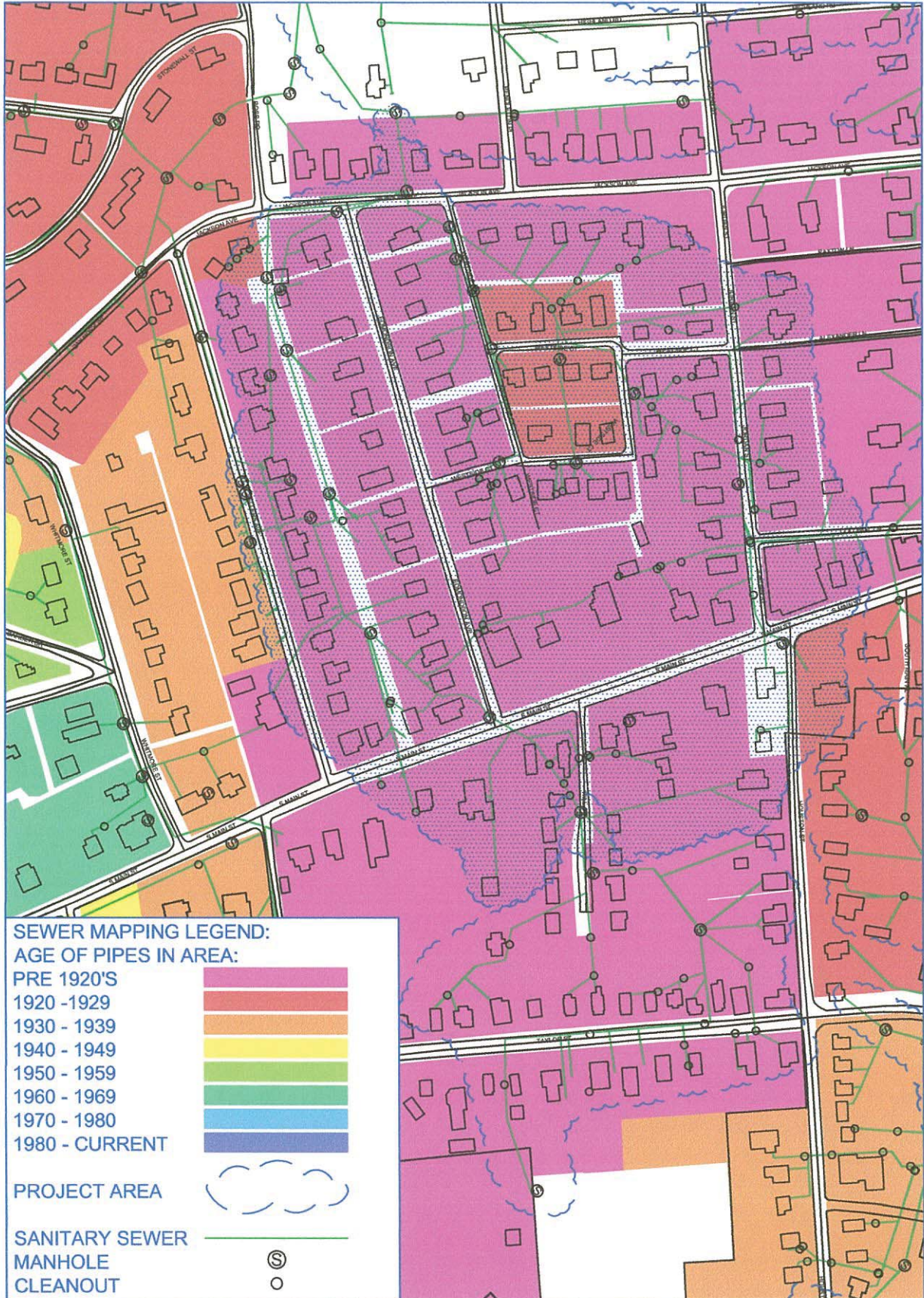
Justification:	The Jackson sewershed is amongst the oldest section of the City's infrastructure with areas dating back to the founding of the City. The infrastructure does not meet current regulations and has a history of inflow and infiltration problems as well as other problems related to the sewers age. The line has been previously tested and examined by the City personnel and is known to have I&I issues. Portions of this area are also currently being treated for root intrusion.
----------------	---

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$2,785,075	\$2,785,075
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$2,785,075	\$2,785,075

CITY OF LEXINGTON - CAPITAL IMPROVEMENTS PLAN  
 JACKSON BASIN - CENTRAL JACKSON SEWER REDESIGN

CIP# UF-85







**CIP PROJECT REQUEST**

UF-87

Requesting Department:	Public Works
Category:	Wastewater
Title:	North Jefferson Street Area Wastewater Collection Line
Status:	No Change

Description:	This project replaces approximately 250 linear feet of existing gravity sewer pipe and associated laterals in an alley between North Jefferson and North Main Street. Existing service line connections to residences will be replaced to the property line and will include cleanouts.
--------------	---

Justification:	The existing collection line was constructed in the 1920's. The project area has a history of inflow and infiltration problems as well as other problems related to the sewers age. The line has been previously tested and examined by the City personnel and is known to have I&I issues.
----------------	---

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$154,043	\$154,043
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$154,043	\$154,043

CITY OF LEXINGTON - CAPITAL IMPROVEMENTS PLAN  
DOWNTOWN BASIN - N JEFFERSON & N MAIN AREA WASTEWATER COLLECTION LINE

CIP# UF-87





**CIP PROJECT REQUEST**

UF-89

Requesting Department:	Public Works
Category:	Wastewater
Title:	South Jefferson Street to Lee Avenue Alley Wastewater Collection Line
Status:	No Change

Description:	This project replaces approximately 450 linear feet of existing gravity sewer pipe and associated laterals in an alley between South Jefferson and Lee Avenue. Existing service line connections to residences will be replaced to the property line and will include cleanouts.
--------------	--

Justification:	The existing collection line was constructed in the 1920's. The project area has a history of inflow and infiltration problems as well as other problems related to the sewers age. The line has been previously tested and examined by the City personnel and is known to have I&I issues.
----------------	---

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$183,642	\$183,642
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$183,642	\$183,642

CITY OF LEXINGTON - CAPITAL IMPROVEMENTS PLAN  
 DOWNTOWN BASIN - SOUTH JEFFERSON STREET AREA WASTEWATER COLLECTION LINE

CIP# UF-89





**CIP PROJECT REQUEST**

UF-91

Requesting Department:	Public Works
Category:	Wastewater
Title:	South Jefferson Street (McDowell to Preston) Wastewater Collection Line
Status:	No Change

Description:	This project replaces approximately 600 linear feet of existing gravity sewer pipe and associated laterals along South Jefferson Street from McDowell Street to W. Preston Street. Existing service line connections to residences will be replaced to the property line and will include cleanouts.
--------------	--

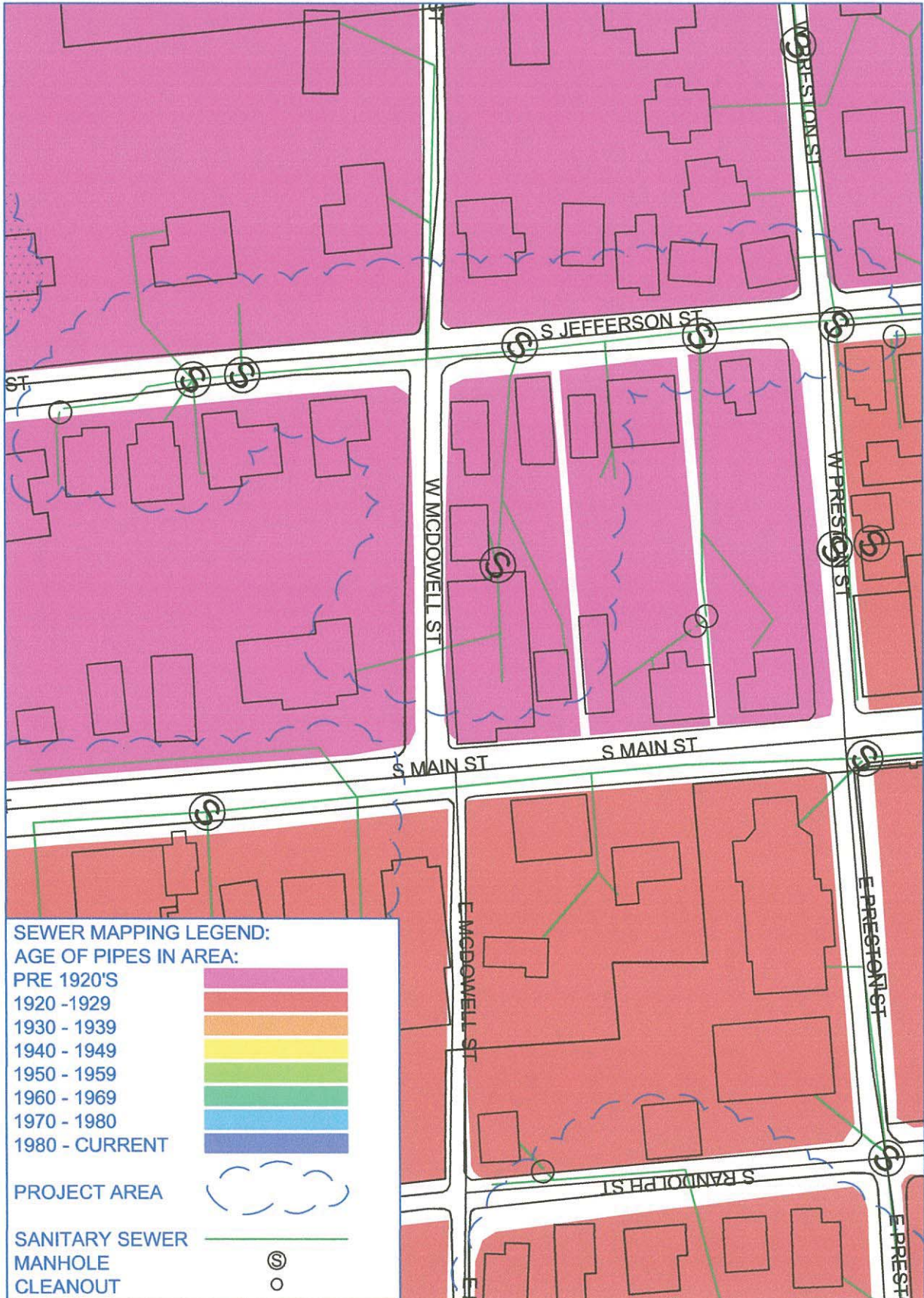
Justification:	The existing collection line was constructed in the 1920's. The project area has a history of inflow and infiltration problems as well as other problems related to the sewers age. The line has been previously tested and examined by the City personnel and is known to have I&I issues.
----------------	---

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$266,604	\$266,604
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$266,604</b>	<b>\$266,604</b>

CITY OF LEXINGTON - CAPITAL IMPROVEMENTS PLAN  
 DOWNTOWN BASIN - SOUTH JEFFERSON STREET WASTEWATER COLLECTION LINE

CIP# UF-91





**CIP PROJECT REQUEST**

UF-93

Requesting Department:	Public Works
Category:	Wastewater
Title:	South Main Street at McDowell Wastewater Collection Line
Status:	No Change

Description:	This project replaces approximately 620 linear feet of existing gravity sewer pipe and associated laterals along South Main Street near the intersection with McDowell Street. Existing service line connections to residences will be replaced to the property line and will include cleanouts.
--------------	--

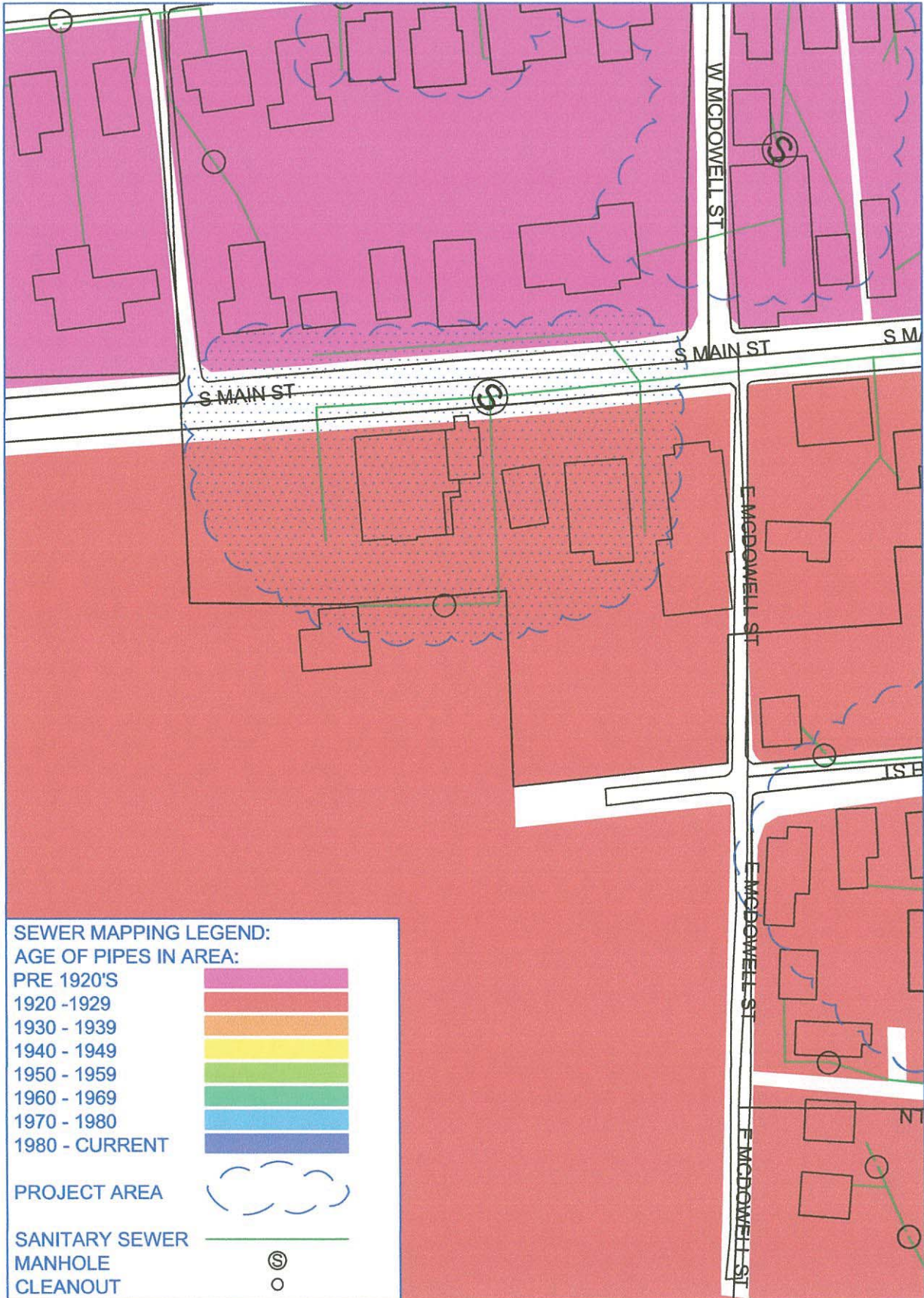
Justification:	The existing collection line was constructed in the 1920's. The project area has a history of inflow and infiltration problems as well as other problems related to the sewers age. The line has been previously tested and examined by the City personnel and is known to have I&I issues.
----------------	---

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

<b>Funding Summary</b>							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$199,025	\$199,025
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$199,025	\$199,025

CITY OF LEXINGTON - CAPITAL IMPROVEMENTS PLAN  
 DOWNTOWN BASIN - SOUTH MAIN STREET WASTEWATER COLLECTION LINE

CIP# UF-93







**CIP PROJECT REQUEST**

UF-95

Requesting Department:	Public Works
Category:	Wastewater
Title:	Lee Highway Wastewater Collection Line
Status:	No Change

