

### FLUVANNA COUNTY BOARD OF SUPERVISORS REGULAR MEETING AGENDA

Carysbrook Performing Arts Center 8880 James Madison Hwy, Fork Union, VA 23055 August 2, 2023 at 5:00 pm

### TAB AGENDA ITEMS

- 1 CALL TO ORDER
- 2 PLEDGE OF ALLEGIANCE AND MOMENT OF SILENCE
- 3 ADOPTION OF AGENDA

#### **SPECIAL PRESENTATION**

A Resolution of Commendation and Appreciation for Paige Tomaras, Zach Butler, and Savannah Peterson – Eric Dahl, County Administrator

### 4 - COUNTY ADMINISTRATOR'S REPORT

- **5 PUBLIC COMMENTS #1** (5 minutes each)
- 6 PUBLIC HEARING

#### 7 – ACTION MATTERS

- B FY23 BOS Contingency Budget Transfer County Attorney Budget Eric Dahl, County Administrator
- C Budget Calendar Tori Melton, Director of Finance
- D Resolution of Support for Line Of Duty Act Eric Dahl, County Administrator
- Palmyra Village Streetscape Project VDOT: Transportation Alternatives Program Grant Update— Eric Dahl, County Administrator

### **7A – APPOINTMENTS**

- F Board, Commission, and Committee Appointments Eric Dahl, County Administrator
- 8 PRESENTATIONS (normally not to exceed 10 minutes each)
- G Zion Crossroads Route 250 / Route 15 Wastewater Preliminary Engineering Report Eric Dahl, County Administrator
- H Dogs Running at Large Ordinance Dan Whitten, County Attorney
- Truckers/Tractor Trailer Signage on Rt. 600/618 Eric Dahl County Administrator
- J JRWA Project Cost Update Eric Dahl, County Administrator

### 9 - CONSENT AGENDA

- K Minutes of July 5, 2023 Caitlin Solis, Clerk to the Board
- Blue Ridge Area Food Bank Partner Impact & Innovation Grant Kelly Harris, Assistant County
  Administrator

### **10 – UNFINISHED BUSINESS**

**TBD** 

### 11 – NEW BUSINESS

Fluvanna County is committed to providing an excellent quality of life for our citizens and businesses through the efficient delivery of core services and programs, while preserving the unique identity and rural character of the County.

TBD

12 - PUBLIC COMMENTS #2 (5 minutes each)

13 - CLOSED MEETING

TBD

14 - ADJOURN

County Administrator Review

#### PLEDGE OF ALLEGIANCE

I pledge allegiance, to the flag, of the United States of America, and to the Republic for which it stands, one nation, under God, indivisible, with liberty and justice for all.

### **GENERAL RULES OF ORDER**

- 1. It shall be the duty of the Chairman to maintain order and decorum at meetings. The Chairman shall speak to points of order in preference to all other members.
- 2. In maintaining decorum and propriety of conduct, the Chairman shall not be challenged and no debate shall be allowed until after the Chairman declares that order has been restored. In the event the Board wishes to debate the matter of the disorder or the bringing of order; the regular business may be suspended by vote of the Board to discuss the matter.
- 3. No member or citizen shall be allowed to use defamatory or abusive language directed at any member of the Board or other person, to create excessive noise, or in any way incite persons to use such tactics. The Chair shall be the judge of such breaches, however, the Board may by majority vote of the Board members present and voting to overrule the judgment of the Chair.
- 4. When a person engages in such breaches, the Chairman shall order the person's removal from the building, or may order the person to stand silent, or may, if necessary, order the person removed from the County property.

### **RULES OF PROCEDURE FOR PUBLIC HEARINGS**

#### 1. PURPOSE

- The purpose of a public hearing is to receive testimony from the public on certain resolutions, ordinances or amendments prior to taking action.
- A hearing is not a dialogue or debate. Its express purpose is to receive additional facts, comments and opinion on subject items.

### 2. SPEAKERS

- Speakers should approach the lectern so they may be visible and audible to the Board.
- Each speaker should clearly state his/her name and address.
- All comments should be directed to the Board.
- All questions should be directed to the Chairman. Members of the Board are not expected to respond to questions, and response to questions shall be made at the Chairman's discretion.
- Speakers are encouraged to contact staff regarding unresolved concerns or to receive additional information.
- Speakers with questions are encouraged to call County staff prior to the public hearing.
- Speakers should be brief and avoid repetition of previously presented comments.

#### 3. ACTION

- At the conclusion of the public hearing on each item, the Chairman will close the public hearing.
- The Board will proceed with its deliberation and will act on or formally postpone action on such item prior to proceeding to other agenda items.
- Further public comment after the public hearing has been closed generally will not be permitted.

TAB A

MEETING DATE:	August 2, 20	August 2, 2023						
AGENDA TITLE:		Resolution of Commendation and Appreciation for Paige Tomaras, Zach Butler, and Savannah Peterson						
MOTION(s):		move the Board of Supervisor approve a resolution entitled "Resolution of ommendation and Appreciation for Paige Tomaras, Zach Butler, and Savannah eterson"						
BOS 2 YEAR GOALS?	Yes		No X		If yes, which go	al(s):		
AGENDA CATEGORY:	Public Hear	ing	Action M	atter	Presentation		onsent genda	Other
			X					
STAFF CONTACT(S):	Eric Dahl, Co	ounty	y Administ	rator				
PRESENTER(S):	Eric Dahl, Co	ric Dahl, County Administrator						
RECOMMENDATION:	Approve	Approve						
TIMING:	Immediate							
DISCUSSION:	•		_	_	omaras, Zach Butl to Lake Monticell		d Savannah	n Peterson saved
FISCAL IMPACT:	N/A							
POLICY IMPACT:	N/A	N/A						
LEGISLATIVE HISTORY:	N/A							
ENCLOSURES:	None.	None.						
REVIEWS COMPLETED:	Legal	Legal Finance Purchasing HR Other					Other	



### **BOARD OF SUPERVISORS**

County of Fluvanna Palmyra, Virginia

### **RESOLUTION No. 21-2023**

### Resolution of Commendation and Appreciation For Paige Tomaras, Zach Butler, and Savannah Peterson

WHEREAS, on Thursday, July 6, 2023, on-duty Lake Monticello life guards, Paige Tomaras, Zach Butler, and Savannah Peterson put their training into action, rescuing a motorist experiencing a medical emergency; and

WHEREAS, Paige Tomaras witnessed the car crash through the pool fence, proceed across the pool deck and through the other side of the fence, continue down the hill and across Beach 1, before coming to rest in the Lake; and

WHEREAS, Paige Tomaras having alerted Savannah Peterson and Zach Butler, the lifeguards then gathered their gear and ran to the beach, finding the car rapidly filling with water; and

WHEREAS, Zach Butler removed the driver from the submerging vehicle, Savannah Peterson and others helped the driver out of the water and onto a spine board; and

**WHEREAS**, these joint lifesaving-actions, taken by this team of lifeguards, assisted by Lake Monticello maintenance staff Josh Huntington and Travis Perry, as well as Lake Monticello residents Mark Post and Kerri Lambert, resulted in a successful and happy outcome.

**NOW THEREFORE BE IT RESOLVED,** the Fluvanna County Board of Supervisors does hereby recognize and extend our heartfelt gratitude to Paige Tomaras, Zach Butler, and Savannah Peterson, for their quick thinking and selfless actions. The Board also thanks the Lake Monticello staff and residents who assisted and called 911, and the quick response of Emergency Services. It is no understatement to proclaim that it was these combined efforts that saved the life of the driver.

THE FOREGOING RESOLUTION WAS DULY AND REGULARLY ADOPTED by the Fluvanna County Board of Supervisors of Fluvanna County on this 2nd day of August 2023.

	AYE	NAY	ABSTAIN	ABSENT	MOTION	SECOND
Mozell H. Booker, Fork Union District						
Patricia B. Eager, Palmyra District						
Chris Fairchild, Cunningham District						
Anthony P. O'Brien, Rivanna District						
John M. Sheridan, Columbia District						

Mozell H. Booker, Chair	-
Fluvanna County Board of Supervisors	

Attest:

TAB B

MEETING DATE:	August 2, 2023						
AGENDA TITLE:	FY23 BOS Conti	ngency B	udget Tra	ansfer – County At	torney Budget		
MOTION(s):		-		approve a budget the FY23 County			
BOS 2 YEAR GOALS?	Yes	No X	If ves. which goal(s):				
AGENDA CATEGORY:	Public Hearing	Action	n Matter Presentation Consent Agenda Ot				
				Х			
STAFF CONTACT(S):	Eric Dahl, Coun	ty Admini	istrator				
PRESENTER(S):	Eric Dahl, Coun	ty Admini	istrator				
RECOMMENDATION:	Approve	Approve					
TIMING:	Routine						
DISCUSSION:	June 2023 for  The main dri  Leg  cor  exp  Att  vac  inv  Leg  cor  rela  Fire  De  A budget tra  bring the Co  If approved,  from \$232,7  If approved,  \$92,006.96 to	or legal se ver for in (al – Procentracts/ag perienced orney off (ant for 3 olvement (al – Specialed to the Protectionartment (as e Protectionartment (al ) at (al )	rvices. creased curement: greement with con ice involv months ( ) ial: The C ger ones e Zion Cr on and P of Emerg 691,625 fi rney line get transf 4,328. get transf 6.	costs are related to The County had a sin FY23, the prior of tracts/agreement rement) and the Prequired more Costounty had major of being Chapter 21 cossroads water arublic Safety relate gency Services. From BOS Continger under budget for er will increase the prior of the prior	o: an increase in the or Purchasing Office or continuity Attorney of cordinances updated water and Sewand sewer projected to the Fluvannater of th	e number of cer wasn't as e County r position was fice ted, with a ge Disposal and Chapter 8 a County anded in order to	

		Fiscal Year County Attorney Costs:						
			FY16 - \$202,811					
		FY17 - \$271,879						
			FY18 - \$244,959*					
			FY19 - \$198,087*					
			FY20 - \$194,287*					
			FY21 - \$194,303*					
			FY22 - \$268,627*					
			FY23 - \$324,328*					
	*							
		•	ecifically related t					
		-	ate acquisition, co					
	_	costs are reflecte	d separately in the	e Zion Crossroads	enterprise			
	fund budget.		م معمد ما النب معمد	o EV22 DOC Comb				
FISCAL IMPACT:	• •		above will decreas		ngency and			
	ilicrease the F12	.5 County Attorne	y budget by \$91,6	23				
POLICY IMPACT:	N/A							
LEGISLATIVE HISTORY:	N/A							
ENCLOSURES:	FY23 County Attorney Budget Report							
	Legal	Finance	Purchasing	HR	Other			
REVIEWS COMPLETED:		х						

### **COUNTY OF FLUVANNA**



### YEAR-TO-DATE BUDGET REPORT

FOR 2023 12						
	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE PCT BUDGET USED
100 GENERAL FUND						
125 COUNTY ATTORNEY						
10012500 401100 SAL & WAGE 10012500 402100 FICA 10012500 402210 VRS 10012500 402400 GRPLIFE 10012500 403101 LEGAL-GEN 10012500 403102 LEGAL-RE 10012500 403103 LEGAL-PROC 10012500 403104 LEGAL-LITG 10012500 403105 LEGAL-SPEC 10012500 403500 PRINTING 10012500 405230 TELECOMM 10012500 406001 OFFSUPL 10012500 408107 EDPEQUIP	0 0 0 120,000 15,000 45,000 25,000 15,000 0 0	10,808 827 923 145 0 0 0 0 0 0	10,808 827 923 145 120,000 15,000 25,000 15,000 0 0 0	10,807.69 827.56 .00 10.00 100,000.00 15,406.30 111,556.20 28,530.78 55,244.15 28.00 274.83 111.86 1,530.46	.00 .00 .00 .00 .00 .00 .00 .00 .00	.31 100.0% 56 100.1% 923.00 .0% 135.00 6.9% 20,000.00 83.3% -406.30 102.7% -66,556.20 247.9% -3,530.78 114.1% -40,244.15 368.3% -28.00 100.0% -274.83 100.0% -111.86 100.0% -1,530.46 100.0%
TOTAL COUNTY ATTORNEY	220,000	12,703	232,703	324,327.83	.00	-91,624.83 139.4%
TOTAL GENERAL FUND	220,000	12,703	232,703	324,327.83	.00	-91,624.83 139.4%
TOTAL EXPENSES	220,000	12,703	232,703	324,327.83	.00	-91,624.83
GRAND TOTAL	220,000	12,703	232,703	324,327.83	.00	-91,624.83 139.4%

<sup>\*\*</sup> END OF REPORT - Generated by Eric Dahl \*\*

TAB C

MEETING DATE:	August 2, 2	August 2, 2023					
AGENDA TITLE:	FY25 Budge	FY25 Budget Calendar					
MOTION(s):	I move the presented.	move the Board of Supervisors approve the FY25 Budget Calendar, as presented.					
STRATEGIC INITIATIVE?	Yes		No	!	f yes, list initiativ	/e(s):	
	Public Heari		X Action I	Matter	Presentation	Consent Agenda	Other
AGENDA CATEGORY:			х	,			
STAFF CONTACT(S):	Tori Melton,	Fina	nce Dire	ctor			
PRESENTER(S):	Tori Melton,	Tori Melton, Finance Director					
RECOMMENDATION:	Approve	Approve					
TIMING:	Routine						
DISCUSSION:	None						
FISCAL IMPACT:	N/A						
POLICY IMPACT:	In accordance with Fluvanna County Budget Policy, Code of Virginia 58.1-3321 and Code of Virginia 15.2-2506						
LEGISLATIVE HISTORY:	N/A						
ENCLOSURES:	FY25 Budget	Cale	endar Dra	aft			
REVIEWS COMPLETED:	Legal		Fina		Purchasing	HR	Other
THE VIEWS CONTRICTED.			Х	,			

60	JI A		BOS2023-0	08-02	2 p.′	15/2	12			
		<b>FY25 BUDGET CALEN</b>	DAR				Ī	ıst 2,		3
V.	771			_				Close		
DAY	DATE	DESCRIPTION	TIME/LOCATION	Su	M	Т		Th	F	Sa
T		CIDD 1 4 D 1 4 D 1	Finance Funcil		T .		g-20			_
Tue	Aug 1	CIP Packet Released	Finance Email	-	-	1	2	3	4	5
Wed	Aug 2	BOS Regular Meeting	5:00 pm; Carysbrook PAC	13	7	8	9 16		11	12
Wed	Aug 16	BOS Regular Meeting	7:00 pm; Carysbrook PAC		_				18	_
				20 27			23 30		25	26
				27	28	29	30	31		_
					<u> </u>	So	p-20	22		
Fri	Sep 1	CIP Submissions Due to Finance	5:00 pm; Email Finance		1	36	p-20		1	2
Wed	Sep 6	BOS Regular Meeting	5:00 pm; Carysbrook PAC	3	4	5	6	7	8	9
Mon	Sep 11	County Administrator's CIP Review Committee	3:00pm Morris Room	10			13			1
Wed	Sep 20	BOS Regular Meeting	7:00 pm; Carysbrook PAC	17			20		22	2
vveu	3ep 20	BOS Regular Meeting	7.00 pm, carysbrook FAC					28		
				27	23		t-20		23	٥,
Wed	Oct 4	BOS Regular Meeting	5:00 pm; Carrysbrook PAC	1	2	3	4	5	6	7
Tues	Oct 10	Planning Commission Work Session/Meeting - CIP Review	6:00 pm; Carysbrook PAC	8	9	_	11		13	
Wed	Oct 18	BOS Regular Meeting	7:00 pm; Carysbrook PAC	15			18			2
Fri	Oct 20	FY25 Operating Budget Kick-Off	Budget Packet Email	22				26		2
	00120	1123 Operating Budget New On	Budget i deket Email	29			23	20		_
	I			123	, 55		v-20	23		
Wed	Nov 1	BOS Regular Meeting	5:00 pm; Carysbrook PAC				1	2	3	4
Wed	Nov 8	Planning Commission Work Session/Meeting - CIP Review	6:00 pm; Carysbrook PAC	5	6	7	8		10	
Wed	Nov 15	BOS Regular Meeting	7:00 pm; Carysbrook PAC	12		14			17	1
Wed	Nov 22	Operating Budgets Due to Finance (COB)	Email to Finance	19		_		23		
				26			29			
						_	c-20	_		
	Dec 4-8	County Administrator Oper. Budget Reviews w/ CO's, DH's, & Agencies	TBD; Morris Room						1	2
Wed	Dec 6	BOS Regular Meeting	5:00 pm; Carysrbook PAC	3	4	5	6	7	8	9
Wed	Dec 6	BOS Work Session - FCPS And County Preliminary Budget Discussion	7:00 pm; TBD	10		_	13	14	15	10
Tues	Dec 12	Planning Commission Meeting - CIP Public Hearing/Recommendation	6:00 pm; Carysbrook PAC	17			20		22	2:
Wed	Dec 20	BOS Budget Work Session - Non-Profit Presentations	5:00 pm; Carysbrook PAC	24			27		29	
Wed	Dec 20	BOS Regular Meeting	7:00 pm; Carysbrook PAC	31						
	-					Ja	n-20	24		
Wed	Jan 3	BOS Regular Meeting	5:00 pm; Carysbrook PAC		1	2	3	4	5	6
Wed	Jan 17	BOS Budget Work Session - Non-Profit Presentations	5:00 pm; Carysbrook PAC	7	8	9	10	11	12	1
Wed	Jan 17	BOS Regular Meeting	7:00 pm; Carysbrook PAC	14	15	16	17	18	19	2
	Jan 29-31	BOS Budget Briefs	TBD; TBD	21	22			25	26	2
				28	29	30	31			
						Fe	b-20	24		
Wed	Feb 7	BOS Regular Meeting	5:00 pm; Carysbrook PAC					1	2	3
		County Administrator's FY25 Budget Proposal and Revenue/Expenditure Brief	7:00 pm; Carysbrook PAC	4	5	6	7	8	9	10
Wed	Feb 7	School Board Work Session - Superintendent's Budget (TBD) and Public Hearing	5:30 pm; School Board	11				15		
Wed	Feb 14	School Board Meeting - Budget Adoption (TBD)	6:30 pm; School Board	18			21		23	2
Wed	Feb 21	BOS Budget Work Session - FCPS FY25 Adopted Budget Presentation	5:00 pm; Carysbrook PAC	25	26	27	28	29		
Wed	Feb 21	BOS Regular Meeting	7:00 pm; Carysbrook PAC							
Wed	Feb 28	BOS Budget Work Session - County Agency Briefs & Constitutional Officer Briefs	TBD pm; Carysbrook PAC							
						Ma	ir-20	24		
Ned	Mar 6	BOS Regular Meeting	5:00 pm; Carysbrook PAC	_					1	
Wed	Mar 6	BOS Budget Work Session - County Department Briefs/CIP Review	7:00 pm; Carysbrook PAC	3	4	5	6	7	8	•
Wed	Mar 13	BOS Budget Work Session	TBD pm; Carysbrook PAC	10			13		15	
Wed	Mar 20	BOS Budget Work Session	5:00 pm; Carysbrook PAC	17		19			22	
Ned	Mar 20	BOS Regular Meeting - Set Proposed FY25 Budget & CY24 Tax Rates for Advertising	7:00 pm; Carysbrook PAC	24		26	27	28	29	3
Ned	Mar 27	BOS Budget Work Session - TBD	TBD pm; Carysbrook PAC	31						L
							r-20			
Ved	Apr 3	BOS Regular Meeting	5:00 pm; Carysbrook PAC		1	2	3	4	5	-
Wed	Apr 3	BOS Budget Work Session - TBD	7:00 pm; Carysbrook PAC	7	8	9	10	11	12	1
Wed	Apr 10	BOS Special Meeting		14	15	16	17	18	19	2
	·	- Public Hearing for FY25 Budget and CY24 Tax Rate	7:00 pm; Carysbrook PAC							
Wed	Apr 17	BOS Regular Meeting - Adopt FY25 Budget and CY24 Tax Rate *	7:00 pm; Carysbrook PAC	21			24	25	26	2
Wed	Apr 24	BOS Special Meeting - TBD - Adopt FY25 Budget and CY24 Tax Rate *	7:00 pm; Carysbrook PAC	28	29	30				L
	•	1								

<sup>\*</sup> Can adopt at Regular Meeting on April 17th or hold special meeting on April 24th to adopt

TAB D

MEETING DATE:	August 2, 202	23						
AGENDA TITLE:		Resolution Honoring Officer Mark Christopher Wagner, II And Requesting Amendment of The Line of Duty Act						
MOTION(s):	Board Of Sup	I move the Board of Supervisors approve the resolution entitled "Fluvanna County Board Of Supervisors Resolution Honoring Officer Mark Christopher Wagner, II And Requesting Amendment Of The Line Of Duty Act"						
BOS 2 YEAR GOALS?	Yes	Yes No X If yes, which goal(s):						
AGENDA CATEGORY:	Public Hearir		Matter	Presentation	Consent Agenda	Other		
STAFF CONTACT(S):	Eric Dahl, Co		<b>X</b> istrator					
PRESENTER(S):	Eric Dahl, Co	unty Admini	istrator					
RECOMMENDATION:	Approve	Approve						
TIMING:	Routine							
DISCUSSION:	Nelson County is seeking support from Virginia Localities and that of the General Assembly in enacting legislation that will amend the State Code to provide private police officers Line of Duty Act benefits under §9.1-400 et seq. Wintergreen police officer Mark Christopher "Chris" Wagner, Il lost his life in the line of duty on June 16, 2023. Officers of the Wintergreen Police Department, being a private police department, are not afforded the benefits available under the Line of Duty Act, Virginia Code Section 9.1-400 et seq., even though, along with their covered counterparts employed by a police department or sheriff's office, they are responsible for the prevention and detection of crime and the enforcement of penal laws and are exposed to the same risks of injury or death in protecting citizens and visitors. There are many such other private police departments within our state that deserve these benefits, including the Lake Monticello Police Department.  The Virginia Line of Duty Act (LODA), established in Title 9.1 of the Code of Virginia and enacted in 1972, provides benefits to eligible family members of eligible employees and volunteers killed in the line of duty and to those eligible employees and volunteers disabled in the line of duty and their eligible family members.  Funding of LODA benefits is provided by employers in one of two ways:  Participation in the Line of Duty Death and Health Benefits Trust Fund (LODA Fund), administered by the Virginia Retirement System (VRS).							

FISCAL IMPACT:	None							
POLICY IMPACT:	N/A							
LEGISLATIVE HISTORY:	N/A	I/A						
ENCLOSURES:								
	Legal Finance Purchasing HR Other							
REVIEWS COMPLETED:	Х				X			

# COUNTY

#### BOARD OF SUPERVISORS

County of Fluvanna Palmyra, Virginia RESOLUTION No. 22-2023

# FLUVANNA COUNTY BOARD OF SUPERVISORS RESOLUTION HONORING OFFICER MARK CHRISTOPHER WAGNER, II AND REQUESTING AMENDMENT OF THE LINE OF DUTY ACT

WHEREAS, Mark Christopher Wagner II served for seven years with the Massanutten Police Department, beginning his law enforcement career as a Gate Attendant and in May of 2019, earned Police Officer status following his graduation from Central Shenandoah Police Academy; and

WHEREAS, Officer Wagner joined the Wintergreen Police Department in August of 2020 and diligently served the Wintergreen Community with unwavering honor and commitment; and

WHEREAS, Officer Mark Christopher Wagner II was killed in the line of duty on June 16, 2023, in his capacity as a law enforcement officer employed by the Wintergreen Police Department, a private police department; and

WHEREAS, the Line of Duty Act, Virginia Code § 9.1-400 et seq., excludes private Police Officers from the benefits of that Act; and

WHEREAS, by definition under the Code of Virginia private Police Officers are law enforcement officers; and

WHEREAS, private Police Officers, just as their counterparts employed by a police department or sheriff's office which is a part of or administered by the Commonwealth or any political subdivision thereof, are responsible for the prevention and detection of crime and the enforcement of the penal laws and are exposed to the same risks of injury or death; and,

**WHEREAS,** it is the sense of the Fluvanna County Board of Supervisors that the Line of Duty Act should be amended to afford private Police Officers the benefits available under the Act.

**NOW, THEREFORE, BE IT RESOLVED,** the Fluvanna County Board of Supervisors hereby honors Officer Mark Christopher Wagner II of Wintergreen Police Department for his heroism and honorable service to the citizens of Wintergreen and Nelson County, for whom he made the ultimate sacrifice, and

**BE IT FURTHER RESOLVED**, the Fluvanna County Board of Supervisors hereby calls upon the General Assembly to amend the Code of Virginia to afford private Police Officers the benefits available under Virginia Code § 9.1-400 *et seq.*, Line of Duty Act, and

**BE IT FINALLY RESOLVED,** said Board hereby directs that a copy of this Resolution requesting these State Code amendments be delivered forthwith to representatives in the General Assembly.

THE FOREGOING RESOLUTION WAS DULY AND REGULARLY ADOPTED by the Fluvanna County Board of Supervisors of Fluvanna County on this 2<sup>nd</sup> day of August 2023.

	AYE	NAY	ABSTAIN	ABSENT	MOTION	SECOND
Mozell H. Booker, Fork Union District						
Patricia B. Eager, Palmyra District						
Chris Fairchild, Cunningham District						
Anthony P. O'Brien, Rivanna District						
John M. Sheridan, Columbia District						

Attest:
Mozell H. Booker, Chair
Fluvanna County Board of Supervisors

### Line of Duty Act

### § 9.1-400. Title of chapter; definitions

A. This chapter shall be known and designated as the Line of Duty Act.

B. As used in this chapter, unless the context requires a different meaning:

"Beneficiary" means the spouse of a deceased person and such persons as are entitled to take under the will of a deceased person if testate, or as his heirs at law if intestate.

"Deceased person" means any individual whose death occurs on or after April 8, 1972, in the line of duty as the direct or proximate result of the performance of his duty, including the presumptions under §§ 27-40.1, 27-40.2, 51.1-813, 65.2-402, and 65.2-402.1 if his position is covered by the applicable statute, as a law-enforcement officer of the Commonwealth or any of its political subdivisions, except employees designated pursuant to § 53.1-10 to investigate allegations of criminal behavior affecting the operations of the Department of Corrections, employees designated pursuant to § 66-3 to investigate allegations of criminal behavior affecting the operations of the Department of Juvenile Justice, and members of the investigations unit of the State Inspector General designated pursuant to § 2.2-311 to investigate allegations of criminal behavior affecting the operations of a state or nonstate agency; a correctional officer as defined in § 53.1-1; a jail officer; a regional jail or jail farm superintendent; a sheriff, deputy sheriff, or city sergeant or deputy city sergeant of the City of Richmond; a police chaplain; a member of any fire company or department or emergency medical services agency that has been recognized by an ordinance or a resolution of the governing body of any county, city, or town of the Commonwealth as an integral part of the official safety program of such county, city, or town, including a person with a recognized membership status with such fire company or department who is enrolled in a Fire Service Training course offered by the Virginia Department of Fire Programs or any fire company or department training required in pursuit of qualification to become a certified firefighter; a member of any fire company providing fire protection services for facilities of the Virginia National Guard or the Virginia Air National Guard; a member of the Virginia National Guard or the Virginia Defense Force while such member is serving in the Virginia National Guard or the Virginia Defense Force on official state duty or federal duty under Title 32 of the United States Code; any special agent of the Virginia Alcoholic Beverage Control Authority; any regular or special conservation police officer who receives compensation from a county, city, or town or from the Commonwealth appointed pursuant to the provisions of § 29.1-200; any commissioned forest warden appointed under the provisions of § 10.1-1135; any member or employee of the Virginia Marine Resources Commission granted the power of arrest pursuant to § 28.2-900; any Department of Emergency Management hazardous materials officer; any other employee of the Department of Emergency Management who is performing official duties of the agency, when those duties are related to a major disaster or emergency, as defined in § 44-146.16 , that has been or is later declared to exist under the authority of the Governor in accordance with § 44-146.28; any employee of any county, city, or town performing official emergency management or emergency services duties in cooperation with the Department of Emergency Management, when those duties are related to a major disaster or emergency, as defined in § 44-146.16, that has been or is later declared to exist under the authority of the Governor in accordance with § 44-146.28 or a local emergency, as defined in § 44-146.16, declared by a local

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governing body; any nonfirefighter regional hazardous materials emergency response team member; any conservation officer of the Department of Conservation and Recreation commissioned pursuant to § 10.1-115; or any full-time sworn member of the enforcement division of the Department of Motor Vehicles appointed pursuant to § 46.2-217.

"Disabled person" means any individual who has been determined to be mentally or physically incapacitated so as to prevent the further performance of his duties at the time of his disability where such incapacity is likely to be permanent, and whose incapacity occurs in the line of duty as the direct or proximate result of the performance of his duty, including the presumptions under §§ 27-40.1, 27-40.2, 51.1-813, 65.2-402, and 65.2-402.1 if his position is covered by the applicable statute, in any position listed in the definition of deceased person in this section. "Disabled person" does not include any individual who has been determined to be no longer disabled pursuant to subdivision A 2 of § 9.1-404. "Disabled person" includes any state employee included in the definition of a deceased person who was disabled on or after January 1, 1966.

"Eligible dependent" for purposes of continued health insurance pursuant to § 9.1-401 means the natural or adopted child or children of a deceased person or disabled person or of a deceased or disabled person's eligible spouse, provided that any such natural child is born as the result of a pregnancy that occurred prior to the time of the employee's death or disability and that any such adopted child is (i) adopted prior to the time of the employee's death or disability or (ii) adopted after the employee's death or disability if the adoption is pursuant to a preadoptive agreement entered into prior to the death or disability. Notwithstanding the foregoing, "eligible dependent" shall also include the natural or adopted child or children of a deceased person or disabled person born as the result of a pregnancy or adoption that occurred after the time of the employee's death or disability, but prior to July 1, 2017. Eligibility will continue until the end of the year in which the eligible dependent reaches age 26 or when the eligible dependent ceases to be eligible based on the Virginia Administrative Code or administrative guidance as determined by the Department of Human Resource Management.

"Eligible spouse" for purposes of continued health insurance pursuant to § 9.1-401 means the spouse of a deceased person or a disabled person at the time of the death or disability. Eligibility will continue until the eligible spouse dies, ceases to be married to a disabled person, or in the case of the spouse of a deceased person, dies, remarries on or after July 1, 2017, or otherwise ceases to be eligible based on the Virginia Administrative Code or administrative guidance as determined by the Department of Human Resource Management.

"Employee" means any person who would be covered or whose spouse, dependents, or beneficiaries would be covered under the benefits of this chapter if the person became a disabled person or a deceased person.

"Employer" means (i) the employer of a person who is a covered employee or (ii) in the case of a volunteer who is a member of any fire company or department or rescue squad described in the definition of "deceased person," the county, city, or town that by ordinance or resolution recognized such fire company or department or rescue squad as an integral part of the official safety program of such locality.

"Fund" means the Line of Duty Death and Health Benefits Trust Fund established pursuant to § 9.1-400.1.

"Line of duty" means any action the deceased or disabled person was obligated or authorized to

perform by rule, regulation, condition of employment or service, or law.

"LODA Health Benefit Plans" means the separate health benefits plans established pursuant to § 9.1-401.

"Nonparticipating employer" means any employer that is a political subdivision of the Commonwealth that elected to directly fund the cost of benefits provided under this chapter and not participate in the Fund.

"Participating employer" means any employer that is a state agency or is a political subdivision of the Commonwealth that did not make an election to become a nonparticipating employer.

"VRS" means the Virginia Retirement System.

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1995, cc. 112, 156, 597, §§ 2.1-133.5, 2.1-133.6; 1996, cc. 66, 174;1998, c. 712;2001, cc. 678, 844; 2003, cc. 37, 41, 1005;2004, c. 30;2005, cc. 907, 910;2006, c. 824;2007, c. 87;2011, cc. 572, 586; 2012, cc. 374, 458, 573;2015, cc. 38, 502, 503, 730;2016, c. 677;2017, cc. 439, 627;2018, c. 548; 2020, cc. 207, 559.
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### § 9.1-400.1. Line of Duty Death and Health Benefits Trust Fund

A. There is hereby established a permanent and perpetual fund to be known as the Line of Duty Death and Health Benefits Trust Fund, consisting of such moneys as may be appropriated by the General Assembly, contributions or reimbursements from participating and nonparticipating employers, gifts, bequests, endowments, or grants from the United States government or its agencies or instrumentalities, net income from the investment of moneys held in the Fund, and any other available sources of funds, public and private. Any moneys remaining in the Fund at the end of a biennium shall not revert to the general fund but shall remain in the Fund. Interest and income earned from the investment of such moneys shall remain in the Fund and be credited to it. The moneys in the Fund shall be (i) deemed separate and independent trust funds, (ii) segregated and accounted for separately from all other funds of the Commonwealth, and (iii) administered solely in the interests of the persons who are covered under the benefits provided pursuant to this chapter. Deposits to and assets of the Fund shall not be subject to the claims of creditors.

- B. The Virginia Retirement System shall invest, reinvest, and manage the assets of the Fund as provided in § 51.1-124.39 and shall be reimbursed from the Fund for such activities as provided in that section.
- C. The Fund shall be used to provide the benefits under this chapter related to disabled persons, deceased persons, eligible dependents, and eligible spouses on behalf of participating employers and to pay related administrative costs.
- D. Each participating employer shall make annual contributions to the Fund and provide information as determined by VRS. The amount of the contribution for each participating employer shall be determined on a current disbursement basis in accordance with the provisions of this section. For purposes of establishing contribution amounts for participating employers, a member of any fire company or department or rescue squad that has been recognized by an ordinance or a resolution of the governing body of any locality of the Commonwealth as an integral part of the official safety program of such locality shall be considered part of the locality served by the company, department, or rescue squad. If a company, department, or rescue squad serves more than one locality, the affected localities shall determine the basis and

apportionment of the required covered payroll and contributions for each company, department, or rescue squad.

If any participating employer fails to remit contributions or other fees or costs associated with the Fund, VRS shall inform the State Comptroller and the affected participating employer of the delinquent amount. In calculating the delinquent amount, VRS may impose an interest rate of one percent per month of delinquency. The State Comptroller shall forthwith transfer such delinquent amount, plus interest, from any moneys otherwise distributable to such participating employer.

2016, c. 677;2017, c. 439.

### § 9.1-401. Continued health insurance coverage for disabled persons, eligible spouses, and eligible dependents

A. Disabled persons, eligible spouses, and eligible dependents shall be afforded continued health insurance coverage as provided in this section, the cost of which shall be paid by the nonparticipating employer to the Department of Human Resource Management or from the Fund on behalf of a participating employer, as applicable. If any disabled person or eligible spouse is receiving the benefits described in this section and would otherwise qualify for the health insurance credit described in Chapter 14 (§ 51.1-1400 et seq.) of Title 51.1, the amount of such credit shall be deposited into the Line of Duty Death and Health Benefits Trust Fund or paid to the nonparticipating employer, as applicable, from the health insurance credit trust fund, in a manner prescribed by VRS.

- B. 1. The continued health insurance coverage provided by this section for all disabled persons, eligible spouses, and eligible dependents shall be through separate plans, referred to as the LODA Health Benefits Plans (the Plans), administered by the Department of Human Resource Management. The Plans shall comply with all applicable federal and state laws and shall be modeled upon state employee health benefits program plans. Funding of the Plans' reserves and contingency shall be provided through a line of credit, the amount of which shall be based on an actuarially determined estimate of liabilities. The Department of Human Resource Management shall be reimbursed for health insurance premiums and all reasonable costs incurred and associated, directly and indirectly, in performing the duties pursuant to this section (i) from the Line of Duty Death and Health Benefits Trust Fund for costs related to disabled persons, deceased persons, eligible dependents, and eligible spouses on behalf of participating employers and (ii) from a nonparticipating employer for premiums and costs related to disabled persons, deceased persons, eligible dependents, and eligible spouses for which the nonparticipating employer is responsible. If any nonparticipating employer fails to remit such premiums and costs, the Department of Human Resource Management shall inform the State Comptroller and the affected nonparticipating employer of the delinquent amount. In calculating the delinquent amount, the Department of Human Resource Management may impose an interest rate of one percent per month of delinquency. The State Comptroller shall forthwith transfer such delinquent amount, plus interest, from any moneys otherwise distributable to such nonparticipating employer.
- 2. In the event that temporary health care insurance coverage is needed for disabled persons, eligible spouses, and eligible dependents during the period of transition into the LODA Health Benefits Plans, the Department of Human Resource Management is authorized to acquire and provide temporary transitional health insurance coverage. The type and source of the

transitional health plans shall be within the sole discretion of the Department of Human Resource Management. Transitional coverage for eligible dependents shall comply with the eligibility criteria of the transitional plans until enrollment in the LODA Health Benefits Plan can be completed.

- C. 1. a. Except as provided in subdivision 2 and any other law, continued health insurance coverage in any LODA Health Benefits Plans shall not be provided to any person (i) whose coverage under the Plan is based on a deceased person's death or a disabled person's disability occurring on or after July 1, 2017 and (ii) who is eligible for Medicare due to age.
- b. Coverage in the LODA Health Benefits Plans shall also cease for any person upon his death.
- 2. The provisions of subdivision 1 a shall not apply to any disabled person who is eligible for Medicare due to disability under Social Security Disability Insurance or a Railroad Retirement Board Disability Annuity. The Department of Human Resource Management may provide such disabled person coverage under a LODA Health Benefits Plan that is separate from the plan for other persons.
- 3. Continued health insurance under this section shall also terminate upon the disabled person's return to full duty in any position listed in the definition of deceased person in § 9.1-400. Such disabled person shall promptly notify the participating or nonparticipating employer, VRS, and the Department of Human Resource Management upon his return to work.
- 4. Such continued health insurance shall be suspended for the Plan year following a calendar year in which the disabled person whose coverage under the Plan is based on a disability occurring on or after July 1, 2017, has earned income in an amount equal to or greater than the salary of the position held by the disabled person at the time of disability, indexed annually based upon the annual increases in the United States Average Consumer Price Index for all items, all urban consumers (CPI-U), as published by the Bureau of Labor Statistics of the U.S. Department of Labor. Such suspension shall cease the Plan year following a calendar year in which the disabled person has not earned such amount of income. The disabled person shall notify the participating or nonparticipating employer, VRS, and the Department of Human Resource Management no later than March 1 of the year following any year in which he earns income of such amount, and notify the participating or nonparticipating employer, VRS, and the Department of Human Resource Management when he no longer is earning such amount. Upon request, a disabled person shall provide VRS and the Department of Human Resource Management with documentation of earned income.

1998, c. 712, § 2.1-133.7:1; 2000, c. 616;2001, c. 844;2016, c. 677;2017, c. 439.