Description:	This project replaces approximately 1460 linear feet of existing gravity sewer pipe and associated laterals along Lee Highway just south of the intersection with N. Main Street. Existing service line connections to residences will be replaced to the property line and will include cleanouts.
--------------	---

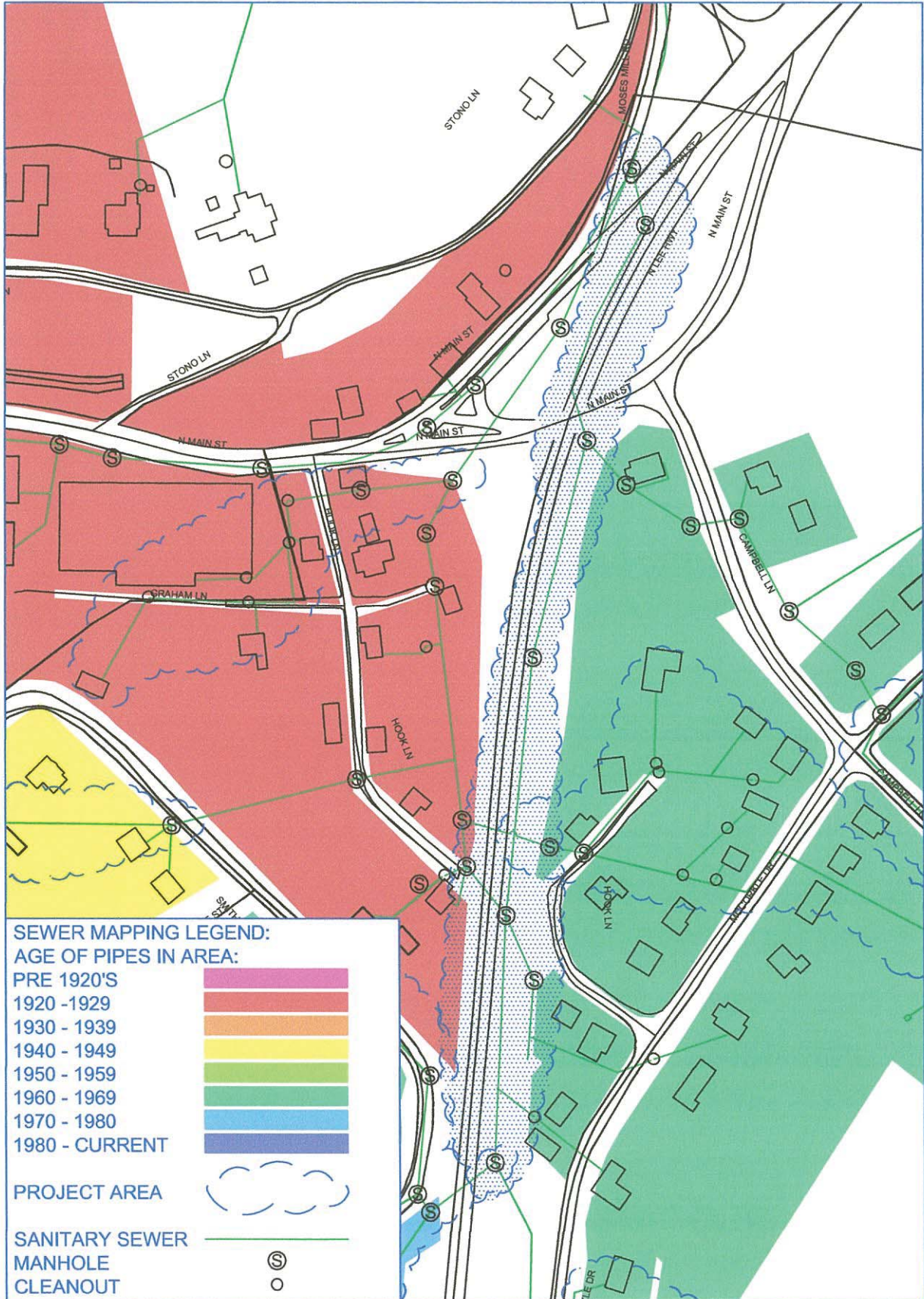
Justification:	The existing collection line was constructed in the 1960's. The project area has a history of inflow and infiltration problems as well as other problems related to the sewers age. The line has been previously tested and examined by the City personnel and is known to have I&I issues. The hydraulic capacity of this line is also reportedly near capacity in significant I&I events.
----------------	---

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$506,728	\$506,728
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$506,728	\$506,728

CITY OF LEXINGTON - CAPITAL IMPROVEMENTS PLAN  
 McCORKLE BASIN - LEE HIGHWAY WASTEWATER COLLECTION LINE

CIP# UF-95





**CIP PROJECT REQUEST**

UF-97

Requesting Department:	Public Works
Category:	Wastewater
Title:	Graham & Hook Lane Area Wastewater Collection Line
Status:	No Change

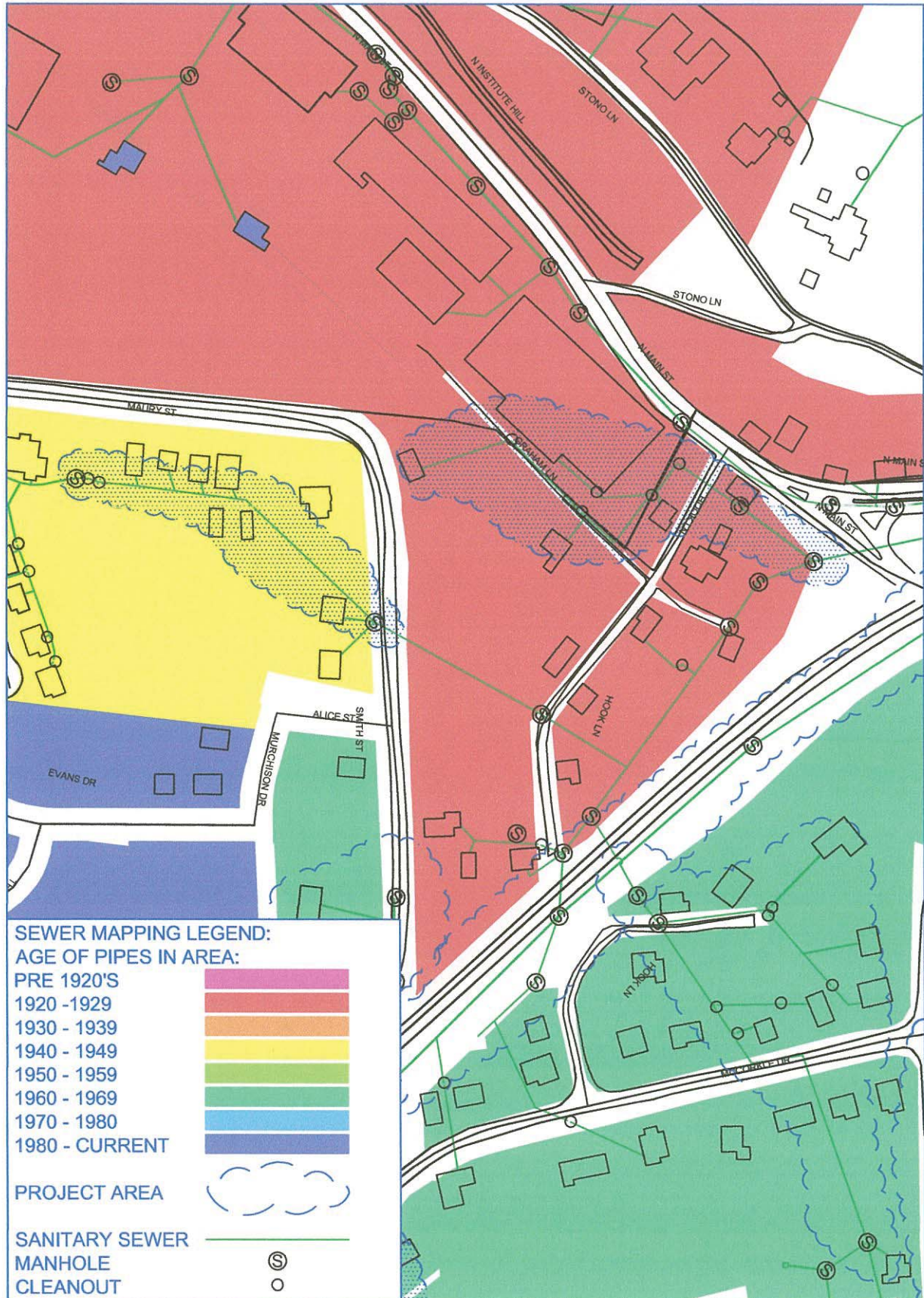
Description:	This project replaces approximately 1100 linear feet of existing gravity sewer pipe and associated laterals in the vicinity of Graham and Hook Lane and Maury and Smith Street. Existing service line connections to residences will be replaced to the property line and will include cleanouts.
--------------	---

Justification:	The existing collection line was constructed in the 1920's and 1940's. The project area has a history of inflow and infiltration problems as well as other problems related to the sewers age. The line has been previously tested and examined by the City personnel and is known to have I&I issues.
----------------	--

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$494,337	\$494,337
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$494,337	\$494,337

McCORKLE BASIN - GRAHAM AND HOOK LANE AREA WASTEWATER COLLECTION LINE





**CIP PROJECT REQUEST**

UF-99

Requesting Department:	Public Works
Category:	Wastewater
Title:	Cambell Lane Area Wastewater Collection Line
Status:	No Change

Description:	This project replaces approximately 1100 linear feet of existing gravity sewer pipe and associated laterals along Shop Road and Campbell Lane. Existing service line connections to residences will be replaced to the property line and will include cleanouts.
--------------	--

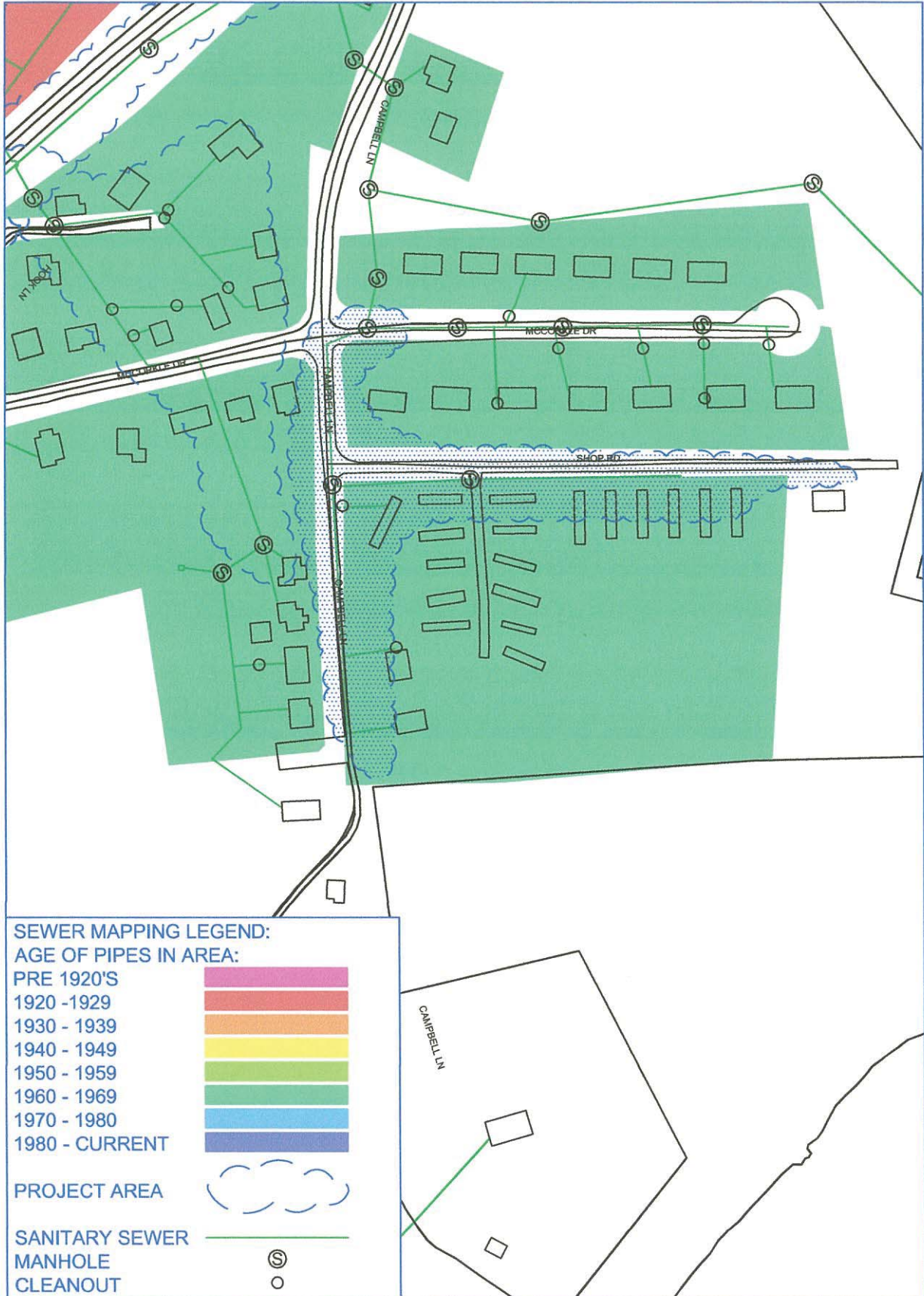
Justification:	The existing collection line was constructed in the 1960's. The project area has a history of inflow and infiltration problems as well as other problems related to the sewers age. The line has been previously tested and examined by the City personnel and is known to have I&I issues.
----------------	---

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$291,960	\$291,960
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$291,960</b>	<b>\$291,960</b>

CITY OF LEXINGTON - CAPITAL IMPROVEMENTS PLAN  
 McCORKLE BASIN - CAMPBELL LANE AREA WASTEWATER COLLECTION LINE

CIP# UF-99



**SEWER MAPPING LEGEND:**  
**AGE OF PIPES IN AREA:**

PRE 1920'S	[Pink bar]
1920 - 1929	[Red bar]
1930 - 1939	[Orange bar]
1940 - 1949	[Yellow bar]
1950 - 1959	[Light Green bar]
1960 - 1969	[Green bar]
1970 - 1980	[Blue bar]
1980 - CURRENT	[Dark Blue bar]

**PROJECT AREA** [Dashed blue line symbol]

**SANITARY SEWER** [Solid green line symbol]

**MANHOLE** [Circle with 'S' symbol]

**CLEANOUT** [Small circle symbol]



**CIP PROJECT REQUEST**

UF-101

Requesting Department:	Public Works
Category:	Wastewater
Title:	Willis Road to North Lewis Street Wastewater Collection Line
Status:	No Change

Description:	This project replaces approximately 1860 linear feet of existing gravity sewer pipe and associated laterals paralleling Lee Highway from Wills Road to North Lewis Street. Existing service line connections to residences will be replaced to the property line and will include cleanouts.
--------------	--

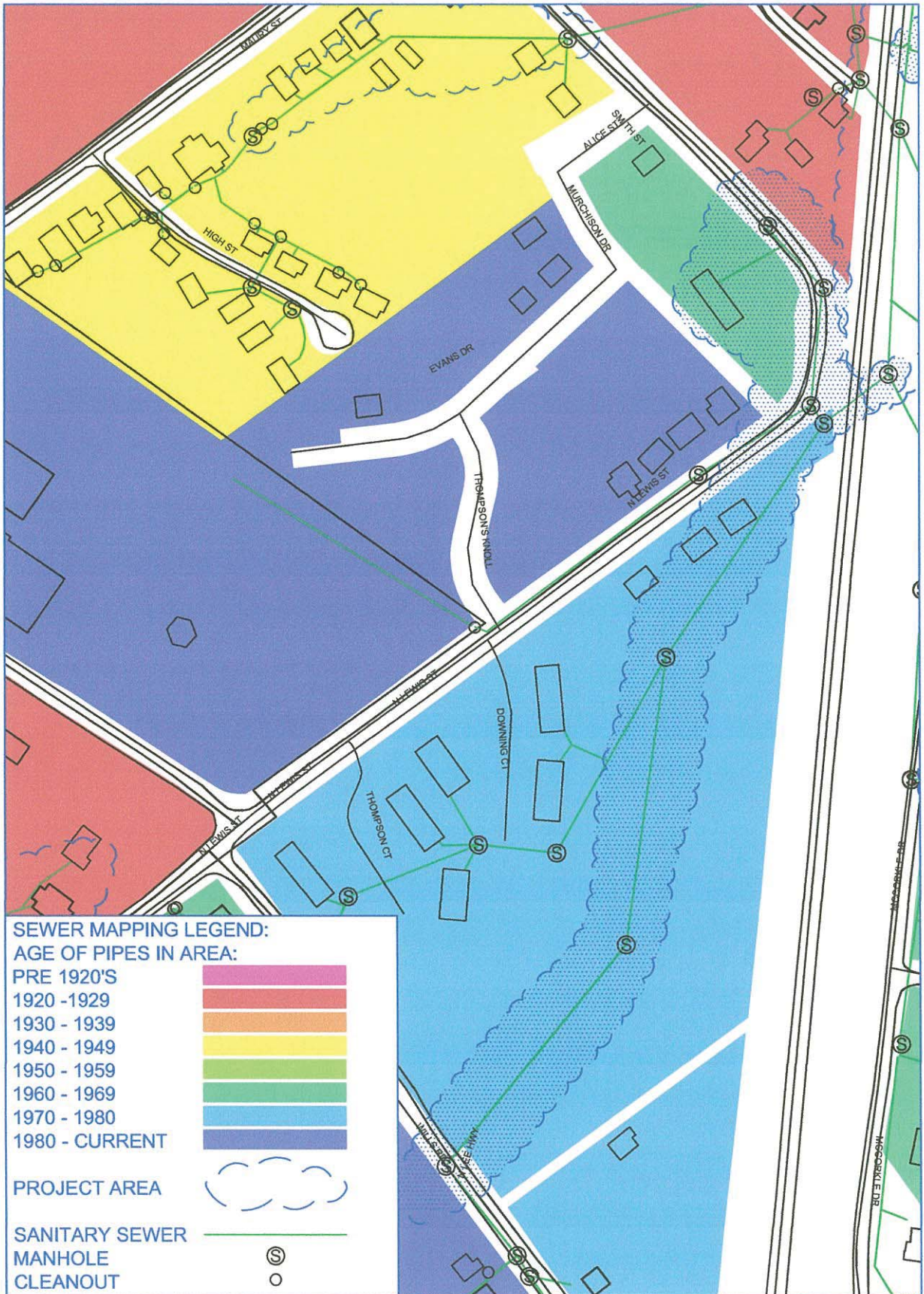
Justification:	The existing collection line was constructed in the 1960's and 1970's. The project area has a history of inflow and infiltration problems as well as other problems related to the sewers age. The line has been previously tested and examined by the City personnel and is known to have I&I issues.
----------------	--

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$380,917	\$380,917
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$380,917</b>	<b>\$380,917</b>

CITY OF LEXINGTON - CAPITAL IMPROVEMENTS PLAN  
 McCORKLE BASIN - WILLS ROAD TO N LEWIS STREET WASTEWATER COLLECTION LINE

CIP# UF-101



Gross, Matt / 7/17/2015 1:08 PM / I:\a\projects\projects\31317848\31848\_base\_mapping.dwg





**CIP PROJECT REQUEST**

UF-103

Requesting Department:	Public Works
Category:	Wastewater
Title:	Morningside Drive & Donald Street Wastewater Collection Line
Status:	No Change

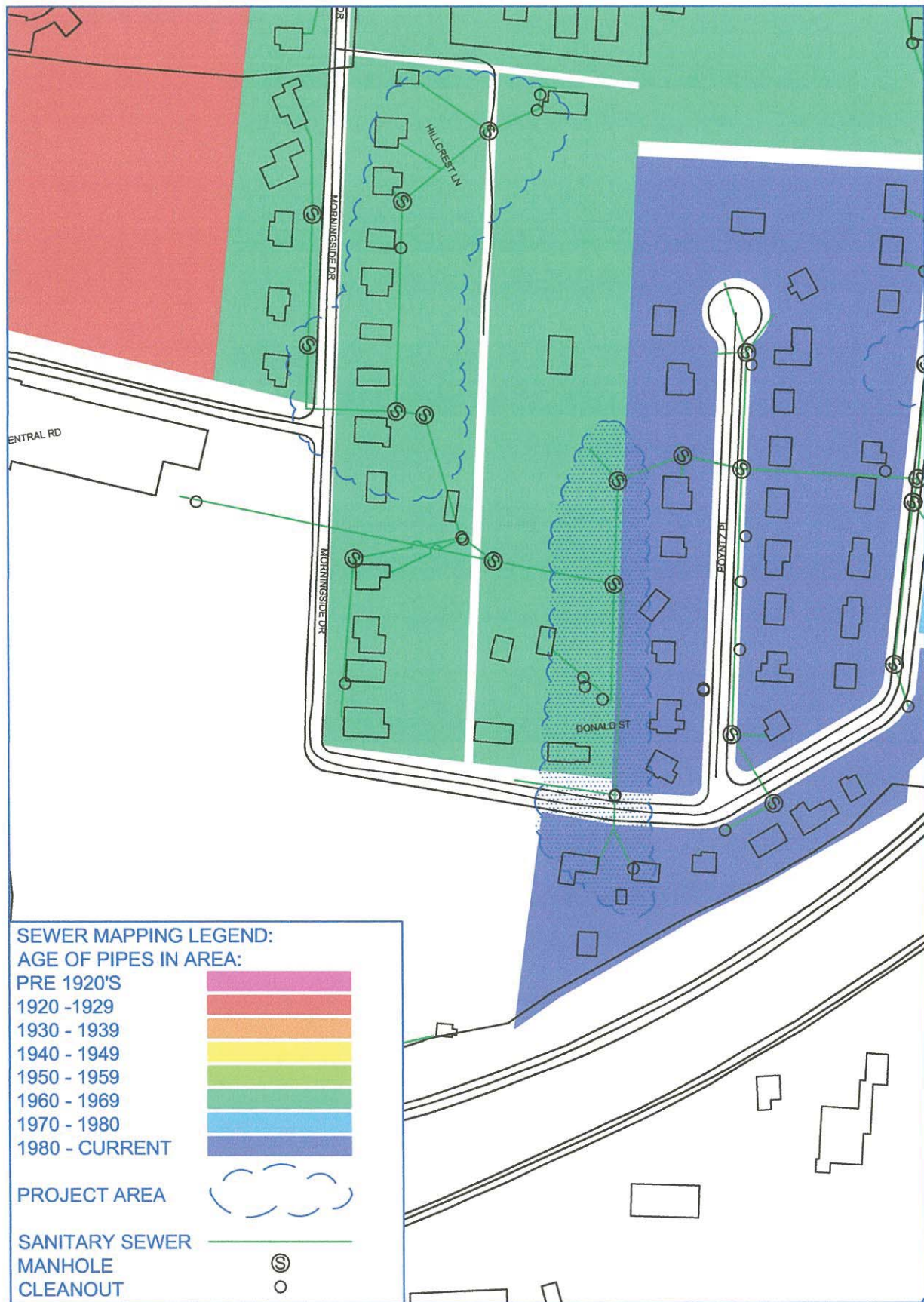
Description:	This project replaces approximately 1925 linear feet of existing gravity sewer pipe and associated laterals in the vicinity of Morningside Drive and Donald Street. Existing service line connections to residences will be replaced to the property line and will include cleanouts.
--------------	---

Justification:	The existing collection line was constructed in the 1960's. The project area has a history of inflow and infiltration problems as well as other problems related to the sewers age. The line has been previously tested and examined by the City personnel and is known to have I&I issues. This area is also being currently treated for root intrusion.
----------------	---

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$435,818	\$435,818
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$435,818	\$435,818

McCORKLE BASIN -MORNINGSIDE DRIVE & DONALD STREET WASTEWATER COLLECTION LINE





**CIP PROJECT REQUEST**

UF-105

Requesting Department:	Public Works
Category:	Wastewater
Title:	East Nelson Street Wastewater Collection Line
Status:	No Change

Description:	This project replaces approximately 2000 linear feet of existing gravity sewer pipe and associated laterals along East Nelson Street from Lee Highway to New Market Place. Existing service line connections to residences will be replaced to the property line and will include cleanouts.
--------------	--

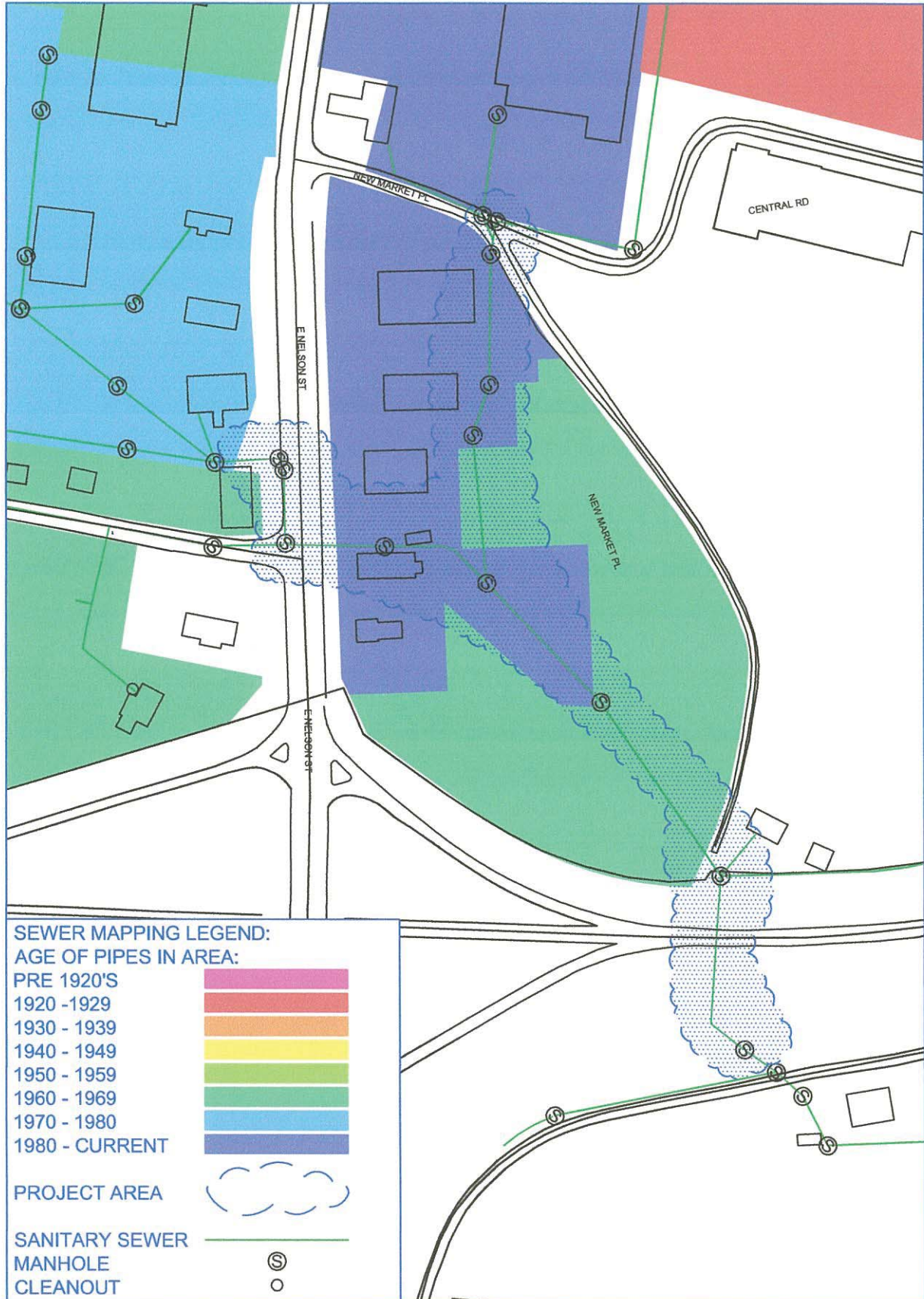
Justification:	The existing collection line was constructed in the 1960's and 1980's. The project area has a history of inflow and infiltration problems as well as other problems related to the sewers age. The line has been previously tested and examined by the City personnel and is known to have I&I issues.
----------------	--

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

<b>Funding Summary</b>							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$472,069	\$472,069
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$472,069	\$472,069

CITY OF LEXINGTON - CAPITAL IMPROVEMENTS PLAN  
 McCORKLE BASIN - E NELSON STREET WASTEWATER COLLECTION LINE

CIP# UF-105





**CIP PROJECT REQUEST**

UF-109

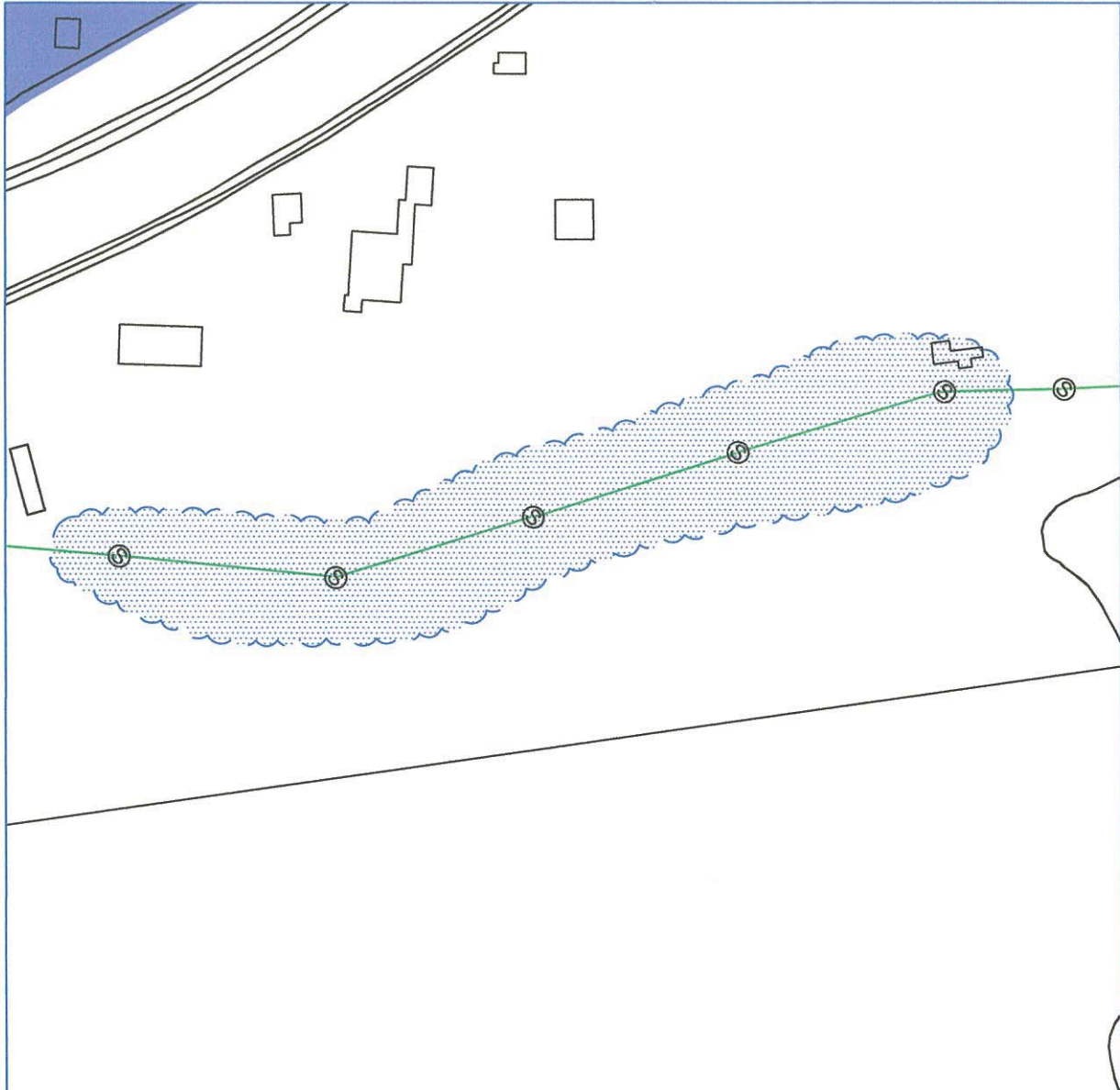
Requesting Department:	Public Works
Category:	Wastewater
Title:	McCorkle Gravity Interceptor Wastewater Collection Line
Status:	No Change