### § 9.1-401.1. Supplemental short-term disability benefit for state police officers

A state police officer who is a participating employee, as defined in § 51.1-1100, and who incurs a work-related injury in the line of duty, shall receive supplemental short-term disability coverage, pursuant to § 51.1-1121, that provides income replacement for 100 percent of the officer's creditable compensation for the first six months and, pursuant to a certification by the Superintendent of State Police, based on a medical evaluation, that the officer is likely to return to service within another six months, up to one calendar year, that the officer is disabled, without regard to the officer's number of months of state service. Except as provided in this section with regard to the rate of income replacement and the duration of supplemental short-term disability coverage, such state police officers shall be eligible for work-related, supplemental short-term

disability benefits upon the same terms and conditions that apply to other participating employees pursuant to Article 4 (§ 51.1-1119 et seq.) of Chapter 11 of Title 51.1. Upon the expiration of the one-calendar-year period, such state police officers shall be eligible for supplemental long-term disability benefits as provided in § 51.1-1123.

2010, c. 654.

### § 9.1-402. Payments to beneficiaries of certain deceased law-enforcement officers, firefighters, etc., and retirees

A. The beneficiary of a deceased person whose death occurred on or before December 31, 2005, while in the line of duty as the direct or proximate result of the performance of his duty shall be entitled to receive the sum of \$75,000, which shall be paid by the nonparticipating employer or from the Fund on behalf of a participating employer, as applicable, in gratitude for and in recognition of his sacrifice on behalf of the people of the Commonwealth.

B. The beneficiary of a deceased person whose death occurred on or after January 1, 2006, while in the line of duty as the direct or proximate result of the performance of his duty shall be entitled to receive the sum of \$100,000, which shall be paid by the nonparticipating employer or from the Fund on behalf of a participating employer, as applicable, in gratitude for and in recognition of his sacrifice on behalf of the people of the Commonwealth.

C. Subject to the provisions of § 27-40.1, 27-40.2, 51.1-813, or 65.2-402, if the deceased person's death (i) arose out of and in the course of his employment or (ii) was within five years from his date of retirement, his beneficiary shall be entitled to receive the sum of \$25,000, which shall be paid by the nonparticipating employer or from the Fund on behalf of a participating employer, as applicable.

1995, cc. 156, 597, § 2.1-133.7; 2000, c. 314;2001, c. 844;2006, c. 878;2016, c. 677.

### § 9.1-402.1. Payments for burial expenses

It is the intent of the General Assembly that expeditious payments for burial expenses be made for deceased persons whose death is determined to be a direct and proximate result of their performance in the line of duty as defined by the Line of Duty Act. Upon the approval of VRS, at the request of the family of a person who may be subject to the line of duty death benefits, payments shall be made to a funeral service provider for burial and transportation costs by the nonparticipating employer or from the Fund on behalf of a participating employer, as applicable. These payments would be advanced from the death benefit that would be due to the beneficiary of the deceased person if it is determined that the person qualifies for line of duty coverage. Expenses advanced under this provision shall not exceed the coverage amounts outlined in § 65.2-512. In the event a determination is made that the death is not subject to the line of duty benefits, VRS or other Virginia governmental retirement fund of which the deceased is a member will deduct from benefit payments otherwise due to be paid to the beneficiaries of the deceased payments previously paid for burial and related transportation expenses and return such funds to the nonparticipating employer or to the Fund on behalf of a participating employer, as applicable. The Virginia Retirement System shall have the right to file a claim with the Virginia Workers' Compensation Commission against any employer to recover burial and related transportation expenses advanced under this provision.

2012, cc. 90, 576;2016, c. 677.

### § 9.1-403. Claim for payment; costs

A. Every beneficiary, disabled person or his spouse, or dependent of a deceased or disabled person shall present his claim to the chief officer, or his designee, of the employer for which the disabled or deceased person last worked on forms to be provided by VRS. Upon receipt of a claim, the chief officer or his designee shall forward the claim to VRS within seven days. The Virginia Retirement System shall determine eligibility for benefits under this chapter. The Virginia Retirement System may request assistance in obtaining information necessary to make an eligibility determination from the Department of State Police. The Department of State Police shall take action to conduct the investigation as expeditiously as possible. The Department of State Police shall be reimbursed from the Fund or the nonparticipating employer, as applicable, for the cost of searching for and obtaining information requested by VRS. The Virginia Retirement System shall be reimbursed for the reasonable costs incurred for making eligibility determinations by nonparticipating employers or from the Fund on behalf of participating employers, as applicable. If any nonparticipating employer fails to reimburse VRS for reasonable costs incurred in making an eligibility determination, VRS shall inform the State Comptroller and the affected nonparticipating employer of the delinquent amount. In calculating the delinquent amount, VRS may impose an interest rate of one percent per month of delinquency. The State Comptroller shall forthwith transfer such delinquent amount, plus interest, from any moneys otherwise distributable to such nonparticipating employer.

- B. 1. Within 10 business days of being notified by an employee, or an employee's representative, that such employee is permanently and totally disabled due to a work-related injury suffered in the line of duty, the agency or department employing the employee shall provide him with information about the continued health insurance coverage provided under this chapter and the process for initiating a claim. The employer shall assist in filing a claim, unless such assistance is waived by the employee or the employee's representative.
- 2. Within 10 business days of having knowledge that a deceased person's surviving spouse, dependents, or beneficiaries may be entitled to benefits under this chapter, the employer for which the deceased person last worked shall provide the surviving spouse, dependents, or beneficiaries, as applicable, with information about the benefits provided under this chapter and the process for initiating a claim. The employer shall assist in filing a claim, unless such assistance is waived by the surviving spouse, dependents, or beneficiaries.
- C. Within 30 days of receiving a claim pursuant to subsection A, an employer may submit to VRS any evidence that could assist in determining the eligibility of a claim. However, when the claim involves a presumption under § 65.2-402 or 65.2-402.1, VRS shall provide an employer additional time to submit evidence as is necessary not to exceed nine months from the date the employer received a claim pursuant to subsection A. Any such evidence submitted by the employer shall be included in the agency record for the claim.

1995, c. 156, § 2.1-133.8; 1998, c. 712;2001, cc. 427, 844;2007, c. 90;2009, cc. 393, 580;2016, c. 677.

### § 9.1-404. Order of the Virginia Retirement System

A. 1. The Virginia Retirement System shall make an eligibility determination within 45 days of receiving all necessary information for determining eligibility for a claim filed under § 9.1-403. The Virginia Retirement System may use a medical board pursuant to § 51.1-124.23 in determining eligibility. If benefits under this chapter are due, VRS shall notify the

nonparticipating employer, which shall provide the benefits within 15 days of such notice, or VRS shall pay the benefits from the Fund on behalf of the participating employer within 15 days of the determination, as applicable. The payments shall be retroactive to the first date that the disabled person was no longer eligible for health insurance coverage subsidized by his employer.

- 2. Two years after an individual has been determined to be a disabled person, VRS may require the disabled person to renew the determination through a process established by VRS. If a disabled person refuses to submit to the determination renewal process described in this subdivision, then benefits under this chapter shall cease for the individual, any eligible dependents, and an eligible spouse until the individual complies. If such individual does not comply within six months from the date of the initial request for a renewed determination, then benefits under this chapter shall permanently cease for the individual, any eligible dependents, and an eligible spouse. If VRS issues a renewed determination that an individual is no longer a disabled person, then benefits under this chapter shall permanently cease for the individual, any eligible dependents, and an eligible spouse. If VRS issues a renewed determination that an individual remains a disabled person, then VRS may require the disabled person to renew the determination five years after such renewed determination through a process established by VRS. The Virginia Retirement System may require the disabled person to renew the determination at any time if VRS has information indicating that the person may no longer be disabled.
- 3. For any medical review conducted for the purpose of making an eligibility determination pursuant to this section, VRS shall require such review to be conducted by a licensed health practitioner. For purposes of this section, "licensed health practitioner" means a person licensed to practice medicine or osteopathic medicine pursuant to the provisions of Chapter 29 (§ 54.1-2900 et seq.) of Title 54.1, a person licensed to practice nursing pursuant to the provisions of Chapter 30 (§ 54.1-3000 et seq.) of Title 54.1, or a person licensed to practice psychology pursuant to the provisions of Chapter 36 (§ 54.1-3600 et seq.) of Title 54.1. "Licensed health practitioner" includes a person issued a comparable license, as determined by VRS, by the District of Columbia or a state that is contiguous to the Commonwealth.
- B. The Virginia Retirement System shall be reimbursed for all reasonable costs incurred and associated, directly and indirectly, in performing the duties pursuant to this chapter (i) from the Line of Duty Death and Health Benefits Trust Fund for costs related to disabled persons, deceased persons, eligible dependents, and eligible spouses on behalf of participating employers and (ii) from a nonparticipating employer for premiums and costs related to disabled persons, deceased persons, eligible dependents, and eligible spouses for which the nonparticipating employer is responsible.
- C. The Virginia Retirement System may develop policies and procedures necessary to carry out the provisions of this chapter.

1995, cc. 156, 597, § 2.1-133.9; 1998, c. 712;2001, c. 844;2016, c. 677;2017, c. 439;2022, c. 484.

### § 9.1-405. Appeal from decision of Virginia Retirement System

Any beneficiary, disabled person or eligible spouse or eligible dependent of a deceased or disabled person aggrieved by the decision of VRS may appeal the decision through a process established by VRS. Any such process may utilize a medical board as described in § 51.1-124.23, provided that for any medical review conducted pursuant to the provisions of this chapter, each member of such medical board shall be a licensed health practitioner, as defined in § 9.1-404. An employer may submit information related to the claim and may participate in any informal fact-

finding proceeding that is included in such process established by VRS. Upon completion of the appeal process, the final determination issued by VRS shall constitute a case decision as defined in § 2.2-4001. Any beneficiary, disabled person, or eligible spouse or eligible dependent of a deceased or disabled person aggrieved by, and claiming the unlawfulness of, such case decision shall have a right to seek judicial review thereof in accordance with Article 5 (§ 2.2-4025 et seq.) of the Administrative Process Act. The employer shall not have a right to seek such judicial review.

1995, cc. 156, 597, § 2.1-133.10; 1998, c. 712;2001, c. 844;2016, c. 677;2022, c. 484.

### § 9.1-406. Repealed

Repealed by Acts 2016, c. 677, cl. 2, effective July 1, 2017.

### § 9.1-407. Training

Any employee entitled to benefits under this chapter shall receive training within 30 days of his employment, and again every two years thereafter, concerning the benefits available to himself or his beneficiary in case of disability or death in the line of duty. The Virginia Retirement System and the Department of Human Resource Management, in consultation with the Secretary of Public Safety and Homeland Security, shall develop training information to be distributed to employers. The employer shall be responsible for providing the training. Such training shall not count toward in-service training requirements for law-enforcement officers pursuant to § 9.1-102 and shall include, but not be limited to, the general rules for intestate succession described in § 64.2-200 that may be applicable to the distribution of benefits provided under § 9.1-402.

2006, c. 535;2014, cc. 115, 490;2016, c. 677;2017, c. 439.

### § 9.1-408. Records of investigation confidential

A. Evidence and documents obtained by or created by, and the report of investigation prepared by, the Department of State Police, the Virginia Retirement System, or the Department of Human Resource Management in carrying out the provisions of this chapter shall (i) be deemed confidential, (ii) be exempt from disclosure under the Freedom of Information Act (§ 2.2-3700 et seq.), and (iii) not be released in whole or in part by any person to any person except as provided in this chapter. Notwithstanding the provisions of this section, VRS may release to necessary parties such information, documents, and reports for purposes of administering appeals under this chapter.

B. Notwithstanding subsection A, the Department of State Police and the Department of Accounts shall, upon request, share with the Virginia Retirement System and the Department of Human Resource Management any information, evidence, documents, and reports of investigation related to existing and past claims for benefits provided under this Chapter. Such information, evidence, documents, and reports of investigation shall be exempt from disclosure under the Virginia Freedom of Information Act (§ 2.2-3700 et seq.).

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2010, c. 568;2017, c. 439.

TAB E

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MEETING DATE:	August 2, 20	)23					
AGENDA TITLE:	Palmyra Vill Grant Updat	•	ape Proje	ct - VDOT: Transp	ortatio	on Alternativ	es Program
MOTION(s):	appropriation 20% match Palmyra Vill  Motion #2: I move the I Reaffirming With The Vi	on of \$118,1 for the VDO lage Streetso Board of Sup Commitme	69 from u T Transpo cape CIP p ervisors a nt To Fun tment Of	adopt the resolut d The Locality Sh Transportation A	oalanc ves Pr ion er are Of	e to allocate ogram (TAP) otitled "Reso Projects Un	e its required ) grant for the olution der Agreement
BOS GOALS?	Yes X	No		If yes, list go	al(s):		lmyra Village cape Project
AGENDA CATEGORY:	Public Hear		Matter <b>X</b>	Presentation	Cons	ent Agenda	Other
STAFF CONTACT(S):	Eric Dahl, Co Director	ounty Admin	istrator a	nd Douglas Miles,	, Comr	nunity Deve	lopment
PRESENTER(S):	Eric Dahl, Co	ounty Admin	istrator				
RECOMMENDATION:	Adopt the p	roposed Res	olution				
TIMING:	Routine						
DISCUSSION:	comexpetrant furt  The funct Stort between and one  The Goal	munity base erience by im a sportation in her improve  VDOT - Trading to constant a Jail Stree ween Civil Wamuch neederway road sy  Palmyra Vill Is, C3.1.	nproying the frastruct the quality and the quality and the quality are the quality are park and angled stem and age Street, 2021, the property of the property are the quality and the quality and the quality are the quality are the quality are the quality and the quality are the quality	ratives Program (7 s such as sidewall coth the cultural a ure and seeks to the for its results of life for its results and Court Square (1 of the Historic Court of further improvents cape Project is the board authorized	ks and and his streng sident Progrand relations road) urthouing spane the a part	enhance the torical aspection the locks.  m (TAP) Granted concrete that bisects se, provide poses along the Palmyra Villate of the Boar	e transportation cts of a locality's al economy and ent will provide the curbing along the lawn area properly marked the new proposed the lawn area or proposed the lawn area

	• On Octoappropr  "Resolution Under A Provide  • As with cost incomparing the characters of the charac	AP grant funding ober 19, 2022, to iation of \$317,8 tion Affirming Conference With Signature Author many infrastructure asses on this propert below represible for a 20% many infrastructure.	ification on September in the amount of \$1,2 he Board of Supervisors 31 as its 20% match formmitment To Fund To The Virginia Departmenty" for the Palmyra Volume projects, VDOT notice and needs a reasents the total cost atch. The 2021 County 36,000, an increase of	71,325 for the ors approved for the grant as The Locality Shement Of Transillage Streetscotified the Confirmation beforease and match was \$3	a supplement and approved the county receding the County	ntal d a cts and of ng.
		20	021 TAP Estimate	Updated Est	timate	
	Preliminary En	gineering \$5	516,300	\$520,000		
	Right of Way	<u> </u>	146,651	\$200,000		
	Construction	\$9	926,205	\$1,460,000		
	Total	\$1	1,589,156	\$2,180,000		
	0	Approve an addestimated proje expended over 4 Administered – L Adopt the "Resol Share Of Projects	ving forward, the Counlitional \$118,169 for ct cost of \$2,180,000 fiscal years between cocally Funded Project lution Reaffirming Combot Under Agreement Wind Provide Signature and Provide Signature a	the 20% mat ). The County FY23 and FY20 Administration mitment To Fountiers th The Virginia	match will 6, per the VDO n Agreement. und The Local	be OT lity
FISCAL IMPACT:		the funding requ	\$118,169 is being requuirement estimate. The		_	b
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ENCLOSURES:	Locality Of Trans VDOT Pi VDOT St 2021	Share Of Project: sportation And Project Cost Estimation cone Jail Street ar	nd Court Square Sidew	ith The Virgini ority" ralk Conceptua	a Department ıl Sketch – Ma	
REVIEWS COMPLETED:	Legal	Finance	Purchasing	HR	Other	
THE STATE OF THE PERSON AND THE PERS		Х			Х	



### **BOARD OF SUPERVISORS**

County of Fluvanna
Palmyra, Virginia
RESOLUTION No. 23-2023

### A RESOLUTION REAFFIRMING COMMITMENT TO FUND THE LOCALITY SHARE OF PROJECTS UNDER AGREEMENT WITH THE VIRGINIA DEPARTMENT OF TRANSPORTATION AND PROVIDE SIGNATURE AUTHORITY

WHEREAS, the County of Fluvanna is a recipient of Virginia Department of Transportation funds under various grant programs for transportation-related projects; and

WHEREAS, the Virginia Department of Transportation requires each locality, by resolution, to provide assurance of its commitment to funding its local share; and

THEREFORE, IT IS HEREBY RESOLVED, by the Board of Supervisors of Fluvanna County hereby recommits to fund its local share of preliminary engineering, right-of-way, and construction (as applicable) of the project(s) under agreement with the Virginia Department of Transportation in accordance with the project financial document(s); and

BE IT FURTHER RESOLVED that the County Administrator and/or his designees is authorized to execute all agreements and/or addendums for any approved projects with the Virginia Department of Transportation.

THE FOREGOING RESOLUTION WAS DULY AND REGULARLY ADOPTED by the Fluvanna County Board of Supervisors of Fluvanna County on this 2nd day of August 2023.

	AYE	NAY	ABSTAIN	ABSENT	MOTION	SECOND
Mozell H. Booker, Fork Union District						
Patricia B. Eager, Palmyra District						
Anthony P. O'Brien, Rivanna District						
John M. Sheridan, Columbia District						
Chris Fairchild, Cunningham District						

Attest:	
Mozell H. Booker, Chair	
Fluvanna County Board of Supervisors	

BOS2023-08-02 p.35/212

UPC: 121852 **Project Cost Estimating System SUMMARY PAGE CULPEPER DISTRICT** EN22032622 **PROJECT NUMBER** 121852 **FY2022** UPC **CONSTRUCTION END YEAR** RATE OF **FY2022** N/A **AD YEAR** INFLATION TO AD INFLATION RATE **FY2023** N/A **ESTIMATE YEAR** DURING CI 6/12/2023 Date of previous estimate Justin.Warfield PROJECT MANAGER / DESIGNER **MANUAL Preliminary Engineering Estimate: MANUAL Construction Estimate: MANUAL** Right-of-Way Estimate: **MANUAL Utilities Estimate: DATE** 6/12/2023 THE FOLLOWING DATA WILL BE PROVIDED UPON COMPLETION OF THE REMAINDER OF THE WORKBOOK, WHICH IS ACCESSED BY SELECTING THE CONST, RW, & UTIL TABS BELOW **\$0 Bridge PE ESTIMATE** \$0 **Bridge CN ESTIMATE** \$0 **Bridge RW ESTIMATE** \$520,000 PRELIMINARY ENGINEERING ESTIMATE (excluding Bridge PE) \$1,460,000 **CONSTRUCTION ESTIMATE (excluding Bridge CN)** \$200,000 RIGHT-OF-WAY & UTILITIES ESTIMATE(excluding Bridge RW) \$2,180,000 **TOTAL PROJECT ESTIMATE (excluding Bridge estimate)** © Virginia Department of Transportation 2005 Revised 12/06/22 **Estimate Class: Blank** Version 12.00

VDOT		t Cost Estimati IANUAL ESTII		VDOT
	DATE	PE	RW	CN
EXPENDITURES	6/1/2023 12:00	· · ·	\$0	\$0
RUMS TRNS*PORT	6/12/2023 11:0	)3:32 AIVI 	\$0	\$0
<b>AWARD</b> 6/12/20	023 11:03:32 AM			\$0
PROJECTION6/12/2	023 11:03:32 AM	1		\$0
		ESTIMATE YEAR		AD YEAR
		FY2023		N/A
		\$520,000	PE	\$520,000
		\$200,000	RW	\$200,000
		\$1,460,000	CN	\$1,460,000
		\$2,180,000	TOTAL	\$2,180,000
Job # Phase	Comment			Estimate
PE				\$520,000
		ased on expenditure		
	complete PE p	hase. Includes Infla	шоп	J
RW				\$200,000
		pased on expenditur phase. Includes Infla		
				,
CN				\$1,183,969
	CN estimate w	rithout CEI. Includes	Inflation	
				#070 004
CN				\$276,031
	CN CEI estima	ate. Includes Inflation	1	
				J

SYIP PROJECTS  DETAILED PROJECT COST ESTIMATE SUMMARY  (Version 2.1: 2/1/2023)					
N/A			Project UPC:	121852	•
J. Warfield			Milestone	Creation/Pre Scope	
J. Rose					
cality	Fluvanna	County (32)	Tier Level	1	
on-Complex (Minor)					
	J. Wa J. F lity	N/A  J. Warfield  J. Rose  lity  Fluvanna	(Version 2.1: 2/1/2023)  N/A  J. Warfield  J. Rose  Fluvanna County (32)	N/A         Project UPC:           J. Warfield         Millestone           J. Rose         Iity           Fluvanna County (32)         Tier Level	(Version 2.1: 2/1/2023)

Project Complexity Classification	Non-complex (Millor)			l .		
Preliminary Engineering Phase 7 Do not enter a negative value for defined or allowance; Ensure input where required. If no value then enter "0"						
Project Estimate Com	ponent					
Discipline	Source	Defined(\$)	Allowance*			Total
Project Management	Culpeper Tool	\$ 49,494.32	\$ -			\$ 49,494.32
Roadway	Culpeper Tool	\$ 118,392.95	\$ -			\$ 118,392.95
Hydraulics	Culpeper Tool	\$ 39,050.80	\$ -			\$ 39,050.80
Utilities	Culpeper Tool	\$ -	\$ -			\$ -
Traffic	Culpeper Tool	\$ 41,906.25	\$ -			\$ 41,906.25
Structures/Bridges	Culpeper Tool	ş -	\$ -			\$ -
Materials/Geotech	Culpeper Tool	\$ 36,300.00	\$ -			\$ 36,300.00
Survey/SUE/Quality Level A SUE	Culpeper Tool	\$ 66,671.59	\$ -			\$ 66,671.59
Environmental	Culpeper Tool	\$ 50,262.50	\$ -			\$ 50,262.50
Right of Way	Culpeper Tool	\$ 25,200.00	\$ -			\$ 25,200.00
Other	Culpeper Tool	\$ -	\$ -			\$ -
VDOT PE Oversight on Local Assistance Projects	Total entered from LAD Spreadsheet				$\Longrightarrow$	
	SUBTOTAL PE PHASE ESTIMATE (Without Contingency)	\$ 427,278.41	\$ -	Select Phase Risk Type Below	Contingency % (Value of Risk)	
			pe and Contingency (Value of Risk): amount; For Type 2 enter \$ amount	Type 1 Percentage	21.7005%	\$ 92,721.59
				To	OTAL PE PHASE ESTIMATE	\$ 520,000.00
	PE Base Estimate Date	6/7/2023				
Phase dates (XX/XX/XXXX)	Start Date	11/17/2022				
	End Date	7/25/2025				
Right-of-W	ay & Utilities Phase		Do not enter a negative value for defin	ned or allowance costs; For Cont	ingency Values please refer to th	e ROW Cost Estimate Guide Section 8
Discipline	Source	Defined (\$)	Allowance*	Type 1 Percentage	Contingency (% of Risk)	Total
Right-of-Way Acquisition	Aerial Photo	\$54,813.00	\$ -		22.8419%	\$ 67,333.35
Utilities	Aerial Photo	\$ 81,922.40	\$ -		22.8419%	\$ 100,635.07
VDOT Project RW/UT Oversight	Culpeper Tool	\$ -	s -		0.00%	\$ -
VDOT RW/UT Oversight on Local Assistance	Total entered from LAD					

	End Date	7/25/2025				
Right-of-W	ay & Utilities Phase		Do not enter a negative value for defin	ned or allowance costs; For Con	ingency Values please refer to the	e ROW Cost Estimate Guide Section 8
Discipline	Source	Defined (\$)	Allowance*	Type 1 Percentage	Contingency (% of Risk)	Total
Right-of-Way Acquisition	Aerial Photo	\$54,813.00	\$ -		22.8419%	\$ 67,333.35
Utilities	Aerial Photo	\$ 81,922.40	\$ -		22.8419%	\$ 100,635.07
VDOT Project RW/UT Oversight	Culpeper Tool	\$ -	\$ -		0.00%	\$ -
VDOT RW/UT Oversight on Local Assistance Projects	Total entered from LAD Spreadsheet				$\Longrightarrow$	
SIII	BTOTAL RW PHASE ESTIMATE		I			
301	(Without Contingency)	S 136 735 40	\$ -	RW Contingency:	22.84%	
Use only if a	Phase Risk Type and Contingency (Value of Risk):  Use only if applying one contingency to entire phase. For Type 1 enter % amount; For Type 2 enter \$ amount contingency value)  October 2 deter \$ amount contingency value				0	\$ 31,233.02
				TO	TAL RW PHASE ESTIMATE	\$ 167,968.42
	RW Base Estimate Date	5/17/2021				

	RW Base Estimate Date	5/17/2021				
Phase dates (XX/XX/XXXX)	Start Date	7/25/2025				
	End Date	10/13/2026				
Construction Phase			Do not enter a negative value for defin Total shown is dependent on Risk Typ		nput where required. If no value	then enter "0"; "0" will result in a gray cell;
Discipline	Source	Defined (\$)	Allowance*	Discipline Risk Type (Use when selecting many)	Contingency (Value of or % of Risk)	Total
Mobilization/Construction Support	Culpeper Tool	\$ 60,843.05	\$ -	Type 1 Percentage	22.2457%	\$ 74,378.00
мот	Culpeper Tool	\$ -	\$ 52,399.65	Type 1 Percentage	20.0379%	\$ 62,899.44
Roadway	Culpeper Tool	\$ 301,975.95	\$ -	Type 1 Percentage	25.0474%	\$ 377,613.03
Hydraulics	Culpeper Tool	\$ 133,337.11	\$ -	Type 1 Percentage	25.0474%	\$ 166,734.57
In-plan Utilities	Culpeper Tool	\$ -	\$ -	Type 1 Percentage	0.00%	\$ -
Traffic	Culpeper Tool	\$ -	\$ 16,418.81	Type 1 Percentage	20.0379%	\$ 19,708.80
Structures/Bridges	Culpeper Tool	\$ -	\$ -	Type 1 Percentage	0.00%	\$ -
Earthwork/Geotech	Culpeper Tool	\$ 110,629.39	\$ -	Type 1 Percentage	25.0474%	\$ 138,339.16
Environmental/Soundwalls	Culpeper Tool	\$ -	\$ -	Type 1 Percentage	0.00%	\$ -
Other	Culpeper Tool	\$ 36,470.37	\$ -	Type 1 Percentage	20.0379%	\$ 43,778.27
	Total Bid Items	\$ 643,255.87	\$ 68,818.46			\$ 883,451.27
VDOT Project CN Oversight	Culpeper Tool	\$ -	\$ -	Type 1 Percentage	0.00%	\$ -
VDOT CN Oversight on Local Assistance Projects	Total entered from LAD Spreadsheet				$\longrightarrow$	\$ -
					Oversight Total	\$ -
Management Reserve / Construction Contract Contingency Per IIM-LD-249	5.00%	Cell C61 is multiplied by th	e Total Bid Items Cost (H57) to get H61		$\Longrightarrow$	\$ 44,172.56
Railroad Flagging/Coordination		\$0.00	\$ -	Type 1 Percentage	0.00%	\$ -
State Forces		\$ 5,100.00	\$ -	Type 1 Percentage	20.0315%	\$ 6,121.61
State Police		\$ -	\$ -	Type 1 Percentage	0.00%	\$ -
Contract Requirements (Incentive/Disincentive; 5% max)	1.50%	Cell C65 is multiplied by th	e Total Bid Items Cost (H57) to get H65		$\Longrightarrow$	\$ 13,251.77
	Total Non-Bid Items	\$ 5,100.00	\$ -			\$ 63,545.94
Use only if a	pplying <u>one</u> contingency to en		pe and Contingency (Value of Risk): amount; For Type 2 enter \$ amount	Select	0	\$ -
Se	ee Section 5.4.3 in PreCON Manu	al		Tota	I CN Estimate without CEI	\$ 946,997.21
Construction E	ngineering (CEI) Source:	Percentage	CEI is calculated as a Percentage value	of the Total Bid Items Cost (H5	7)	
CEI Environmental Inspection (Enter %)	0.00%	\$ -		Type 1 Percentage	0.00%	\$ -
CEI VDOT or Locality (Enter %)	20.1505%	\$ 178,019.78		Type 1 Percentage	24.0218%	\$ 220,783.24
CEI Oversight Costs (Enter %)	0.00%	\$ -		Type 1 Percentage	0.00%	\$ -
					Total CEI	\$ 220,783.24
					Total CN Estimate	\$ 1,167,780.46
	CN Base Estimate Date	6/7/2023				
Phase dates (XX/XX/XXXX)	Start Date	10/13/2026				
			I .			

TOTAL PROJECT COST ESTIMATE (excluding inflation) (PE+RW+CN) \$

	Date of Current Cost					
Total Project Cost Estimate Summary						6/7/2023
Estimate (\$) without Phase LAP OVERSIGHT COST			Contingency (\$)			Total Phase*
E Phase Estimate	\$ 427,278.41	\$	92,721.59		\$	520,000
tW Phase Estimate	\$ 136,735.40	\$	31,233.02		\$	167,968
N Phase Estimate(without CEI)	\$ 774,598.66	\$	172,398.55		\$	946,997
otal CEI	\$ 178,019.78	\$	42,763.47		\$	220,783
N Phase Estimate(with CEI)	\$ 952,618.44	\$	215,162.02		\$	1,167,780
Total Estimate	\$ 1,516,632.24	\$	339,116.63		\$	1,855,749

9/29/2027

See constitute activities, and the constitute of						
Base Estimate <u>Dollar</u> amounts for SMART PORTAL entry:		Risks/Contingency/Unknowns Dollar amounts for SMART PORTAL entr	у			
PE Base Estimate = \$	427,278	PE Phase Risk/Contingency/Unknowns = \$	92,722			
RW Base Estimate = \$	136,735	RW Phase Risk/Contingency/Unknowns = \$	31,233			
CN Base Estimate = \$	774,599	CN Phase Estimate Risk/Contingency = \$ 12	72,399			
		CFI amount = \$ 22	20.783			

## Green Cells require input. Allowance / Contingency are not necessarily required. All others are auto calculating. Estimate the character is a factor of this workbook for informational purposes only.

	Assumptions
See PE Estimate Tool tab.	

Assumptions
See separate PCES estimate document for details and assumptions.
See separate PCES estimate document for details and assumptions.
See separate PCES estimate document for details and assumptions.
See separate PCES estimate document for details and assumptions.

	Assumptions	
See CN Estimate Tool tabs.		
See CN Estimate Tool tabs.		
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See CN Estimate Tool tabs.		
See CN Estimate Tool tabs.		

	Inflation Factors Future Cost (including infl	
	Inflation**	Total Cost***
PE Phase Estimate	1.0000	\$ 520,000
RW Phase Estimate	1.1907	\$ 200,000
CN Phase Estimate(without CEI)	1.2502	\$ 1,183,969
Total CEI	1.2502	\$ 276,031
CN Phase Estimate(with CEI)	1.2502	\$ 1,460,000
Total Estimate	Total:	\$ 2,180,000

<sup>\*\*</sup> Inflation rates taken from VDOT Inflation/Escalation Memorandum, Dated 12/5/2022

<sup>\*\*\*</sup> Total Costs should match with total costs output from SMART Portal.

Virginia Department of Transportation Culpeper District Design Unit

Stone Jail Street (S.R. 1004) and Court Square Sidewalk May 2021

#### Legend

Concrete Sidewalk
Concrete Curbing or Islands

Proposed ROW

Existing ROW (from GIS)Proposed Drainage Easement

Approx. Temp. Easement (grading limits T.B.D.)

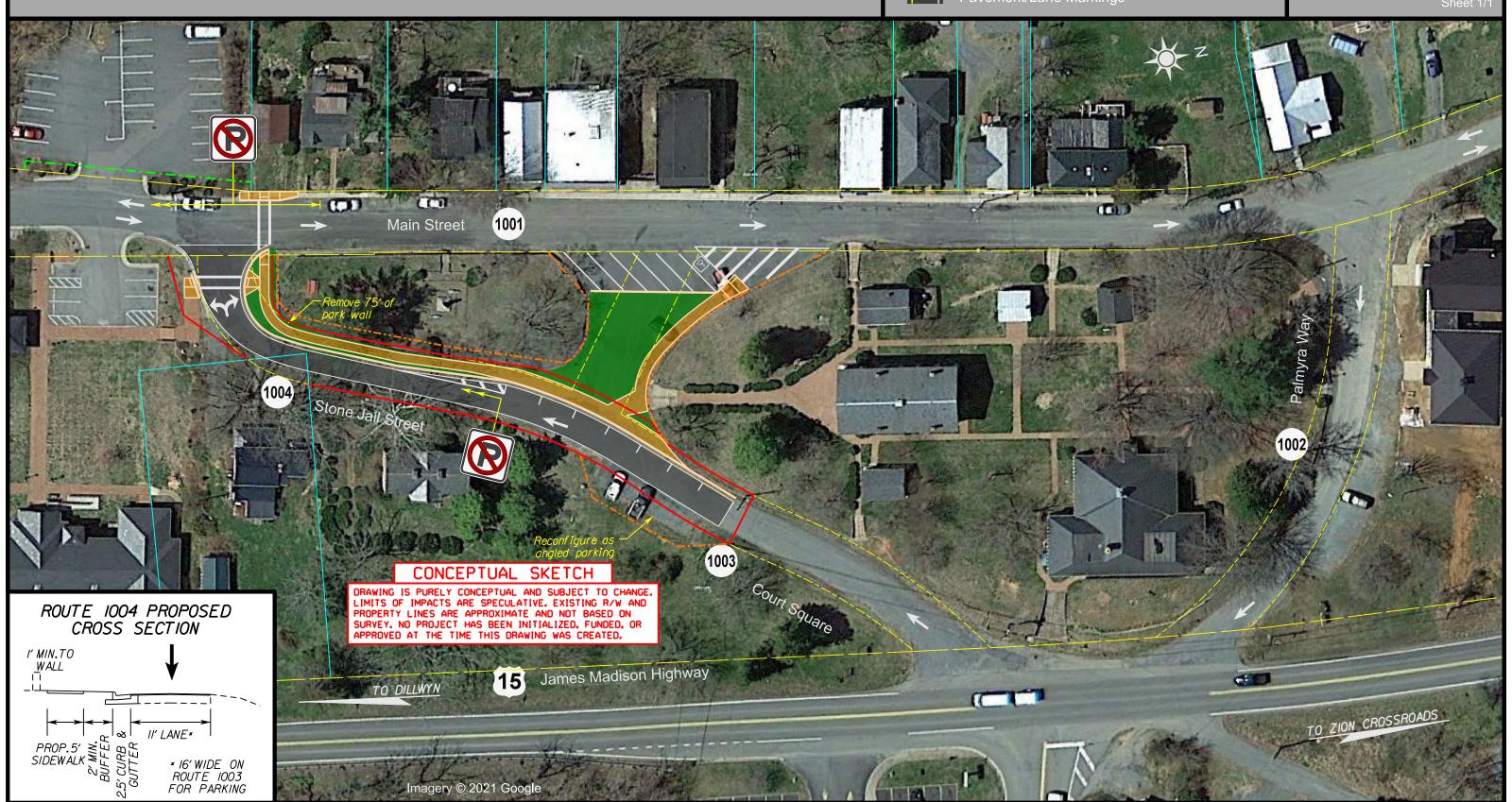
Pavement/Lane Markings

BOS2023-08-02 p.39/212

Location: Fluvanna County

SCALE

Sheet 1/1



#### FLUVANNA COUNTY BOARD OF SUPERVISORS

#### **BCC APPOINTMENTS STAFF REPORT**

MEETING DATE:	June 7, 2023					
AGENDA TITLE:	Board, Commission, and Committee Appointments					
MOTION:	I move the Board of Supervisors approve the following Board, Commission, or Committee appointment(s):					
Board/Commission	/Committee	Appointees	Begins Term	Ends Term		
Monticello Area Cor	mmunity Action Agency (MACAA) – Fluvanna Citizen	Austin Baker	8/2/2023	10/31/2023		
Representative		Austili Bakei	0/2/2023	10/31/2023		
Monticello Area Cor	mmunity Action Agency (MACAA) – Fluvanna Citizen	Samantha Wood	8/2/2023	10/31/2023		
Representative		Samanula vvoou	0/2/2023	10/31/2023		

BCC VACANCIES AND APPLICANTS							
BCC Vacancies	Applicants	Appt	District	Current BCC Appointments / Other Notes			
Monticello Area Community Action Agency (MACAA) – Fluvanna Citizen Representative	Austin Baker	Appt	Rivanna	Unexpired term to begin immediately and end October 31, 2023. Also serving on Region Ten Community Services Board.			
Monticello Area Community Action Agency (MACAA) – Fluvanna Citizen Representative	Samantha Wood	Appt	Palmyra	Unexpired term to begin immediately and end October 31, 2023.			

DISCUSSION:	- Monticello Area Community Action Agency (MACAA) – Fluvanna Citizen Representative – One position available. Unexpired term (previously held by Ryant Washington) ending October 31, 2023.
ENCLOSURES:	Candidate Applications



### APPLICATION TO SERVE ON BOARDS/COMMISSION/COMMITTEES

#### **County of Fluvanna**

Applicants are considered as vacancies occur and your application will be kept on file for three years.

Fluvanna County does not discriminate on the basis of race, color, national origin, sex, religion, age, or disability in employment or the provision of services. Before completing the application, please review the membership requirements for the Board, Commission, or Committee for which you are interested. Applicants who do not meet membership requirements will not be put forward for consideration.

Name:	Election	Columbia	Cunningham	Fork Union					
Austin Baker	District:	Palmyra	Rivanna	Other					
EXPERIENCE/PROFESSIONAL EXPERTISE/EDUCATION (Please provides dates of education and experience. You may also provide a resume/CV.):  B.S. in Psychology - Virginia Tech (Dec 2017)									
B.A. in Economics - Emory & Henry College (Nov 2021) Qualified Mental Health Professional-Child (employment and professional license) (2018-present) Virginia Army National Guard (2018-present) 5 years mental health experience including 3 Community Service Boards									
CURRENT OR PRIOR SERVICE ON BOARDS/COMMISSION:	S/OR COMMITTE	ES:							
CIVIC ACTIVITIES AND MEMBERSHIPS (Roles with fratern	al, business, chur	ch, or social group	s – please provide d	ates):					
Virginia Army National Guard, 2018-Presen									
REASON(S) FOR WANTING TO SERVE FLUVANNA COUNT While I am a native of Southwest Virginia, F of making it better place to live and raise a f	luvanna Cou	nty is my hom	e now and I wa	nt to be a part					

#### Fluvanna County Board, Committee, and Commission Attendance Policy

(Approved June 17, 2015)

- BCC members shall attend at least two-thirds of all scheduled meetings in each calendar year while serving.
- 2. The Chairperson of the board, commission, or committee shall notify the Clerk to the Board of Supervisors of any absences exceeding this policy.
- 3. The Clerk shall report these findings to the Board of Supervisors, typically in closed session.
- 4. Appointees who do not meet the attendance requirement without a valid reason(s) may be deemed to have rendered an implied resignation of that appointment.
- 5. The Board may choose to accept the resignation and appoint another person to fill the appointed position. The Board may also override the implied resignation and extend the appointment, if extenuating circumstances so dictate.
- 6. This requirement shall apply to all boards, commissions, or committees listed on the attached application form, provided however, that if State or County Ordinance addresses attendance requirements in an alternative manner, such law shall prevail.