Description:	This project replaces approximately 1000 linear feet of existing 10” gravity sewer interceptor that leads to the Campbell Lane Pump Station. The remaining portions of the gravity interceptor have already been replaced or rehabilitated.
--------------	---

Justification:	The existing collection line was constructed in the 1960’s. The project area has a history of inflow and infiltration problems as well as other problems related to the sewers age. The line has been previously tested and examined by the City personnel and is known to have I&I issues.
----------------	---

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

<b>Funding Summary</b>							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$245,290	\$245,290
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$245,290	\$245,290



**SEWER MAPPING LEGEND:**

**AGE OF PIPES IN AREA:**

PRE 1920'S	
1920 - 1929	
1930 - 1939	
1940 - 1949	
1950 - 1959	
1960 - 1969	
1970 - 1980	
1980 - CURRENT	

**PROJECT AREA**

**SANITARY SEWER**

**MANHOLE**

**CLEANOUT**



**CIP PROJECT REQUEST**

UF-111

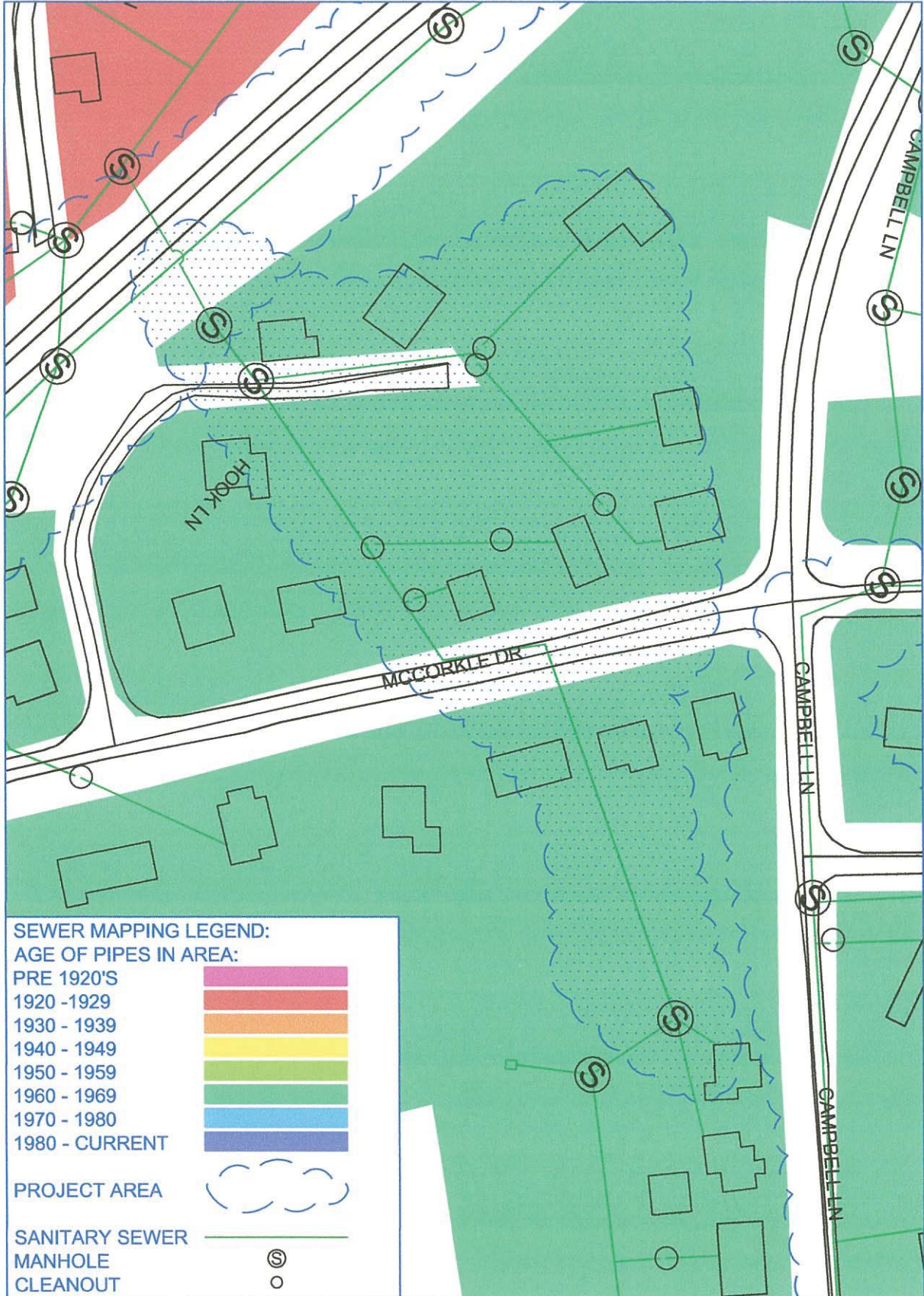
Requesting Department:	Public Works
Category:	Wastewater
Title:	McCorkle Drive Area Wastewater Collection Line
Status:	No Change

Description:	This project replaces approximately 930 linear feet of existing gravity sewer pipe and associated laterals along McCorkle Drive from Campbell Lane to Lee Highway. Existing service line connections to residences will be replaced to the property line and will include cleanouts.
--------------	--

Justification:	The existing collection line was constructed in the 1960's. The project area has a history of inflow and infiltration problems as well as other problems related to the sewers age. The line has been previously tested and examined by the City personnel and is known to have I&I issues. This area is currently being treated for root intrusion.
----------------	--

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$244,399	\$244,399
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$244,399	\$244,399







**CIP PROJECT REQUEST**

UF-113

Requesting Department:	Public Works
Category:	Wastewater
Title:	Allen Avene & Mary Lane Wastewater Collection Line
Status:	No Change

Description:	This project replaces approximately 1,100 linear feet of existing gravity sewer pipe and associated laterals in the vicinity of Allen Avenue and Mary Lane. Existing service line connections to residences will be replaced to the property line and will include cleanouts.
--------------	---

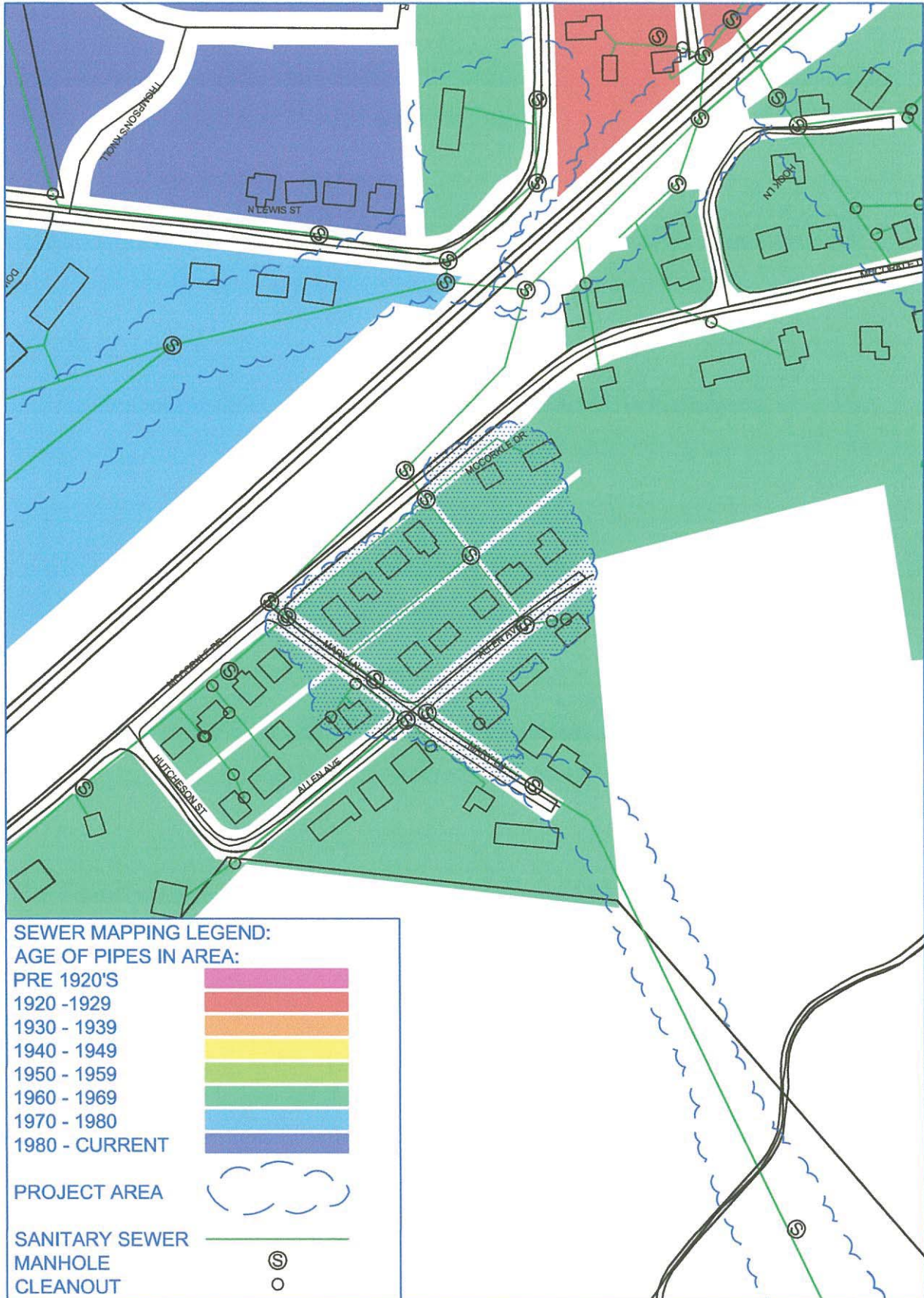
Justification:	The existing collection line was constructed in the 1960's. The project area has a history of inflow and infiltration problems as well as other problems related to the sewers age. The line has been previously tested and examined by the City personnel and is known to have I&I issues. This area is currently being treated for root intrusion.
----------------	--

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$320,688	\$320,688
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$320,688	\$320,688

CITY OF LEXINGTON - CAPITAL IMPROVEMENTS PLAN  
 McCORKLE BASIN - ALLEN AVENUE AND MARY LANE WASTEWATER COLLECTION LINE

CIP# UF-113



**SEWER MAPPING LEGEND:**  
**AGE OF PIPES IN AREA:**

PRE 1920'S	
1920 - 1929	
1930 - 1939	
1940 - 1949	
1950 - 1959	
1960 - 1969	
1970 - 1980	
1980 - CURRENT	

**PROJECT AREA**

**SANITARY SEWER MANHOLE**

**CLEANOUT**



**CIP PROJECT REQUEST**

UF-117

Requesting Department:	Public Works
Category:	Wastewater
Title:	Overhill Drive Wastewater Collection Line
Status:	No Change

Description:	This project replaces about 1,250 feet of existing gravity sewer pipe and associated laterals on Overhill Drive. Existing service line connections to residences will be replaced to the property line and will include cleanouts.
--------------	--

Justification:	The existing collection line was constructed in the 1960's and has a history of inflow and infiltration problems related to root intrusion in the lines. The lines are currently being treated for root intrusion. Root Intrusion indicates the presence of cracks and holes by which ground water and runoff may enter the sewer.
----------------	--

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$282,380	\$282,380
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$282,380</b>	<b>\$282,380</b>





**CIP PROJECT REQUEST**

UF-125

Requesting Department:	Public Works
Category:	Wastewater
Title:	Taylor Street to East Preston Wastewater Collection Line
Status:	No Change

Description:	This project replaces approximately 1750 linear feet of existing gravity sewer pipe and associated laterals in the vicinity of Taylor Street and East Preston Street. Existing service line connections to residences will be replaced to the property line and will include cleanouts.
--------------	---

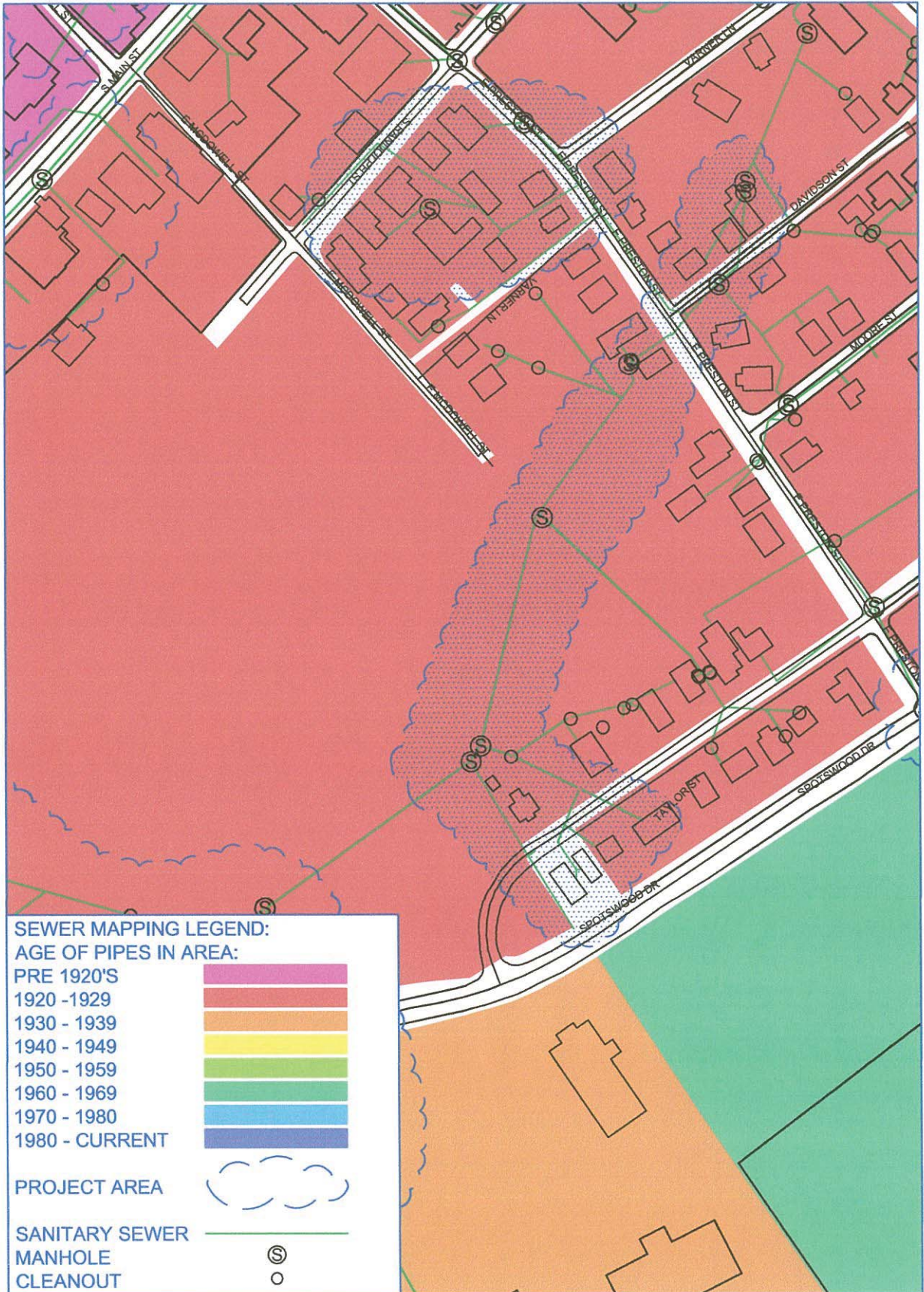
Justification:	The existing collection line was constructed in the 1920's and portions of the existing lines run under current buildings. The project area has a history of inflow and infiltration problems as well as other problems related to the sewers age. The line has been previously tested and examined by the City personnel and is known to have I&I issues.
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Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$486,529	\$486,529
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$486,529	\$486,529

CITY OF LEXINGTON - CAPITAL IMPROVEMENTS PLAN  
 CENTERVILLE BASIN - TAYLOR ST. TO E. PRESTON ST. WASTEWATER COLLECTION LINE

CIP# UF-125





**CIP PROJECT REQUEST**

UF-127

Requesting Department:	Public Works
Category:	Wastewater
Title:	Houston Street Wastewater Collection Line
Status:	No Change

Description:	This project replaces approximately 1200 linear feet of existing gravity sewer pipe and associated laterals along Houston Street from Anderson Street to north of Miller Street. Existing service line connections to residences will be replaced to the property line and will include cleanouts.
--------------	--

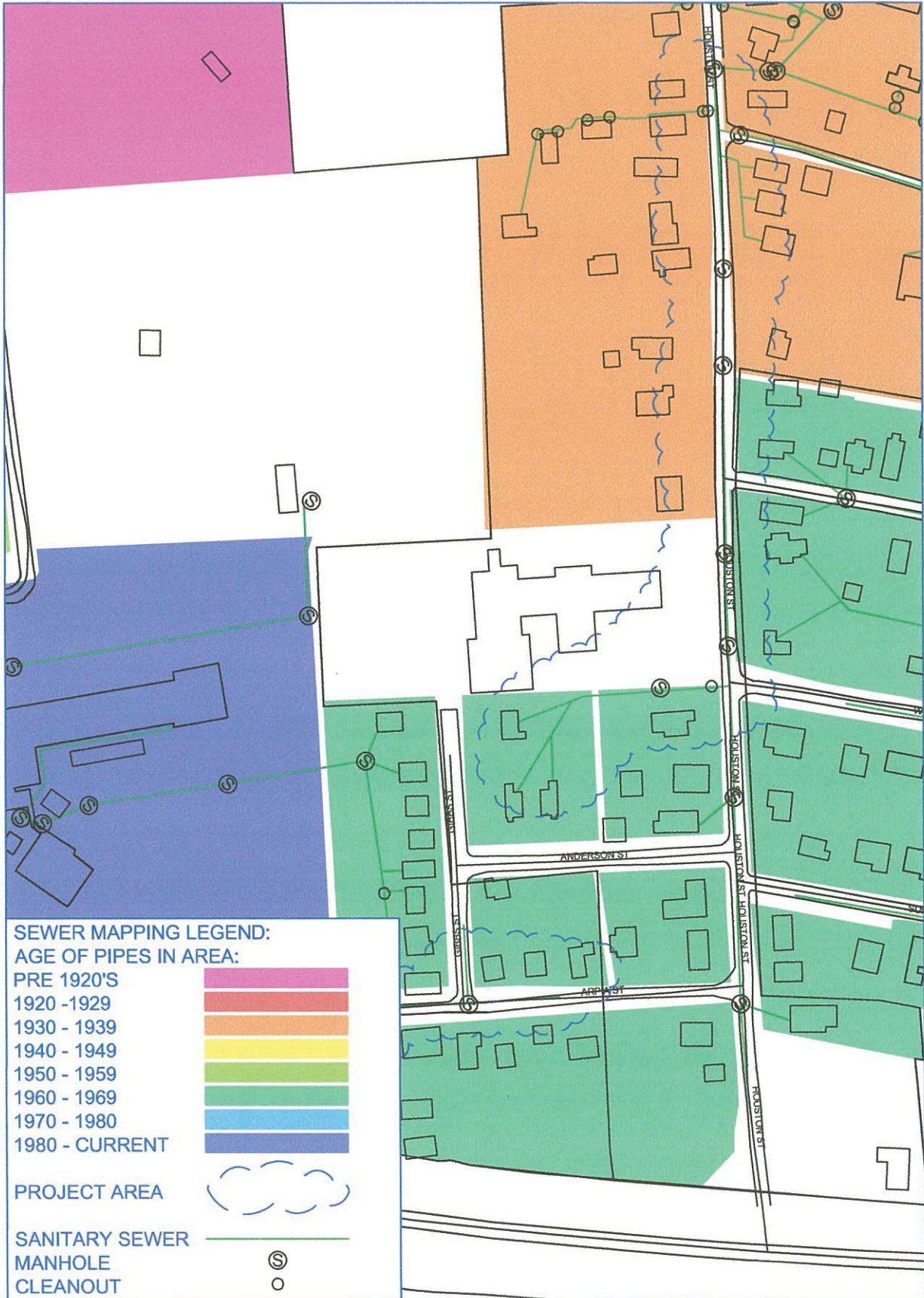
Justification:	The existing collection line was constructed in the 1920's. The project area has a history of inflow and infiltration problems as well as other problems related to the sewers age. The line has been previously tested and examined by the City personnel and is known to have I&I issues.
----------------	---

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

<b>Funding Summary</b>							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$344,856	\$344,856
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$344,856	\$344,856

CITY OF LEXINGTON - CAPITAL IMPROVEMENTS PLAN  
 CENTERVILLE BASIN - HOUSTON STREET WASTEWATER COLLECTION LINE

CIP# UF-127







**CIP PROJECT REQUEST**

UF-129

Requesting Department:	Public Works
Category:	Wastewater
Title:	Senseny Lane & Carruthers Street Wastewater Collection Line
Status:	No Change

Description:	This project replaces approximately 1600 linear feet of existing gravity sewer pipe and associated laterals along Senseny Lane and Carruthers Street from Hannah Lane to Dorman Lane. Existing service line connections to residences will be replaced to the property line and will include cleanouts.
--------------	---

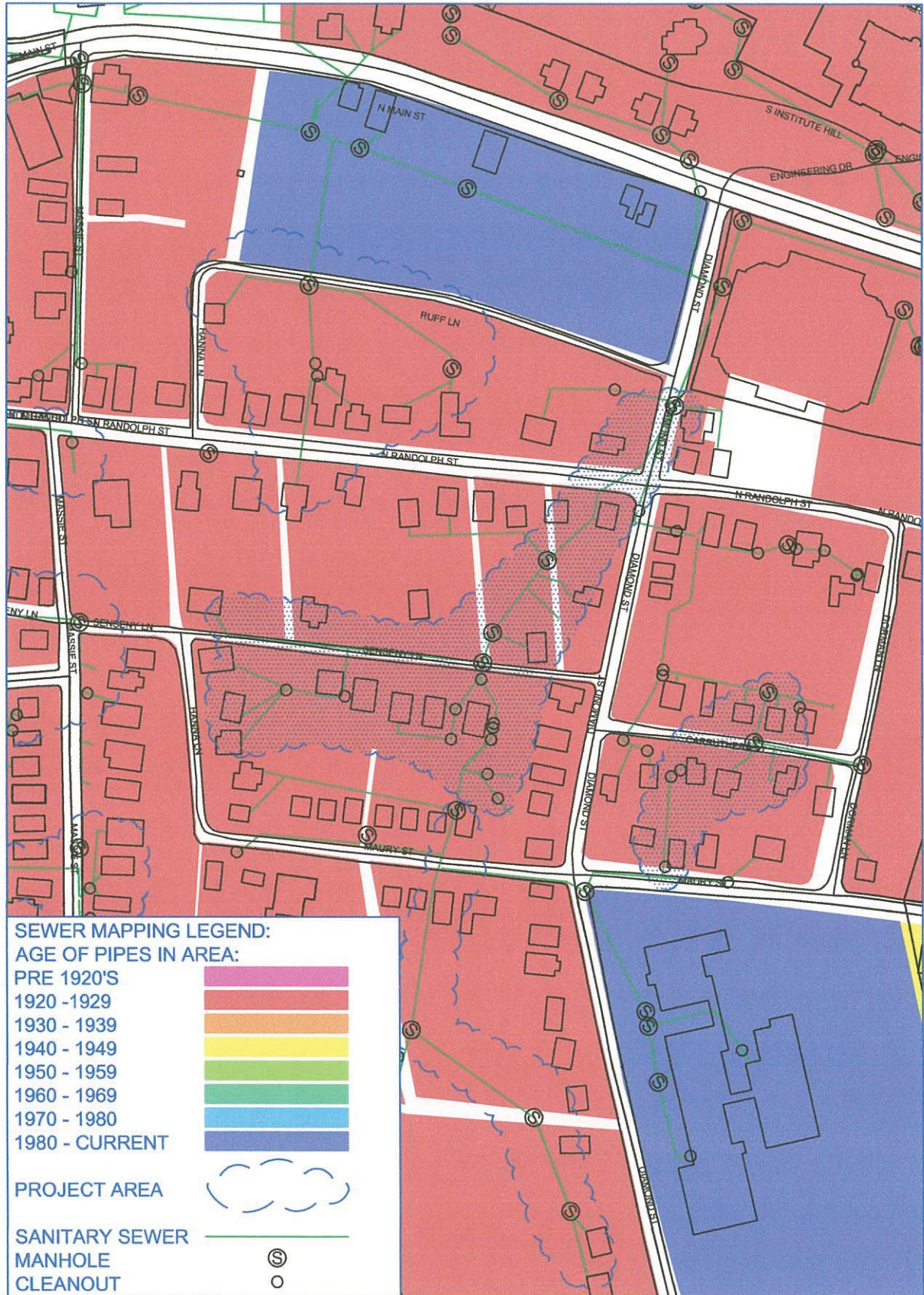
Justification:	The existing collection line was constructed in the 1920's. The project area has a history of inflow and infiltration problems as well as other problems related to the sewers age. The line has been previously tested and examined by the City personnel and is known to have I&I issues.
----------------	---

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$468,865	\$468,865
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$468,865</b>	<b>\$468,865</b>

CITY OF LEXINGTON - CAPITAL IMPROVEMENTS PLAN  
 DIAMOND BASIN - SENESEY LANE AND CARRUTHERS STREET WASTEWATER COLLECTION LINE

CIP# UF-129





**CIP PROJECT REQUEST**

UF-135

Requesting Department:	Public Works
Category:	Wastewater
Title:	South Randolph Street Wastewater Collection Line
Status:	No Change

Description:	This project replaces approximately 300 linear feet of existing gravity sewer pipe and associated laterals along South Randolph Street from East Nelson Street to East Washington Street. Existing service line connections to residences will be replaced to the property line and will include cleanouts.
--------------	---

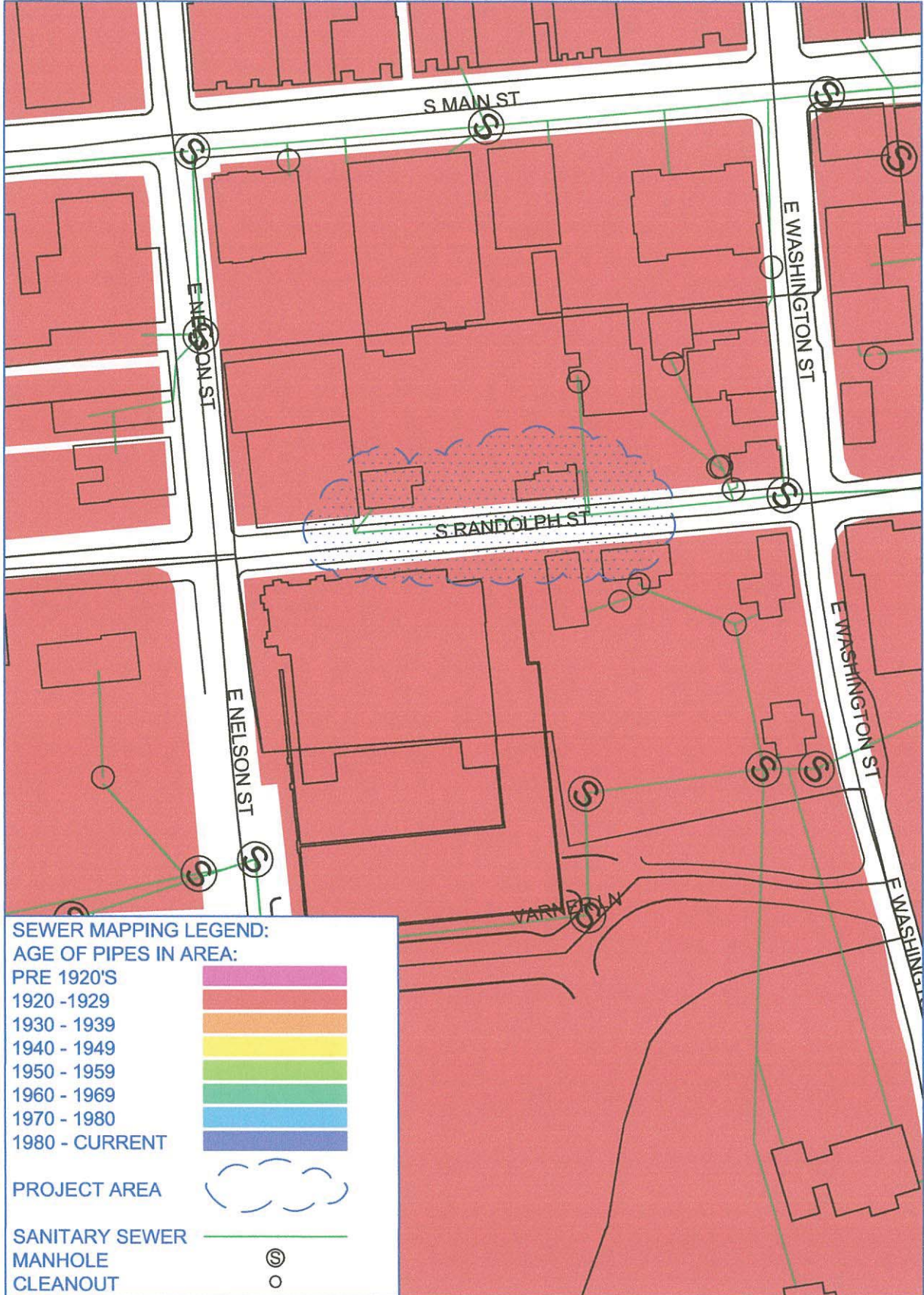
Justification:	The existing collection line was constructed in the 1920's. The project area has a history of inflow and infiltration problems as well as other problems related to the sewers age. The line has been previously tested and examined by the City personnel and is known to have I&I issues.
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Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

<b>Funding Summary</b>							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$116,126	\$116,126
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$116,126	\$116,126