Ver. May 2021 Page **1** of **2** 

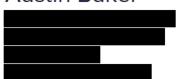
## PLEASE INDICATE BELOW THE BOARDS, COMMISSIONS, OR COMMITTEES (BCC) ON WHICH YOU WISH TO SERVE.

X	ВСС	Х	BCC	X	BCC
	Agricultural/Forestal District Advisory Committee	Х	Finance Board	X	Piedmont Virginia Community College (PVCC) Board
	Board of Equalization (BOE)		Fluvanna Partnership for Aging Committee (FPA)	X	Planning Commission (PC)
	Board of Zoning Appeals (BZA)		Fork Union Sanitary District (FUSD) Advisory Committee	X	Region Ten Community Services Board
	Building Code of Appeals Board	James River Water Authority (JRWA)			Rivanna River Basin Commission
	Central Virginia Regional Jail (CVRJ) Authority		JAUNT Board	X	Social Services Board
	Columbia Task Force (CARE)		Jefferson Area Board of Aging (JABA) Advisory Council	X	Thomas Jefferson Planning District Commission (TJPDC)
	Community Policy & Management Team (CPMT)		Jefferson Area Board of Aging (JABA) Board of Directors		Thomas Jefferson Water Resources Protection Foundation
X	Economic Development Authority (EDA)	X	Library Board of Trustees		
	Economic Develop. & Tourism Advisory Council (EDTAC)	Х	Monticello Area Community Action Agency (MACAA)		
	Family Assessment and Planning Team (FAPT)	Χ	Parks & Recreation Advisory Board (RAB)		

#### Submit by email (clerk@fluvannacounty.org) or mail to: County of Fluvanna, Attention: Clerk, Board of Supervisors, PO Box 540, Palmyra, VA 22963 By signing below you are indicating that you have read and understand the Fluvanna County BCC Attendance Policy and that you agree to abide by the Bylaws of any Board, Commission, or Committee to which you may be appointed. In accordance with Virginia Code §2.2-3705.1, by submitting this application, it is presumed that you are providing your personal contact information to be used for communicating with the County, and unless otherwise indicated by you, your personal contact information will not be shared publicly. Applicant's Signature (Typing name below serves as digital signature) Austin Baker (from file) November 22, 2022 Mailing Address (including City, State, & ZIP) Physical Address (if different) 678 Jefferson Drive, Palmyra, VA 22963 Years Lived in Fluvanna Phone # Alternate Phone # **Email Address** 2 Office Use Only Application Received By: 2022-11-23 Application Received On: Caitlin Solis Acknowledgement Sent: 2022-11-23 Remarks: Renewal Date: Renewal Date: Renewal Date: Renewal Date:

Ver. May 2021 Page 2 of 2

#### Austin Baker



#### SKILLS

-Registered as Qualified Mental Health Professional - Trainee

-Certified for Firefighter I, Hazmat Operations & Awareness, and Mass Casualty Decontamination

-Experience working under stressful conditions, often involving the public

-Experience effectively communicating with individuals from diverse backgrounds, including those in mental health crisis

#### **EXPERIENCE**

Virginia National Guard, Rocky Mount, VA- Chemical, Biological,

Radiological, & Nuclear Specialist

February 2018 - PRESENT

- Knowledgable in chemical, biological, radiological & nuclear agent characteristics and response techniques
- Train soldiers/civilians in the proper use of personal protective equipment and chemical agent monitoring equipment
- Respond to community needs in cooperation with state and local response agencies during times of need (Coronavirus outbreak)

#### **Highlands Community Services, Abingdon, VA** - Therapeutic Day

Treatment Specialist

August 2019 - March 2020

- Worked to support children in developing appropriate behavior and emotional regulation in a public school setting
- Taught coping skills and social skills to elementary-aged children both one-on-one and in groups of 5-10 individuals
- Worked with teachers, school administrators, and mental health professionals to develop treatment plans to improve student classroom behavior and academic performance

#### Frontier Health, Weber City, VA - Case Manager II

October 2018 - August 2019

- Work with mental health and recovering substance abuse clients to develop personalized treatment goals
- Coordinate services with mental health professionals, physicians, and community agencies to ensure clients receive appropriate levels of care and access to available resources

Natural Tunnel State Park, Duffield, VA - Park Ranger

May 2014 - December 2017

- Audit daily park revenue, prepare financial reports and prepare bank deposits with amounts greater than \$10,000
- Teach guests about the park and local history and geography

#### **EDUCATION**

**Virginia Tech, Blacksburg, VA**- Bachelor of Science: Psychology

December 2017



## APPLICATION TO SERVE ON BOARDS/COMMISSION/COMMITTEES County of Fluvanna

Samantha Wood  Mailing Address (including City, State, & ZIP)		lection	Columbia	Cunningham	Fork Union
		District:	Palmyra	Rivanna	Other
		Physical /	Address (if diffe	rent)	
38 Dogleg Road Palmyra, VA 22963					
V II		Dh ( 12	) E 11		
Years Lived in Fluvanna Cell Phone – preferred?	Home	Phone – preferred?	Email		
EXPERIENCE/PROFESSIONAL EXPERTISE/EDUCAT	TION (Please	e provides dates	of education an	nd experience ):	
See Attached	TOW (Ficasi	e provides dates	or concention an	a experience.j.	
CURRENT OR PRIOR SERVICE ON BOARDS/COMM	VISSIONS/C	OR COMMITTEES	:		
See Attached					
CIVIC ACTIVITIES AND MEMBERSHIPS (Roles with	h fraternal,	business, church	n, or social group	ps – please provide	dates):
See Attached					
REASON(S) FOR WANTING TO SERVE FLUVANNA	COUNTY:				
See Attached					
Applicants are considered as vaca	noice cour	r and your applic	estion will be ke	unt on file for three	woore
Fluvanna County does not discriminate on the basis of ra				•	•
-	•	@fluvannacou			
Clerk, Board of By signing below you are indicating that you h	•	ors, PO Box 540 and understand the			ttendance Policy
and that you agree to abide by the Bylaw				•	•
Applicant's Signature (Typing name below	serves as a	digital signature)	Date		
Samantha Wood (Fron	<b>:</b> )	July 2	8, 2023		

Ver. Oct 2017 Page 1 of 2

X	Board, Commission, Committee					
	Agricultural/Forestal District Advisory Committee					
	Audit Committee					
	Board of Equalization (BOE)					
	Board of Zoning Appeals (BZA)					
	Building Code of Appeals Board					
	Central Virginia Regional Jail (CVRJ) Authority					
	Columbia Task Force (CARE)					
	Community Policy & Management Team (CPMT)					
	Economic Development Authority (EDA)					
	Economic Develop. & Tourism Advisory Council (EDTAC)					
	Family Assessment and Planning Team (FAPT)					
	Finance Board					
	Fluvanna Partnership for Aging Committee					
	Fork Union Sanitary District (FUSD) Advisory Committee					
	James River Water Authority (JRWA)					
	JAUNT Board					

X	Board, Commission, Committee (cont.)
	Jefferson Area Board of Aging (JABA) Advisory Council
	Jefferson Area Board of Aging (JABA) Board of Directors
	Library Board of Trustees
Χ	Monticello Area Community Action Agency (MACAA)
	Palmyra Area Revitalization Committee (PARC)
	Parks & Recreation Advisory Board
	Piedmont Virginia Community College (PVCC) Board
	Planning Commission
	Region Ten Community Services Board
	Rivanna River Basin Commission
	Social Services Board
	Thomas Jefferson Planning District Commission (TJPDC)
	Thomas Jefferson Water Resources Protection Foundation
	Youth Advisory Council (YAC)
	OTHER:

#### Fluvanna County Board, Committee, and Commission Attendance Policy

(Approved June 17, 2015)

- 1. BCC members shall attend at least two-thirds of all scheduled meetings in each calendar year while serving.
- 2. The Chairperson of the board, commission, or committee shall notify the Clerk to the Board of Supervisors of any absences exceeding this policy.
- 3. The Clerk shall report these findings to the Board of Supervisors, typically in closed session.
- 4. Appointees who do not meet the attendance requirement without a valid reason(s) may be deemed to have rendered an implied resignation of that appointment.
- 5. The Board may choose to accept the resignation and appoint another person to fill the appointed position. The Board may also override the implied resignation and extend the appointment, if extenuating circumstances so dictate.
- 6. This requirement shall apply to all boards, commissions, or committees listed on the attached application form, provided however, that if State or County Ordinance addresses attendance requirements in an alternative manner, such law shall prevail.

Office Use Only					
Application Received On:	7/28/2023	Application Received By: Caitlin Solis			
Acknowledgement Sent:	7/28/2023				
Renewal Date:		Remarks:			
Renewal Date:					
Renewal Date:					
Renewal Date:					

Ver. Oct 2017 Page 2 of 2

## **EXPERIENCE/PROFESSIONAL EXPERTISE/EDUCATION (Please provide dates of education and experience.):**

June 2001 High School Diploma Albemarle High School Charlottesville, Virginia

May 2004 Associate Degree of Arts in Liberal Arts Piedmont Virginia Community College

Charlottesville, Virginia

August 2006 Baccalaureate Degree of Arts in Sociology College of William and Mary Williamsburg, Virginia

Target graduation date: May 2026 Candidate for Master of Nonprofit Studies School of Professional and Continuing Studies University of Richmond Richmond, Virginia

October 2021- Present National Field Organizer National Alliance to End Homelessness Washington D.C.

July 2019 – October 2021 Rapid Re-Housing Administrator & Haven Housing Fund Administrator The Haven Charlottesville, Virginia

March 2017 – June 2019 Senior Housing Stabilization Case Manager The Haven Charlottesville, Virginia

July 2015 – March 2017 Housing Stabilization Case Manager The Haven Charlottesville, Virginia

October 2014 – May 2015 Housing Coordinator Thrive Healthcare Charlottesville, Virginia January 2014 – October 2014 Lead Community Health Worker Charlottesville-Albemarle Health Department Charlottesville, Virginia

August 2012 – January 2014 Community Specialist WorkSource Enterprises Charlottesville, Virginia

August 2008 – August 2012 Mental Health Case Manager Region Ten Community Services Board Charlottesville, Virginia

April 2007 – August 2008 Case Management Counselor Virginia Department of Corrections Fluvanna Correctional Center for Women Troy, Virginia

#### CURRENT OR PRIOR EXPERIENCE ON BOARDS/COMMISSIONS/COMMITTEES:

Secretary, Community Services Housing Inc. Board of Directors 2023- Present

Member, Community Services Housing Inc. Board of Directors 2018- Present

Member, Board of Directors Served as the Board Liaison for Head Start and member of the Program Evaluation Committee. Monticello Area Community Action Agency 2008- 2013

## CIVIC ACTIVITIES AND MEMBERSHIPS (Roles with fraternal, business, church, or social groups-please provide dates):

As part of my current role with NAEH, I meet with members of Congress to advocate for legislation to end homelessness.

Since being employed at NAEH, I have made strong connections with the National Community Action Partnership.

Mentor, Computers 4 Kids 2007 – 2011

#### REASONS FOR WANTING TO SERVICE FLUVANNA COUNTY:

I am a passionate advocate for our most vulnerable community members. I want to make sure that no one in Fluvanna or the Thomas Jefferson Area Planning District has to worry about

housing instability or homelessness. Being on the MACAA Board again. helps to bring community resources together to help households remain stably housed despite socioeconomic disadvantages. I also want to emphasis diversity, equity and inclusion in MACAA's programming. As a member of the BIPOC community, that is important to me to see a diverse agency with its staff, Board members, community partnerships, funders, and program implementation. Community Action Agencies and the homelessness services field have an opportunity to work alongside each other to end homelessness in our community. I want to help make that happen.

#### Résumé of Samantha Wood

#### **Personal Information**

38 Dogleg Road Palmyra, Virginia 22963

#### Abilities

- -Attention to detail
- -Strong leadership and management techniques
- -Delivering excellent customer service with diverse groups
- -Good sense of humor
- -Adapting to a changing work environment
- -Effective verbal and written communication skills
- -Superb organizational skills

#### Education

May 2004

Associate Degree of Arts in Liberal Arts Piedmont Virginia Community College Charlottesville, Virginia

August 2006

Baccalaureate Degree of Arts in Sociology

College of William and Mary Williamsburg, Virginia

Target graduation date: May 2025

Candidate for Master of Nonprofit Studies School of Professional and Continuing Studies

University of Richmond Richmond, Virginia

#### **Professional Experience**

October 2021- Present National Field Organizer

National Alliance to End Homelessness

Washington D.C.

July 2019 – October 2021 Rapid Re-Housing Administrator & Haven Housing

Fund Administrator

The Haven

Charlottesville, Virginia

March 2017 – June 2019 Senior Housing Stabilization Case Manager

The Haven

Charlottesville, Virginia

July 2015 – March 2017 Housing Stabilization Case Manager

The Haven

Charlottesville, Virginia

October 2014 – May 2015 Housing Coordinator

Thrive Healthcare

Charlottesville, Virginia

January 2014 – October 2014 Lead Community Health Worker

Charlottesville-Albemarle Health Department

Charlottesville, Virginia

August 2012 – January 2014 Community Specialist

WorkSource Enterprises Charlottesville, Virginia

August 2008 – August 2012 Mental Health Case Manager

Region Ten Community Services Board

Charlottesville, Virginia

April 2007 – August 2008 Case Management Counselor

Virginia Department of Corrections Fluvanna Correctional Center for Women

Troy, Virginia

#### **Volunteer Experience**

Member: Justice, Equity, Diversify & Inclusion Workgroup

The Haven

June 2021 to Present

Member, Board of Directors

Monticello Area Community Action Agency

2008-2013

Mentor, Computers 4 Kids

2007 - 2011

#### **Honors and Certifications**

Trauma-Informed Care and Community Resilience Dr. Allison Jackson and Community Resilience Initiative

#### March 2019

Notary Public Secretary of the Commonwealth Commission expires: May 31, 2023

## FLUVANNA COUNTY BOARD OF SUPERVISORS AGENDA ITEM STAFF REPORT

TAB G

MEETING DATE:	August 2, 2023									
AGENDA TITLE:	Zion Crossro	Zion Crossroads Route 250 / Route 15 Wastewater Preliminary Engineering Report								
MOTION(s):	N/A									
BOS 2 YEAR GOALS?	Yes	No X		If yes, which goa	l(s):					
AGENDA CATEGORY:	Public Hearing Action Matter Presentation Consent Agenda Other									
STAFF CONTACT(S):	Eric Dahl, Co	unty Admini	strator	^						
PRESENTER(S):	Eric Dahl, County Administrator									
RECOMMENDATION:	Approve									
TIMING:	Routine									
DISCUSSION:	is to dev thoroug serve the for the particle. The anti Wastew	elop update h conceptual e study area, oroposed was cipated majorater System Zion Crossro Zion Crossro Route 15 Waproject area Trunk sewer convey to the Route 15 Wary Engineers in and conve	d wastew I layout o , size the stewater or compo include: ads Wast ads WWI astewater – (new) (s) to coll e existing WPS force will prov	Route 15 Corridor vater demand projet the backbone was backbone system foollection and connents of the Route ewater Pump Station Station located wastewater from Zion WWPS or the emain – (new) ide a high level sunstem options and contact of the stem options are stem options.	ections for the ar stewater system facilities, and to p veyance system 250 / Route 15 ( on (WWPS) – (ex isting) ated in the south om within the pro- e Route 15 WWP	ea, present a necessary to provide a cost expansion. Corridor sisting) ern area of the pject area and S – (new)				
FISCAL IMPACT:	To be determined, until an option is selected.									
POLICY IMPACT:	N/A									
LEGISLATIVE HISTORY:	N/A					N/A				

ENCLOSURES:	<ul> <li>Zion Crossroads Route 250 and Route 15 Wastewater System PER</li> <li>Dewberry PER Presentation</li> </ul>						
	Legal	Finance	Purchasing	HR	Other		
REVIEWS COMPLETED:					х		



### Preliminary Engineering Report

# **Zion Crossroads Route 250 and Route 15 Wastewater System**

Fluvanna County, Virginia

DDI Project No.: 50150417

June 2023



PREPARED BY:

#### Dewberry

4805 Lake Brook Drive, Suite 200 Glen Allen, Virginia 23060 804.290.7957

PREPARED BY:

## Fluvanna County Department of Public Works

197 Main Street P.O. Box 540 Palmyra, VA 22963

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Appendix A – Pump Selections

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#### 1. Introduction

Presented herein are the findings of the Route 250 and Route 15 Wastewater System Preliminary Engineering Report (PER). This project proposes a new gravity sewer, force main, and Route 15 Wastewater Pump Station (Rte 15 WWPS) based on the following items from the Fluvanna County Utilities Master Plan (UMP):

- Gravity Sewer SSZXR-0009-2030
- Force Main SSZXR-0008-2030
- Pump Station SSZXR-0008-2030

**Figure 1-1** displays the future sewer improvement phasing map from the UMP. Gravity sewer SSZXR-0009-2030, force main SSZXR-0008-2030, and pump station SSZXR-0008-2030 are shown as part of the 2022-2030 proposed infrastructure phase. **Figure 1-1** has been modified from the UMP to display the service area for the Rte 15 WWPS.

For this report, analyses were performed for three gravity sewer options, five force main options, and three potential Rte 15 WWPS locations in a similar area to the SSZXR-0009-2030 gravity sewer, SSZXR-0008-2030 force main, and SSZXR-0008-2030 pump station. However, developer interest necessitates that the Rte 15 WWPS be moved further south than the SSZXR-0008-2030 pump station shown on **Figure 1-1** in order to allow for a larger service area. Therefore, the SSZXR-0009-2030 gravity sewer will be extended further south while the SSZXR-0008-2030 force main and SSZXR-0008-2030 pump station will be eliminated, saving interim project costs for the County.

The three proposed gravity sewer options are planned to serve parcels west of Route 15 while the Rte 15 WWPS is planned to serve the same parcels in addition to parcels to the east. Sewer flow projections for the Zion Crossroads Area were performed to determine proper pump station sizing, gravity sewer sizing, and force main sizing. Sewer flow projections were performed by utilizing low, medium, and high-density capacities in line with what was used in the UMP.

The gravity sewer analysis for this report encompasses preliminary routing, existing conflicts, easement acquisitions, environmental considerations, and construction cost estimates. All three gravity sewer options have the same alignment at the beginning of the flow path near Route 250. The gravity sewer options begin to diverge once their alignments pass the Virginia School of Metal. Furthermore, five force main options are analyzed, all of which discharge at the Existing Zion Crossroads WWPS. The force main analysis for this report encompasses a hydraulic analysis, existing conflicts, easement acquisition evaluation, environmental considerations, construction cost estimates, and power consumption. Pumps were sized for each potential Rte 15 WWPS site and a conceptual pump station plan was developed. Additionally, the advantages and disadvantages of the potential project build-out scenarios were summarized.

This evaluation will provide necessary information for Fluvanna County to make a decision regarding the most desirable gravity sewer route, force main route, and Rte 15 WWPS location for wastewater system expansion in the Zion Crossroads Area.

#### 1.1. BACKGROUND

As stated in the introduction, the Rte 15 WWPS will serve as the regional pump station for specified parcels in the Zion Crossroads development area. Section 3 evaluates the sewer flow projections for the Rte 15 WWPS service area. Based on those sewer flow projections, the pump station was sized. Additionally, a new force main will discharge wastewater from the Rte 15 WWPS to the existing Zion Crossroads WWPS. The existing Zion Crossroads WWPS and force main will continue to pump wastewater to the Department of Corrections Wastewater Treatment Plant (DOC WWTP).

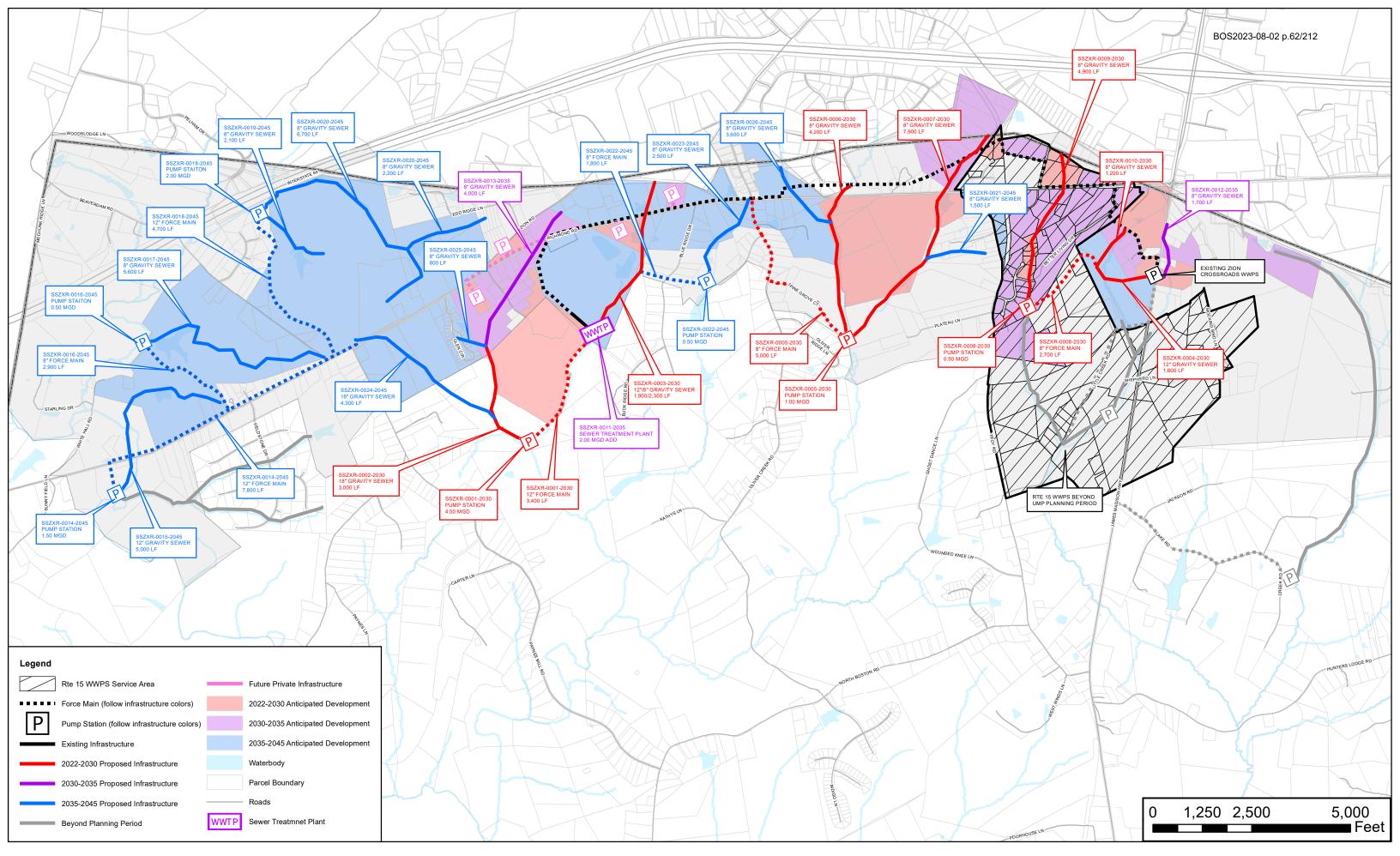


Figure 1-1: Zion Crossroads Future Improvement Phasing from 2022 UMP

#### 1.2. REFERENCED INFORMATION

The following information was referenced in order to perform the evaluation summarized in this report:

#### **Record Drawings:**

- 1. Zion Crossroads Water Booster Pump Station and Wastewater Pump Station, Fluvanna County, Virginia, Dewberry, May 2018.
- 2. Zion Crossroads Water and Sewer System, Fluvanna County, Virginia, Dewberry, Fluvanna County, Virginia, Dewberry, April 2020.

#### Reports:

1. Fluvanna County Utility Master Plan, Dewberry, September 2022.

#### **GIS Information:**

- 1. Fluvanna County Roads, Fluvanna County GIS, GIS Department, Date Accessed: March 3, 2023.
- 2. Fluvanna County Parcel Data, Fluvanna County GIS, GIS Department, Date Accessed: March 3, 2023.
- 3. Fluvanna County Environmental Data, Fluvanna County GIS, GIS Department, Date Accessed: March 3, 2023.
- 4. Fluvanna County Contours, Fluvanna County GIS, GIS Department, Date Accessed: March 3, 2023.

#### 2. EXISTING FACILITIES

Wastewater from the Rte 15 WWPS will discharge into the existing Zion Crossroads WWPS via the new force main. Therefore, the existing Zion Crossroads WWPS and existing Zion Crossroads force main are a design constraint of the Rte 15 WWPS and new force main.

#### 2.1. EXISTING ZION CROSSROADS WWPS

The existing Zion Crossroads WWPS which has a firm pumping capacity of 1.0 MGD, is located at 21337 James Madison Hwy, Troy, VA 22974. The pump station is a wet-pit submersible station equipped with two (2) 70-HP Flygt model NP 3202 HT, submersible sewage pumps sized for 710 GPM at 162 feet of total dynamic head (TDH). The pump station site generally consists of a precast wet well, control building, and backup generator. Security fencing is installed onsite. The control building has two isolated rooms that are accessed from outdoors. One room houses the valves and flow meter while the other room houses the electrical control panels. The wet well is accessed from a hatch on the east side of the control building while the generator is located on the west side of the control building. There are provisions for a future bioxide system to be installed on site, but it has not been installed to date.

#### 2.2. EXISTING ZION CROSSROADS FORCE MAIN

The existing Zion Crossroads force main shown in **Figure 2-1** conveys wastewater from the existing Zion Crossroads WWPS to the DOC WWTP. Much of the force main alignment runs along the north side of Route 250. The force main is composed of 8" pipe from the existing WWPS to parcel 51-16-77 where it increases to 10" pipe and continues to the DOC WWTP for discharge.

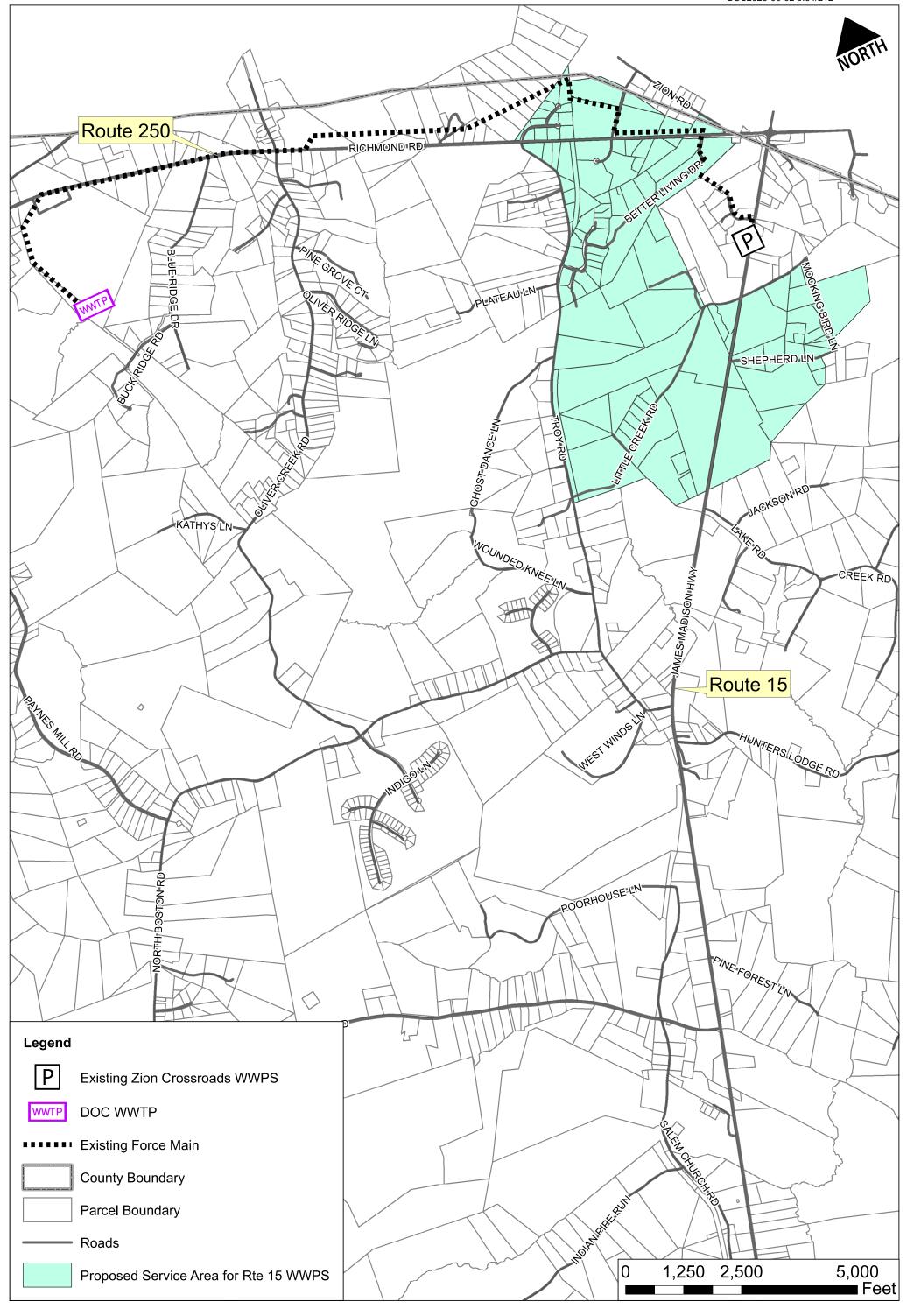


Figure 2-1: Proposed Service Area for Rte 15 WWPS

#### 3. SEWER FLOW PROJECTIONS

Sewer flow projections were performed for the areas being serviced by the new gravity sewer and Rte 15 WWPS. The new gravity sewer will serve parcels west of Route 15 while the Rte 15 WWPS will serve the same parcels in addition to parcels to the east, see **Figure 3-1** for reference. In accordance with UMP methodology, sewer flow projections were performed by utilizing low, medium, and high-density capacities, where low density is considered 500 gpd per acre, medium density is considered 1,000 gpd per acre, and high density is considered 1,500 gpd per acre. Low, medium, and high capacities will not be utilized for the existing development areas identified in the UMP since sewer flow projections were already performed for these parcels.

**Table 3-1** displays peak hour flow derivation for gravity sewer and pump station sizing given low, medium, and high density capacities. The peak hour flow is the design constraint for gravity sewer and pump station sizing. Average daily flow rates for the pump station are pulled from the west service area and east service area while the average daily flow rates for the gravity sewer are pulled from only the west service area. The total average daily flow rates for the pump station and gravity sewer are multiplied by the corresponding peak hour factor to determine the peak hour flow

Table 3-1: Sewer Flow Projections

Average Daily Flow (gpd)									
	Area	Low Density	Medium Density	High Density					
	(ac)	(500 gpd/ac)	(1000 gpd/ac)	(1500 gpd/ac)					
East Service Area	313.8	157,000	314,000	471,000					
West Service Area (not included in UMP)	283.6	142,000	284,000	425,000					
West Service Area (included in UMP)	216.9		201,000						
Total Average Daily Flow to Gravity Sewer (gpd) <sup>1</sup>		343,000	485,000	626,000					
Total Average Daily Flow to Rte 15 WWPS (gpd) <sup>2</sup>	Total Average Daily Flow to Rte 15 WWPS (gpd) <sup>2</sup> 500,000 799,000 1,097,000								
West Service Area from UMP Projections + West Service Area (Not Included in UMP Projections)     East Service Area + West Service Area from UMP Projections + West Service Area (Not Included in UMP Projections)									
Gravit	y Sewer Sizing								
Average Daily Flow	MGD	0.34	0.49	0.63					
Calculated Peak Hour Factor		3.39	3.26	3.15					
Peak Hour Flow	MGD	1.16	1.58	1.98					
Peak Hour Flow	gpm	808	1,096	1,371					
Rte 1	WWPS Sizing								
Average Daily Flow	MGD	0.50	0.80	1.10					
Calculated Peak Hour Factor		3.24	3.05	2.91					
Peak Hour Flow	MGD	1.62	2.44	3.20					
Peak Hour Flow	gpm	1,126	1,691	2,220					

Service area development will not be expected to reach the low sewer flow scenario for over 20 years which is the typical lifespan of the mechanical and electrical components of a pump station. Therefore, the most cost-effective option is to size the Rte 15 WWPS for 1 MGD. Additionally, the DOC WWTP is currently limited to 0.3 MGD and requests have been made to upgrade the plant capacity to 0.6 MGD. It is expected that the maximum future capacity of the DOC WWTP will not exceed 1.8 MGD. The capacity of the Rte 15 WWPS will therefore be limited to 1 MGD.

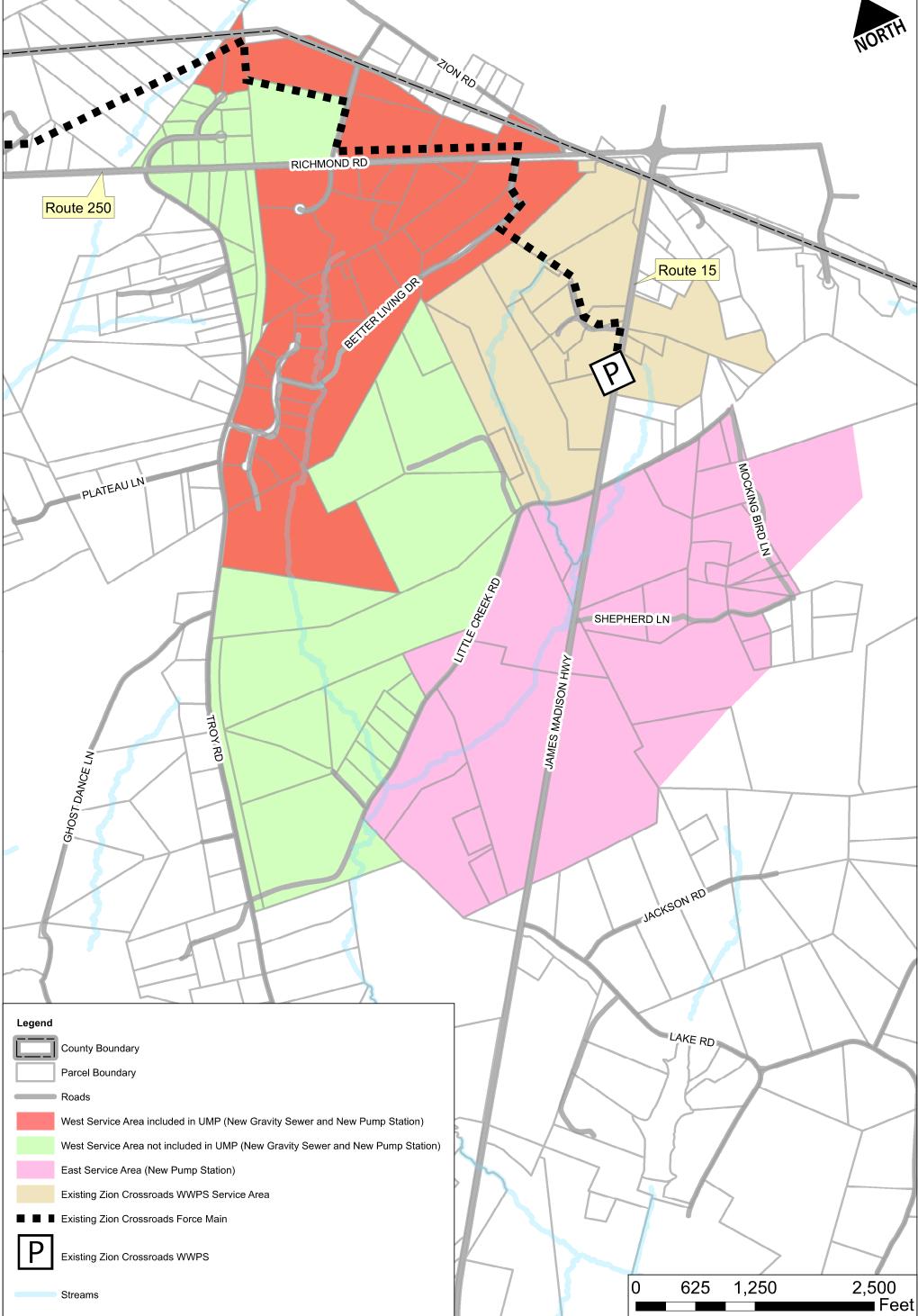


Figure 3-1: Sewer Flow Projections Map for Rte 15 WWPS

#### 4. GRAVITY SEWER ANALYSIS

The gravity sewer analysis considered three gravity sewer options for the Rte 15 WWPS service area. Preliminary routing, existing conflicts, easement acquisitions, environmental considerations, and construction cost estimates were evaluated for each option. All options have the same alignment at the beginning of the flow path. The options begin to diverge once their alignments pass the Virginia School of Metal. A pipe diameter of 12 inches will be utilized to provide a capacity of 1 MGD assuming a minimum slope of 0.22 feet per 100 feet in accordance with the Fluvanna Utility Standards Manual. It may be possible to use 8-inch gravity sewer pipe for the beginning flow path north of the Virginia School of Metal if the flow does not exceed 0.5 MGD. However, future development in this area is still uncertain.

#### 4.1. GRAVITY SEWER OPTION 1

#### 4.1.1. PRELIMINARY ROUTING

Gravity sewer option 1 consists of approximately 8,980 linear feet of 12-inch pipe. A preliminary profile is shown in **Figure 4-1**, and the preliminary alignment is shown in **Figure 4-2**. A minimum cover of 3.5 feet and maximum cover of 20 feet was used for profile alignment design constraints. The maximum cover constraint could not be met given the topography of the gravity sewer path. The maximum cover is approximately 26 feet at a station of approximately 57.50+00. Along the entirety of its alignment, the slope of gravity sewer option 1 meets the required minimum slope of 0.40 feet per 100 feet for 8-inch pipe and 0.22 feet per 100 feet for 12-inch pipe.