CITY OF LEXINGTON - CAPITAL IMPROVEMENTS PLAN  
 DIAMOND BASIN - S RANDOLPH STREET WASTEWATER COLLECTION LINE

CIP# UF-135





**CIP PROJECT REQUEST**

UF-139

Requesting Department:	Public Works
Category:	Wastewater
Title:	Diamond Street Wastewater Collection Line
Status:	No Change

Description:	This project replaces approximately 700 linear feet of existing gravity sewer pipe and associated laterals along Diamond Street from North Lewis Street to Maury Street. Existing service line connections to residences will be replaced to the property line and will include cleanouts.
--------------	--

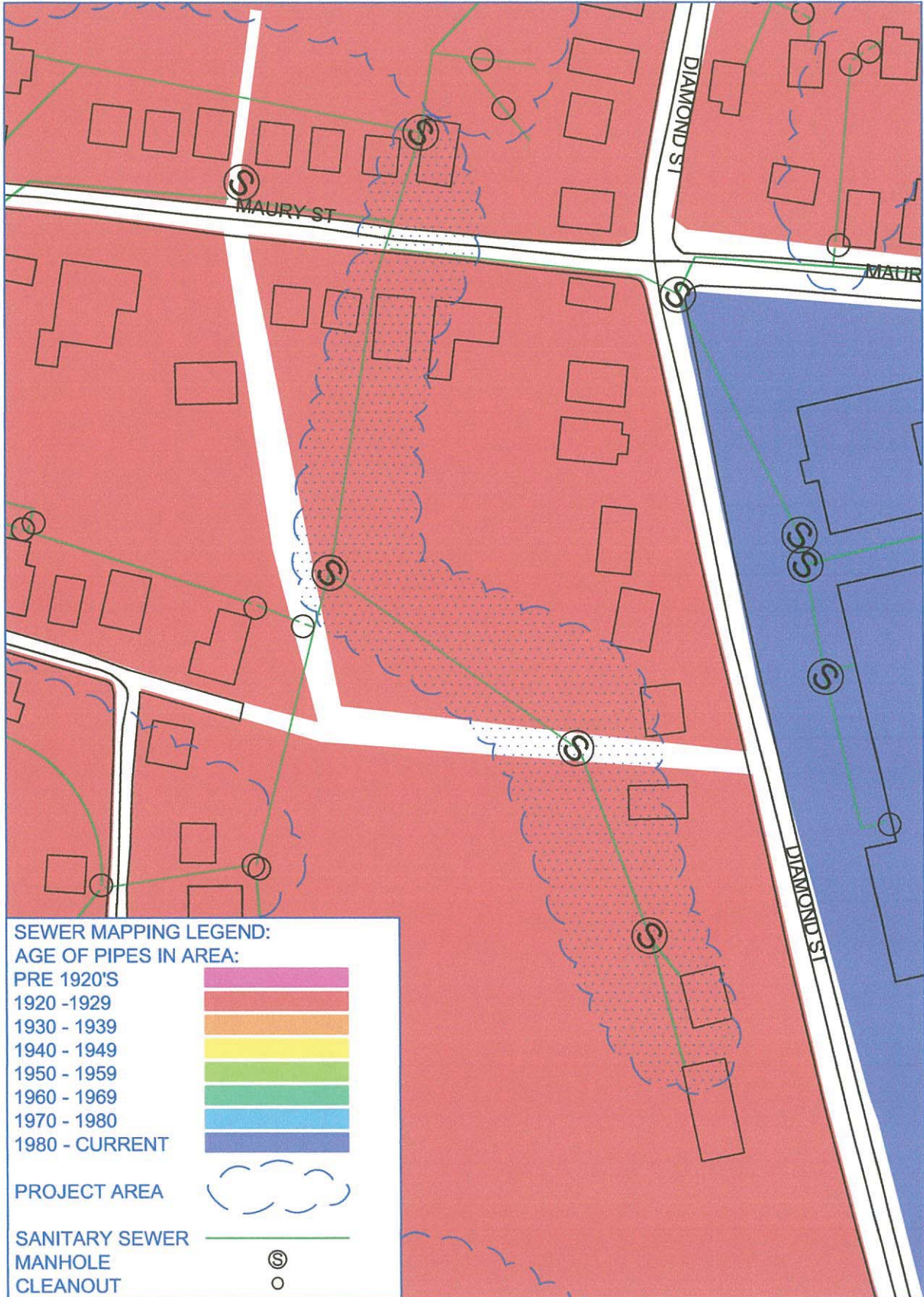
Justification:	The existing collection line was constructed in the 1920's. The project area has a history of inflow and infiltration problems as well as other problems related to the sewers age. The line has been previously tested and examined by the City personnel and is known to have I&I issues.
----------------	---

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$181,053	\$181,053
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$181,053	\$181,053

CITY OF LEXINGTON - CAPITAL IMPROVEMENTS PLAN  
 DIAMOND BASIN - DIAMOND STREET WASTEWATER COLLECTION LINE

CIP# UF-139





**CIP PROJECT REQUEST**

UF-145

Requesting Department:	Public Works
Category:	Wastewater
Title:	Arpia Street Wastewater Collection Line
Status:	No Change

Description:	This project replaces approximately 650 linear feet of existing gravity sewer pipe and associated laterals along Arpia Street from Houston Street to the cul-de-sac. Existing service line connections to residences will be replaced to the property line and will include cleanouts.
--------------	--

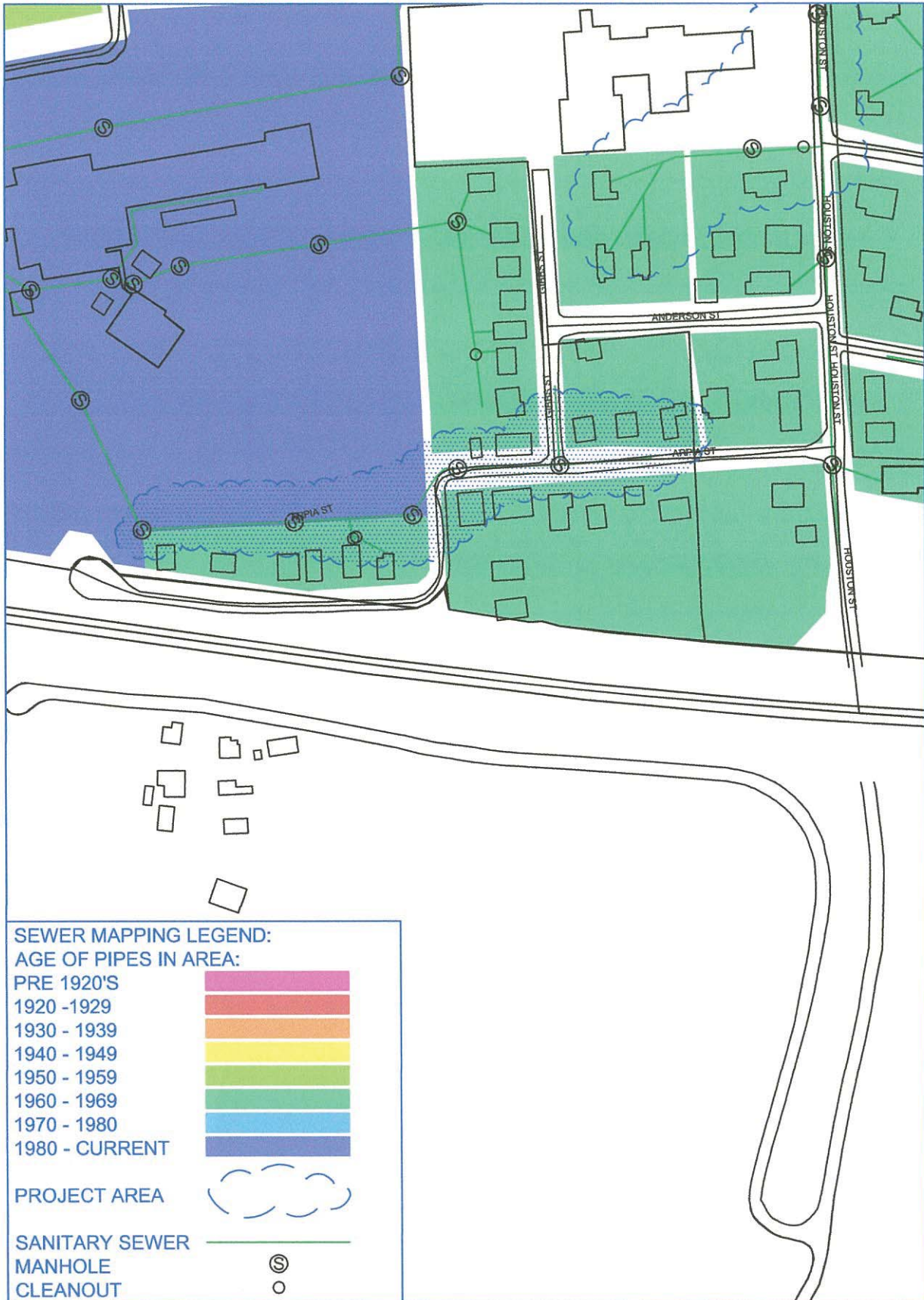
Justification:	The existing collection line was constructed in the 1960's. The project area has a history of inflow and infiltration problems as well as other problems related to the sewers age. The line has been previously tested and examined by the City personnel and is known to have I&I issues.
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Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$211,872	\$211,872
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$211,872	\$211,872

CITY OF LEXINGTON - CAPITAL IMPROVEMENTS PLAN  
 HIGH SCHOOL BASIN - ARPIA STREET WASTEWATER COLLECTION LINE

CIP# UF-145







**CIP PROJECT REQUEST**

UF-147

Requesting Department:	Public Works
Category:	Wastewater
Title:	Waddell Street Wastewater Collection Line
Status:	No Change

Description:	This project replaces approximately 1,000 linear feet of existing gravity sewer pipe and associated laterals near the intersection of Waddell Street and South Main Street. Existing service line connections to residences will be replaced to the property line and will include cleanouts.
--------------	---

Justification:	The existing collection line was constructed in the 1950's. The project area has a history of inflow and infiltration problems as well as other problems related to the sewers age. The line has been previously tested and examined by the City personnel and is known to have I&I issues.
----------------	---

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

<b>Funding Summary</b>							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$231,202	\$231,202
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$231,202	\$231,202


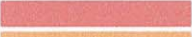






CITY OF LEXINGTON - CAPITAL IMPROVEMENTS PLAN  
 HIGH SCHOOL BASIN - WADDELL STREET WASTEWATER COLLECTION LINE


CIP# UF-147





**SEWER MAPPING LEGEND:**


**AGE OF PIPES IN AREA:**

PRE 1920'S	
1920 - 1929	
1930 - 1939	
1940 - 1949	
1950 - 1959	
1960 - 1969	
1970 - 1980	
1980 - CURRENT	

**PROJECT AREA** 

**SANITARY SEWER** 

**MANHOLE** 

**CLEANOUT** 



**CIP PROJECT REQUEST**

UF-149

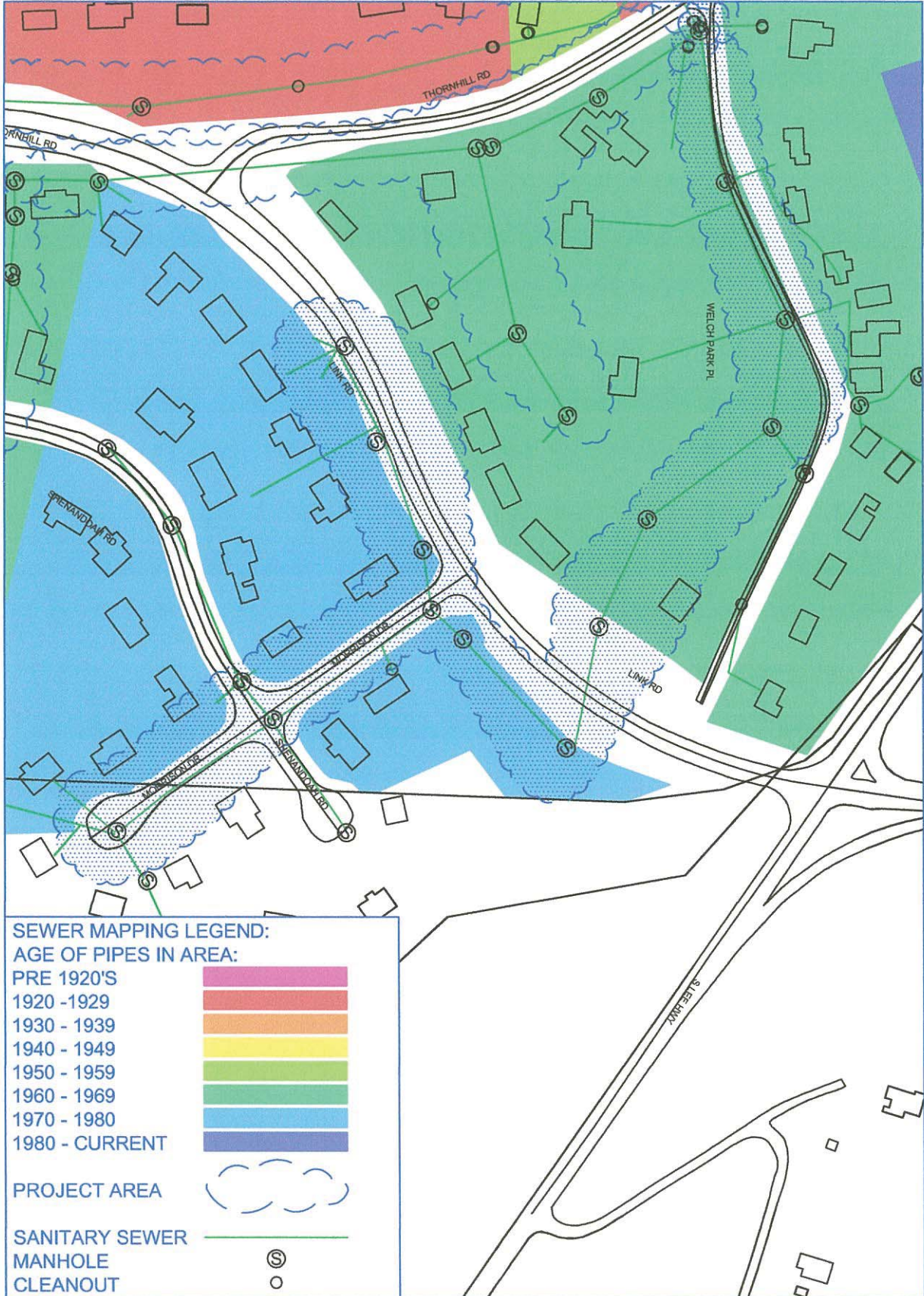
Requesting Department:	Public Works
Category:	Wastewater
Title:	Morrison Drive, Link Road, Welch Park Place Wastewater Collection Line
Status:	No Change

Description:	This project replaces approximately 2,335 feet of existing gravity sewer pipe and associated laterals along Morrison Drive, Link Road at Morrison Drive, and Welch Park Place. Existing service connections to residences will be replaced from the sewer line to the property lines with new 4 inch laterals and a cleanout.
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Justification:	The existing collection line was constructed partially in the 1960's and the Morrison Drive portion was constructed in the 1980's. The line has a history of inflow and infiltration problems.
----------------	--

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$547,382	\$547,382
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$547,382	\$547,382





**CIP PROJECT REQUEST**

UF-151

Requesting Department:	Public Works
Category:	Wastewater
Title:	Shenandoah Road Wastewater Collection Line
Status:	No Change