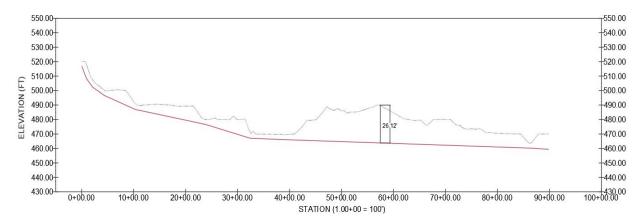


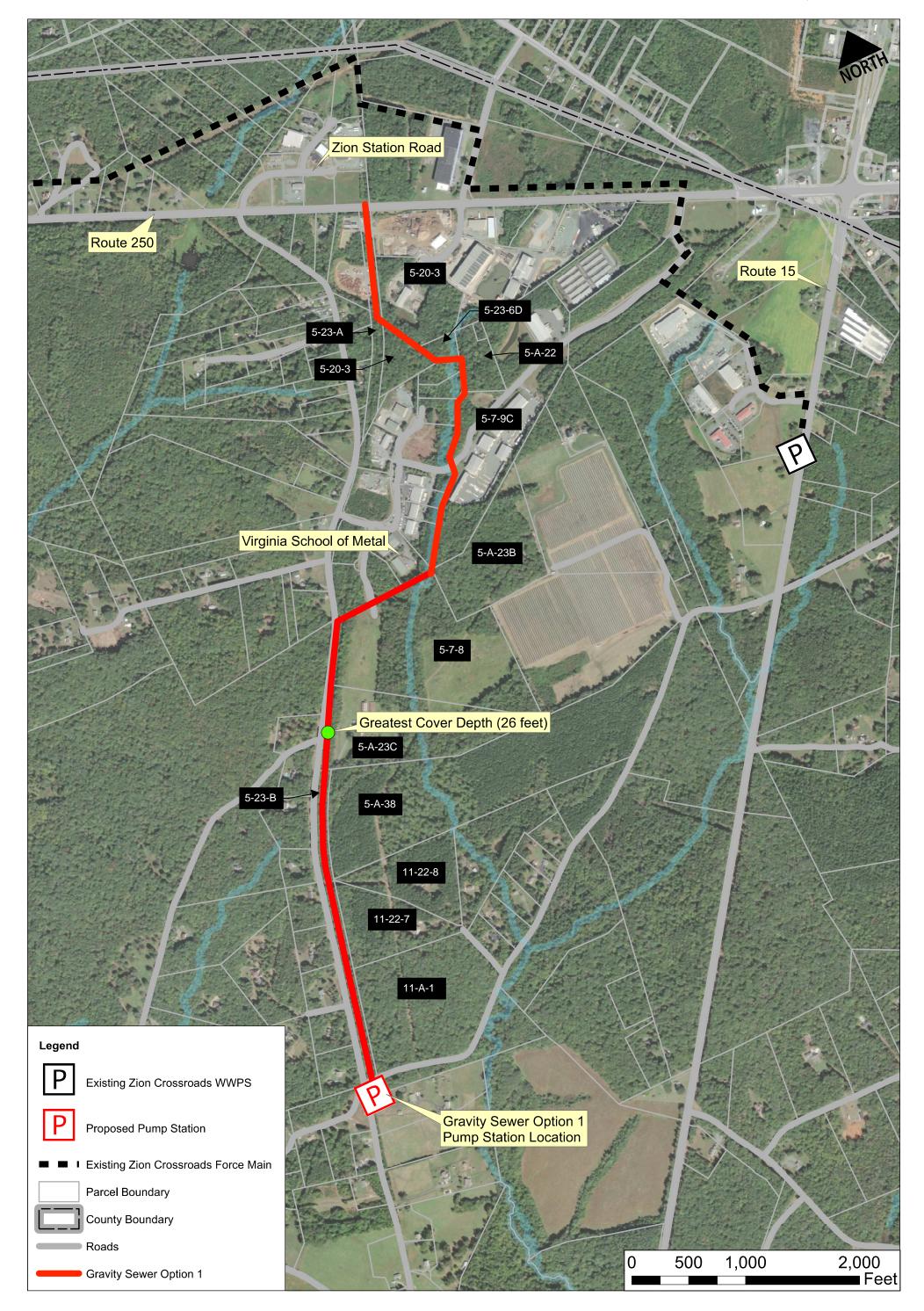
Figure 4-1: Gravity Sewer Option 1 Profile Alignment

#### 4.1.2. Existing Conflicts

The gravity sewer option 1 alignment crosses Route 250, Better Living Drive, Industrial Court, and Little Creek Road. The alignment also runs along a private road on parcel 5-23-A owned by Van Der Linde Housing Inc. The end of the alignment runs adjacent to Troy Road for approximately 4,130 feet and crosses a driveway in parcel 5-A-23C owned by Donald A Fritzsimons.

#### 4.1.3. EASEMENT ACQUISITION

Easements will be required for the gravity sewer routed outside the VDOT right-of-way or property not owned by the County. A permanent utility easement of 20 feet plus an additional 20 feet for temporary construction was assumed to calculate total acreage required. 50% of the total land value per acre was assumed for the permanent easement, and 10% was assumed for temporary construction. Each easement will require that a minimum of \$5000 be paid to the property owner. Additionally, an acquisition fee of \$7,500 was assumed for each easement.



Dewberry

**Table 4-1** displays easement costs associated with the gravity sewer option 1 alignment. All properties where an easement must be obtained are listed. Property acreage and land value were determined using the County's GIS data.

Table 4-1: Gravity Sewer Option 1 Easement Acquisition

Property Owner	Total Prop. Acreage	Land Value	Price per Acre	LF of Sewer FM on Property	Permanent Easement (Acres) 20' width	Estimated Permanent Easement Cost	Construction Easement (Acres) 20' width	Estimated Construction Easement Cost	Easement Acquisition Fee	Estimated Easement Cost
TRANSPORT ZION LLC JACK AND BORE EASEMENT*	1.95	\$292,800	\$150,153.85	0	0.00	\$0	0.05	\$689	\$7,500	\$12,500
VAN DER LINDE HOUSING INC	4.36	\$8,700	\$1,995.41	1076	0.49	\$493	0.49	\$99	\$7,500	\$12,500
BROWNING-FERRIS INDUSTRIES REPUBLIC SER. PROP.TAX DEPART.	10.00	\$737,500	\$73,750.00	383	0.18	\$6,484	0.18	\$1,297	\$7,500	\$15,281
CB ZCIP LLC	1.55	\$92,800	\$59,870.97	417	0.19	\$5,731	0.19	\$1,146	\$7,500	\$14,378
BHL GROUP LLC,RURAL LAND TRACTS LLC & CATLETT LAND COMPANY LLC	4.00	\$28,000	\$7,000.00	287	0.13	\$461	0.13	\$92	\$7,500	\$12,500
VIRGINIA PROPERTIES LLC	23.80	\$2,380,000	\$100,000.00	1632	0.75	\$37,466	0.75	\$7,493	\$7,500	\$52,459
HUNTERS BRANCH LLC	32.53	\$444,200	\$13,655.09	913	0.42	\$2,862	0.42	\$572	\$7,500	\$12,500
HUNTERS BRANCH LLC EASEMENT SIZE IS HALVED DUE TO RIGHT- OF-WAY*	32.53	\$444,200	\$13,655.09	580	0.13	\$909	0.13	\$182	\$7,500	\$12,500
FITZSIMONS, DONALD A EASEMENT SIZE IS HALVED DUE TO RIGHT- OF-WAY*	19.35	\$128,100	\$6,620.16	778	0.18	\$591	0.18	\$118	\$7,500	\$12,500
HUNTERS BRANCH LLC	6.72	\$13,400	\$1,994.05	2736	1.26	\$1,252	1.26	\$250	\$7,500	\$12,500
TOTAL					3.73	\$56,250	3.78	\$11,939	\$75,000	\$170,000

#### 4.1.4. Environmental Considerations

A preliminary environmental review and permit register is included as **Appendix C**. No known threatened and endangered species were identified in the project area. The gravity sewer option 1 alignment makes multiple stream crossings. The exact number of stream crossings cannot currently be determined until proper surveying is completed. Stream locations were identified using the Fluvanna County GIS database.

#### 4.1.5. CONSTRUCTION COST ESTIMATE

**Table B-1** includes the cost breakdown for gravity sewer option 1 and can be found in **Appendix B**. Route 250 and Route 15 crossings are assumed to be trenchless install while other road crossings are assumed to be open cut installation.

#### 4.2. GRAVITY SEWER OPTION 2

Gravity sewer option 2 starts with the same upstream alignment as options 1 and 3. Option 2 is along the most optimal path for collecting flow by gravity from the selected service areas. However, this option requires more easements than options 1 and 3. A pump station at the end of the option 2 gravity sewer would be located on the southeast corner of Parcel 11-A-1.

#### 4.2.1. Preliminary Routing

Gravity sewer option 2 consists of approximately 8,370 linear feet of 12-inch pipe. The preliminary alignment is shown in **Figure 4-3** and the preliminary profile is shown in **Figure 4-4**. A minimum cover of 3.5 feet and maximum cover of 20 feet was used for profile alignment design constraints. The maximum cover is approximately 10 feet at a station of approximately 50.00+00. Along the entirety of its alignment, the slope of gravity sewer option 2 meets the required minimum slope of 0.40 feet per 100 feet for 8-inch pipe and 0.22 feet per 100 feet for 12-inch pipe.

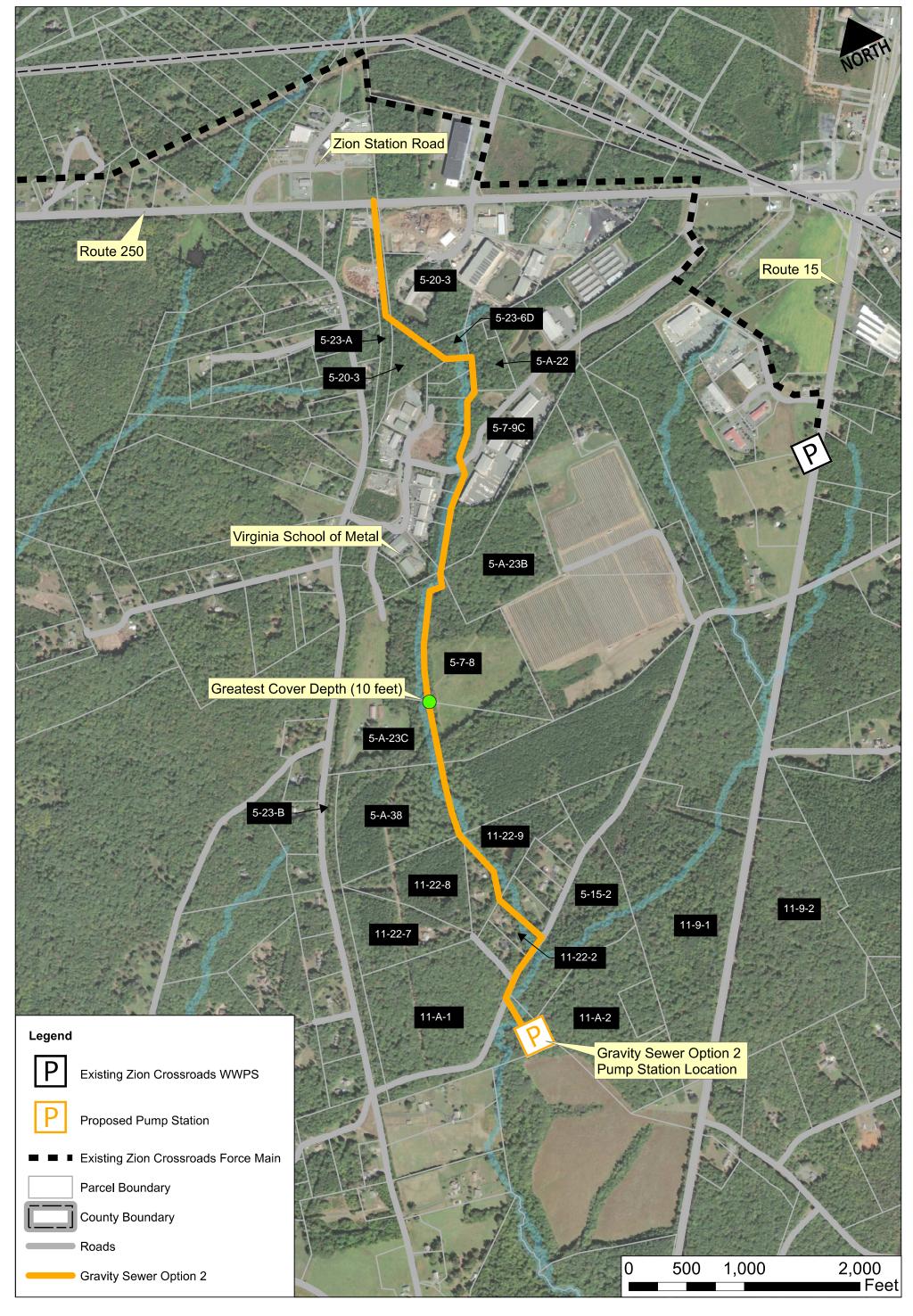


Figure 4-3: Gravity Sewer Option 2 Alignment

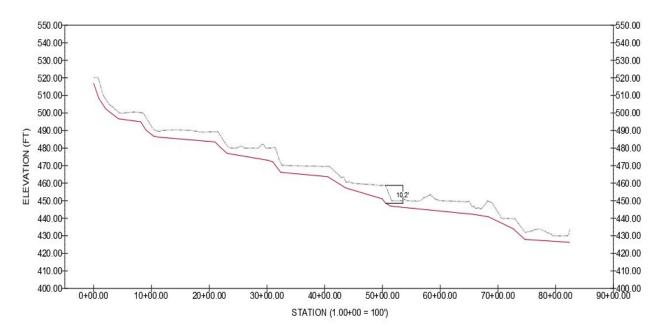


Figure 4-4: Gravity Sewer Option 2 Profile Alignment

#### 4.2.2. EXISTING CONFLICTS

The gravity sewer option 2 alignment crosses Route 250, Better Living Drive, Hunters Creek Lane, Little Creek Road, and Route 15. The alignment also interferes with a private road on parcel 5-23-A owned by Van Der Linde Housing Inc. The end of the alignment crosses through a neighborhood, specifically impacting parcel 11-22-9 owned by Faith D Sullivan and parcel 11-22-2 owned by Chris Browne.

#### 4.2.3. EASEMENT ACQUISITION

Easements will be required for the gravity sewer routed outside the VDOT right-of-way or property not owned by the County. A permanent utility easement of 20 feet plus an additional 20 feet for temporary construction was assumed to calculate total acreage required. 50% of the total land value per acre was assumed for the permanent easement, and 10% was assumed for temporary construction. Each easement will require that a minimum of \$5000 be paid to the property owner. Additionally, an acquisition fee of \$7,500 was assumed for each easement.

**Table 4-2** displays easement costs associated with the gravity sewer option 2 alignment. All properties where an easement must be obtained are listed. Property acreage and land value were determined using the County's GIS data.

Table 4-2:	Gravitu	Sewer	Option 2	Easement A	Acquisition

Property Owner	Total Prop. Acreage	Land Value	Price per Acre	LF of Sewer FM on Property	Permanent Easement (Acres) 20' width	Estimated Permanent Easement Cost	Construction Easement (Acres) 20' width	Estimated Construction Easement Cost	Easement Acquisition Fee	Estimated Easement Cost
TRANSPORT ZION LLC JACK AND BORE EASEMENT*	1.95	\$292,800	\$150,153.85	0	0.00	\$0	0.05	\$689	\$7,500	\$12,500
VAN DER LINDE HOUSING INC	4.36	\$8,700	\$1,995.41	1076	0.49	\$493	0.49	\$99	\$7,500	\$12,500
BROWNING-FERRIS INDUSTRIES REPUBLIC SER. PROP.TAX DEPART.	10.00	\$737,500	\$73,750.00	383	0.18	\$6,484	0.18	\$1,297	\$7,500	\$15,281
CB ZCIP LLC	1.55	\$92,800	\$59,870.97	417	0.19	\$5,731	0.19	\$1,146	\$7,500	\$14,378

Property Owner	Total Prop. Acreage	Land Value	Price per Acre	LF of Sewer FM on Property	Permanent Easement (Acres) 20' width	Estimated Permanent Easement Cost	Construction Easement (Acres) 20' width	Estimated Construction Easement Cost	Easement Acquisition Fee	Estimated Easement Cost
BHL GROUP LLC,RURAL LAND TRACTS LLC & CATLETT LAND COMPANY LLC	4.00	\$28,000	\$7,000.00	287	0.13	\$461	0.13	\$92	\$7,500	\$12,500
VIRGINIA PROPERTIES LLC	23.80	\$2,380,000	\$100,000.00	1608	0.74	\$36,915	0.74	\$7,383	\$7,500	\$51,798
HUNTERS BRANCH LLC	32.53	\$444,200	\$13,655.09	1217	0.56	\$3,815	0.56	\$763	\$7,500	\$12,500
FITZSIMONS, DONALD A	19.35	\$128,100	\$6,620.16	527	0.24	\$801	0.24	\$160	\$7,500	\$12,500
MILLER, PHILLIP C ET AL C/O KATHERINE H CLARK	61.75	\$185,300	\$3,000.81	646	0.30	\$445	0.30	\$89	\$7,500	\$12,500
SULLIVAN, FAITH DENISE	10.46	\$83,100	\$7,944.55	658	0.30	\$1,200	0.30	\$240	\$7,500	\$12,500
BROWNE, CHRIS	2.17	\$45,800	\$21,105.99	528	0.24	\$2,558	0.24	\$512	\$7,500	\$12,500
OSANI, THERESA J EASEMENT SIZE IS HALVED DUE TO RIGHT- OF-WAY*	2.63	\$47,800	\$18,174.90	235	0.05	\$490	0.05	\$98	\$7,500	\$12,500
OLIVER, RUTH C ET AL	29.75	\$119,000	\$4,000.00	450	0.21	\$413	0.21	\$83	\$7,500	\$12,500
TOTAL				8,032	3.63	\$59,807	3.68	\$12,651	\$97,500	\$206,000

#### 4.2.4. Environmental Considerations

A preliminary environmental review and permit register is included as **Appendix C**. No known threatened and endangered species were identified in the project area. The gravity sewer option 2 alignment makes multiple stream crossings. The exact number of stream crossings cannot currently be determined until proper surveying is completed. Stream locations were identified using the Fluvanna County GIS database.

#### 4.2.5. CONSTRUCTION COST ESTIMATE

**Table B-2** includes the cost breakdown for gravity sewer option 2 and can be found in **Appendix B**. Route 250 and Route 15 crossings are assumed to be trenchless install while other road crossings are assumed to be open cut installation.

#### 4.3. GRAVITY SEWER OPTION 3

Gravity sewer option 3 starts with the same upstream alignment as options 1 and 2. The County will pay zero easement costs for the portion of gravity sewer option 3 that runs through developer parcel 11-9-1. Furthermore, gravity sewer option 3 enables a pump station to be built on parcel 11-9-1, relieving the County of paying pump station easement costs.

#### 4.3.1. PRELIMINARY ROUTING

gravity sewer option 3 consists of approximately 7,260 linear feet of 12-inch pipe. The preliminary alignment is shown in **Figure 4-5** and the preliminary profile is shown in **Figure 4-6**. A minimum cover of 3.5 feet and maximum cover of 20 feet was used for profile alignment design constraints. The maximum cover is approximately 17 feet at a station of approximately 66.00+00. Along the entirety of its alignment, the slope of gravity sewer option 3 meets the required minimum slope of 0.40 feet per 100 feet for 8-inch pipe and 0.22 feet per 100 feet for 12 inch pipe.

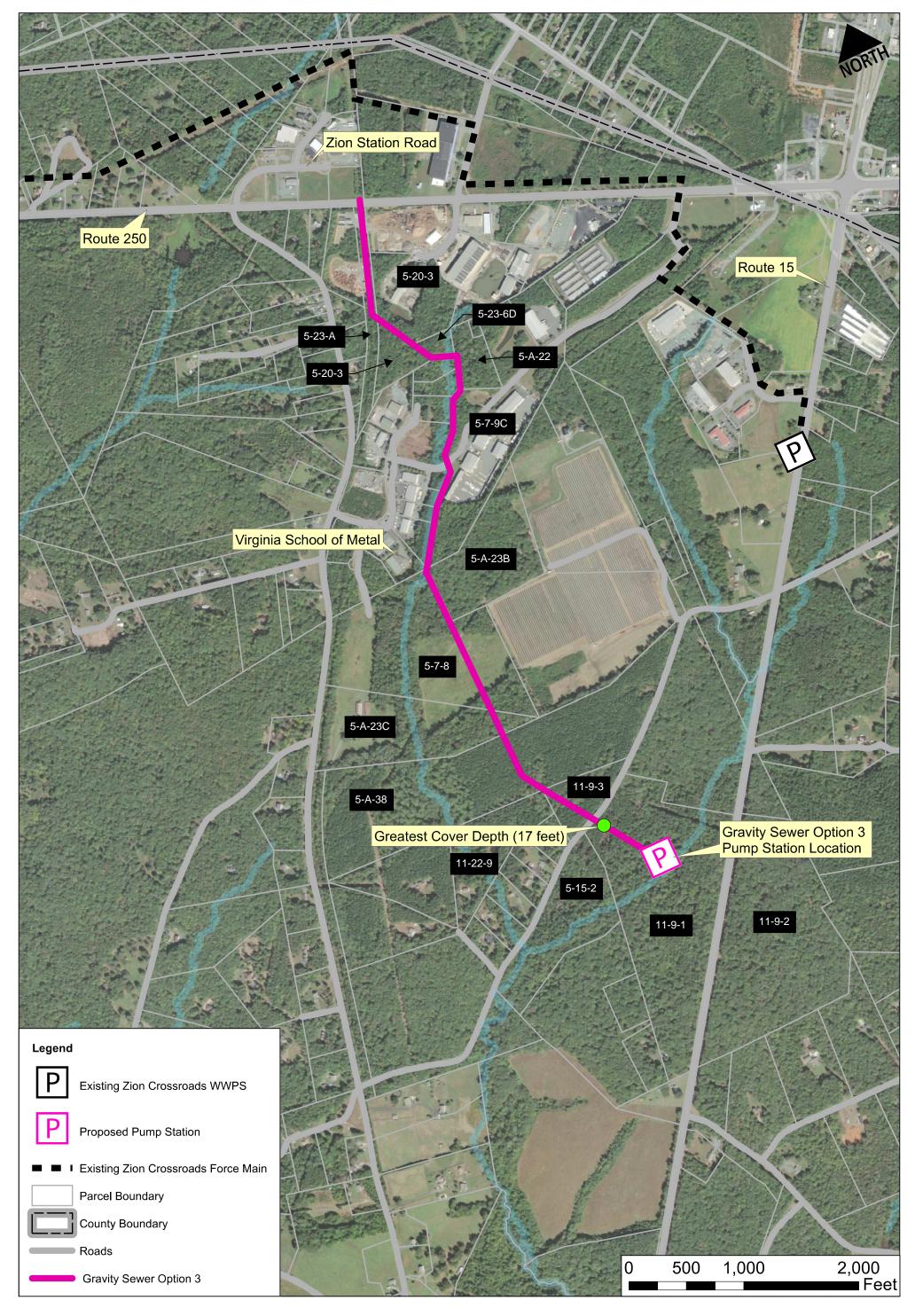


Figure 4-5: Gravity Sewer Option 3 Alignment

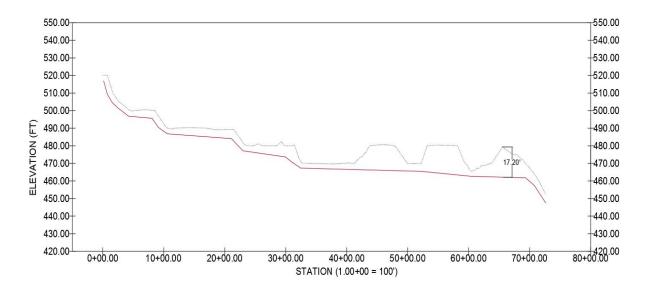


Figure 4-6: Gravity Sewer Option 3 Profile Alignment

# 4.3.2. EXISTING CONFLICTS

The gravity sewer option 3 alignment crosses Route 250, Better Living Drive, Little Creek Road, and Route 15. The alignment also interferes with a private road on parcel 5-23-A owned by Van Der Linde Housing Inc.

# **4.3.3.** EASEMENT ACQUISITION

Easements will be required for the gravity sewer routed outside the VDOT right-of-way or property not owned by the County. A permanent utility easement of 20 feet plus an additional 20 feet for temporary construction was assumed to calculate total acreage required. 50% of the total land value per acre was assumed for the permanent easement, and 10% was assumed for temporary construction. Each easement will require that a minimum of \$5000 be paid to the property owner. Additionally, an acquisition fee of \$7,500 was assumed for each easement.

It should be noted that due to the routing of the gravity sewer in this option, several easements will bisect existing parcels which may be undesirable for the current owners of the parcels.

**Table 4-3** displays easement costs associated with the gravity sewer option 3 alignment. All properties where an easement must be obtained are listed. Property acreage and land value were determined using the County's GIS data.

Table 4-3: Gravity Sewer Option 3 Easement Acquisition

Property Owner	Total Prop. Acreage	Land Value	Price per Acre	LF of Sewer FM on Property	Permanent Easement (Acres) 20' width	Estimated Permanent Easement Cost	Construction Easement (Acres) 20' width	Estimated Construction Easement Cost	Easement Acquisition Fee	Estimated Easement Cost
TRANSPORT ZION LLC JACK AND BORE EASEMENT*	1.95	\$292,800	\$150,153.85	0	0.00	\$0	0.05	\$689	\$7,500	\$12,500
VAN DER LINDE HOUSING INC	4.36	\$8,700	\$1,995.41	1076	0.49	\$493	0.49	\$99	\$7,500	\$12,500
BROWNING-FERRIS INDUSTRIES REPUBLIC SER. PROP.TAX DEPART.	10.00	\$737,500	\$73,750.00	383	0.18	\$6,484	0.18	\$1,297	\$7,500	\$12,500
CB ZCIP LLC	1.55	\$92,800	\$59,870.97	417	0.19	\$5,731	0.19	\$1,146	\$7,500	\$14,378

BHL GROUP LLC, RURAL LAND TRACTS LLC & CATLETT LAND COMPANY LLC	4.00	\$28,000	\$7,000.00	287	0.13	\$461	0.13	\$92	\$7,500	\$12,500
VIRGINIA PROPERTIES LLC	23.80	\$2,380,00 0	\$100,000.00	1608	0.74	\$36,915	0.74	\$7,383	\$7,500	\$51,798
HUNTERS BRANCH LLC	32.53	\$444,200	\$13,655.09	1345	0.62	\$4,216	0.62	\$843	\$7,500	\$12,560
FITZSIMONS, DONALD A	19.35	\$128,100	\$6,620.16	237	0.11	\$360	0.11	\$72	\$7,500	\$12,500
MILLER, PHILLIP C ET AL C/O KATHERINE H CLARK	61.75	\$185,300	\$3,000.81	630	0.29	\$434	0.29	\$87	\$7,500	\$12,500
BHL GROUP LLC, RURAL LAND TRACTS LLC & CATLETT LAND COMPANY LLC	36.19	\$126,700	\$3,500.97	487	0.22	\$391	0.22	\$78	\$7,500	\$12,500
	TOTAL	6,470	2.97	\$55,486	3.02	\$11,787	\$75,000	\$166,000		

## 4.3.4. Environmental Considerations

A preliminary environmental review and permit register is included as **Appendix C**. No known threatened and endangered species were identified in the project area. The gravity sewer option 3 alignment makes multiple stream crossings. The exact number of stream crossings cannot currently be determined until proper surveying is completed. Stream locations were identified using the Fluvanna County GIS database.

#### 4.3.5. CONSTRUCTION COST ESTIMATE

**Table B-3** includes the cost breakdown for gravity sewer option 3 and can be found in **Appendix B**. Route 250 and Route 15 crossings are assumed to be trenchless install while other street crossings are assumed to be open cut install.

# 5. FORCE MAIN ANALYSIS

The force main analysis considered five force main options. All of the options end at the existing Zion Crossroads WWPS. The hydraulic analysis, existing conflicts, easement acquisitions, environmental considerations, construction cost estimates, and power consumption analysis will be discussed for each option. Bentley SewerGEMS software was utilized to model hydraulics. The pipe diameter for all force main options was determined assuming an optimal flow velocity of 3 to 8 meters per second at a design flow rate of 700 gpm (1 MGD). 6 inch, 8 inch, 10 inch and 12 inch diameter pipe result in internal flow velocities of 7.95, 4.46, 2.86, and 1.99 meters per second respectfully. Therefore 8 inch diameter pipe was determined to be the optimal size. The TDH was determined for each force main alignment option. It was assumed that the force main will have a 3-foot cover for the entirety of its alignment.

An additional hydraulic analysis was performed to assess the feasibility of discharging the new force main into the existing Zion Crossroads force main rather than into the existing Zion Crossroads WWPS wet well. SewerGEMS modeling confirmed that discharging into the existing Zion Crossroads force main would overwhelm the pumps at the existing Zion Crossroads WWPS. Therefore, all force main options are assumed to discharge into gravity sewer upstream of the Zion Crossroads WWPS wet well.

## 5.1. FORCE MAIN OPTIONS 1.0 AND 1.1

Force main option 1.0 and option 1.1 are alignment paths starting at the end of the gravity sewer option 1 alignment. Option 1.0 requires approximately 7,930 linear feet of 8" force main while option 1.1 requires approximately 7,880 linear feet of 8" force main.

## 5.1.1. Hydraulic Analysis

The routes identified in **Figure 5-1** and **Figure 5-2** were modeled using Bentley SewerGEMS to determine required TDH and approximate energy usage. The models were run at a fixed rate of 700 gpm, assuming one pump running. Each scenario was run with an 8-inch force main assuming a Hazen-Williams C value of 130. It was determined that force main option 1.0 results in an appropriate TDH of 106 feet while option 1.1 results in an approximate TDH of 105 feet.

## **5.1.2. EXISTING CONFLICTS**

The force main option 1.0 alignment crosses the following:

- Little Creek Rd
- Hunters Creek Ln
- Palmer Farm Ln
- Driveway on Parcel 5-16-2 owned by Dosha H Morris
- Driveway on Parcel 5-16-4A owned by James L Higginbotham

The force main option 1.1 alignment crosses the following:

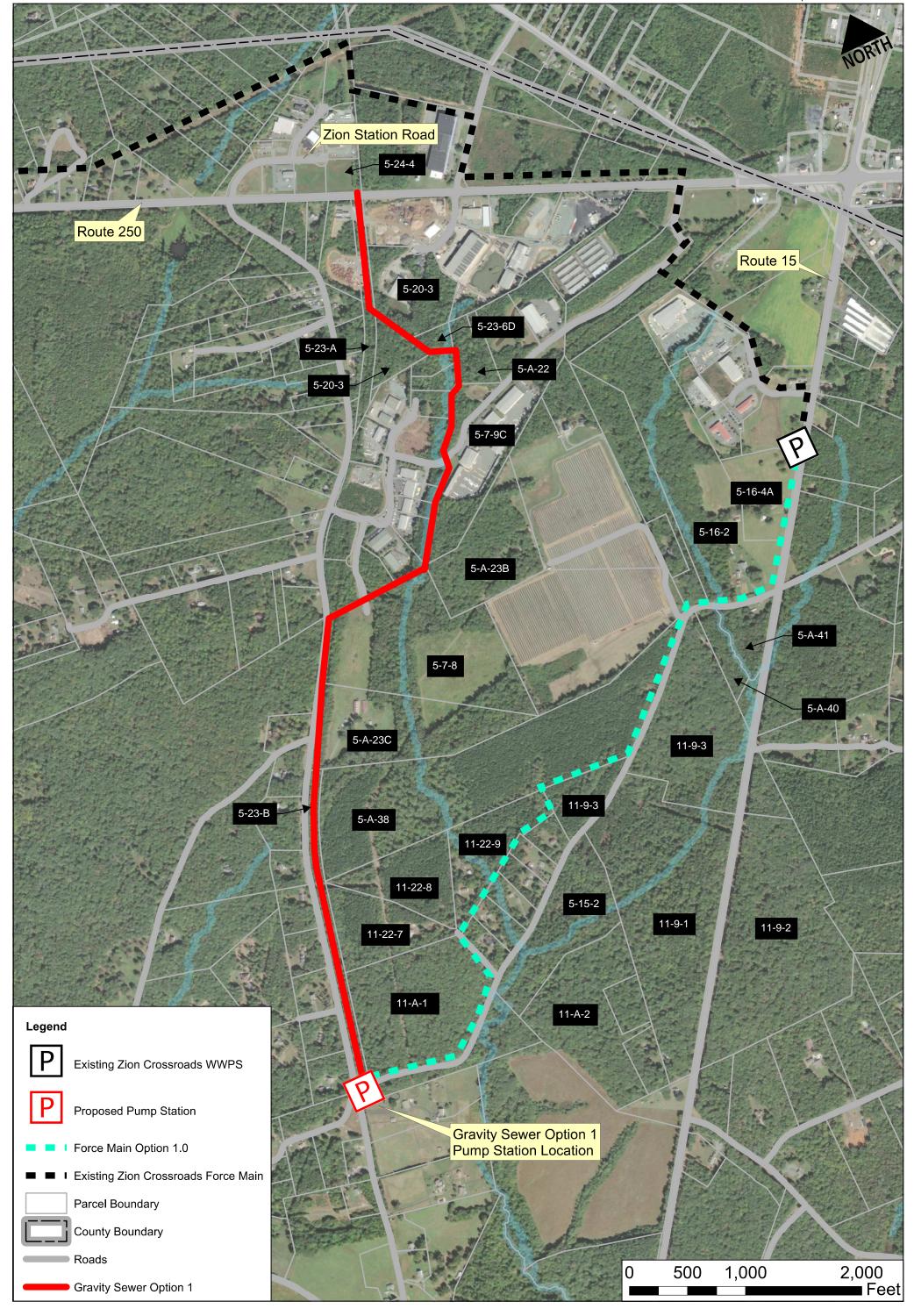
- Little Creek Rd
- Driveway on Parcel 5-16-4A owned by James L Higginbotham

# 5.1.3. EASEMENT ACQUISITION

Easements will be required for the force main routed outside the VDOT right-of-way or property not owned by the County. A permanent utility easement of 20 feet plus an additional 20 feet for temporary construction was assumed to calculate total acreage required. 50% of the total land value per acre was assumed for the permanent easement, and 10% was assumed for temporary construction. Each easement will require that a minimum of \$5000 be paid to the property owner. Additionally, an acquisition fee of \$7,500 was assumed for each easement. **Table 5-1** and **Table 5-2** display easement costs associated with the force main option 1.0 alignment and force main option 1.1 alignment. All properties where an easement must be obtained are listed. Property acreage and land value were determined using the County's GIS data.