Description:	This project replaces approximately 1,300 feet of existing gravity sewer pipe and associated laterals along Shenandoah Road from McCormick Street to the County Line. Existing service connections to residences will be replaced from the sewer line to the property lines with new 4 inch laterals and a cleanout.
--------------	--

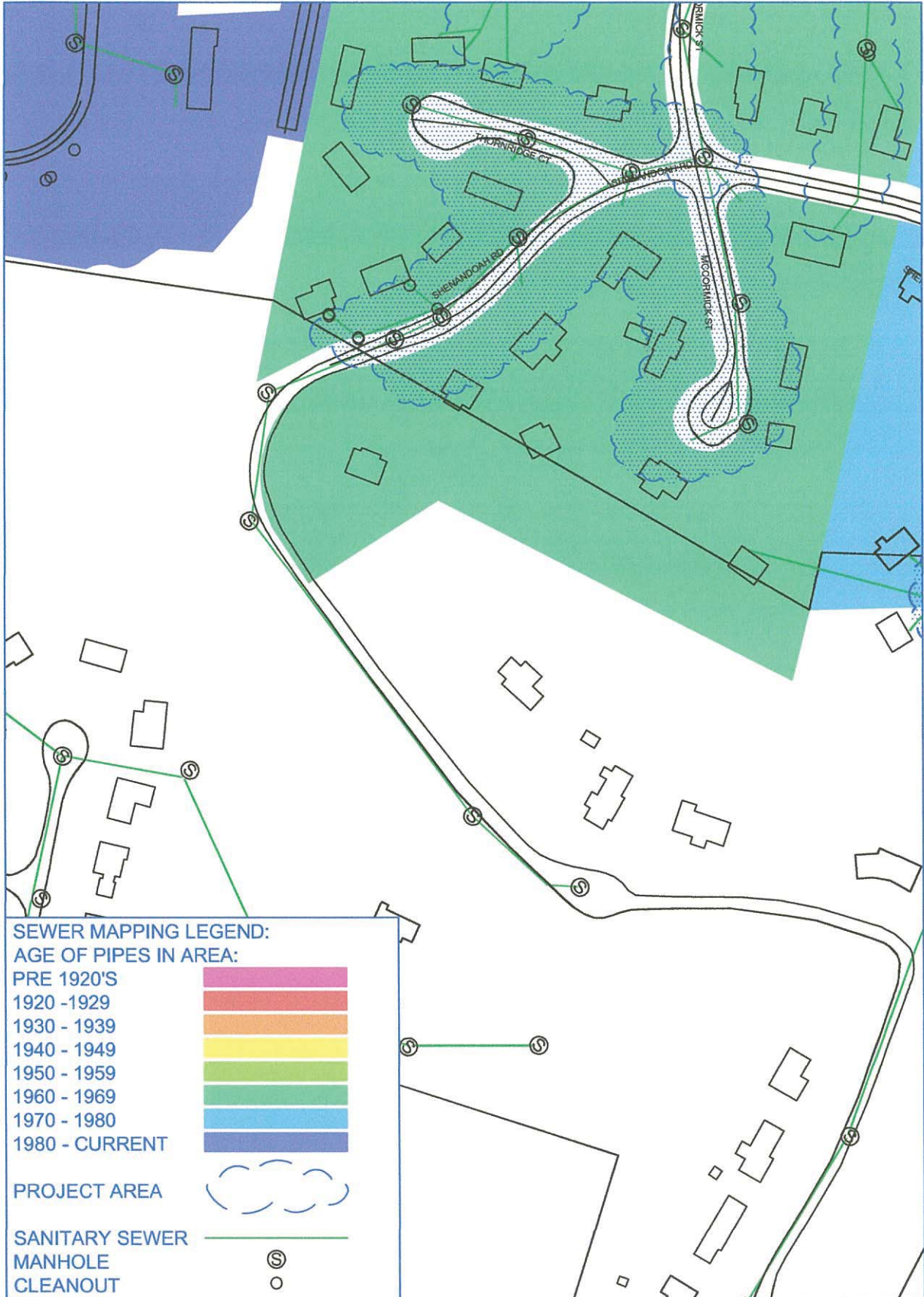
Justification:	The existing collection line was constructed partially in the 1960's. The line has a history of inflow and infiltration problems.
----------------	---

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$354,903	\$354,903
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$354,903	\$354,903

CITY OF LEXINGTON - CAPITAL IMPROVEMENTS PLAN  
 PROVIDENCE BASIN - SHENANDOAH ROAD WASTEWATER COLLECTION LINE

CIP# UF-151





**CIP PROJECT REQUEST**

UF-153

Requesting Department:	Public Works
Category:	Wastewater
Title:	McMath Circle Wastewater Collection Line
Status:	No Change

Description:	This project replaces approximately 500 feet of existing gravity sewer pipe and associated laterals in the vicinity of the McMath Circle cul-de-sac. Existing service connections to residences will be replaced from the sewer line to the property lines with new 4 inch laterals and a cleanout.
--------------	---

Justification:	The existing collection line was constructed partially in the 1950's and 60's. The line has a history of inflow and infiltration problems.
----------------	--

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$130,639	\$130,639
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$130,639	\$130,639

CITY OF LEXINGTON - CAPITAL IMPROVEMENTS PLAN  
 PROVIDENCE BASIN - McMATH CIRCLE WASTEWATER COLLECTION LINE

CIP# UF-153



Gross, Matt / 7/27/2015 1:15 PM / \naaprojects\projects\3131848\31848\_eng\engineering\design\plans\31848\_base\_mapping.dwg





**CIP PROJECT REQUEST**

UF-155

Requesting Department:	Public Works
Category:	Wastewater
Title:	Colston Street Wastewater Collection Line
Status:	No Change

Description:	This project replaces approximately 1,465 feet of existing gravity sewer pipe and associated laterals from Sunset Drive to the Woods Creek Interceptor. Existing service connections to residences will be replaced from the sewer line to the property lines with new 4 inch laterals and a cleanout.
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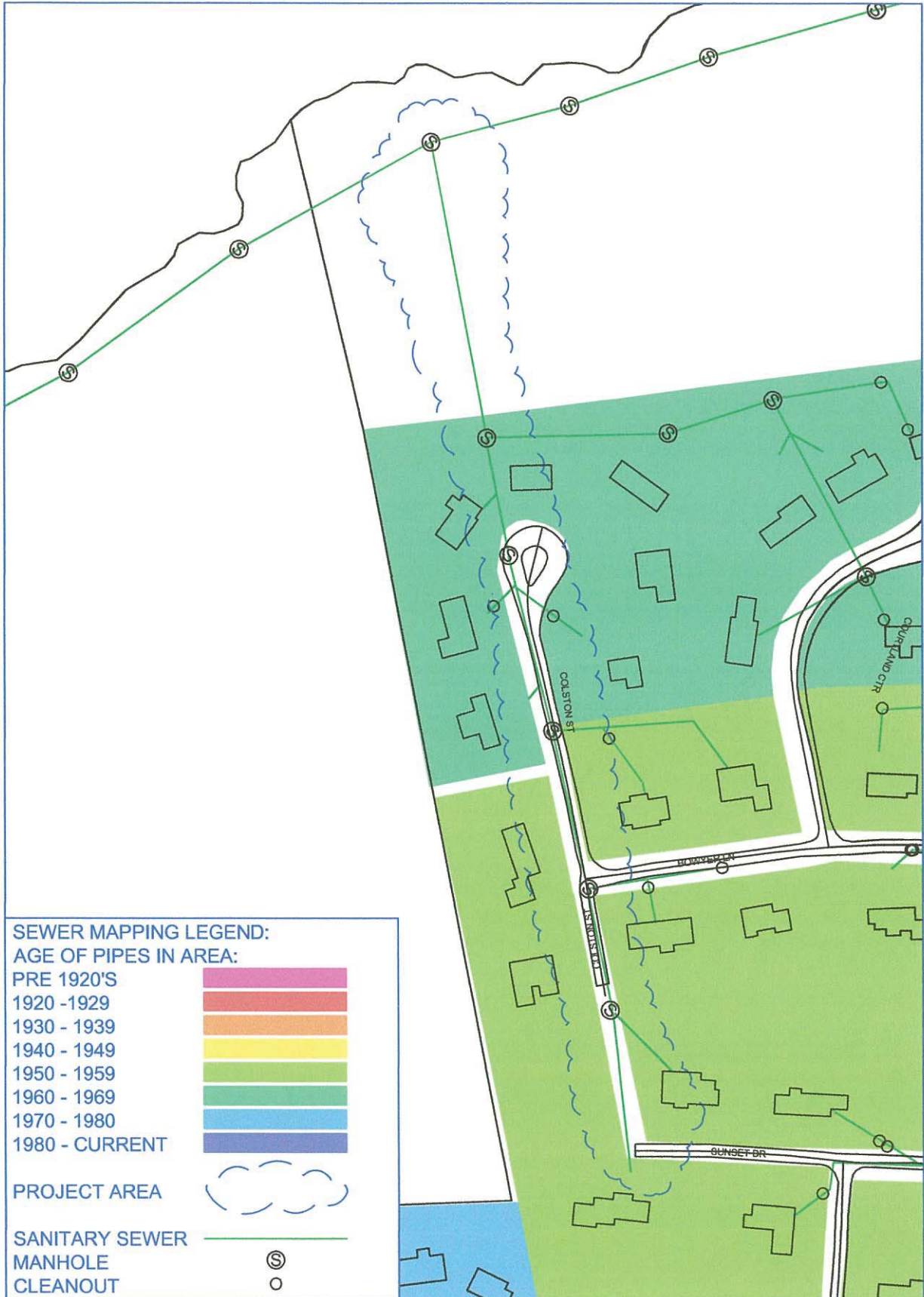
Justification:	The existing collection line was constructed partially in the 1950's and 60's. The line has a history of inflow and infiltration problems.
----------------	--

Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$339,742	\$339,742
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$339,742	\$339,742

CITY OF LEXINGTON - CAPITAL IMPROVEMENTS PLAN  
 PROVIDENCE BASIN - COLSTON STREET WASTEWATER COLLECTION LINE

CIP# UF-155



**SEWER MAPPING LEGEND:**  
**AGE OF PIPES IN AREA:**

PRE 1920'S	
1920 - 1929	
1930 - 1939	
1940 - 1949	
1950 - 1959	
1960 - 1969	
1970 - 1980	
1980 - CURRENT	

**PROJECT AREA**

**SANITARY SEWER**

**MANHOLE**

**CLEANOUT**



**CIP PROJECT REQUEST**

UF-157

Requesting Department:	Public Works
Category:	Wastewater
Title:	Hamric Street Area Wastewater Collection Line
Status:	No Change

Description:	This project replaces about 1,335 feet of existing gravity sewer pipe and associated laterals along Hamric Street and Welch Park Place from Thornhill Road to Sunset Drive. Existing service connections to residences will be replaced from the sewer line to the property lines with new 4 inch laterals and a cleanout.
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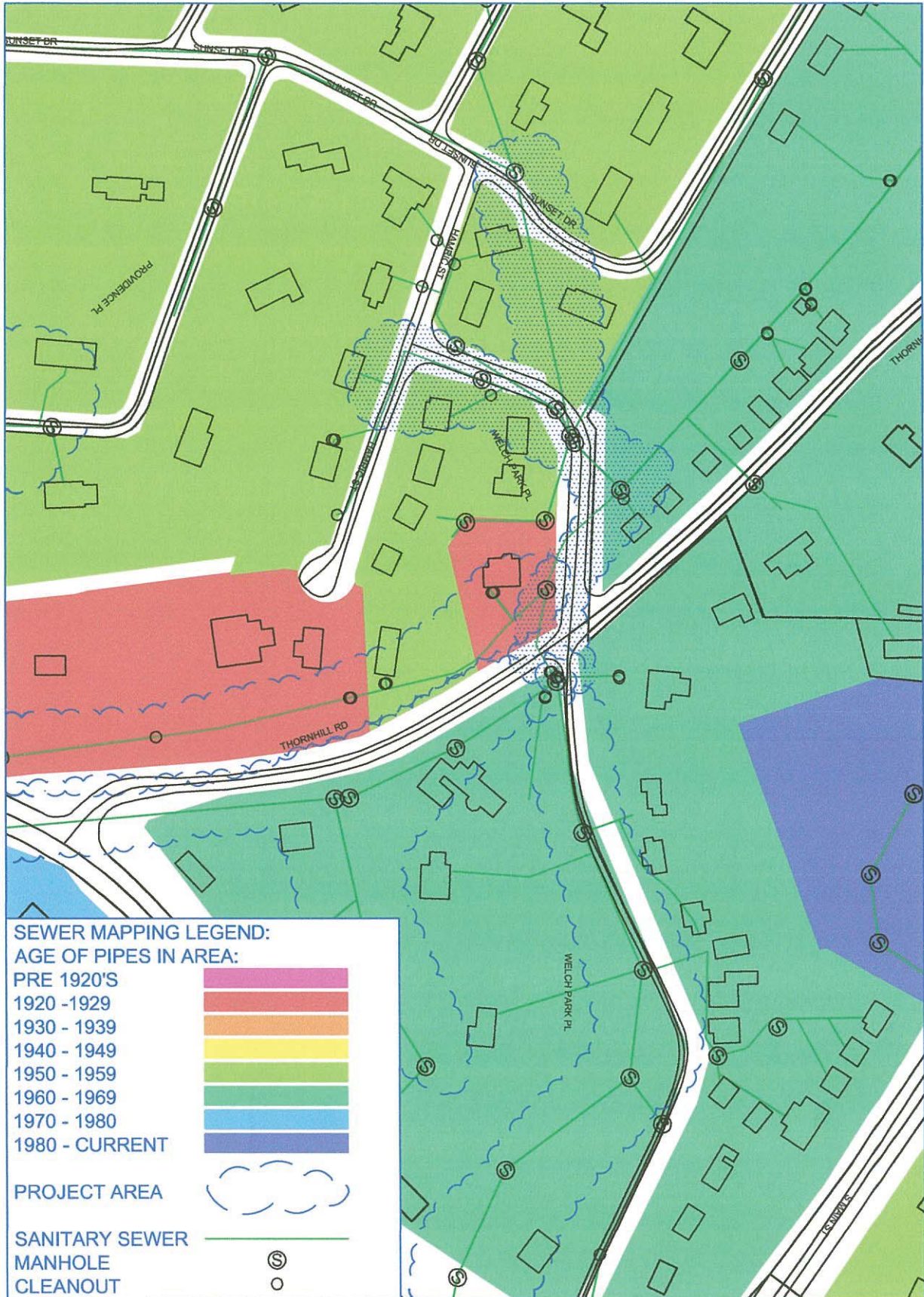
Justification:	The existing collection line was constructed partially in the 1950's and 60's with a portion going back to the 1920's. The line has a history of inflow and infiltration problems.
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Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$320,158	\$320,158
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$320,158	\$320,158

CITY OF LEXINGTON - CAPITAL IMPROVEMENTS PLAN  
 PROVIDENCE BASIN - HAMRIC STREET AREA WASTEWATER COLLECTION LINE

CIP# UF-157





**CIP PROJECT REQUEST**

UF-159

Requesting Department:	Public Works
Category:	Wastewater
Title:	Thornhill Road Wastewater Collection Line
Status:	No Change