Table 5-1: Force Main Option 1.0 Easement Acquisition

Property Owner	Total Prop. Acreage	Land Value	Price per Acre	LF of Sewer FM on Property	Permanent Easement (Acres) 20' width	Estimated Permanent Easement Cost	Construction Easement (Acres) 20' width	Estimated Construction Easement Cost	Easement Acquisition Fee	Estimated Easement Cost
TRANSPORT ZION LLC JACK AND BORE EASEMENT*	1.95	\$292,800	\$150,153.85	0	0.00	\$0	0.05	\$689	\$7,500	\$12,500
OLIVER, RUTH C ET AL EASEMENT SIZE IS HALVED DUE TO RIGHT-OF-WAY*	29.75	\$119,000	\$4,000.00	1972	0.45	\$905	0.45	\$181	\$7,500	\$12,500
WITT, BARRY S & LYN E	10.02	\$81,100	\$8,093.81	69	0.03	\$128	0.03	\$26	\$7,500	\$12,500
SULLIVAN, FAITH DENISE	10.46	\$83,100	\$7,944.55	1542	0.71	\$2,812	0.71	\$562	\$7,500	\$12,500
MILLER, PHILLIP C ET AL C/O KATHERINE H CLARK	61.75	\$185,300	\$3,000.81	782	0.36	\$539	0.36	\$108	\$7,500	\$12,500
MILLER, PHILLIP C ET AL C/O KATHERINE H CLARK EASEMENT SIZE IS HALVED DUE TO RIGHT-OF-WAY*	61.75	\$185,300	\$3,000.81	1244	0.29	\$428	0.29	\$86	\$7,500	\$12,500
FITZSIMONS, DONALD A EASEMENT SIZE IS HALVED DUE TO RIGHT-OF-WAY*	52.11	\$167,350	\$3,211.78	176	0.04	\$65	0.04	\$13	\$7,500	\$12,500
MORRIS, DOSHA H EASEMENT SIZE IS HALVED DUE TO RIGHT-OF-WAY*	34.57	\$169,000	\$4,888.63	567	0.13	\$318	0.13	\$64	\$7,500	\$12,500
	TOTAL					\$5,196	2.05	\$1,729	\$60,000	\$100,000



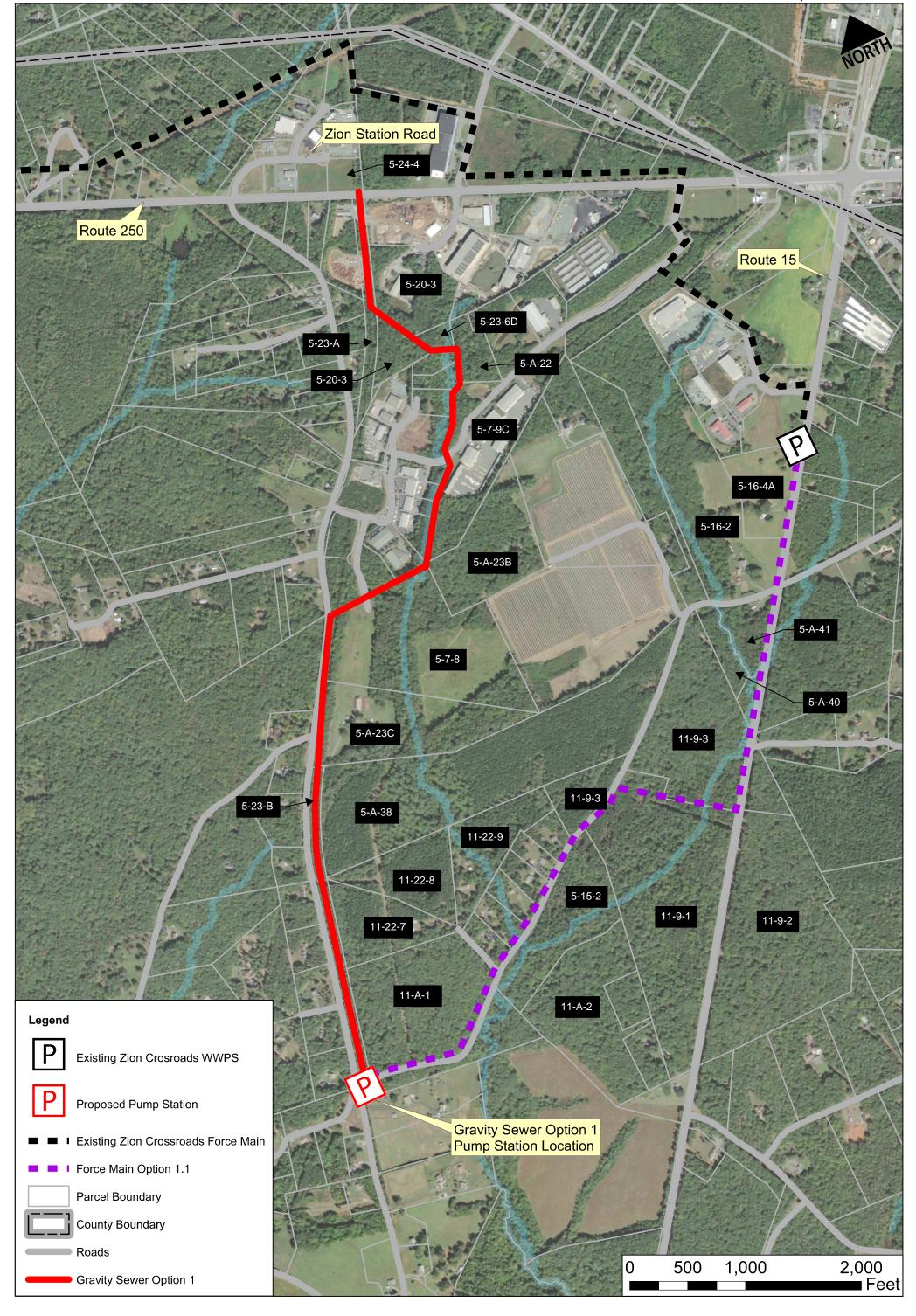


Table 5-2: Force Main Option 1.1 Easement Acquisition

Property Owner	Total Prop. Acreage	Land Value	Price per Acre	LF of Sewer FM on Property	Permanent Easement (Acres) 20' width	Estimated Permanent Easement Cost	Construction Easement (Acres) 20' width	Estimated Construction Easement Cost	Easement Acquisition Fee	Estimated Easement Cost
TRANSPORT ZION LLC JACK AND BORE EASEMENT*	1.95	\$292,800	\$150,153.85	0	0.00	\$0	0.05	\$689	\$7,500	\$12,500
OLIVER, RUTH C ET AL EASEMENT SIZE IS HALVED DUE TO RIGHT-OF-WAY*	29.75	\$119,000	\$4,000.00	1600	0.37	\$735	0.37	\$147	\$7,500	\$12,500
OSANI, THERESA J EASEMENT SIZE IS HALVED DUE TO RIGHT-OF-WAY*	2.63	\$47,800	\$18,174.90	235	0.05	\$490	0.05	\$98	\$7,500	\$12,500
BROWNE, CHRIS EASEMENT SIZE IS HALVED DUE TO RIGHT-OF-WAY*	2.17	\$45,800	\$21,105.99	235	0.05	\$569	0.05	\$114	\$7,500	\$12,500
LAWSON, ROBERT K EASEMENT SIZE IS HALVED DUE TO RIGHT-OF-WAY*	2.07	\$45,300	\$21,884.06	235	0.05	\$590	0.05	\$118	\$7,500	\$12,500
STOWELL, CARL F JR & DEBORAH V EASEMENT SIZE IS HALVED DUE TO RIGHT-OF-WAY*	2.01	\$45,100	\$22,437.81	235	0.05	\$605	0.05	\$121	\$7,500	\$12,500
JONES, DAVID & HANNAH EASEMENT SIZE IS HALVED DUE TO RIGHT-OF-WAY*	2.01	\$45,000	\$22,388.06	235	0.05	\$604	0.05	\$121	\$7,500	\$12,500
KEPHART, ALISON C EASEMENT SIZE IS HALVED DUE TO RIGHT-OF-WAY*	2.01	\$45,100	\$22,437.81	235	0.05	\$605	0.05	\$121	\$7,500	\$12,500
BHL GROUP LLC, RURAL LAND TRACTS LLC & CATLETT LAND COMPANY LLC EASEMENT SIZE IS HALVED DUE TO RIGHT-OF-WAY*	36.19	\$126,700	\$3,500.97	160	0.04	\$64	0.04	\$13	\$7,500	\$12,500
	TOTAL					\$4,263	0.77	\$1,542	\$67,500	\$113,000

## 5.1.4. Environmental Considerations

A preliminary environmental review and permit register is included as **Appendix C**. No known threatened and endangered species were identified in the project area. Force main options 1.0 and 1.1 make multiple stream crossings. The exact number of stream crossings can currently not be determined until proper surveying is completed. Stream locations were identified using the Fluvanna County GIS database.

## 5.1.5. CONSTRUCTION COST ESTIMATE

**Table B-4** and **Table B-** include the cost breakdowns for force main options 1.0 and 1.1, these tables can be found in **Appendix B**. Street crossings are assumed to be open cut install.

### **5.1.6. POWER CONSUMPTION**

Power consumption was estimated based on preliminary modeling results. Assuming one pump running on at average daily flow, the TDH was estimated to be 106 feet for option 1.0 and 105 feet for option 1.1. The efficiency of the pump was assumed to be 66.5% and the efficiency of the motor was assumed to be 95%. Given a pumping rate of 700 gpm, the pump power was estimated to be 20.60 kW for option 1.0 and 20.45 kW for option 1.1.

**Table 5-3** and **Table 5-4** project power consumption given each of the pumping scenarios for 20 years. A total of 25% of the Rte 15 WWPS firm capacity is assumed to be utilized for the first 6 years, 50% for year 7-13, 75% for year 14-19, and 100% for year 20. At year one, a base rate of \$16/month was used, and a combined usage rate of \$0.15/kWh was assumed for consumption. The total estimated power cost of pumping for 20 years at the current rate was estimated to be \$118,000 for option 1.0 and \$117,00 for option 1.1.

Table 5-3: Force Main Option 1.0 Power Consumption Cost Table

Year	Average Usage (MGD)	Peak Hour - 2.5 Factor (MGD)	% of Firm Capacity (1 MGD)	Run Time (Hours/Day)	Run Time (Hours/Year)	Pump Power (kW)	Yearly Energy Usage (kWh)
1	0.10	0.25	25%	2.4	876	20.6	18,046
2	0.10	0.25	25%	2.4	876	20.6	18,046
3	0.10	0.25	25%	2.4	876	20.6	18,046
4	0.10	0.25	25%	2.4	876	20.6	18,046
5	0.10	0.25	25%	2.4	876	20.6	18,046
6	0.10	0.25	25%	2.4	876	20.6	18,046
7	0.20	0.50	50%	4.8	1752	20.6	36,091
8	0.20	0.50	50%	4.8	1752	20.6	36,091
9	0.20	0.50	50%	4.8	1752	20.6	36,091
10	0.20	0.50	50%	4.8	1752	20.6	36,091
11	0.20	0.50	50%	4.8	1752	20.6	36,091
12	0.20	0.50	50%	4.8	1752	20.6	36,091
13	0.20	0.50	50%	4.8	1752	20.6	36,091
14	0.30	0.75	75%	7.2	2628	20.6	54,137
15	0.30	0.75	75%	7.2	2628	20.6	54,137
16	0.30	0.75	75%	7.2	2628	20.6	54,137
17	0.30	0.75	75%	7.2	2628	20.6	54,137
18	0.30	0.75	75%	7.2	2628	20.6	54,137
19	0.30	0.75	75%	7.2	2628	20.6	54,137
20	0.40	1.00	100%	9.6	3504	20.6	72,182
					T01	AL COST:	\$118,000

Table 5-4: Force Main Option 1.1 Power Consumption Cost Table

Year	Average Usage (MGD)	Peak Hour - 2.5 Factor (MGD)	% of Firm Capacity (1 MGD)	Run Time (Hours/Day)	Run Time (Hours/Year)	Pump Power (kW)	Yearly Energy Usage (kWh)
1	0.10	0.25	25%	2.4	876	20.45	17,914
2	0.10	0.25	25%	2.4	876	20.45	17,914
3	0.10	0.25	25%	2.4	876	20.45	17,914
4	0.10	0.25	25%	2.4	876	20.45	17,914
5	0.10	0.25	25%	2.4	876	20.45	17,914
6	0.10	0.25	25%	2.4	876	20.45	17,914
7	0.20	0.50	50%	4.8	1752	20.45	35,828
8	0.20	0.50	50%	4.8	1752	20.45	35,828

Year	Average Usage (MGD)	Peak Hour - 2.5 Factor (MGD)	% of Firm Capacity (1 MGD)	Run Time (Hours/Day)	Run Time (Hours/Year)	Pump Power (kW)	Yearly Energy Usage (kWh)
9	0.20	0.50	50%	4.8	1752	20.45	35,828
10	0.20	0.50	50%	4.8	1752	20.45	35,828
11	0.20	0.50	50%	4.8	1752	20.45	35,828
12	0.20	0.50	50%	4.8	1752	20.45	35,828
13	0.20	0.50	50%	4.8	1752	20.45	35,828
14	0.30	0.75	75%	7.2	2628	20.45	53,743
15	0.30	0.75	75%	7.2	2628	20.45	53,743
16	0.30	0.75	75%	7.2	2628	20.45	53,743
17	0.30	0.75	75%	7.2	2628	20.45	53,743
18	0.30	0.75	75%	7.2	2628	20.45	53,743
19	0.30	0.75	75%	7.2	2628	20.45	53,743
20	0.40	1.00	100%	9.6	3504	20.45	71,657
				_	ТОТ	AL COST:	\$117,000

## 5.2. FORCE MAIN OPTIONS 2.0 AND 2.1

Force main option 2.0 and option 2.1 are alignment paths starting at the end of the gravity sewer option 2 alignment. Option 2.0 requires approximately 6,790 linear feet of 8" force main while option 2.1 requires approximately 6,670 linear feet of 8" force main.

### 5.2.1. HYDRAULIC ANALYSIS

The routes identified in **Figure 5-3** and **Figure 5-4** were modeled using Bentley SewerGEMS to determine required TDH and approximate energy usage. The models were run at fixed rates of 700 gpm, assuming one pump running. Each scenario was run with an 8-inch force main assuming a Hazen-Williams C value of 130. It was determined that force main option 2.0 results in an appropriate TDH of 121 feet while option 2.1 results in an approximate TDH of 117 feet.

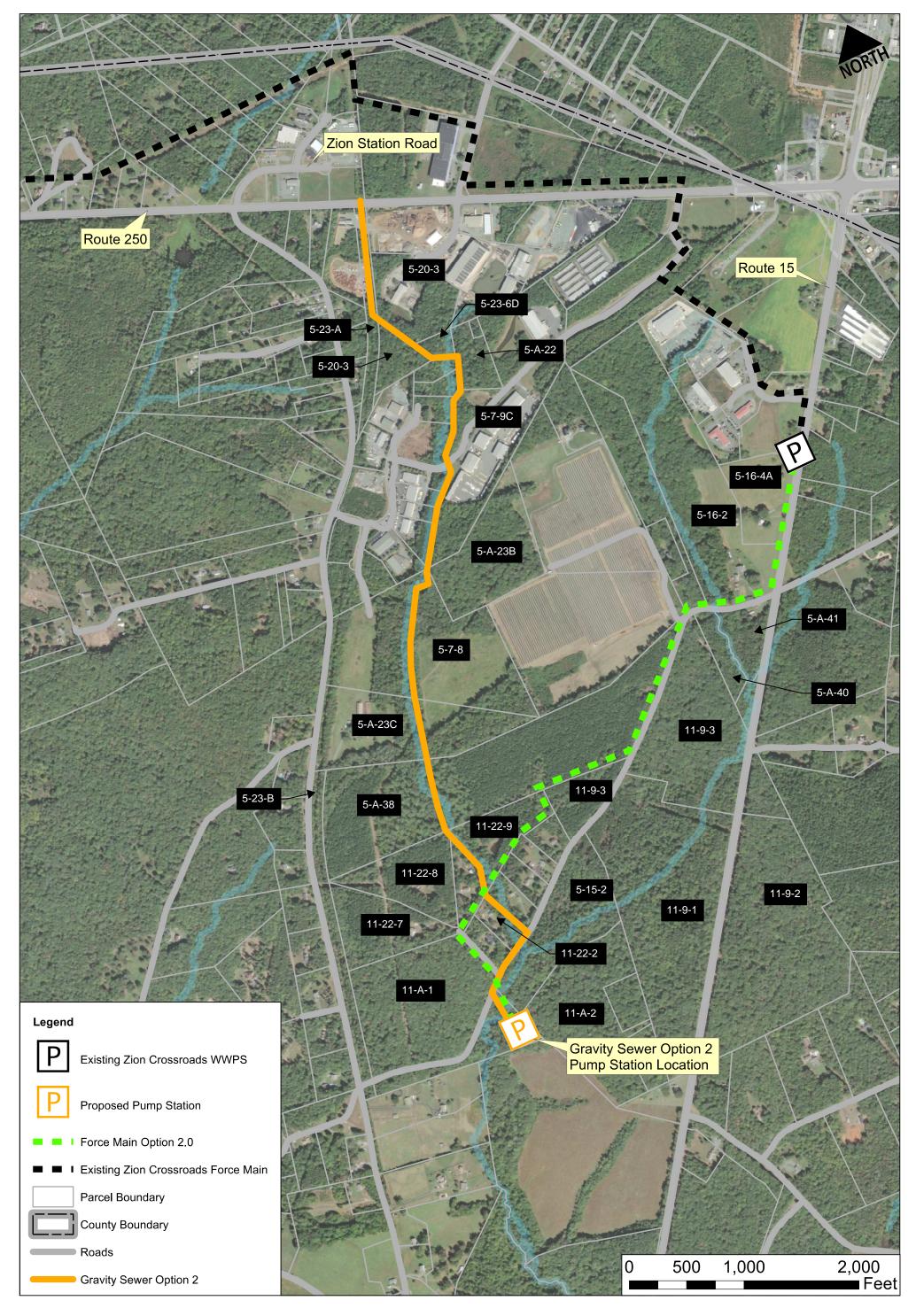
### **5.2.2.** Existing Conflicts

The force main option 2.0 alignment crosses the following:

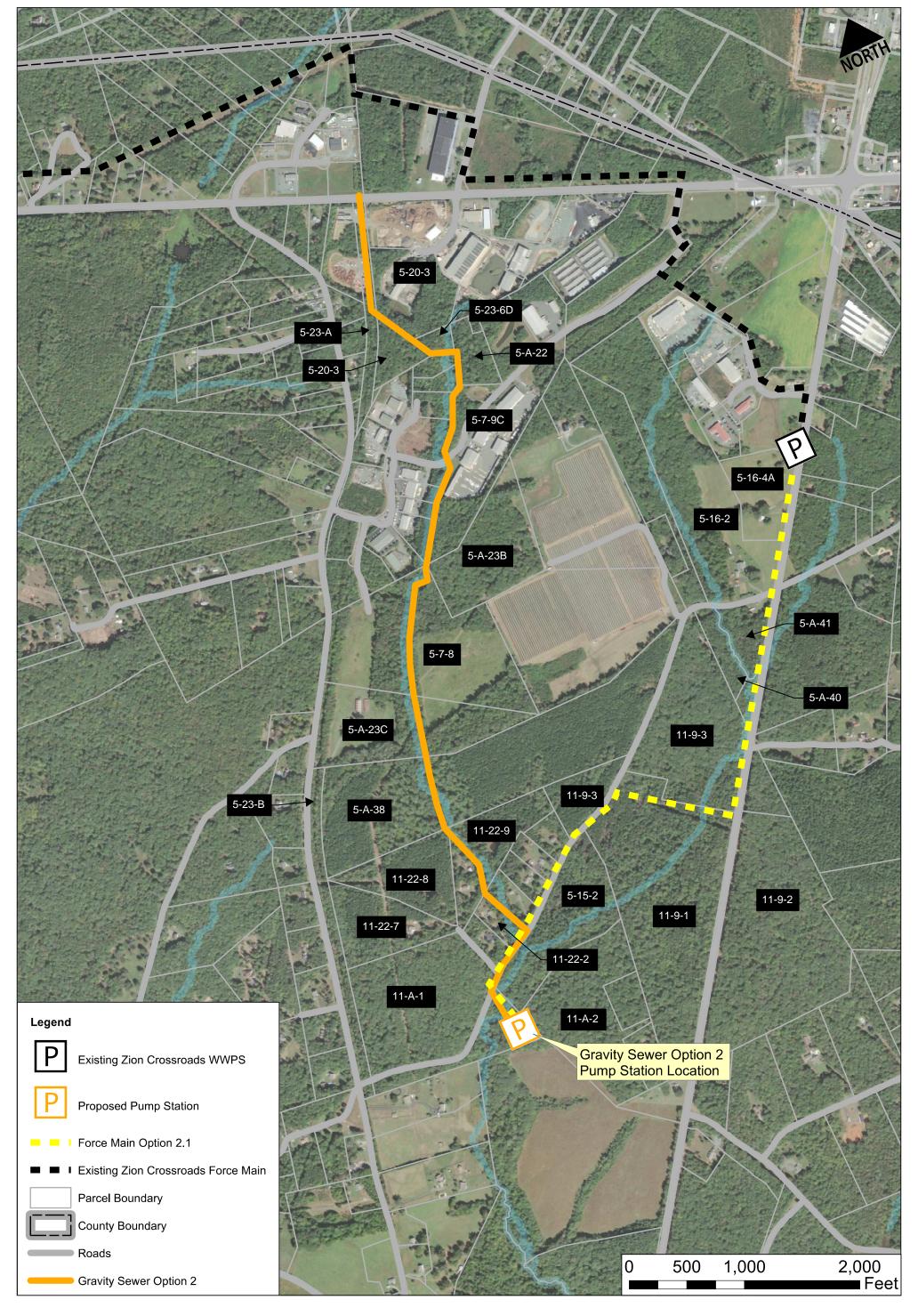
- Little Creek Rd
- Hunters Creek Ln
- Palmer Farm Ln
- Driveway on Parcel 5-16-2 owned by Dosha H Morris
- Driveway on Parcel 5-16-4A owned by James L Higginbotham

The force main option 2.1 alignment crosses the following:

- Little Creek Rd
- Driveway on Parcel 5-16-4A owned by James L Higginbotham



Dewberry



Dewberry

# **5.2.3. EASEMENT ACQUISITION**

Easements will be required for the force main routed outside the VDOT right-of-way or property not owned by the County. A permanent utility easement of 20 feet plus an additional 20 feet for temporary construction was assumed to calculate total acreage required. 50% of the total land value per acre was assumed for the permanent easement, and 10% was assumed for temporary construction. Each easement will require that a minimum of \$5000 be paid to the property owner. Additionally, an acquisition fee of \$7,500 was assumed for each easement.

**Table 5-5** and **Table 5-6** display easement costs associated with the force main option 2.0 alignment and force main option 2.1 alignment. All properties where an easement must be obtained are listed. Property acreage and land value were determined using the County's GIS data.

Table 5-5: Force Main Option 2.0 Easement Acquisition

Property Owner	Total Prop. Acreage	Land Value	Price per Acre	LF of Sewer FM on Property	Permanent Easement (Acres) 20' width	Estimated Permanent Easement Cost	Construction Easement (Acres) 20' width	Estimated Construction Easement Cost	Easement Acquisition Fee	Estimated Easement Cost
TRANSPORT ZION LLC JACK AND BORE EASEMENT*	1.95	\$292,800	\$150,153.85	0	0.00	\$0	0.05	\$689	\$7,500	\$12,500
OLIVER, RUTH C ET AL	29.75	\$119,000	\$4,000.00	1047	0.48	\$961	0.48	\$192	\$7,500	\$12,500
WITT, BARRY S & LYN E	10.02	\$81,100	\$8,093.81	69	0.03	\$128	0.03	\$26	\$7,500	\$12,500
SULLIVAN, FAITH DENISE	10.46	\$83,100	\$7,944.55	1542	0.71	\$2,812	0.71	\$562	\$7,500	\$12,500
MILLER, PHILLIP C ET AL C/O KATHERINE H CLARK	61.75	\$185,300	\$3,000.81	782	0.36	\$539	0.36	\$108	\$7,500	\$12,500
MILLER, PHILLIP C ET AL C/O KATHERINE H CLARK EASEMENT SIZE IS HALVED DUE TO RIGHT-OF-WAY*	61.75	\$185,300	\$3,000.81	1244	0.29	\$428	0.29	\$86	\$7,500	\$12,500
FITZSIMONS, DONALD A EASEMENT SIZE IS HALVED DUE TO RIGHT-OF-WAY*	52.11	\$167,350	\$3,211.78	176	0.04	\$65	0.04	\$13	\$7,500	\$12,500
MORRIS, DOSHA H EASEMENT SIZE IS HALVED DUE TO RIGHT-OF-WAY*	34.57	\$169,000	\$4,888.63	567	0.13	\$318	0.13	\$64	\$7,500	\$12,500
TOTAL				5,427	2.04	\$5,252	2.08	\$1,740	\$60,000	\$100,000

Table 5-6: Force Main Option 2.1 Easement Acquisition

Property Owner	Total Prop. Acreage	Land Value	Price per Acre	LF of Sewer FM on Property	Permanent Easement (Acres) 20' width	Estimated Permanent Easement Cost	Construction Easement (Acres) 20' width	Estimated Construction Easement Cost	Easement Acquisition Fee	Estimated Easement Cost
TRANSPORT ZION LLC JACK AND BORE EASEMENT*	1.95	\$292,800	\$150,153.85	0	0.00	\$0	0.05	\$689	\$7,500	\$12,500
OLIVER, RUTH C ET AL	29.75	\$119,000	\$4,000.00	380	0.17	\$349	0.17	\$70	\$7,500	\$12,500
OLIVER, RUTH C ET AL EASEMENT SIZE IS HALVED DUE TO RIGHT-OF-WAY*	29.75	\$119,000	\$4,000.00	160	0.04	\$73	0.04	\$15	\$7,500	\$12,500
OSANI, THERESA J EASEMENT SIZE IS HALVED DUE TO RIGHT-OF-WAY*	2.63	\$47,800	\$18,174.90	235	0.05	\$490	0.05	\$98	\$7,500	\$12,500
BROWNE, CHRIS EASEMENT SIZE IS HALVED DUE TO RIGHT-OF-WAY*	2.17	\$45,800	\$21,105.99	235	0.05	\$569	0.05	\$114	\$7,500	\$12,500
LAWSON, ROBERT K EASEMENT SIZE IS HALVED DUE TO RIGHT-OF-WAY*	2.07	\$45,300	\$21,884.06	235	0.05	\$590	0.05	\$118	\$7,500	\$12,500
STOWELL, CARL F JR & DEBORAH V EASEMENT SIZE IS HALVED DUE TO RIGHT-OF-WAY*	2.01	\$45,100	\$22,437.81	235	0.05	\$605	0.05	\$121	\$7,500	\$12,500
JONES, DAVID & HANNAH EASEMENT SIZE IS HALVED DUE TO RIGHT-OF-WAY*	2.01	\$45,000	\$22,388.06	235	0.05	\$604	0.05	\$121	\$7,500	\$12,500
KEPHART, ALISON C EASEMENT SIZE IS HALVED DUE TO RIGHT-OF-WAY*	2.01	\$45,100	\$22,437.81	235	0.05	\$605	0.05	\$121	\$7,500	\$12,500
BHL GROUP LLC, RURAL LAND TRACTS LLC & CATLETT LAND COMPANY LLC EASEMENT SIZE IS HALVED DUE TO RIGHT-OF-WAY*	36.19	\$126,700	\$3,500.97	160	0.04	\$64	0.04	\$13	\$7,500	\$12,500
	TOTAL						0.62	\$1,480	\$75,000	\$125,000

## **5.2.4.** Environmental Considerations

A preliminary environmental review and permit register is included as **Appendix C**. No known threatened and endangered species were identified in the project area. Force main options 2.0 and 2.1 make multiple stream crossings. The exact number of stream crossings can currently not be determined until proper surveying is completed. Stream locations were identified using the Fluvanna County GIS database.

## **5.2.5.** CONSTRUCTION COST ESTIMATE

**Table B-6** and **Table B-7** include the cost breakdowns for force main options 2.0 and 2.1, these tables can be found in **Appendix B**. Street crossings are assumed to be open cut install.

### **5.2.6. POWER CONSUMPTION**

Power consumption was estimated based on preliminary modeling results. Assuming one pump running at average daily flow, the TDH was estimated to be 121 feet for option 2.0 and 117 feet for option 2.1. The efficiency of the pump was assumed to be 66.9% and the efficiency of the motor was assumed to be 95%. Given a pumping rate of 700 gpm, the pump power was estimated to be 23.57 kW for option 2.0 and 22.79 kW for option 2.1.

**Table 5-7** and **Table 5-8** project power consumption given each of the pumping scenarios for 20 years. A total of 25% of the Rte 15 WWPS firm capacity is assumed to be utilized for the first 6 years, 50% for year 7-13, 75% for year 14-19, and 100% for year 20. At year one, a base rate of \$16/month was used, and a combined usage rate of \$0.15/kWh was assumed for consumption. The total estimated power cost of pumping for 20 years at the current rate was estimated to be \$134,000 for option 2.0 and \$130,000 for option 2.1.

Table 5-7: Force Main Option 2.0 Power Consumption Cost Table

Year	Average Usage (MGD)	Peak Hour - 2.5 Factor (MGD)	% of Firm Capacity (1 MGD)	Run Time (Hours/Day)	Run Time (Hours/Year)	Pump Power (kW)	Yearly Energy Usage (kWh)
1	0.10	0.25	25%	2.4	876	23.57	20,647
2	0.10	0.25	25%	2.4	876	23.57	20,647
3	0.10	0.25	25%	2.4	876	23.57	20,647
4	0.10	0.25	25%	2.4	876	23.57	20,647
5	0.10	0.25	25%	2.4	876	23.57	20,647
6	0.10	0.25	25%	2.4	876	23.57	20,647
7	0.20	0.50	50%	4.8	1752	23.57	41,295
8	0.20	0.50	50%	4.8	1752	23.57	41,295
9	0.20	0.50	50%	4.8	1752	23.57	41,295
10	0.20	0.50	50%	4.8	1752	23.57	41,295
11	0.20	0.50	50%	4.8	1752	23.57	41,295
12	0.20	0.50	50%	4.8	1752	23.57	41,295
13	0.20	0.50	50%	4.8	1752	23.57	41,295
14	0.30	0.75	75%	7.2	2628	23.57	61,942
15	0.30	0.75	75%	7.2	2628	23.57	61,942
16	0.30	0.75	75%	7.2	2628	23.57	61,942
17	0.30	0.75	75%	7.2	2628	23.57	61,942
18	0.30	0.75	75%	7.2	2628	23.57	61,942
19	0.30	0.75	75%	7.2	2628	23.57	61,942
20	0.40	1.00	100%	9.6	3504	23.57	82,589
	-		•		TOT	AL COST:	\$134,000

Table 5-8: Force Main Option 2.1 Power Consumption Cost Table

Year	Average Usage (MGD)	Peak Hour - 2.5 Factor (MGD)	% of Firm Capacity (1 MGD)	Run Time (Hours/Day)	Run Time (Hours/Year)	Pump Power (kW)	Yearly Energy Usage (kWh)
1	0.10	0.25	25%	2.4	876	22.79	19,964
2	0.10	0.25	25%	2.4	876	22.79	19,964
3	0.10	0.25	25%	2.4	876	22.79	19,964
4	0.10	0.25	25%	2.4	876	22.79	19,964
5	0.10	0.25	25%	2.4	876	22.79	19,964
6	0.10	0.25	25%	2.4	876	22.79	19,964
7	0.20	0.50	50%	4.8	1752	22.79	39,928
8	0.20	0.50	50%	4.8	1752	22.79	39,928
9	0.20	0.50	50%	4.8	1752	22.79	39,928
10	0.20	0.50	50%	4.8	1752	22.79	39,928
11	0.20	0.50	50%	4.8	1752	22.79	39,928
12	0.20	0.50	50%	4.8	1752	22.79	39,928
13	0.20	0.50	50%	4.8	1752	22.79	39,928
14	0.30	0.75	75%	7.2	2628	22.79	59,892
15	0.30	0.75	75%	7.2	2628	22.79	59,892
16	0.30	0.75	75%	7.2	2628	22.79	59,892
17	0.30	0.75	75%	7.2	2628	22.79	59,892
18	0.30	0.75	75%	7.2	2628	22.79	59,892
19	0.30	0.75	75%	7.2	2628	22.79	59,892
20	0.40	1.00	100%	9.6	3504	22.79	79,856
					ТОТ	AL COST:	\$130,000

## 5.3. FORCE MAIN OPTION 3

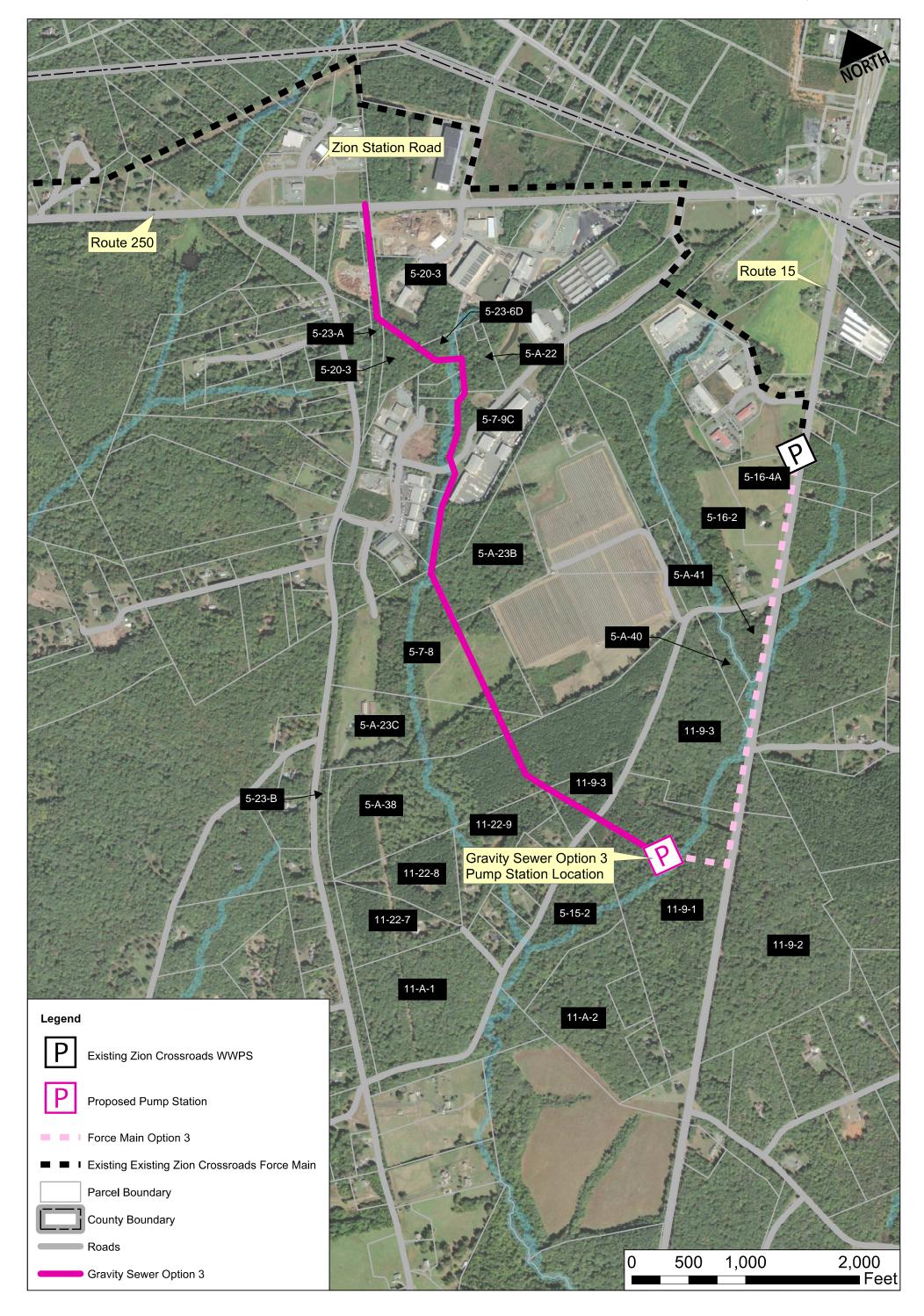
Force main option 3 flows directly from Parcel 11-9-1 to the existing Zion Crossroads and flows parallel to Route 15. Force main option 3 requires approximately 4,390 linear feet of 8" force main. There is interest in this option due to the financial advantages it provides for the County. Developers on Parcel 11-9-1 and 11-9-2 plan to cover the costs associated with the force main option 3 installment.

## 5.3.1. HYDRAULIC ANALYSIS

The route identified in **Figure 5-5** was modeled using Bentley SewerGEMS to determine required TDH and approximate energy usage. The model was run at a fixed rate of 700 gpm, assuming one pump running. The scenario was run with an 8-inch force main assuming a Hazen-Williams C value of 130. It was determined that force main option 3 results in an appropriate TDH of 75 feet.

## **5.3.2. EXISTING CONFLICTS**

Force main option 3 crosses Little Creek Rd and a driveway on Parcel 5-16-4A owned by James L Higginbotham.



# **5.3.3.** EASEMENT ACQUISITION

Easement acquisition costs will be covered by the developers on Parcel 11-9-1 and 11-9-2. Therefore, it is assumed the County will pay zero easement costs for force main option 3.

### **5.3.4.** Environmental Considerations

A preliminary environmental review and permit register is included as **Appendix C**. No known threatened and endangered species were identified in the project area. Force main option 3 makes multiple stream crossings. The exact number of stream crossings can currently not be determined until proper surveying is completed. Stream locations were identified using the Fluvanna County GIS database.

### 5.3.5. CONSTRUCTION COST ESTIMATE

**Table B-8** includes the cost breakdown for force main option 3, this table can be found in **Appendix B**. Street crossings are assumed to be open cut install.

## **5.3.6. POWER CONSUMPTION**

Power consumption was estimated based on preliminary modeling results. Assuming one pump running at average daily flow, the TDH was estimated to be 75 feet for force main option 3. The efficiency of the pump was assumed to be 71.5% and the efficiency of the motor was assumed to be 95%. Given a pumping rate of 700 gpm, the pump power was estimated to be 14.57 kW.

**Table 5-9** projects power consumption given the pumping scenario for 20 years. A total of 25% of the Rte 15 WWPS firm capacity is assumed to be utilized for the first 6 years, 50% for year 7-13, 75% for year 14-19, and 100% for year 20. At year one, a base rate of \$16/month was used, and a combined usage rate of \$0.15/kWh was assumed for consumption. The total estimated power cost of pumping for 20 years at the current rate was estimated to be \$84,000.

Table 5-9: Force Main Option 3 Power Consumption Cost Table

Year	Average Usage (MGD)	Peak Hour - 2.5 Factor (MGD)	% of Firm Capacity (1 MGD)	Run Time (Hours/Day)	Run Time (Hours/Year)	Pump Power (kW)	Yearly Energy Usage (kWh)
1	0.10	0.25	25%	2.4	876	14.57	12,763
2	0.10	0.25	25%	2.4	876	14.57	12,763
3	0.10	0.25	25%	2.4	876	14.57	12,763
4	0.10	0.25	25%	2.4	876	14.57	12,763
5	0.10	0.25	25%	2.4	876	14.57	12,763
6	0.10	0.25	25%	2.4	876	14.57	12,763
7	0.20	0.50	50%	4.8	1752	14.57	25,527
8	0.20	0.50	50%	4.8	1752	14.57	25,527
9	0.20	0.50	50%	4.8	1752	14.57	25,527
10	0.20	0.50	50%	4.8	1752	14.57	25,527
11	0.20	0.50	50%	4.8	1752	14.57	25,527
12	0.20	0.50	50%	4.8	1752	14.57	25,527
13	0.20	0.50	50%	4.8	1752	14.57	25,527
14	0.30	0.75	75%	7.2	2628	14.57	38,290
15	0.30	0.75	75%	7.2	2628	14.57	38,290
16	0.30	0.75	75%	7.2	2628	14.57	38,290
17	0.30	0.75	75%	7.2	2628	14.57	38,290
18	0.30	0.75	75%	7.2	2628	14.57	38,290
19	0.30	0.75	75%	7.2	2628	14.57	38,290
20	0.40	1.00	100%	9.6	3504	14.57	51,053
					T	OTAL COST:	\$84,000

# 6. CONCEPTUAL PUMP STATION

Three Rte 15 WWPS locations were evaluated in this analysis. Rte 15 WWPS location 1 is located at the south end of parcel 5-23-B. Rte 15 WWPS location 2 is located at the southeast corner of parcel 11-A-1. Rte 15 WWPS location 3 is located on the north half of parcel 11-9-1. The Rte 15 WWPS will be a submersible wet pit station with a similar layout to the existing Zion Crossroads WWPS.

# **6.1. PUMP SELECTIONS**

**Figure 6-1** through **Figure 6-5** display the hydraulic grade line (HGL) for each of the force main options. For each figure, the HGL is plotted with the approximate ground elevation and pipe elevation. The hydraulic data is based on the SewerGEMS model of each force main.

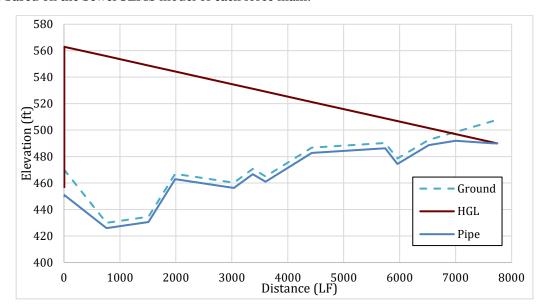


Figure 6-1: Force Main Option 1.0 Profile and Hydraulic Grade Line

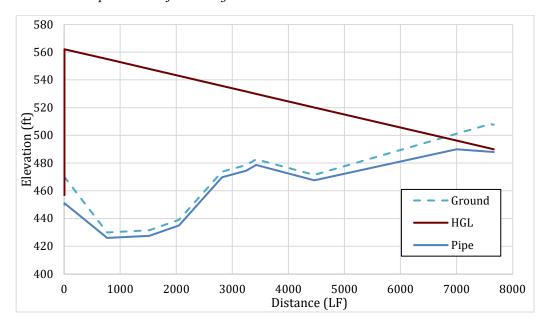


Figure 6-2: Force Main Option 1.1 Profile and Hydraulic Grade Line

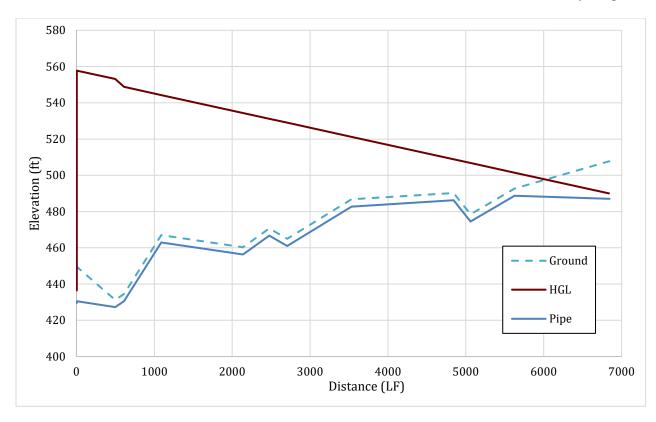


Figure 6-3: Force Main Option 2.0 Profile and Hydraulic Grade Line

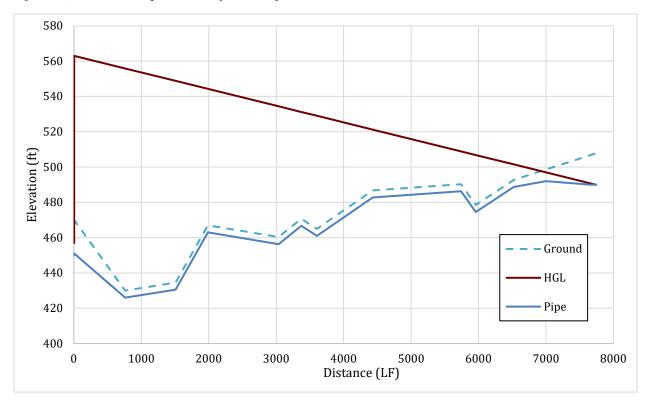


Figure 6-4: Force Main Option 2.1 Profile and Hydraulic Grade Line

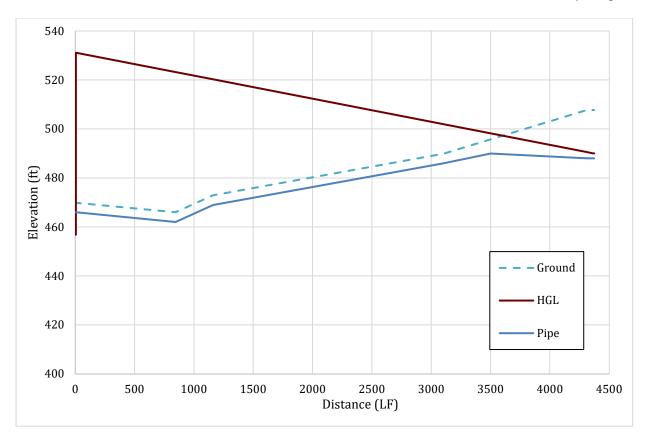


Figure 6-5: Force Main Option 3 Profile and Hydraulic Grade Line

SewerGEMS modeling for the five force main options resulted in five TDH values for pump sizing. Similarly, hand calculations for the five force main options resulted in five TDH values for pump sizing. The most conservative TDH value was taken for each option, see **Table 6-1** for reference. A design flow rate of 700 gpm was used for all pump selections. Manufacturer sheets for each pump selection are displayed in **Appendix A**.

Table 6-1: TDH Results for Pump Sizing

	Force Main Option					
	Option 1.0	Option 1.1	Option 2.0	Option 2.1	Option 3	
TDH (feet):	106	105	121	117	75	
Pump Selection (Flygt Model Number):	NP 23202 HT 3 462	NP 23202 HT 3 462	NP 23202 HT 3 468	NP 23202 HT 3 468	NP 3153 HT 3 462	

A system head was developed from the SewerGEMS model for each of the force main options. **Figure 6-6** through **Figure 6-10** displays the system head plotted with the respective pump curve. The Flygt NP 23202 HT 3 462 pump curve is used for force main option 1.0 and 1.1, the Flygt NP 23202 HT 3 468 pump curve is used for force main option 2.0 and 2.1, and the Flygt NP 3153 HT 3 462 pump curve is used for force main option 3.

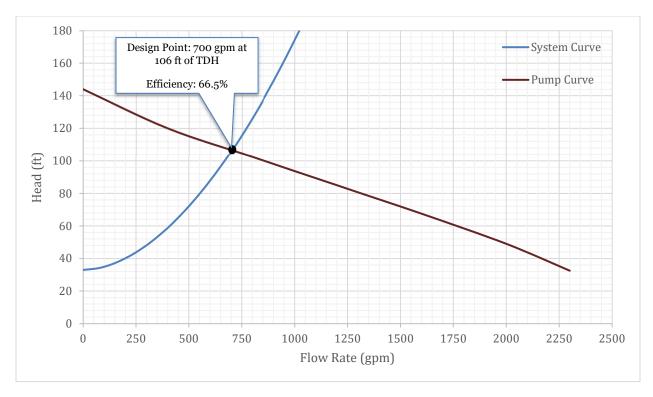


Figure 6-6: System Head and Pump Curve for Force Main Option 1.0

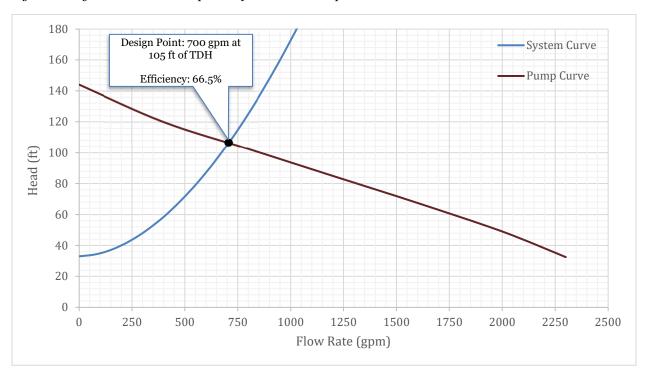


Figure 6-7: System Head and Pump Curve for Force Main Option 1.1

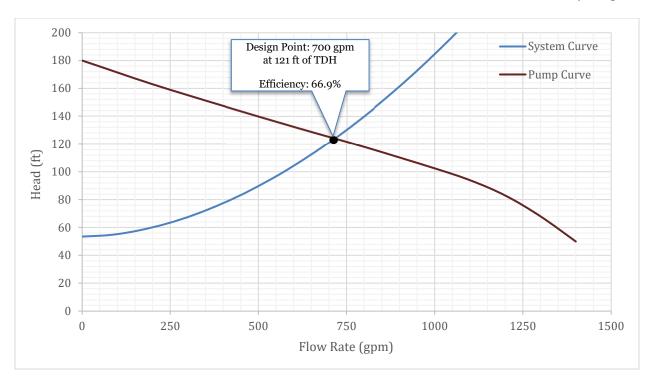


Figure 6-8: System Head and Pump Curve for Force Main Option 2.0

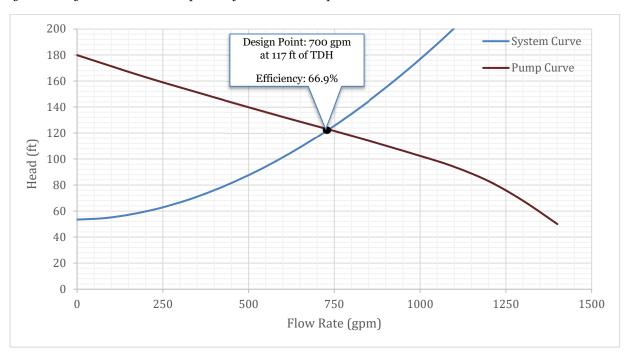


Figure 6-9: System Head and Pump Curve for Force Main Option 2.1

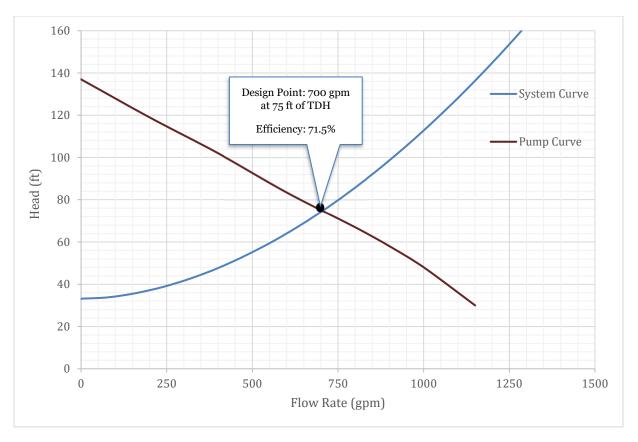


Figure 6-10: System Head and Pump Curve for Force Main Option 3

### **6.2.** CONCEPTUAL PUMP STATION

Three conceptual location layouts, a conceptual site layout, and a conceptual mechanical layout were drafted for the purpose of preliminary planning for the Route 15 WWPS. See **Figure 6-11** through **Figure 6-15** for reference. The generalized design shown in the site plan and mechanical plan is used to represent all the pump station options. However, the design will be updated in accordance with the pump station location that the County chooses. A cost estimate for the Rte 15 WWPS is found in **Appendix B**.

The pump station will be a wet-pit submersible station equipped with two (2) submersible sewage pumps sized for 1 MGD. The pump station site will consist of a precast wet well, control building, and backup generator. Security fencing will be installed onsite. The control building will have a mechanical room and an electrical room are accessed from outside the pump station. The mechanical room houses the isolation valves, check valves, surge relieve valve, air release valve, and flow meter and is equipped with a unit heater and exhaust fan. The electrical room will house the VFDs, distribution panels, automatic transfer switch (ATS), and pump station control panel. The wet well will be accessible from an outdoor hatch while the outdoor generator will be located adjacent to the control building. It is anticipated that a non-potable well will be drilled on the site to provide water for washdown.



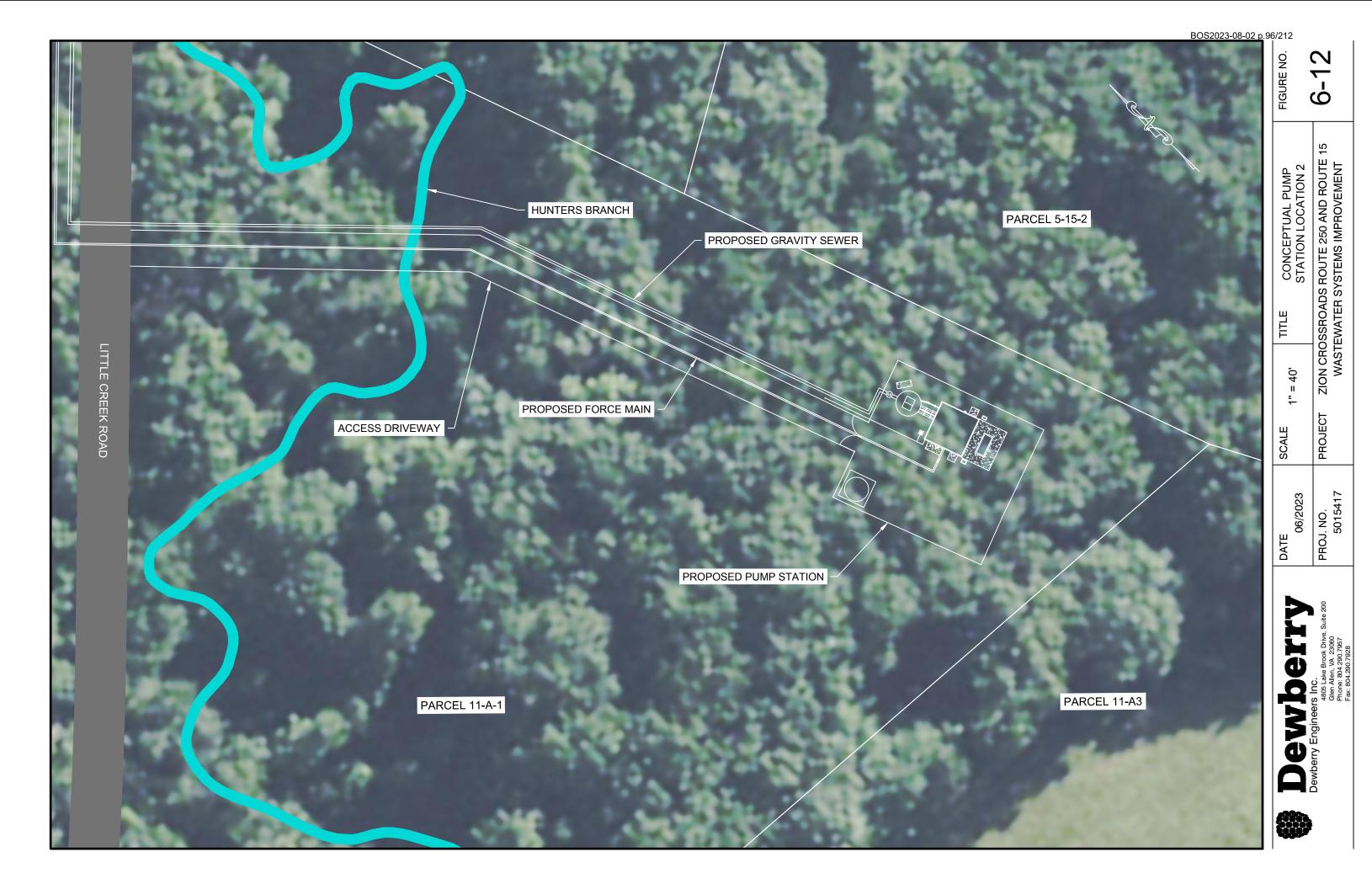
Dewberry Engineers Inc.

PROJECT DATE 06/2023 PROJ. NO. 5015417

1" = 40'

ZION CROSSROADS ROUTE 250 AND ROUTE 15 WASTEWATER SYSTEMS IMPROVEMENT

6-11





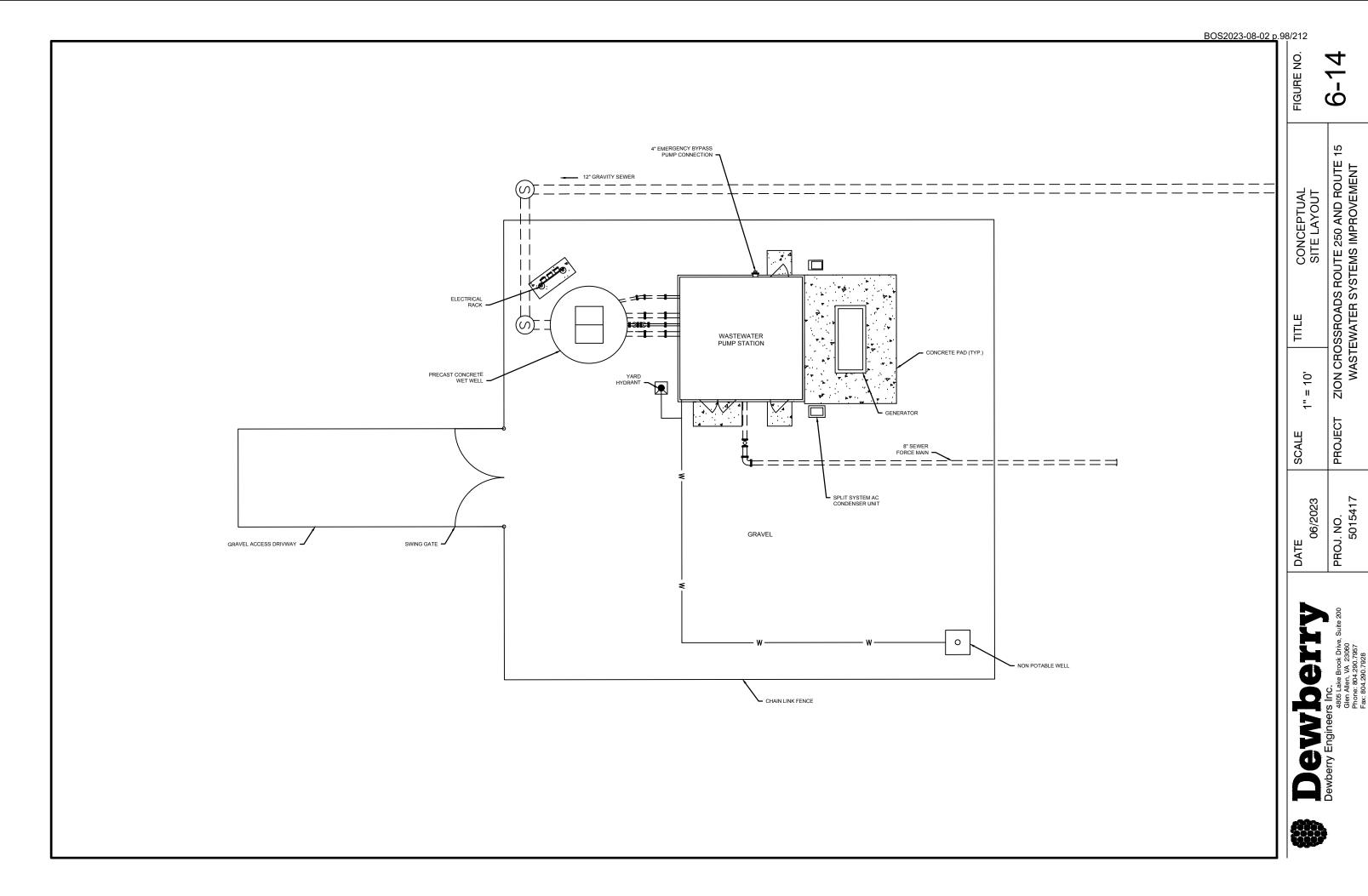
Dewberry Engineers Inc.

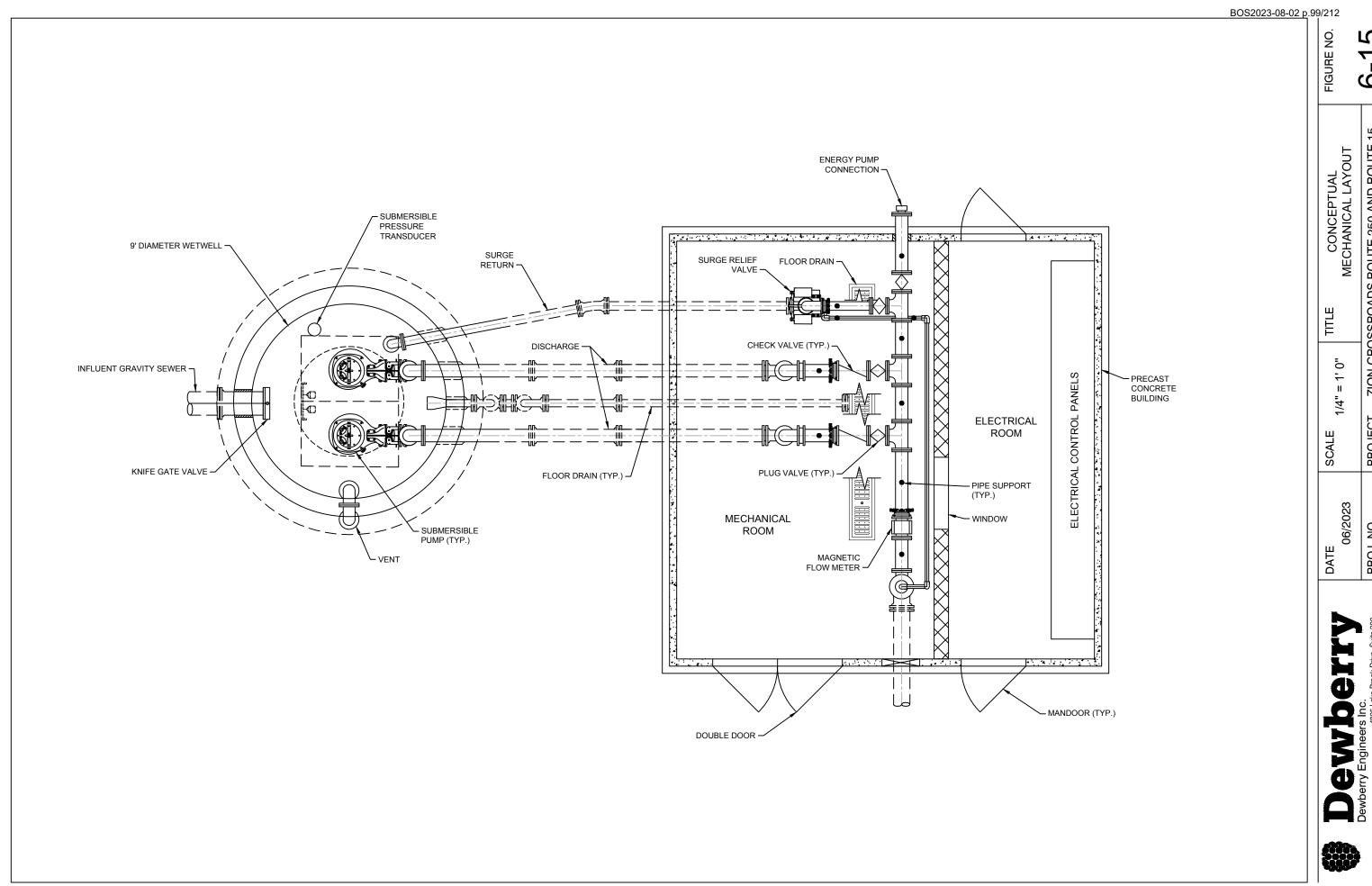
DATE 06/2023 PROJ. NO. 5015417

1" = 50' PROJECT

" = 50'
ZION CROSSROADS ROUTE 250 AND ROUTE 15
WASTEWATER SYSTEMS IMPROVEMENT

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ZION CROSSROADS ROUTE 250 AND ROUTE 15 WASTEWATER SYSTEMS IMPROVEMENT CONCEPTUAL MECHANICAL LAYOUT

= 1' 0"

1/4"

PROJECT

PROJ. NO. 5015417

5 0

FIGURE NO.

# 7. COMPARISON OF SCENARIOS

Gravity sewer and force main build-out scenarios were compared. A total of five scenarios are possible given the three gravity sewer options and five force main options. Scenario 1 is gravity sewer option 1 paired with force main option 1.0, scenario 2 is gravity sewer option 1 paired with force main option 1.1, scenario 3 is gravity sewer option 2 paired with force main option 2.0, scenario 4 is gravity sewer option 2 paired with force main option 2.1, and scenario 5 is gravity sewer option 3 paired with force main option 3. **Table 7-1** displays the advantages and disadvantages of each scenario.

Table 7-1: Scenario Comparison

	<u>Advantages</u>	<u>Disadvantages</u>	Gravtiy Sewer, Force Main, and Pump Station Costs	Total Cost
Scenario 1 (Gravity Sewer Option 1 and Force Main Option 1.0)	-Pump station located to maximize service area -Lower pump station TDH requirement than scenarios 3 and 4	-Does not take advantage of utilizing developer parcels  -Highest overall cost among all scenarios  -Gravity sewer maximum cover is over 20 feet	Gravity Sewer: \$4,409,250  Force Main: \$3,051,250  Pump Station: \$2,862,375	\$10,323,000
Scenario 2 (Gravity Sewer Option 1 and Force Main Option 1.1)	-Pump station located to maximize service area -Lower pump station TDH requirement than scenarios 3 and 4	-Does not take advantage of utilizing developer parcels -Gravity sewer maximum cover is over 20 feet	Gravity Sewer: \$4,409,250 Force Main: \$2,349,500 Pump Station: \$2,862,375	\$9,621,125
Scenario 3 (Gravity Sewer Option 2 and Force Main Option 2.0)	-Most optimal gravity sewer path for service areas  -Lowest maximum cover for gravity sewer alignment	-Highest pump station TDH requirement among all scenarios -Second highest overall cost among all scenarios -Gravity sewer runs through neighborhood	Gravity Sewer: \$4,274,500 Force Main: \$2,709,750 Pump Station: \$2,862,375	\$9,846,625
Scenario 4 (Gravity Sewer Option 2 and Force Main Option 2.1)	-Most optimal gravity sewer path for selected service area -Lowest maximum cover for gravity sewer alignment	-Second highest pump station TDH requirement among all scenarios -Gravity sewer runs through neighborhood	Gravity Sewer: \$4,274,500  Force Main: \$1,856,000  Pump Station: \$2,862,375	\$8,992,875
Scenario 5 (Gravity Sewer Option 3 and Force Main Option 3)	-Utilizes developer parcels 11-9-1 and 11-9-2 for gravity sewer, force main, and Rte 15 WWPS  -Lowest pump station TDH requirement among all scenarios  -Lowest overall cost among all scenarios	-Gravity sewer service area is more limited than other scenarios -Gravity sewer bisects parcels 5-7-8, 5-A-23C, and 5-A-38.	Gravity Sewer: \$3,752,750  Force Main: \$1,731,000  Pump Station: \$2,862,375	\$8,246,125

# 8. CONCLUSIONS

Based on the overall analysis of this report it is recommended that the County pursue gravity sewer option 3 and force main option 3. These options correlate to scenario 5 from the Comparison of Scenarios section (Section 6). Scenario 5 offers significant cost savings when compared with other scenarios. Under scenario 5, the County will pay zero easement costs for the force main and Rte 15 WWPS due to utilization of developer parcels 11-9-1 and 11-9-2. In addition, scenario 5 has the least expensive gravity sewer option. Scenario 5 also has a significantly lower Rte 15 WWPS TDH requirement compared to the other scenarios and will therefore have a lower power consumption cost over the lifetime of the pump station. Disadvantages of scenario 5 include a more limited gravity sewer service area than the other scenarios and the bisecting of parcels 5-7-8, 5-A-23C, and 5-A-38 by gravity sewer option 3. For project construction phasing, the Rte 15 WWPS and force main will be completed first to enable development along the Rte 15 corridor.

In summary, this project aims to expand the wastewater system in the Zion Crossroads area by building a new force main, gravity sewer, and pump station to service future growth. As outlined in Section 7, scenario 5 results in a total project cost of \$8,246,125 including \$3,752,750 for the gravity sewer, \$1,731,000 for the force main, \$2,862,375 for the pump station, and \$178,500 in total easement costs. **Figure 8-1** displays a preliminary plan view for the recommended project layout.

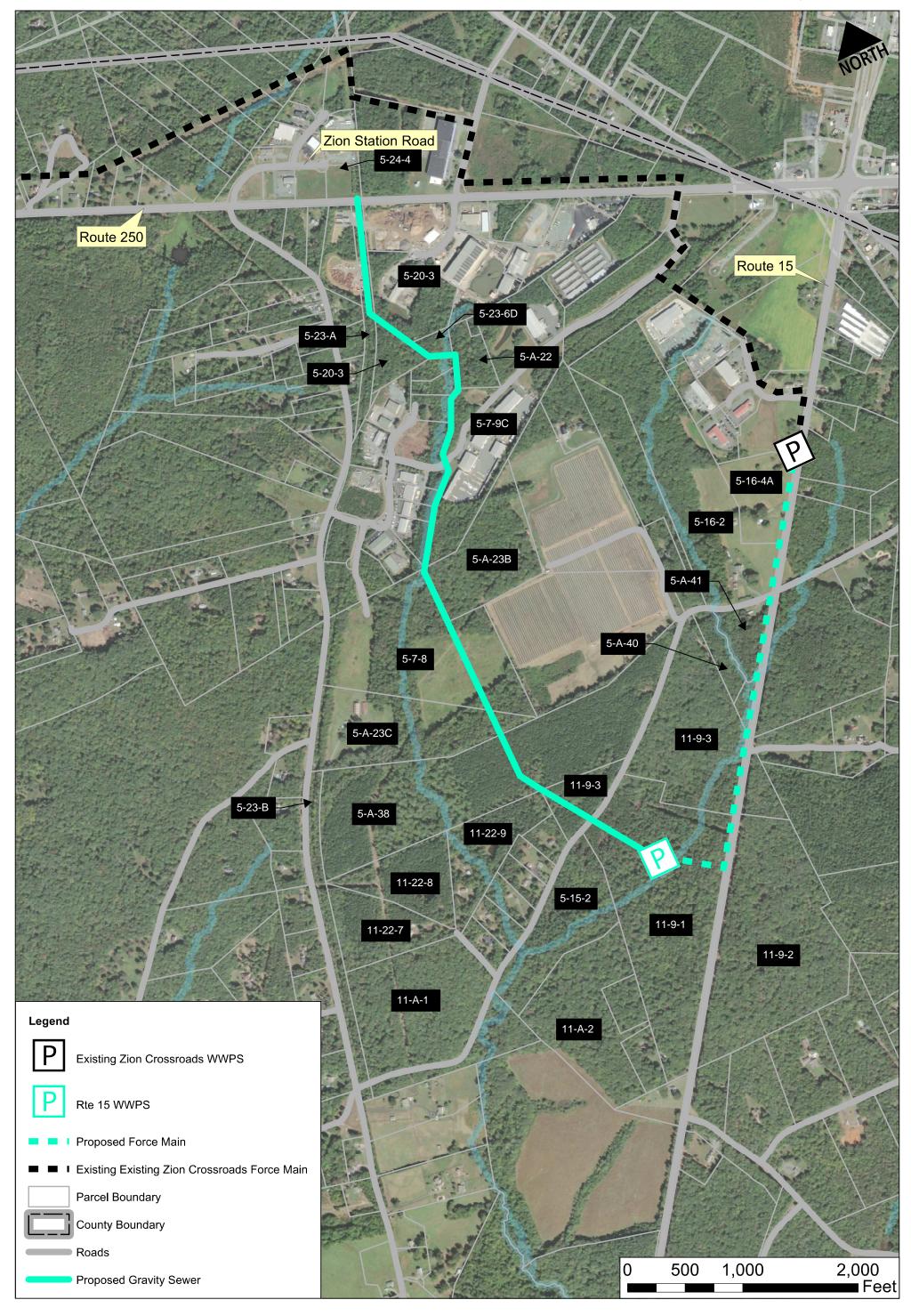


Figure 8-1: Recommended Project Plan

Appendix A – Pump Selections

# NP 3202 HT 3~ 462

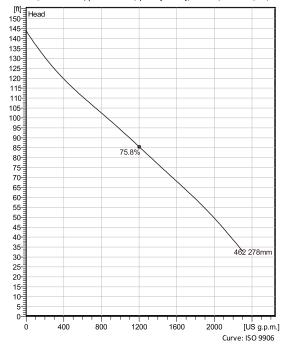
Patented self cleaning semi-open channel impeller, ideal for pumping in waste water applications. Modular based design with high adaptation grade.



# Technical specification



Curves according to: Water, pure Water, pure [100%], 39.2 °F, 62.42 lb/ft³, 1.6891E-5 ft²/s



## Configuration

Motor number N3202.185 30-19-4AA-W

Impeller diameter 278 mm

Installation type

P - Semi permanent, Wet

**Discharge diameter** 6 inch

Configuration

**Material** 

### **Pump information**

Impeller diameter

278 mm

Impeller Hard-Iron ™

Discharge diameter

6 inch

Inlet diameter 200 mm

Maximum operating speed

1775 rpm

Number of blades

Max. fluid temperature

Project

Block

Xylect-20328838 Created by

Matt Harrison

3/22/2023 Last update Created on

3/22/2023

# NP 3202 HT 3~ 462

# Technical specification

#### **Motor - General**

a **xylem** brand

Motor number N3202.185 30-19-4AA-W

ATEX approved

Frequency 60 Hz Version code

185

Phases

Number of poles

Rated voltage 460 V

Rated speed 1775 rpm

Rated current 52 A Insulation class Stator variant

Type of Duty **S1** 

Starts per hour max.

Rated power

45 hp

#### **Motor - Technical**

Power factor - 1/1 Load

Power factor - 3/4 Load 0.85

Power factor - 1/2 Load 0.77

Motor efficiency - 1/1 Load

Motor efficiency - 3/4 Load 91.5 %

Motor efficiency - 1/2 Load

91.0 %

Total moment of inertia 7.18 lb ft<sup>2</sup>

Starting current, direct starting 365 A

Starting current, star-delta 122 A

Project Xylect-20328838 Created by Matt Harrison

Block 3/22/2023 Created on 3/22/2023 Last update

# NP 3202 HT 3~ 468

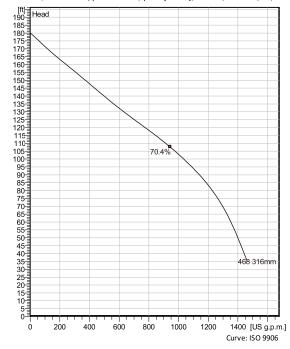
Patented self cleaning semi-open channel impeller, ideal for pumping in waste water applications. Modular based design with high adaptation grade.



# Technical specification



Curves according to: Water, pure Water, pure [100%], 39.2 °F, 62.42 lb/ft³, 1.6891E-5 ft²/s



## Configuration

Motor number N3202.185 30-19-4AA-W

Impeller diameter

316 mm

Installation type

P - Semi permanent, Wet

Discharge diameter 4 inch

Configuration

**Material** 

Impeller Hard-Iron ™

### **Pump information**

Impeller diameter

316 mm

Discharge diameter

4 inch

Inlet diameter 200 mm

Maximum operating speed

1775 rpm

Number of blades

Max. fluid temperature

Project Block

Xylect-20328838

Created by Created on

Matt Harrison

3/22/2023 Last update

3/22/2023

Starts per hour max.

a **xylem** brand

# NP 3202 HT 3~ 468

# Technical specification

#### **Motor - General**

Motor number N3202.185 30-19-4AA-W

Rated speed Rated power 1775 rpm 45 hp

Rated current Stator variant

52 A

Rated voltage Insulation class Type of Duty Frequency 60 Hz 460 V **S1** 

Version code

ATEX approved

185

0.85

0.77

**Motor - Technical** 

Power factor - 3/4 Load

Power factor - 1/2 Load

Power factor - 1/1 Load Motor efficiency - 1/1 Load

Phases

Number of poles

Motor efficiency - 3/4 Load

91.5 %

Motor efficiency - 1/2 Load

91.0 %

Total moment of inertia 8.34 lb ft<sup>2</sup>

Starting current, direct starting

365 A

Starting current, star-delta

122 A

Project Xylect-20328838 Created by Matt Harrison

3/22/2023 Block Created on 3/22/2023 Last update

# NP 3153 HT 3~ 462

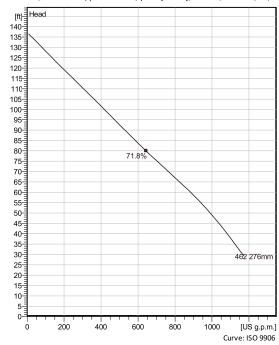
Patented self cleaning semi-open channel impeller, ideal for pumping in waste water applications. Modular based design with high adaptation grade.



# Technical specification



Curves according to: Water, pure Water, pure [100%], 39.2 °F, 62.42 lb/ft³, 1.6891E-5 ft²/s



## Configuration

Motor number N3153.185 21-18-4AA-W

Impeller diameter

276 mm

Installation type

P - Semi permanent, Wet

Discharge diameter 4 inch

Configuration

### **Pump information**

Impeller diameter

276 mm

Discharge diameter

4 inch

Inlet diameter 150 mm

Maximum operating speed

1755 rpm

Number of blades

Max. fluid temperature

Project Block

Xylect-20328838

Impeller

Hard-Iron ™

**Material** 

Created by Matt Harrison

3/22/2023 Last update Created on

3/22/2023

#### NP 3153 HT 3~ 462

#### Technical specification

#### **Motor - General**

a **xylem** brand

**Motor number** N3153.185 21-18-4AA-W 20hp

Rated speed 1755 rpm

Rated power 20 hp

ATEX approved

Rated current

Stator variant

Frequency 60 Hz

Rated voltage 460 V

Number of poles

Phases

26 A Insulation class

Type of Duty

**S1** 

Version code

185

**Motor - Technical** 

Power factor - 1/1 Load

Motor efficiency - 1/1 Load

Total moment of inertia  $2.38 lb ft^{2}$ 

Starts per hour max.