Description:	This project replaces about 2,600 feet of existing gravity sewer pipe and associated laterals on both sides of Thornhill Road from McCormick Street to Welch Park Place. Existing service connections to residences will be replaced from the sewer line to the property lines with new 4 inch laterals and a cleanout.
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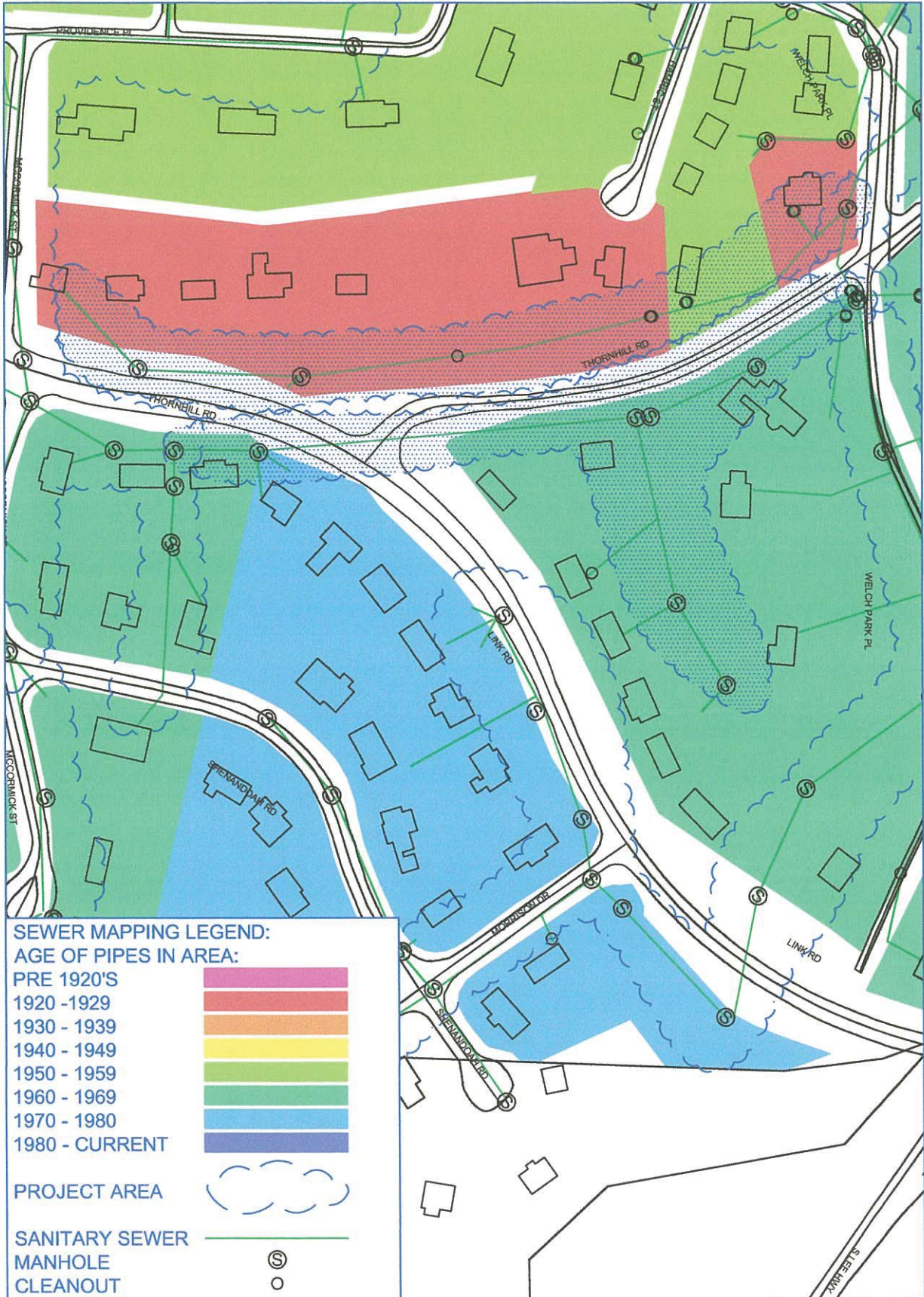
Justification:	The existing collection line was constructed partially in the 1960's with a significant portion that was constructed in the 1920's. Some of the lines are aged terra cotta pipe in various levels of condition. The line has a history of maintenance and inflow and infiltration problems.
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Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

<b>Funding Summary</b>							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$488,152	\$488,152
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$488,152	\$488,152

CITY OF LEXINGTON - CAPITAL IMPROVEMENTS PLAN  
 PROVIDENCE BASIN - THORNHILL ROAD WASTEWATER COLLECTION LINE

CIP# UF-159





**CIP PROJECT REQUEST**

UF-161

Requesting Department:	Public Works
Category:	Wastewater
Title:	Providence Place & McCormick Street Wastewater Collection Line
Status:	No Change

Description:	This project replaces approximately 2,490 feet of existing gravity sewer pipe and associated laterals in the vicinity of Providence Place and McCormick Street and Thornhill Road and McCormick Street. Existing service connections to residences will be replaced from the sewer line to the property lines with new 4 inch laterals and a cleanout.
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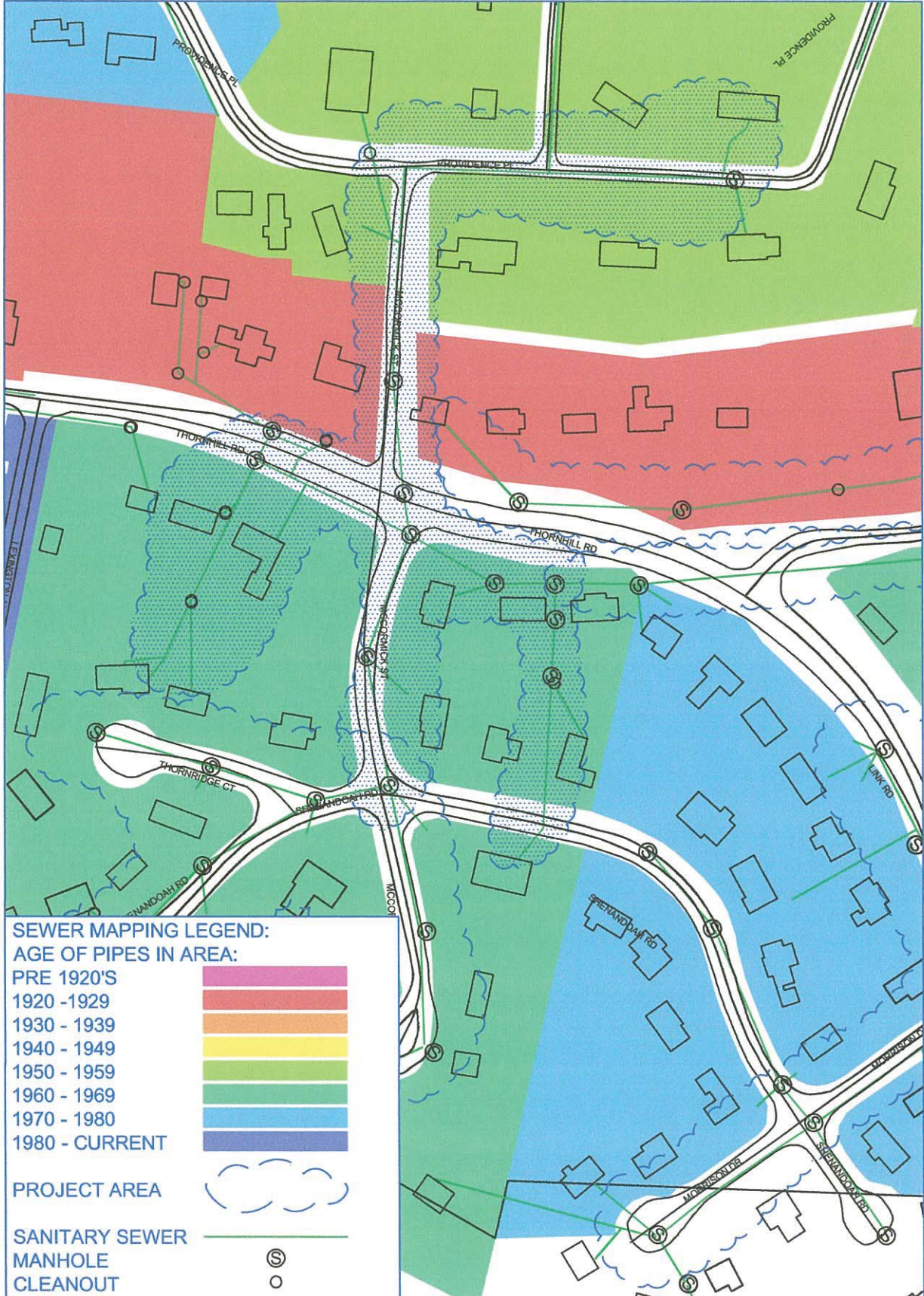
Justification:	The existing collection line was constructed partially in the 1950-60's. The line has a history of maintenance and inflow and infiltration problems.
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Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

<b>Funding Summary</b>							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$553,365	\$553,365
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$553,365	\$553,365

CITY OF LEXINGTON - CAPITAL IMPROVEMENTS PLAN  
 PROVIDENCE BASIN - PROVIDENCE PLACE & McCORMICK WASTEWATER COLLECTION LINE

CIP# UF-161







**CIP PROJECT REQUEST**

UF-163

Requesting Department:	Public Works
Category:	Wastewater
Title:	Ruffner Place Wastewater Collection Line
Status:	No Change

Description:	This project replaces approximately 850 feet of existing gravity sewer pipe and associated laterals along Ruffner Place from Country Club Road to the cul-de-sac. Existing service connections to residences will be replaced from the sewer line to the property lines with new 4 inch laterals and a cleanout.
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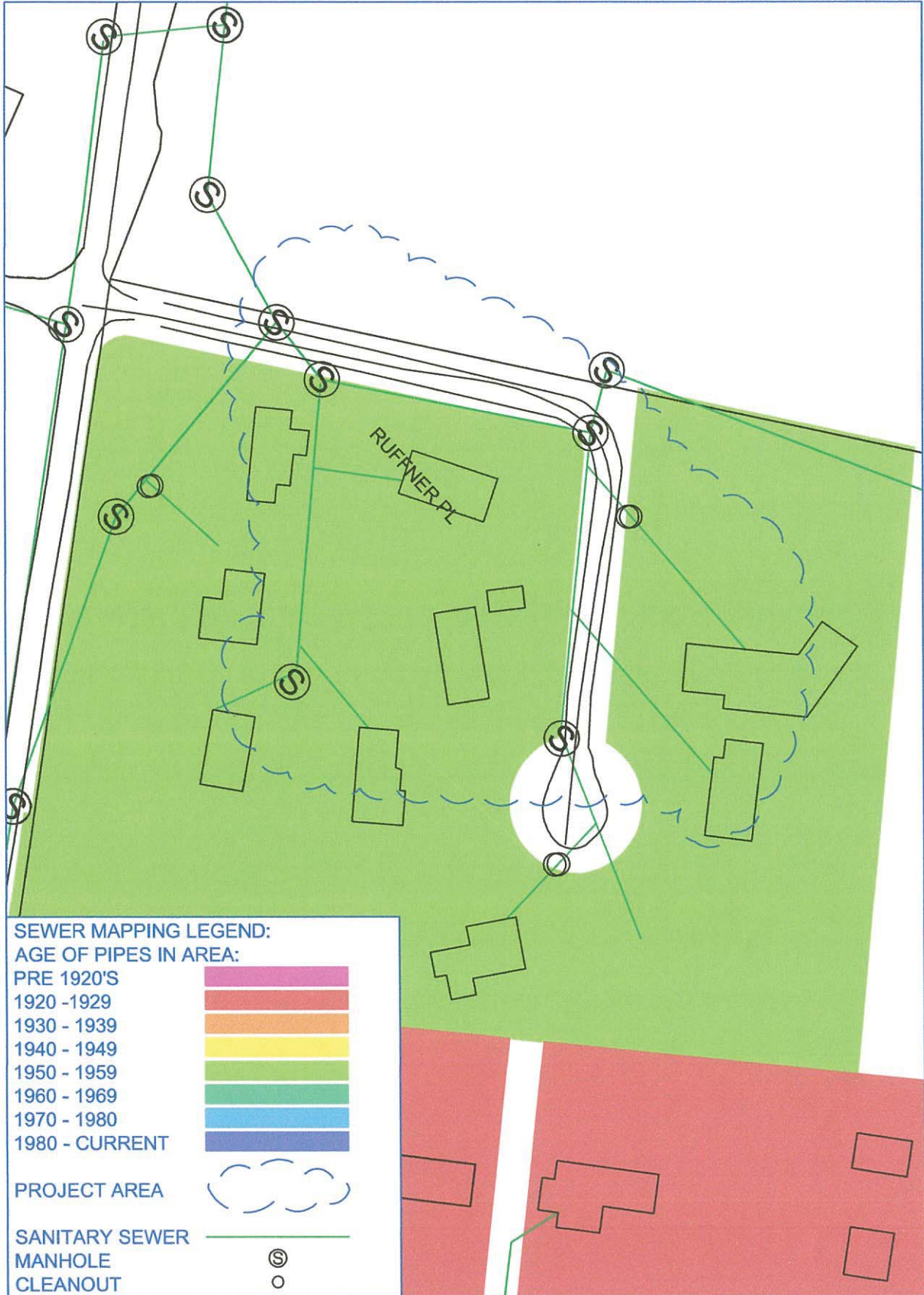
Justification:	The existing collection line was constructed partially in the 1950's. The line has a history of maintenance and inflow and infiltration problems. The lines are also currently being treated on a continuing basis for root intrusion.
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Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$235,382	\$235,382
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$235,382	\$235,382

CITY OF LEXINGTON - CAPITAL IMPROVEMENTS PLAN  
 PROVIDENCE BASIN - RUFFNER PLACE WASTEWATER COLLECTION LINE

CIP# UF-163





**CIP PROJECT REQUEST**

UF-165

Requesting Department:	Public Works
Category:	Wastewater
Title:	VMI Master Meter Installation
Status:	No Change

Description:	This project will install a 12” metering manhole and new meter parallel to the existing gravity sewer pipe between the rock box and the siphons at Jordan’s Point Park.
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Justification:	The Maury Service Authority owns and operates a 12” parshall flume on the County side of the siphons that is supposed to be used for the master metering of flows coming from the City of Lexington. The proposed meter would be installed inside the City’s gravity sewer system and could be used to check against the meter owned by the Authority.
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Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$223,181	\$223,181
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$223,181	\$223,181

CITY OF LEXINGTON - CAPITAL IMPROVEMENTS PLAN  
 VMI BASIN - MASTER METER IMPROVEMENT

CIP# UF-165



**SEWER MAPPING LEGEND:**  
**AGE OF PIPES IN AREA:**

PRE 1920'S	[Pink bar]
1920 - 1929	[Red bar]
1930 - 1939	[Orange bar]
1940 - 1949	[Yellow bar]
1950 - 1959	[Light Green bar]
1960 - 1969	[Green bar]
1970 - 1980	[Blue bar]
1980 - CURRENT	[Dark Blue bar]

**PROJECT AREA** [Blue dashed line symbol]

**SANITARY SEWER** [Green line symbol]

**MANHOLE** [Circle with 'S' symbol]

**CLEANOUT** [Small circle symbol]



**CIP PROJECT REQUEST**

UF-167

Requesting Department:	Public Works
Category:	Wastewater
Title:	Marshall Street Wastewater Collection Line
Status:	No Change

Description:	This project replaces about 580 feet of 6-inch wastewater collection line on Marshall Street with new 8-inch PVC line. Existing service line connections to residences will be replaced to the property line and will include cleanouts.
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Justification:	The existing collection line is aged terra cotta pipe in poor structural condition. Frequent line backups occur, typically as a result of pipe failure, which requires excavation to perform point repairs. Owing to the poor condition of the line, it is likely subject to groundwater infiltration after rainfall.
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Estimated Annual Operating Cost:	N/A
Work Performed:	Contract

Funding Summary							
Funding Source	2018/19	2019/20	2020/21	2021/22	2022/23	Not Yet Programmed	Total
Utility Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$124,630	\$124,630
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$124,630	\$124,630

# Replace Marshall Street Wastewater Collection Line

CIP# UF-167