Power factor - 3/4 Load

0.77

Motor efficiency - 3/4 Load 89.0 %

Starting current, direct starting 148 A

Motor efficiency - 1/2 Load

Starting current, star-delta

Power factor - 1/2 Load 0.66

89.0 %

49.3 A

Project Xylect-20328838 Created by Matt Harrison Block Created on

3/22/2023 Last update

3/22/2023

BOS2023-08-02 p.110/212 Zion Crossroads Route 250 and Route 15 Wastewater System PER Fluvanna County, Virginia

Appendix B – Cost Estimates

# Rte WWPS 15 - Gravity Sewer Option 1

	Cost Item Materials						
Division	ltem	Quantity	Units	\$/Unit	Subtotal		Total
Division 1	General Requirements  Permits and Fees (1.25% of Divs. 2-16) Mobilization/Demobilization (3% of Divs 2-16) Bonds and Insurance (2% of Divs 2-16) Prime / Sub Contractor's OH&P (17.5% of Divs 2-16)	1.0 1.0 1.0 1.0	LS LS LS LS	\$ 29,787.50 \$ 71,490.00 \$ 47,660.00 \$ 417,025.00	\$ 29,788 \$ 71,490 \$ 47,660 \$ 417,025	\$	566,000
	Subtotal Total for Division 1				\$ 565,963 \$ 565,963		
Division 2	Sitework  General  Site Access and Construction Entrance	2.0	LS	\$ 15,000.00	\$ 30,000	\$	2,175,000
	Gravity Sewer Clearing and Grubbing PVC Gravity Sewer Trenchless Install Driveway Repair Utility Conflicts and Relocation/Avoidance Erosion & Sediment Control Seeding	8.2 8,980.0 56.0 1.0 1.0 39,920.0	AC LF LF EA LS LS SY	\$ 3,500.00 \$ 215.00 \$ 1,000.00 \$ 3,500.00 \$ 75,000.00 \$ 10,500.00 \$ 1.00	\$ 29,000 \$ 1,930,700 \$ 56,000 \$ 3,500 \$ 75,000 \$ 10,500 \$ 39,920		
	Subtotal Other Related Work Not Itemized Above (N/A) Total for Division 2				\$ 2,174,620 \$ - \$ 2,174,620		
Division 3	Concrete Precast Manhole (5-foot Diameter, every 350 LF)	26.0	EA	\$ 8,000.00	\$ 208,000	\$	208,000
	Subtotal Other Related Work Not Itemized Above (N/A) Total for Division 3				\$ 208,000 \$ - \$ 208,000		
Division 4 Division 5 Division 6 Division 7 Division 8 Division 9 Division 10 Division 11 Division 13 Division 15 Division 16	Masonry (Not Used) Metals (Not Used) Wood and Plastics (Not Used) Thermal and Moisture Protection (Not Used) Doors and Windows (Not Used) Finishes (Not Used) Specialties (Not Used) Equipment (Not Used) Special Construction (Not Used) Mechanical & Plumbing (Not Used) Electrical (Not Used)					\$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - -
	Division 2 Division 3 Division 4 Division 5 Division 6 Division 7 Division 8 Division 9 Division 10 Division 11	Concrete Masonry Metals Wood and P Thermal and Doors and W Finishes Specialties Equipment Special Cons Mechanical	lastics Moisture /indows	Protection		* * * * * * * * * * * * * *	566,000 2,175,000 208,000 - - - - - - - - - -
				ubtotal Construc			2,949,000
					struction Cost neering (15%) Easements	\$ \$	737,250 3,686,250 553,000 170,000
				High Range Es	I Project Cost	\$ \$	4,409,250 5,732,100 3,527,400

# Rte WWPS 15 - Gravity Sewer Option 2

	Cost Item			Mate	rials		
Division	Item	Quantity	Units	\$/Unit	Subtotal		Total
Division 1	General Requirements					\$	543,000
	Permits and Fees (1.25% of Divs. 2-16) Mobilization/Demobilization (3% of Divs 2-16)	1.0 1.0	LS LS	\$ 28,587.50 \$ 68,610.00	\$ 68,610		
	Bonds and Insurance (2% of Divs 2-16) Prime / Sub Contractor's OH&P (17.5% of Divs 2-16)	1.0 1.0	LS LS	\$ 45,740.00 \$ 400,225.00			
	Subtotal Total for Division 1				\$ 543,163 \$ 543,163		
Division 2	Sitework <u>General</u> Site Access and Construction Entrance	2.0	LS	\$ 15,000.00	\$ 30,000	\$	2,095,000
	Gravity Sewer Clearing and Grubbing PVC Gravity Sewer Trenchless Install Driveway Repair Utility Conflicts and Relocation/Avoidance Erosion & Sediment Control Seeding	7.7 8,370.0 112.0 1.0 1.0 1.0 37,200.0	AC LF LF EA LS LS SY	\$ 3,500.00 \$ 215.00 \$ 1,000.00 \$ 3,500.00 \$ 75,000.00 \$ 10,500.00 \$ 1.00	\$ 1,799,550 \$ 112,000 \$ 3,500 \$ 75,000 \$ 10,500		
	Subtotal Other Related Work Not Itemized Above (N/A) Total for Division 2				\$ 2,094,750 \$ - \$ 2,094,750		
Division 3	Concrete Precast Manhole (5-foot Diameter, every 350 LF)	24.0	EA	\$ 8,000.00	\$ 192,000	\$	192,000
	Subtotal				\$ 192,000		
	Other Related Work Not Itemized Above (N/A)  Total for Division 3				\$ - \$ 192,000		
Division 4 Division 5	Masonry (Not Used) Metals (Not Used)					<b>\$</b>	-
Division 6 Division 7	Wood and Plastics (Not Used) Thermal and Moisture Protection (Not Used)					<b>\$</b>	
Division 8	Doors and Windows (Not Used)					\$	-
Division 9 Division 10	Finishes (Not Used) Specialties (Not Used)					<b>\$</b>	-
Division 11 Division 13 Division 15	Equipment (Not Used) Special Construction (Not Used) Mechanical & Plumbing (Not Used)					\$ \$	<u>-</u> -
Division 16	Electrical (Not Used)					\$	
	Division 1 Division 2	General Req	uirements			\$ \$	543,000 2,095,000
	Division 3	Concrete				\$	192,000
	Division 4 Division 5	•				\$ \$	-
		Wood and Pl Thermal and		Protection		\$ \$	-
	Division 8	Doors and W		rotection		\$	-
	Division 9 Division 10					\$ \$	-
	Division 11	Equipment				\$	-
		Special Cons Mechanical	struction			\$ \$	-
	Division 16	Electrical				\$	
				ubtotal Construc		<u> </u>	2,830,000
			Co	onstruction Cont Total Con	ingency (25%) struction Cost		707,500 3,537,500
					ineering (15%)		531,000
					Easements	<del>L'</del>	206,000
				Tota High Range Es	al Project Cost stimate (+30%)		4,274,500 5,556,900
					stimate (-30 %)		3,419,600

# Rte WWPS 15 - Gravity Sewer Option 3

	Cost Item			Mate	rials		
Division	ltem	Quantity	Units	\$/Unit	Subtotal		Total
Division 1	General Requirements  Permits and Fees (1.25% of Divs. 2-16) Mobilization/Demobilization (3% of Divs 2-16) Bonds and Insurance (2% of Divs 2-16) Prime / Sub Contractor's OH&P (17.5% of Divs 2-16)	1.0 1.0 1.0 1.0	LS LS LS LS	\$ 25,200.00 \$ 60,480.00 \$ 40,320.00 \$ 352,800.00	\$ 60,480	\$	479,000
	Subtotal Total for Division 1				\$ 478,800 \$ 478,800		
Division 2	Sitework  General  Site Access and Construction Entrance	2.0	LS	\$ 15,000.00	\$ 30,000	\$	1,848,000
	Gravity Sewer Clearing and Grubbing PVC Gravity Sewer Trenchless Install Driveway Repair Utility Conflicts and Relocation/Avoidance Erosion & Sediment Control Seeding	6.7 7,260.0 112.0 1.0 1.0 1.0 32,270.0	AC LF LF EA LS LS SY	\$ 3,500.00 \$ 215.00 \$ 1,000.00 \$ 3,500.00 \$ 75,000.00 \$ 10,500.00 \$ 1.00	\$ 112,000 \$ 3,500 \$ 75,000		
	Subtotal Other Related Work Not Itemized Above (N/A) Total for Division 2				\$ 1,848,170 \$ - \$ 1,848,170		
Division 3	Concrete Precast Manhole (5-foot Diameter, every 350 LF)  Subtotal	21.0	EA	\$ 8,000.00	\$ 168,000 \$ 168,000	\$	168,000
	Other Related Work Not Itemized Above (N/A)  Total for Division 3				\$ - \$ 168,000		
Division 4 Division 5	Masonry (Not Used) Metals (Not Used)					\$ \$	-
Division 6	Wood and Plastics (Not Used)					\$	-
Division 7 Division 8	Thermal and Moisture Protection (Not Used) Doors and Windows (Not Used)					<b>\$</b>	-
Division 9 Division 10	Finishes (Not Used)					\$ \$	-
Division 11	Specialties (Not Used) Equipment (Not Used)					\$	-
Division 13 Division 15 Division 16	Special Construction (Not Used) Mechanical & Plumbing (Not Used) Electrical (Not Used)					\$ \$ \$	
	Division 2 Division 3 Division 4 Division 5	Concrete Masonry				\$ \$ \$ \$ \$ \$	479,000 1,848,000 168,000 - - -
		Thermal and Doors and W		Protection		\$ \$	-
	Division 9	Finishes				\$	-
		Specialties Equipment				\$ \$	-
	Division 13	Special Con	struction			\$	-
	Division 15 Division 16	Mechanical Electrical				\$ \$	-
				ubtotal Construc		•	2,495,000 623,750
					struction Cost		3,118,750
				Engi	ineering (15%)		468,000
				Tota	Easements al Project Cost	i i	166,000 3,752,750
				High Range Es			4,878,600
				Low Range E	stimate (-20%)	\$	3,002,200

# Rte WWPS 15 - Force Main Option 1.0

	Cost Item				Mater				
Division & Section	Item	Quantity	Units		\$/Unit	Sı	ubtotal		Total
Division 1	General Requirements Permits and Fees (1.25% of Divs. 2-16) Mobilization/Demobilization (3% of Divs 2-16) Bonds and Insurance (2% of Divs 2-16) Prime / Sub Contractor's OH&P (17.5% of Divs 2-16)	1.0 1.0 1.0 1.0	LS LS LS LS	\$ \$ \$ \$	20,737.50 49,770.00 33,180.00 290,325.00	\$ \$ \$ \$	20,738 49,770 33,180 290,325	\$	394,000
	Subtotal					\$	394,013		
Division 2	Total for Division 1 Sitework					\$	394,013	\$	1,635,000
DIVISION 2	General Site Access and Construction Entrance New Force Main Testing (Water, Testing Equipment, Labor)	2.0 1.0	LS LS	\$	15,000.00 35,000.00	\$	30,000 35,000	Ψ	1,000,000
	Force Main  Air/Vacuum Valve Clearing and Grubbing 8" DIP Force Main Trenchless Install Driveway Repair Utility Conflicts and Relocation/Avoidance Erosion & Sediment Control Seeding	3.0 6.3 6,838.0 56.0 1.0 1.0 30,400.0	EA AC LF LF EA LS LS	\$ \$ \$ \$ \$ \$ \$ \$	1,750.00 3,500.00 200.00 1,000.00 3,500.00 75,000.00 10,500.00	\$ \$ 1 \$ \$ \$ \$ \$	5,250 22,000 ,367,600 56,000 3,500 75,000 10,500 30,400		
	Subtotal Other Related Work Not Itemized Above (N/A) Total for Division 2					\$	,635,250 - ,635,250		
Division 3	Concrete Precast Manhole (5-foot Diameter, at every ARV)	3.0	EA	\$	8,000.00	\$	24,000	\$	24,000
	Subtotal Other Related Work Not Itemized Above (N/A) Total for Division 3					\$ \$ \$	24,000 - 24,000		
Division 4	Masonry (Not Used)					Ψ	24,000	\$	-
Division 5	Metals (Not Used)							\$	-
Division 6 Division 7	Wood and Plastics (Not Used) Thermal and Moisture Protection (Not Used)							\$ \$	-
Division 8	Doors and Windows (Not Used)							\$	-
Division 9 Division 10	Finishes (Not Used) Specialties (Not Used)							\$ \$	-
Division 11	Equipment (Not Used)							\$	-
Division 13	Special Construction (Not Used)							\$	-
Division 15 Division 16	Mechanical & Plumbing (Not Used) Electrical (Not Used)							<b>\$</b>	-
	Division 2 Division 3 Division 4 Division 5 Division 6 Division 7 Division 8 Division 9 Division 10 Division 11 Division 13	Concrete Masonry Metals Wood and P Thermal and Doors and W Finishes Specialties Equipment Special Cons Mechanical	lastics   Moisture Vindows		ection			* * * * * * * * * * * * * *	394,000 1,635,000 24,000 - - - - - - - - -
			S	ubto	tal Construc	ion E	Estimate:	\$	2,053,000
			Co	onst	ruction Conti Total Cons	truct	tion Cost	\$	513,250 2,566,250 385,000
					Engi		ing (15%) isements		100,000
					Tota		ject Cost		3,051,250
					gh Range Es		· ,		3,966,700
				L	ow Range Es	tima	te (-20%)	\$	2,441,000

# Rte WWPS 15 - Force Main Option 1.1

	Cost Item				Mater				
Division & Section	Item	Quantity	Units		\$/Unit	5	Subtotal		Total
Division 1	General Requirements Permits and Fees (1.25% of Divs. 2-16) Mobilization/Demobilization (3% of Divs 2-16) Bonds and Insurance (2% of Divs 2-16) Prime / Sub Contractor's OH&P (17.5% of Divs 2-16)	1.0 1.0 1.0 1.0	LS LS LS LS	\$ \$ \$ \$	15,712.50 37,710.00 25,140.00 219,975.00	\$ \$ \$	15,713 37,710 25,140 219,975	\$	299,000
	Subtotal Total for Division 1					\$ \$	298,538 298,538		
Division 2	Sitework					Ψ	230,330	\$	1,233,000
	General Site Access and Construction Entrance New Force Main Testing (Water, Testing Equipment, Labor)	2.0 1.0	LS LS	\$ \$	15,000.00 35,000.00	\$	30,000 35,000		
	Force Main  Air/Vacuum Valve Clearing and Grubbing 8" DIP Force Main Trenchless Install Driveway Repair Utility Conflicts and Relocation/Avoidance Erosion & Sediment Control Seeding	3.0 4.3 4,649.0 112.0 - 1.0 1.0 20,670.0	EA AC LF LF EA LS LS	\$ \$ \$ \$ \$ \$ \$ \$	1,750.00 3,500.00 200.00 1,000.00 3,500.00 75,000.00 10,500.00	\$ \$ \$ \$ \$ \$ \$	5,250 15,000 929,800 112,000 - 75,000 10,500 20,670		
	Subtotal Other Related Work Not Itemized Above (N/A) Total for Division 2					\$	1,233,220 - 1,233,220		
Division 3	Concrete Precast Manhole (5-foot Diameter, at every ARV)	3.0	EA	\$	8,000.00	\$	24,000	\$	24,000
	Subtotal					\$	24,000		
	Other Related Work Not Itemized Above (N/A)  Total for Division 3					\$ \$	24,000		
Division 4 Division 5 Division 6 Division 7 Division 8 Division 9 Division 10 Division 11 Division 13 Division 15 Division 16	Masonry (Not Used) Metals (Not Used) Wood and Plastics (Not Used) Thermal and Moisture Protection (Not Used) Doors and Windows (Not Used) Finishes (Not Used) Specialties (Not Used) Equipment (Not Used) Special Construction (Not Used) Mechanical & Plumbing (Not Used) Electrical (Not Used)							***	- - - - - - - -
Division 1 General Requirements Division 2 Site work Division 3 Concrete Division 4 Masonry Division 5 Metals Division 6 Wood and Plastics Division 7 Thermal and Moisture Protection Division 8 Doors and Windows Division 9 Finishes Division 10 Specialties Division 11 Equipment Division 13 Special Construction Division 15 Mechanical Division 16 Electrical									299,000 1,233,000 24,000 - - - - - - - - -
					otal Construct			-	1,556,000
			Co	onst	ruction Conti Total Cons Engi	struc nee	ction Cost ring (15%)	<b>\$</b>	389,000 1,945,000 292,000
					Tota		asements oject Cost		112,500 2,349,500
					igh Range Es .ow Range Es				3,054,400 1,879,600

# Rte WWPS 15 - Force Main Option 2.0

	Cost Item				Mater				
Division & Section	ltem	Quantity	Units		\$/Unit	Sı	ubtotal		Total
Division 1	General Requirements Permits and Fees (1.25% of Divs. 2-16) Mobilization/Demobilization (3% of Divs 2-16) Bonds and Insurance (2% of Divs 2-16) Prime / Sub Contractor's OH&P (17.5% of Divs 2-16)	1.0 1.0 1.0 1.0	LS LS LS LS	\$ \$ \$ \$	18,337.50 44,010.00 29,340.00 256,725.00	\$ \$ \$ \$	18,338 44,010 29,340 256,725	\$	348,000
	Subtotal Total for Division 1					\$ \$	348,413 348,413		
Division 2	Sitework					Þ	340,413	\$	1,443,000
	General Site Access and Construction Entrance New Force Main Testing (Water, Testing Equipment, Labor)	2.0 1.0	LS LS	\$	15,000.00 35,000.00	\$	30,000 35,000		
	Force Main  Air/Vacuum Valve Clearing and Grubbing 8" DIP Force Main Trenchless Install Driveway Repair Utility Conflicts and Relocation/Avoidance Erosion & Sediment Control Seeding	3.0 5.2 5,637.0 112.0 1.0 1.0 25,060.0	EA AC LF LF EA LS LS	\$\$\$\$\$\$\$\$\$	1,750.00 3,500.00 200.00 1,000.00 3,500.00 75,000.00 10,500.00 1.00	\$ \$ \$ 1 \$ \$ \$ \$ \$	5,250 19,000 ,127,400 112,000 3,500 75,000 10,500 25,060		
	Subtotal Other Related Work Not Itemized Above (N/A) Total for Division 2					\$	,442,710 - ,442,710		
Division 3	Concrete Precast Manhole (5-foot Diameter, at every ARV)	3.0	EA	\$	8,000.00	\$	24,000	\$	24,000
	Subtotal Other Related Work Not Itemized Above (N/A) Total for Division 3					\$	24,000		
Division 4 Division 5 Division 6 Division 8 Division 9 Division 10 Division 11 Division 13 Division 15 Division 16	Masonry (Not Used) Metals (Not Used) Wood and Plastics (Not Used) Thermal and Moisture Protection (Not Used) Doors and Windows (Not Used) Finishes (Not Used) Specialties (Not Used) Equipment (Not Used) Special Construction (Not Used) Mechanical & Plumbing (Not Used) Electrical (Not Used)					\$	24,000	\$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - -
	Division 2 Division 3 Division 4 Division 5 Division 6 Division 7 Division 8 Division 9 Division 10 Division 11	Metals Wood and P Thermal and Doors and V Finishes Specialties Equipment Special Cons Mechanical	lastics   Moisture Vindows struction	Prot				***	348,000 1,443,000 24,000 - - - - - - - - - -
					ruction Conti	nger	ncy (25%)	\$	1,815,000 453,750
					Total Cons Engi		tion Cost ing (15%)		2,268,750 341,000
						Ea	sements	\$	100,000
				Hi	Tota gh Range Es		ject Cost te (+30%)		2,709,750 3,522,700
					ow Range Es				2,167,800

# Rte WWPS 15 - Force Main Option 2.1

Division	Cost Item	Overstity	Unito		Mater		uhtotal		Total
& Section	Item	Quantity	Units		\$/Unit	3	ubtotal		Total
Division 1	General Requirements Permits and Fees (1.25% of Divs. 2-16) Mobilization/Demobilization (3% of Divs 2-16) Bonds and Insurance (2% of Divs 2-16) Prime / Sub Contractor's OH&P (17.5% of Divs 2-16)	1.0 1.0 1.0 1.0	LS LS LS LS	\$ \$ \$	12,162.50 29,190.00 19,460.00 170,275.00		12,163 29,190 19,460 170,275	\$	231,000
	Subtota	I				\$	231,088		
Division 2	Total for Division 1 Sitework	1				\$	231,088	\$	949,000
DIVISION 2	<u>General</u>							Ψ	949,000
	Site Access and Construction Entrance New Force Main Testing (Water, Testing Equipment, Labor)	2.0 1.0	LS LS	\$ \$	15,000.00 35,000.00		30,000 35,000		
	Force Main Air/Vacuum Valve	3.0	EA	\$	1,750.00	\$	5,250		
	Clearing and Grubbing	3.3	AC	\$	3,500.00	\$	12,000		
	8" DIP Force Main	3,547.0	LF	\$	200.00	\$	709,400		
	Trenchless Install	56.0	LF	\$	1,000.00		56,000		
	Driveway Repair	-	EA	\$	3,500.00		-		
I	Utility Conflicts and Relocation/Avoidance	1.0	LS	\$	75,000.00		75,000		
	Erosion & Sediment Control Seeding	1.0 15,770.0	LS SY	\$ \$	10,500.00 1.00	\$ \$	10,500 15,770		
	Subtota		0.			\$	948,920		
	Other Related Work Not Itemized Above (N/A)  Total for Division 2	, i				\$ \$	948,920		
Division 3	Concrete Precast Manhole (5-foot Diameter, at every ARV)	3.0	EA	\$	8,000.00	\$	24,000	\$	24,000
	Subtota Other Related Work Not Itemized Above (N/A					\$ \$	24,000		
	Total for Division 3					\$	24,000		
Division 4 Division 5	Masonry (Not Used) Metals (Not Used)							\$ \$	-
Division 6	Wood and Plastics (Not Used)							\$	
Division 7	Thermal and Moisture Protection (Not Used)							\$	-
Division 8	Doors and Windows (Not Used)							\$	-
Division 9	Finishes (Not Used)							\$	-
Division 10 Division 11	Specialties (Not Used) Equipment (Not Used)							\$ \$	-
Division 11 Division 13	Special Construction (Not Used)							\$	-
Division 15	Mechanical & Plumbing (Not Used)							\$	
Division 16	Electrical (Not Used)							\$	-
	Division 1	I General Req 2 Site work	uirements	<b>;</b>				\$	231,000 949,000
		3 Concrete						\$	24,000
	Division 4	1 Masonry						\$	-
	Division 8							\$	-
		Wood and Pl		_				\$	-
		7 Thermal and		Prof	tection			\$	-
		B Doors and W Finishes	ınaows					φ \$	-
		) Specialties						\$	-
		l Equipment						\$	-
	Division 13	Special Cons	struction					\$	-
		Mechanical						\$	-
	Division 16	Electrical						\$	-
					tal Construct				1,204,000 301,000
				JIIJ	Total Cons				1,505,000
							ing (15%)		226,000
					<b>g.</b>		sements		125,000
					Tota		ject Cost	_	1,856,000
				Н	igh Range Es	tima	te (+30%)	\$	2,412,800
				L	ow Range Es	stima	te (-20%)	\$	1,484,800

# Rte WWPS 15 - Force Main Option 3

Cost Item Materials									
Division & Section	Item	Quantity	Units		\$/Unit	S	ubtotal		Total
Division 1	General Requirements Permits and Fees (1.25% of Divs. 2-16) Mobilization/Demobilization (3% of Divs 2-16) Bonds and Insurance (2% of Divs 2-16) Prime / Sub Contractor's OH&P (17.5% of Divs 2-16)	1.0 1.0 1.0 1.0	LS LS LS LS	\$ \$ \$ \$	12,162.50 29,190.00 19,460.00 170,275.00		12,163 29,190 19,460 170,275	\$	231,000
	Subtotal Total for Division 1					\$ \$	231,088 231,088		
Division 2	Sitework  General  Site Access and Construction Entrance	2.0	LS	\$	15,000.00	7	30,000	\$	949,000
	New Force Main Testing (Water, Testing Equipment, Labor)	1.0	LS	\$	35,000.00	\$	35,000		
	Force Main Air/Vacuum Valve Clearing and Grubbing 8" DIP Force Main Trenchless Install Driveway Repair Utility Conflicts and Relocation/Avoidance Erosion & Sediment Control Seeding	3.0 3.3 3,547.0 56.0 - 1.0 1.0 15,770.0	EA AC LF LF EA LS LS	\$ \$ \$ \$ \$ \$ \$	1,750.00 3,500.00 200.00 1,000.00 3,500.00 75,000.00 10,500.00 1.00	\$ \$ \$	5,250 12,000 709,400 56,000 - 75,000 10,500 15,770		
	Subtotal Other Related Work Not Itemized Above (N/A) Total for Division 2					\$ \$ \$	948,920 - 948,920		
Division 3	Concrete Precast Manhole (5-foot Diameter, at every ARV)	3.0	EA	\$	8,000.00	\$	24,000	\$	24,000
Division 4	Other Related Work Not Itemized Above (N/A)  Total for Division 3					\$ \$ \$	24,000 - 24,000	•	
Division 4 Division 5 Division 6 Division 7	Masonry (Not Used) Metals (Not Used) Wood and Plastics (Not Used)							\$ \$	-
Division 8 Division 9 Division 10	Thermal and Moisture Protection (Not Used) Doors and Windows (Not Used) Finishes (Not Used) Specialties (Not Used)							\$ \$ \$	-
Division 11 Division 13 Division 15	Equipment (Not Used) Special Construction (Not Used) Mechanical & Plumbing (Not Used)							\$ \$ \$	
Division 16 Electrical (Not Used)  Division 1 General Requirements Division 2 Site work Division 3 Concrete Division 4 Masonry Division 5 Metals Division 6 Wood and Plastics Division 7 Thermal and Moisture Protection Division 8 Doors and Windows Division 9 Finishes Division 10 Specialties Division 11 Equipment									
		Special Cons Mechanical Electrical		uhto	tal Construc	tion	Fetimato	\$	1,204,000
					ruction Cont Total Cons	inge: struc	ncy (25%)	\$	301,000 1,505,000 226,000
					Tota	Ea I Pro	asements oject Cost	\$ \$	1,731,000
					gh Range Es ow Range Es		•		2,250,300 1,384,800

#### Rte. 15 WWPS

	Cost Item				Materi				
Division	Item	Quantity	Units		\$/Unit	•	Subtotal		Total
Division 1	General Requirements	4.0			50 000 00	_	50.000	\$	390,200
	Start-Up and Testing		LS	\$	50,000.00	\$	50,000		
	Permits and Fees (1.25% of Divs. 2-16)	1.0	LS	\$	17,901.25	\$	17,901		
	Mobilization/Demobilization (5% of Divs 2-17) Bonds and Insurance (2% of Divs 2-17)	1.0	LS	\$	42,963.00	\$	42,963		
	,	1.0	LS	\$	28,642.00	\$	28,642		
	Prime / Sub Contractor's OH&P (17.5% of Divs 2-17)	1.0	LS	\$	250,617.50	\$	250,618		
	Total for Division 1					\$	390,200		
Division 2	Sitework							\$	336,800
	Excavation	296.3		\$	120.00	\$	36,000		
	Backfill & Compaction	1,250.0		\$	55.00	\$	68,750		
	Dewatering	1.0		\$	25,000.00	\$	25,000		
	Clear and Grub	1.00		\$	3,500.00	\$	3,500		
	Site Grading		LS	\$	30,000.00	\$	30,000		
	Base Mix BM-25 (4")	633.0		\$	18.00	\$	11,394		
	Base Aggregate (8")	633.0		\$	30.00	\$	18,990		
	Gravel Road (6")	676.0		\$	18.00	\$	12,168		
	Seeding	1.0		\$	2,500.00	\$	2,500		
	Chain Link Fence (8' Height)	220.0		\$	45.00	\$	9,900		
	Site Restoration	1.0		\$	10,000.00	\$	10,000		
	Gravity Sewer Manholes	2.0		\$	8,000.00	\$	16,000		
	12" PVC Gravity Sewer	100.0		\$	215.00	\$	21,500		
	8" DIP Force Main	100.0		\$	200.00	\$	20,000		
	Erosion and Sediment Control	1.0	LS	\$	35,000.00	\$	35,000		
	Subtotal					\$	320,702		
	Other Related Work Not Itemized Above					·	, .		
	(Unsuitable Material, Select Fill, Excess Stone, Dust Control,								
	Periodic Site Cleanup,)					\$	16,000		
	Total for Division 2					\$	336,800		
Division 3	Concrete							\$	212,600
	20' x 20' Precast Building	1.0	EA	\$	60,000.00	\$	60,000		
	9' Diameter X 30' Deep Wet Well		EA	\$	60,000.00	\$	60,000		
	Shaping Grout for Pump Station Structures	50.0		\$	775.00	\$	38,800		
	15'-10" X 7'-9" Generator Pad	7.0	CY	\$	1,200.00	\$	8,400		
	Concrete Pad for Precast Building	20.0	CY	\$	1,400.00	\$	28,000		
	Sidewalk, Concrete Apron, Grinder Pack Pad &								
	Condensing Unit Pad	5.0	CY	\$	1,200.00	\$	6,000		
	Emergency Bypass Connection Pad	1.0	CY	\$	1,400.00	\$	1,400		
	Subtotal					\$	202,600		
	Other Related Work Not Itemized Above (Sleeves,					Ψ	202,000		
	Waterstops, Bonding Agents, Admixtures,)					\$	10,000		
	Total for Division 3					\$	212,600		
Division 4	Masonry (Not Used)							\$	-
Division 5	Metals	0.0	_ ^	φ.	000.00	•	4 000	\$	10,200
	36" X 48" Aluminum Hatch	2.0		\$	600.00	\$	1,200		
	Allowance for Pipe Supports	1.0	LS	\$	8,000.00	\$	8,000		
	Subtotal					\$	9,200		
	Other Related Work Not Itemized Above					Ψ	3,200		
	(Anchors, Ladders, Misc. Hardware)					\$	1,000		
	Total for Division 5					\$	10,200		
Division 6	Wood and Plastics (Not Used)					Ψ	10,200	\$	_
Division 7	Thermal and Moisture Protection							\$	8,000
	Precast Building Moisture Barrier	1.0	LS	\$	7,000.00	\$	7,000	-	2,220
		1.0			.,500.50	*	.,000		
	Subtotal					\$	7,000		
	Other Related Work Not Itemized Above					_			
	(Sealants)					\$	1,000		
	Total for Division 7					\$	8,000		

#### Rte. 15 WWPS

				Materi					
Division	ltem	Quantity	Units		\$/Unit	5	Subtotal		Total
Division 8	Doors and Windows							\$	22,000
	FRP Doors, Frames, and Hardware	4.0	EA	\$	4,750.00	\$	19,000		
						\$	-		
						_			
	Subtotal					\$	19,000		
	Other Related Work Not Itemized Above					_	0.000		
	(Weatherstripping, Thresholds)					\$ \$	3,000		
Division 9	Total for Division 8 Finishes					Þ	22,000	\$	12 200
DIVISION 9	Piping and Equipment Painting	150.0	LF	\$	28.00	\$	4,200	Ψ	12,300
	Interior Painting	672.0		\$	12.00	\$	8,064		
	interior r ainting	072.0	OI .	Ψ	12.00	Ψ	0,004		
	Subtotal					\$	12,264		
	Other Related Work Not Itemized Above					1	,		
	(Piping Identification, Touch-up Work)					\$	-		
	Total for Division 9					\$	12,300		
Division 10	Specialities							\$	2,400
	Fire Extinguisher	1.0	EA	\$	55.00	\$	55		•
	Allowance for Signage	1.0	LS	\$	2,250.00	\$	2,250		
	Total for Division 10					\$	2,400		
Division 11	Equipment	-						\$	160,000
	Wet-Pit Submersible Pump	2.0	EA	\$	60,500.00	\$	121,000		
	Equipment Installation	25.0	%	\$	31,000.00	\$	31,000		
	Subtotal					\$	152,000		
	Other Related Work Not Itemized Above (Manuf.					_			
	Certifications, Training, Initial Chemicals and Media)					\$	8,000		
Division 44	Total for Division 11					\$	160,000	•	
Division 14 Division 15	Conveying Systems (Not Used)  Mechanical & Plumbing							\$	145,600
DIVISION 15	8" MJ Plug Valve	1	EA	\$	2,433.60	\$	2,434	Ψ	145,600
	1-1/2" HDPE Waterline		LF	\$	3.90	\$	2,454		
	1-1/2" Corporation Stop		EA	\$	286.00	\$	286		
	Tapping Saddle		EA	\$	728.00	\$	728		
	6" Elbow, FL x FL (90 degrees)		EA	\$	275.60	\$	1,654		
	6" Elbow Surge Relief Valve	1	EA	\$	7,117.50	\$	7,118		
	4" Male Aluminum Camlock Fitting	1	EA	\$	195.00	\$	195		
	4" FLG Plug Valve	1	EA	\$	945.10	\$	945		
	6" FLG Plug Valve	3	EA	\$	1,619.80	\$	4,859		
	4" Restrained Flange Adapter	2	EA	\$	349.70	\$	699		
	6" Restrained Flange Adapter		EA	\$	349.61	\$	2,098		
	6" Check Valve		EA	\$	8,516.30	\$	17,033		
	8"x6" TEE		EA	\$	821.60	\$	822		
	6" TEE		EA	\$	627.90	\$	1,256		
	6"x4" TEE		EA	\$	601.90	\$	602		
	8" MJ Elbow (90 degrees)	1	EA EA	\$	228.80 157.30	\$	229		
	6" MJ Elbow (90 degrees)		EA	\$	96.20	\$	315 481		
	4" MJ Elbow (90 degrees) 8" Magnetic Flow Meter		EA	\$ \$	5,110.30	\$ \$	5,110		
	6" FLGxFLG Spool 3'		EA	\$	568.10	\$	568		
	6" FLGXFLG Spool 1'6"		EA	\$	443.30	\$	887		
	6" FIGXPE Pipe 3'		EA	\$	401.70	\$	402		
	6" FIGXPE Pipe 1'6"		EA	\$	276.90	\$	554		
	6" FLGxFLG Pipe 15'		EA	\$	1,566.50	\$	1,567		
	Pressure Gauge and transducer w/ Water Pressure Sensor Ri		EA	\$	2,431.00	\$	4,862		
	6" Saddle Pipe Support		EA	\$	203.20	\$	1,422		
	4" Saddle Pipe Support		EA	\$	174.12	\$	174		
	6" PExPE Pipe 6' Length	2	EA	\$	523.90	\$	1,048		
	6" PExPE Pipe 4'6" Length	3	EA	\$	399.10	\$	1,197		
	4" PExPE Pipe 7'6"		EA	\$	526.50	\$	527		
	4" PExPE Pipe 10'		EA	\$	695.50	\$	696		
	4" MJxPE Pipe 4'		EA	\$	503.10	\$	503		
	4" MJxPE Pipe 6'		EA	\$	457.60	\$	458		
	6" MJxMJ Pipe 6'		EA	\$	1,075.10	\$	2,150		
	4" Rubber Check Valve		EA	\$	390.00	\$	390		
	6" FLGxPE pipe 3'6"	2	EA	\$	443.30	\$	887		

#### Rte. 15 WWPS

	Cost Item				Materi	als			
Division	ltem	Quantity	Units		\$/Unit		Subtotal		Total
	4" FLGxPE Pipe 3'6"		EA	\$	357.50	\$	358		
	4" PExPE Pipe 1'6"		EA	\$	120.90	\$	121		
	4" PEXPE Pipe 1'		EA EA	\$	87.10	\$	174		
	6" Neoprene Boot 4" Link Seal		EA	\$ \$	117.00 227.36	\$ \$	234 455		
	16" FLGxMJ Wall Pipe 2'		EA	\$	2,133.30	\$	2,133		
	2" Air/Vaccum Valve		EA	\$	5,200.00	\$	5,200		
	2" Ball Valve		EA	\$	482.24	\$	482		
	8" Blind Flange Tapped for 2" NPT		EA	\$	247.00	\$	247		
	2" Threaded Pipe		EA	\$	6.50	\$	13		
	Knife Gate Valve Stem Support	2	EA	\$	172.51	\$	345		
	SS Guide Rail	1	EA	\$	384.80	\$	385		
	SS Guide Rail Support Bracket	3	EA	\$	31.10	\$	93		
	Pipe Bracket Support		EA	\$	172.51	\$	345		
	Float Switches and Appurtenances		LS	\$	650.00	\$	650		
	Submersible Level Transducer		EA	\$	1,181.70	\$	1,182		
	Level Transducer Appurtenances		LS	\$	650.00	\$	650		
	Cable Rack & Grips		LS	\$	325.00	\$	325		
	Electrical Rack		LS EA	\$	975.00	\$	975 650		
	RPZ Backflow Preventer Hose Bibb Surface Mount		EA	\$ \$	650.00 325.00	\$ \$	650 325		
	Hose Rack		EA	\$	260.00	\$	325 260		
	2" Tapping Saddle		EA	\$	728.00	\$	728		
	2" SS piping		LF	\$	32.50	\$	975		
	2" SS Elbows		EA	\$	24.69	\$	148		
	Valve Box and cover for knife Gate Valve		LS	\$	195.00	\$	195		
	Trench Drain	12	LF	\$	143.00	\$	1,716		
	12" Knife Gate Valve	1.0	EA	\$	5,250.00	\$	5,250		
	Pressure Gauge Assembly	3.0	EA	\$	525.00	\$	1,575		
	Pump Room Exhaust Fan	1.0	EA	\$	1,260.00	\$	1,260		
	Split System HVAC Unit	1.0	EA	\$	5,775.00	\$	5,775		
	Allowance for Plumbing	1.0	LS	\$	5,250.00	\$	5,250		
	Submerisible Level Transducer	2.0	EA	\$	3,360.00	\$	6,720		
	Mechanical Installation	25.0	%	\$	28,000.00	\$	28,000		
	Subtotal					\$	138,599		
	Other Related Work Not Itemized Above					•	100,000		
	(Hardware, valve boxes, misc. appurtenances)					\$	7,000		
Division 16	Total for Division 15 Electrical					\$	145,600	\$	522,200
DIVISION 10	New Electrical Service	1.0	LS	\$	24,500.00	\$	24,500	Ψ	522,200
	Main Circuit Breaker	1.0	LS	\$	12,500.00	\$	12,500		
	Diesel Generator and ATS	1.0	LS	\$	185,000.00	\$	185,000		
	Pump Motor Controllers (VFD w/ RVSS bypass)	2.0	EA	\$	44,500.00	\$	89,000		
	Power Distribution Equip (Switchboard & Panelboards)	1.0	LS	\$	7,500.00	\$	7,500		
	Lighting	1.0	LS	\$	18,000.00	\$	18,000		
	Conduits and Conductors	1.0	LS	\$	20,625.00	\$	20,625		
	Miscellaneous Electrical	1.0	LS	\$	40,000.00	\$	40,000		
	Electrical Installation	25.0	%	\$	100,000.00	\$	100,000		
	Culstatal						407.405		
	Subtotal Other Related Work Not Itemized Above (Manuf.					\$	497,125		
	Certificates, Training, Heat Tracing, Grounding)					\$	25,000		
	Total for Division 16					\$	522,200		
Division 17	Instrumentation and Controls					Ĺ	- ,	\$	160,000
	Flow Meter	1.0	EA	\$	9,500.00	\$	9,500		
	Pressure Transmitter	1.0	EA	\$	7,500.00	\$	7,500		
	Process Control System (PLC, OIT, Misc. Panels, etc.)		LS	\$	80,000.00	\$	80,000		
	SCADA Integration	1.0		\$	45,000.00	\$	45,000		
	Miscellaneous Instrumentation	1.0	LS	\$	10,000.00	\$	10,000		
	Subtotal					\$	152,000		
	Other Related Work Not Itemized Above (Gauges, Test					۴	132,000		
	Equipment, Manuf. Certificates, Troubleshooting, Training)					\$	8,000		
	Total for Division 13					\$	160,000		
L	Total for Division 10	Ī	I .	1		Ψ.	,		

#### Rte. 15 WWPS

Cost Item		Mate	rials		
Division Item Quan	ity Units	\$/Unit	Subtotal		Total
Cost Summary					
Division 1 Genera				\$	390,200
Division 2 Sitewood	= =			\$	336,800
Division 3 Concre	-			\$	212,600
Division 4 Masoni	y			\$	-
Division 5 Metals				\$	10,200
Division 6 Wood a				\$	-
Division 7 Therma		Protection		\$	8,000
Division 8 Doors a				\$	22,000
Division 9 Finishe	-			\$	12,300
Division 10 Special				\$	2,400
Division 11 Equipm				\$	160,000
Division 14 Convey				\$	-
Division 15 Mechan				\$	145,600
Division 16 Electric	al			\$	522,200
Division 17 Instrum	entation and Co	ontrols		\$	160,000
		Subtotal Constru		т.	1,982,300
	Co	onstruction Cont			495,575
			struction Cost	<u> </u>	2,477,875
		Eng	ineering (15%)		372,000
			Easements	•	12,500
			al Project Cost	•	2,862,375
			stimate (+30%)		3,721,100
		Low Range E	stimate (-20%)	\$	2,289,900



# Fluvanna County Zion Crossroads Wastewater System Preliminary Environmental Review (PER)

#### **Brief Project Description:**

This review consists of the identification of potential environmental constraints or areas of concern within the proposed project area for the Fluvanna County Zion Crossroads Wastewater System project. Given the project location, a feature survey and wetland delineation are anticipated to be necessary to supplement the topographic survey to identify environmentally sensitive features within a 50' or 100'-wide corridor(s) around the proposed alignment(s). As Palustrine Forested (PFO) wetlands and streams have been previously identified within the project area, it is anticipated that the project will require the preparation of a Joint Permit Application (JPA).

It is anticipated that the gravity sewer, pump station and force main portions of the project will need to be permitted together/as a singular project due to the fact that these components do not have independent utility when considered separately. Based on preliminary alignments and locations, it appears that the project would require a U.S. Army Corps of Engineers (USACE) Nationwide Permit 58 (Utility Line Activities and Other Substances), and a Department of Environmental Quality (DEQ) Section 401 Certification or a Virginia Waters Protection (VWP) General Permit.

#### Results of the Preliminary Environmental Review:

• Cultural Resource surveys – Two previously identified architectural resources and one previously identified archaeological resource are located immediately adjacent to the proposed project areas. The #1009 Bridge (DHR ID: 032-0406) is located adjacent to the northern extents of all proposed gravity sewer alignments; this resource has been determined not eligible for listing on the National Register of Historic Places (NRHP). Hamm's County Store (DHR ID: 032-0374) is located adjacent to the gravity sewer alignment Option 1; this resource has not been evaluated for its NRHP eligibility. Archaeological resource ID 44FV0223, a domestic dwelling site, lies adjacent to the northern extent of all alignment options for the proposed force main; this resource has not been evaluated for its NRHP eligibility.

No previous Phase I Cultural Resource surveys are recorded for the project area. Given the extent of previous development and disturbances along the majority of the proposed alignments, and the nature of the project, it is anticipated that the potential for this project to adversely affect cultural or historic resources will be low. However, it is suggested that a Phase I cultural resources survey be performed along the preferred alignment (once selected) to ensure that unidentified cultural resources within the proposed limits of disturbance are accounted for, and all cultural resources are avoided as practicable to ensure that the project has no adverse effects to cultural resources. It is anticipated this review will be necessary for the Section 106 process that will be required as part of the USACE permit application review.



- Review Existing Threatened and Endangered species registers A preliminary review of Federal and State databases including those managed by the Virginia Department of Conservation and Recreation Division of Natural Heritage (VDCR-NH), Virginia Department of Wildlife Resources (DWR), and the U.S. Fish and Wildlife Service (USFWS) indicated that no threatened and endangered species (T&E) have been documented within the project area. The Ballinger Creek/Hunter's Branch Stream complex is listed as a Stream Conservation Unit (SCU) by DCR and potential habitat for the State Endangered Virginia Piedmont Water Boatman by VDWR. However, no confirmed habitat is present within the project area. Further reviews and agency consultations will be utilized as part of the permitting process to determine if additional studies or surveys are required to comply with Federal or State Endangered Species Act.
- Regulated Floodplains A preliminary review of the Federal Emergency Management Agency (FEMA) National Flood Hazard Layer Viewer and the Fluvanna County GIS mapper indicated that there are no flood hazard areas within the project area. In addition, the majority of the project would be constructed underground and is not anticipated to result in a change in elevation within the project area. Floodplain studies are not anticipated to be necessary for this project.
- Conservation Easements & Agricultural/Forestal Districts A preliminary review of the Virginia Outdoors Foundation (VOF) Conservation Lands mapper and the Fluvanna County GIS mapper indicated that there are no conservation easements or conservation districts located within the proposed project area.
- Hazardous Materials The DEQ Environmental Data Mapper was used to identify Land Related Records of hazardous materials sources and sites. A number of potential sources for hazardous materials exist within and adjacent to the north of the proposed project area. Facilities with solid waste permits and registered petroleum tanks exist mainly at the northern extents of the proposed gravity sewer alignments along Three Notch Road. There are also several petroleum release record sites in the same vicinity. Additionally, there are two closed National Preparedness for Response Exercise Program (PReP) Pollution Response sites along Troy Road near to the location of Pump Station Option 1 and the southern extent of gravity sewer alignment Option 1 and force main alignment Options 1.0 and 1.1. The majority of the project area does not have any recorded hazardous materials sites.
- WOUS/Wetland Impacts The proposed alignments were compared to the available stream and wetland layers available through the National Wetland Inventory (NWI) and the Fluvanna County mapper to assess the potential for each element to impact jurisdictional wetlands and streams. The following information for each figure was estimated based off of this preliminary mapping:
  - Gravity Sewer Option 1 This alignment runs parallel to Hunter's Branch for a distance of approximately 2,000 feet and appears to include two stream crossings.



- Gravity Sewer Option 2 This alignment runs parallel to Hunter's Branch for approximately 4,500 feet and appears to include at least 4 stream crossings. The alignment also runs through areas mapped as Palustrine Forested (PFO) wetlands on the NWI maps.
- Gravity Sewer Option 3 This alignment runs parallel to Hunter's Branch for a distance
  of approximately 2,000 feet and appears to include two stream crossings, including a
  crossing of Ballinger Creek where the NWI shows PFO wetlands being present.
- Pump Station Location Option 1 This location appears to be in uplands.
- Pump Station Location Option 2 This location appears to be adjacent to Hunter's Branch near an area mapped as PFO wetlands in the NWI database.
- Pump Station Location Option 3 This location appears to be adjacent to Ballinger Creek near an area mapped as PFO wetlands in the NWI database.
- Force Main Option 1.0 This alignment appears to cross Ballinger Creek twice and run adjacent to the stream for a short distance (approximately 500 ft.). This alignment runs parallel to the creek approximately where a mapped PFO wetlands is identified on the NWI map.
- Force Main Option 1.1 This alignment appears to cross Ballinger Creek three times and run adjacent to the stream for two short sections (approximately 500 ft. each). This alignment runs parallel to the creek approximately where a mapped PFO wetlands is identified on the NWI map.
- Force Main Option 2.0 This alignment appears to cross Ballinger Creek and Hunter's Branch a combined 3 times and crosses Hunter's Branch where a mapped PFO wetlands is identified on the NWI map.
- Force Main Option 2.1 This alignment appears to cross Ballinger Creek and Hunter's Branch a combined 4 times and crosses Hunter's Branch where a mapped PFO wetlands is identified on the NWI map. This alignment also runs parallel to Ballinger Creek for a short distance (approximately 500 ft.).
- Force Main Option 3 This alignment appears to cross Ballinger Creek twice. This alignment also runs parallel to Ballinger Creek for a short distance (approximately 500 ft.).

#### **Environmental Constraints Summary Table**

Wastewater	Cultural	T&E Species	Hazmat	WOUS Impacts	
Facility	Resources		Sites		
Gravity	Adjacent to DHR ID	No known T&E	Facilities &	Estimated 2	
Sewer	032-0406 (not	species present;	Petroleum	stream crossings;	
Option 1	eligible) and ID 032-	Crosses SCU/SE	spill sites @	Parallel to stream	
	0374 (not evaluated);	species potential	north end;	for approx. 2,000	
	Phase 1 Survey	habitat.	PReP sites	ft.	
	recommended		@ south end		
Gravity	Adjacent to DHR ID	No known T&E	Facilities &	Estimated 4	
Sewer	032-0406 (not	species present;	Petroleum	stream crossings;	
Option 2	eligible); Phase 1	Crosses SCU/SE	spill sites @	Parallel to stream	
	Survey	species potential	north end	for approx. 4,500	
	recommended	habitat.		ft.; Probable PFO	
				impacts	



Wastewater	Cultural	TOE Chasias	Llazmat	WOLIG Imposts
Facility	Cultural Resources	T&E Species	Hazmat Sites	WOUS Impacts
Gravity Sewer Option 3	Adjacent to DHR ID 032-0406 (not eligible); Phase 1 Survey recommended	No known T&E species present; Crosses SCU/SE species potential habitat.	Facilities & Petroleum spill sites @ north end	Estimated 2 stream crossings; Parallel to stream for approx. 2,000 ft.; Probable PFO impacts
Pump Station Option 1	Phase 1 Survey recommended	No known T&E species present	PReP sites adjacent	None identified
Pump Station Option 2	Phase 1 Survey recommended	No known T&E species present; Adjacent to SCU/SE species potential habitat.	None identified	Potential stream/PFO impacts
Pump Station Option 3	Phase 1 Survey recommended	No known T&E species present; Adjacent to SCU/SE species potential habitat.	None identified	Potential stream/PFO impacts
Force Main Option 1.0	Adjacent to DHR ID 44FV0223 (not evaluated); Phase 1 Survey recommended	No known T&E species present; Crosses SCU/SE species potential habitat.	PReP sites @ south end	Estimated 2 stream crossings; Parallel to stream for approx. 500 ft.; Probable PFO impacts
Force Main Option 1.1	Adjacent to DHR ID 44FV0223 (not evaluated); Phase 1 Survey recommended	No known T&E species present; Crosses SCU/SE species potential habitat.	PReP sites @ south end	Estimated 3 stream crossings; Parallel to stream for approx. 1,000 ft.; Probable PFO impacts
Force Main Option 2.0	Adjacent to DHR ID 44FV0223 (not evaluated); Phase 1 Survey recommended	No known T&E species present; Crosses SCU/SE species potential habitat.	None identified	Estimated 3 stream crossings; Probable PFO impacts
Force Main Option 2.1	Adjacent to DHR ID 44FV0223 (not evaluated); Phase 1 Survey recommended	No known T&E species present; Crosses SCU/SE species potential habitat.	None identified	Estimated 4 stream crossings; Parallel to stream for approx. 500 ft.; Probable PFO impacts
Force Main Option 3	Adjacent to DHR ID 44FV0223 (not evaluated); Phase 1 Survey recommended	No known T&E species present; Crosses SCU/SE species potential habitat.	None identified	Estimated 2 stream crossings; Parallel to stream for approx. 500 ft.; Probable PFO impacts



Fluvanna County Zion Crossroads PERMIT REGISTER (Environmental Permits)– 05/16/2023									
Agency	Permit/Approval Type	Regulatory Citation	Project Requirement	Action/Report/Application	Design Phase Necessary to Make a Determination of need or submittal	Production/ Processing Length	Client Signature	Submittal Date	Current Status
U.S. Army Corps of Engineers (USACE)	Jurisdictional Determination (JD) (Section 404)	33 U.S.C. §1344	Wetland Delineation	Wetland Delineation Report and Jurisdictional Determination Request	30%	3 months		*Per recent USACE guidance, Delineation Reports (DRs) submitted with a JPA will take priority over stand- alone DR submissions.	
U.S. Army Corps of Engineers (USACE)	Nationwide Permits (NWP) Clean Water Act (Section 404 & Section 10)	33 U. S. C. §1344	Anticipated to be necessary based on Preliminary Alignments; Permit Required if jurisdictional features will be impacted; NWP #58 (Utility Line Activities and Other Substances) anticipated	Nationwide #58 anticipated; temporary impacts to jurisdictional features at crossings anticipated, some tree clearing likely required.	60-100% plan review	3-4 months			
VA Department of Environmental Quality (DEQ)	Virginia Water Protection (VWP) Permit (Section 401 Water Quality Certificate)	9 VAC 25-260-10 9 VAC 25-210-10 et seq 9 VAC 25-680-10 et seq	Anticipated to be necessary based on Preliminary Alignments; Permit Required if jurisdictional features will be impacted; VWP general permit or VWP Coverage Decision/Exemption necessary (dependent on proposed impacts).	Nationwide #58 anticipated; temporary impacts to jurisdictional features at crossings anticipated, VWP coverage decision or general permit will be required.	60-100% plan review	3-4 months			
Virginia Marine Resource Commission (VMRC)	Subaqueous Individual Permit to construct in Virginia Tidal Wetlands and Subaqueous bottoms.	Code of VA § 28.2-1200 through 28.2-1400	Not Anticipated Necessary; No State Waters identified within project area.	No waters under VMRC jurisdiction have been identified within the proposed project areas.	60-100% plan review	3-6 months	N/A	N/A	N/A
VA Department of Environmental Quality (DEQ)	Certificate to Construct	9 VAC 25-790-50 and 60 9 VAC 25-740	For Municipal Sewage Collection, major modifications if engineer is needed.	File Certificate to Construct application	Plan Approval Prior to Bid	30-45 days			
VA Department of Environmental Quality (DEQ)	Certificate to Operate	9 VAC 25-790-50 and 60	Proposed action will require a CTO for the new systems being proposed.	File application at substantial completion (requires statement of completion)	Plan Approval -Prior to Operation	2 weeks			

VA Department of Environmental Quality (DEQ)	Air Quality Permit for Generator Emission	9 VAC 5-80-1100	TBD; dependent on if proposed Pump Station requires a generator and on size of generator; see below for limits of exemption from permit requirements by generator size, anything over will need a permit.  Diesel engines that have an aggregate brake horsepower of less than 1,675 horsepower (1,125 kilowatts). **NOTE: "Aggregate" means the sum or total brake horsepower (or kilowatts) for all generators included in the application.	File permit application if necessary upon determination of requirement, size & fuel type	60-90%	1 month	
Fluvanna County and VA Department of Environmental Quality (DEQ)	Stormwater Management Program Permit (VSMP – DEQ, and SWPPP preparation (Section 402))	9VAC25-880-50	If limits of disturbance in excess of 1 acre, a VSMP will be required; will need to be permitted as part of Pre-Construction approvals process	100% plan review and approval	Minor Site Plan	Estimated 30 days	
Fluvanna County	Erosion and Sediment Control Plan Approval (w/ Land Disturbing Permit application)	VA Code 1950 10-1-506 Fluvanna County Ordinances Section 6-1-3/4	If LOD exceeds 1 acre, ESC Plan must be included with land disturbing application	TBD, anticipated necessary. Submission and approval of an ESC plan with the land disturbing permit application	90%	Estimated 45 days	
Fluvanna County Permits – TBD	Land Disturbing Permit		Submission of plats, ESC Plan, and completed land disturbing permit application	Submission of land disturbing permit application	Site plan or minor site plan approval	Estimated 45-90 days	
Fluvanna County Permits – TBD	Site Development Application/ Building & Zoning Permit		Submission of Site Development Application and Building & Zoning Permit Application (As applicable)	Submission of Site Development Application and Building & Zoning Permit Application	Site plan or minor site plan approval	Estimated 45-90 days	
Fluvanna County Permits – TBD	Tree Protection Plan		A tree protection plan is required for site development plans involving land clearance of more than ½ acre and/or all activities requiring a land disturbing permit; assumed to be applicable to this project.	Submission of Tree Protection Plan with Final Site Development Plan	Site plan or minor site plan approval	Estimated 45-90 days	
VDOT	VDOT Entrance Permit	24 VAC 30-151	Required for access to VDOT Right of Way.	LUP Application with VDOT bond.	Required once plan is approved by site review and in bonding	2-3 weeks	

Acronyms: WOUS – Waters of the U. S.

# Dewberry







# Zion Crossroads Rte. 250/15 Wastewater System

Fluvanna County Board of Supervisors Meeting

Brett Heim, PE, Senior Project Manager, Dewberry Engineers, Inc.

**August 2, 2023** 

# Agenda

- Terminology
- Background
- Need for expanding the system
- Sizing of the wastewater pump station (WWPS)
- Location of WWPS, gravity sewer, and force main
- Phasing of expansion
- Opinion of probable construction costs



# **Terminology**

- Gravity sewer: underground pipes that flow by gravity. Typically flow to a wastewater pump station or treatment plant.
- Wastewater pump station (WWPS): pumps flow from a lower elevation to a higher elevation through a force main.
- Force main: pressurized pipe that allows pumped wastewater to be conveyed from a lower elevation to a higher elevation.
- Wastewater treatment plant (WWTP): location where wastewater is treated (cleaned).
- MGD = unit of flow rate, million gallons per day

# Background

 Dewberry tasked with evaluating the expansion of the wastewater system south along Rte 250 & 15

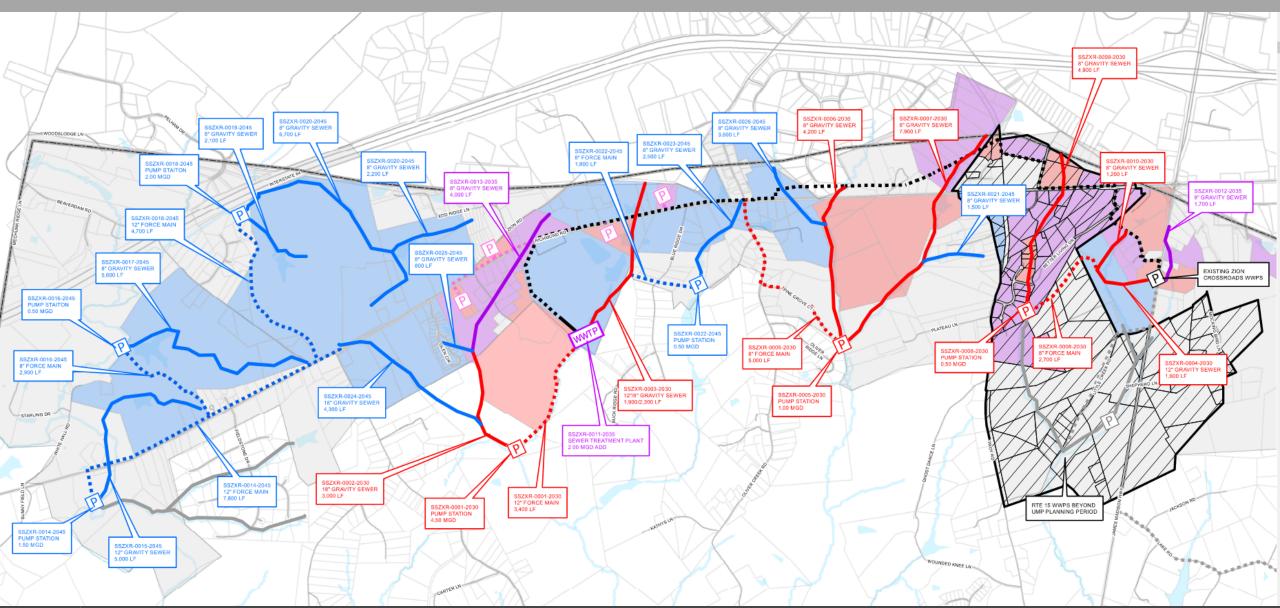
- Completed draft PER in May 2023
- Completed final PER in June 2023

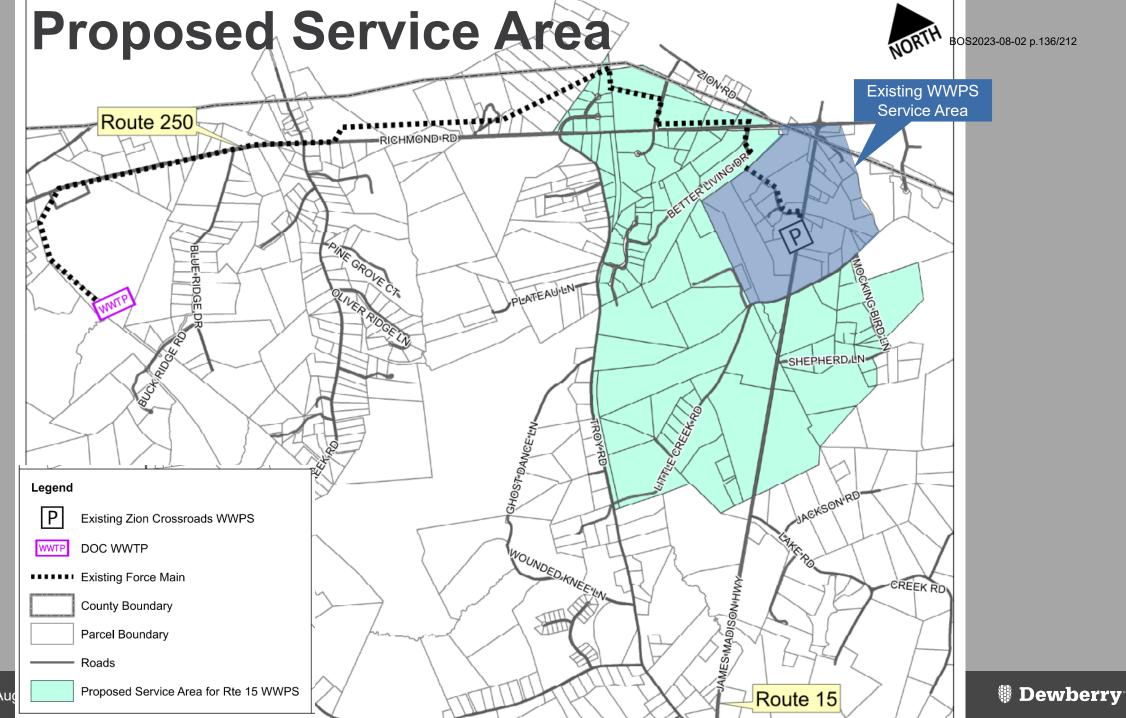


# Need for Expansion of Wastewater System

- Allows for continued development along Troy Rd., Rte. 250 and Rte. 15
  - Identified as part of 2022 Utilities Master Plan
- Existing interest in development along Rte. 250 and Rte. 15
- Need to support with utilities
- Opportunity to capitalize on development by cost sharing expansion

# Part of Wastewater Master Plan





# Sizing Criteria

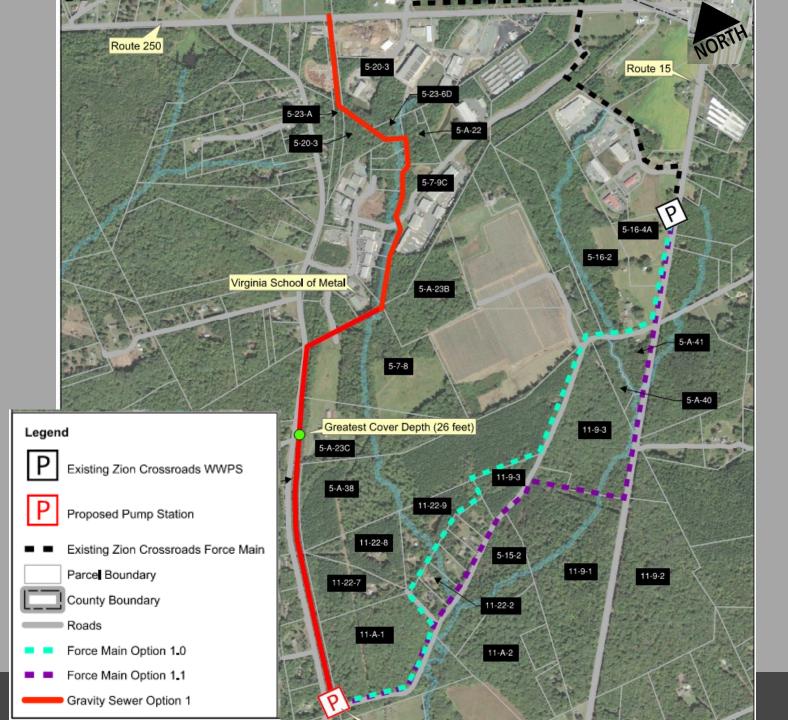
- WWPS sized for 1 MGD
  - Limited by size of the existing WWPS
  - 1 MGD ~ 4 million sq. ft. shopping center or 5 million sq. ft. office space
- Dept. of Corrections Wastewater
   Treatment Plant
  - 0.3 MGD currently, with possible expansion to 1.8 MGD
  - Currently in discussions with DOC to analyze an expansion to 0.6 MGD



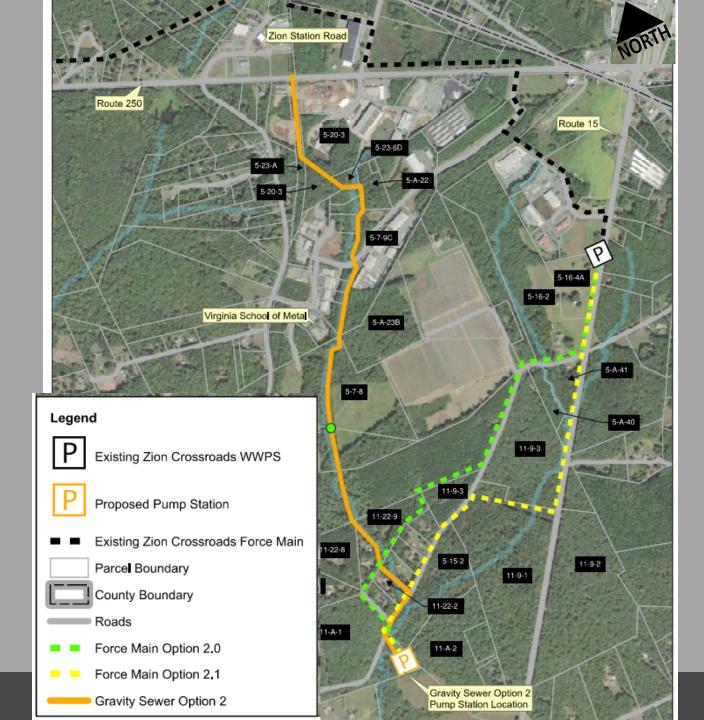
# **Location of WWPS**

- Considerations:
  - Maximize service area while balancing cost and constructability
  - Leverage existing development interest
  - Attract businesses to County utilities
- Gravity sewer: evaluated 3 different route options
  - Chose shortest option while maximizing service area to save on cost
- Force main: evaluated 5 different route options
  - Chose shortest option for cost savings
- Wastewater pump station: evaluated 3 different locations
  - Located to minimize difficulty of construction and save on cost

# Option 1

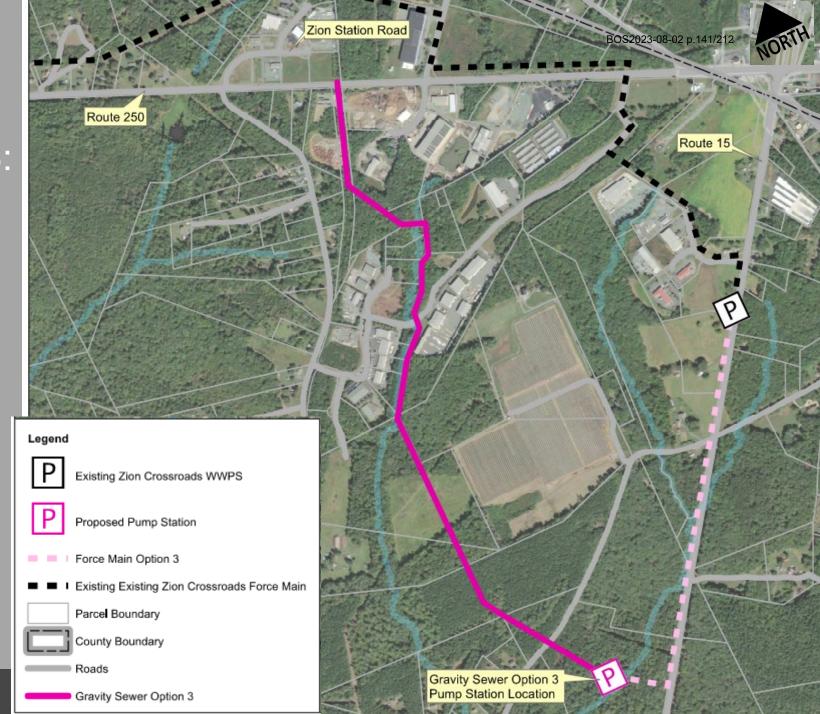


# Option 2



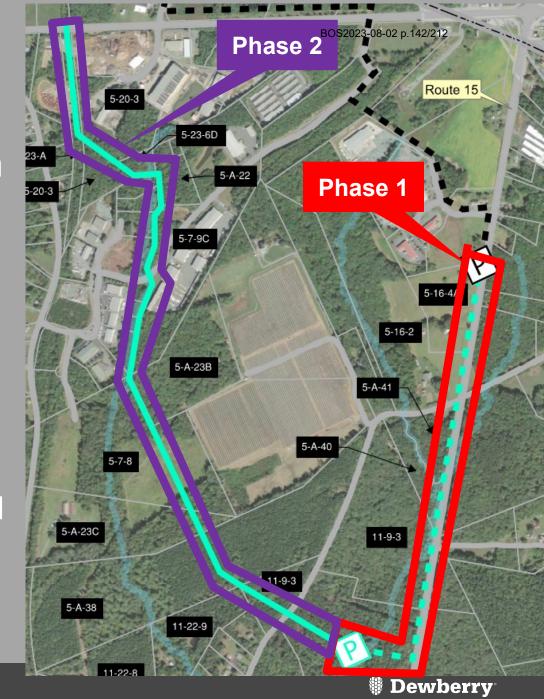
# Option 3

- Recommended Option 3:
  - Shortest route
  - Lowest cost
  - Impacted the fewest property owners



# **Phasing of Expansion**

- Phase 1: Build WWPS and force main
  - Parcels along Rte. 15 are more likely to develop sooner than along the gravity sewer route
  - Leverage potential cost sharing with developers
- Phase 2: Gravity sewer extension to Rte. 250
  - When demand grows along Troy Rd. and Rte. 250



# **Opinion of Cost**

Phase	Component	Option 1	Option 2	Option 3
Phase 1	Force Main	\$3.05M	\$2.71M	\$1.73M
	Pump Station	\$2.86M	\$2.86M	\$2.86M
Phase 2	Gravity Sewer	\$4.41M	\$4.27M	\$3.75M
	Total	\$10.32M	\$9.84M	\$8.34M

All dollars in millions.





# **Timeline**

- Phase 1: Pump Station & Force Main
  - Design & Easement Acquisition: 12 months
  - Construction: 12-18 months
- Phase 2: Gravity Sewer
  - Design & Easement Acquisitions: 12 months
  - Construction: 10-12 months











# **Questions?**

Brett Heim: bheim@dewberry.com

## FLUVANNA COUNTY BOARD OF SUPERVISORS AGENDA ITEM STAFF REPORT

TAB H

MEETING DATE:	August 2, 2023						
AGENDA TITLE:	Dogs Runnir	Dogs Running at Large Ordinance					
MOTION(s):	N/A						
BOS 2 YEAR GOALS?	Yes	No		If yes, which go	al(s):		
AGENDA CATEGORY:	Public Heari	ng Action	Matter	Presentation	Consent Agenda	Other	
				X			
STAFF CONTACT(S):	Dan Whitter	n, County At	torney				
PRESENTER(S):	Dan Whitter	n, County At	torney				
RECOMMENDATION:	Information	al					
TIMING:	Routine						
DISCUSSION:	Office over the balance for a dogs running at minimum representing running at late the amendation of t	the years for all residents g at large or needs to be g Lake Mont arge ordinan nents would nce. The ord are exempt	a Dogs R in the codinance a updated icello. The ce that we make the dinance we cions for ce	n from residents and unning at Large or mmunity. Current pplicable to the Late to reflect the correct County Attorney ould make the order ordinance similar ould allow for wardings engaged in hubivity.	rdinance, while trally, Fluvanna Courtake Monticello surect magisterial dans drafted ame dinance applicabler to Louisa Count	ying to find a aty only has a bdivision, which istricts ndments to the e county-wide. y's running at matter goes to	
FISCAL IMPACT:	N/A						
POLICY IMPACT:	N/A						
LEGISLATIVE HISTORY:	N/A						
ENCLOSURES:	<ul> <li>Fluvanna County Code - Sec. 4-2-2 Running at large ordinance amendments (blacklined and final versions).</li> <li>Louisa County Code - Sec. 14-28. Dogs not to be off owner's premises except when under control; enforcement.</li> </ul>						
REVIEWS COMPLETED:	Legal <b>X</b>	Fin	ance	Purchasing	HR	Other	

# ORDINANCE TO AMEND "THE CODE OF THE COUNTY OF FLUVANNA, VIRGINIA", BY AMENDING § 4-2-2 TO CLARIFY THAT THE DOG RUNNING AT LARGE ORDINANCE IS APPLICABLE TO THE ENTIRE COUNTY WITH EXEMPTIONS FOR HUNTING AND AGRICULTURE

BE IT ORDAINED by the Board of Supervisors of Fluvanna County:

- (1) That The Code of the County of Fluvanna, Virginia is amended by amending § 4-2-2, as follows:
- Sec. 4-2-2. <u>Dogs</u> <u>Rrunning</u> at large in <u>Lake Monticello subdivision</u>.
  - (a) The running at large of all dogs at any time is hereby prohibited within the confines of Lake Monticello subdivision, in the Cunningham magisterial district of the County. It shall be the duty of a sworn law enforcement officers to enforce the provisions of this section.
  - (b) For the purposes of this section a dog shall be deemed to run at large while roaming or; running or self-hunting off the property of its owner or custodian and not under its owner's or custodian's immediate control; provided, however, that no dog shall be deemed to be running at large in violation hereof if it shall be engaged in lawful hunting or training for hunting outside of such subdivision under the direction of its owner or custodian and shall thereafter stray from lawful hunting or training for hunting into such subdivision; or if the dog shall be engaged to assist farming activity, which is defined as raising, managing and using agricultural animals to provide food, fiber, or transportation; provided, that such owner or custodian shall place such dog under his immediate control within a reasonable time.
  - (c) A violation of this section may result in such dog being taken into possession by the sworn law enforcement officer and returned to the owner or custodian with a written warning.
  - (d) A violation of this section by a habitual offender, defined as an owner or custodian having three or more violations of this section within two years, will result in a \$100.00 fine. Any person who permits his dog to run at large shall be subject to a fine of not more than \$100.00.
  - (e) A dog shall be deemed to be "running at large in a pack" if it is running at large in the company of one or more other dogs that are also running at large. The owner or custodian of a dog found while running at large in a pack shall be subject to civil penalty in the amount of \$100.00 per dog so found.

(Comp. 1974, ch. 4; Ord. 8-4-86; Ord. 11-18-15)

State Law reference— Authority of County to prohibit dogs running at large, see Code of Va., § 3.2-6538.

(2) That the Ordinance shall be effective upon adoption.

# ORDINANCE TO AMEND "THE CODE OF THE COUNTY OF FLUVANNA, VIRGINIA", BY AMENDING § 4-2-2 TO CLARIFY THAT THE DOG RUNNING AT LARGE ORDINANCE IS APPLICABLE TO THE ENTIRE COUNTY WITH EXEMPTIONS FOR HUNTING AND AGRICULTURE

#### BE IT ORDAINED by the Board of Supervisors of Fluvanna County:

(1) That The Code of the County of Fluvanna, Virginia is amended by amending § 4-2-2, as follows:

#### Sec. 4-2-2. – Dogs running at large

- (a) The running at large of all dogs at any time is hereby prohibited within the confines of the County. It shall be the duty of a sworn law enforcement officer to enforce the provisions of this section.
- (b) For the purposes of this section a dog shall be deemed to run at large while roaming or running off the property of its owner or custodian and not under its owner's or custodian's immediate control; provided, however, that no dog shall be deemed to be running at large in violation hereof if it shall be engaged in lawful hunting or training for hunting under the direction of its owner or custodian and shall thereafter stray from lawful hunting or training for hunting; or if the dog shall be engaged to assist farming activity, which is defined as raising, managing and using agricultural animals to provide food, fiber, or transportation; provided, that such owner or custodian shall place such dog under his immediate control within a reasonable time.
- (c) A violation of this section may result in such dog being taken into possession by the sworn law enforcement officer and returned to the owner or custodian with a written warning.
- (d) A violation of this section by a habitual offender, defined as an owner or custodian having three or more violations of this section within two years, will result in a \$100.00 fine.
- (e) A dog shall be deemed to be "running at large in a pack" if it is running at large in the company of one or more other dogs that are also running at large. The owner or custodian of a dog found while running at large in a pack shall be subject to civil penalty in the amount of \$100.00 per dog so found.

(Comp. 1974, ch. 4; Ord. 8-4-86; Ord. 11-18-15)

State Law reference— Authority of County to prohibit dogs running at large, see Code of Va., § 3.2-6538.

(2) That the Ordinance shall be effective upon adoption.

#### Sec. 14-28. Dogs not to be off owner's premises except when under control; enforcement.

- (a) It shall be unlawful for any dog in this county to run at large at any time. It shall be the duty of the animal control officer to enforce the provisions of this section.
- (b) For the purpose of this section, a dog shall be deemed to be "running at large" while roaming or running off the property of its owner or custodian and not under its owner's or custodian's immediate control; provided, that no dog shall be deemed to be running at large in violation of this section if it shall be engaged in lawful hunting or training for hunting under the direction of its owner or custodian and shall thereafter stray from lawful hunting or training for hunting; or if the dog shall be engaged to assist farming activity, which is defined as raising, managing and using agricultural animals to provide food, fiber, or transportation, provided, that such owner or custodian shall place such dog under his immediate control within a reasonable time.
- (c) A violation of this section may result in such dog being taken into possession by the animal control officer and returned to the owner with a written warning.
- (d) A habitual offender, three or more violations within two years, will result in a \$100.00 fine.
- (e) A violation within two years of receiving the fine will result in a court summons pursuant to Louisa County Code section 14-51 for an unlawful act that constitutes a Class 4 misdemeanor.

(Res. of 4-6-15(2015-87), Att.(§ 14-208); Res. of 5-2-22(2022-9), Att.)

State law reference(s)—Code of Virginia, § 3.2-6538 and § 3.2-6539.

## FLUVANNA COUNTY BOARD OF SUPERVISORS AGENDA ITEM STAFF REPORT

TAB I

MEETING DATE:	August 2, 2023							
AGENDA TITLE:	Truckers/Tr	Truckers/Tractor Trailer Signage on Rt. 600 and Rt. 618						
MOTION(s):	N/A							
BOS 2 YEAR GOALS?	Yes	No X		If yes, which goa	al(s):			
AGENDA CATEGORY:	Public Hear	ing Action	Matter	Presentation	Consent Agenda	Other		
				X				
STAFF CONTACT(S):	Eric Dahl, Co	ounty Admin	istrator					
PRESENTER(S):	Eric Dahl, Co	ounty Admin	istrator					
RECOMMENDATION:	Information	Information only						
TIMING:	Routine	Routine						
DISCUSSION:	(Lake Monti trailers stall travelling w VDOT, a sign	cello Rd.) int ing and creat est up Lake N n will be inst	ersecting ting traffi Monticello alled reco	's Office, the steep with Rt. 600 (Sour c issues from time o Rd. from South E ammending: IS NOT RECOMME	th Boston Rd.) ha to time for these Boston Rd. After v	s led to tractor vehicles vorking with		
FISCAL IMPACT:	N/A	N/A						
POLICY IMPACT:	N/A							
LEGISLATIVE HISTORY:	N/A							
ENCLOSURES:	None.							
REVIEWS COMPLETED:	Legal	Fin	ance	Purchasing	HR	Other		
MENIEWS COMPLETED:						Х		



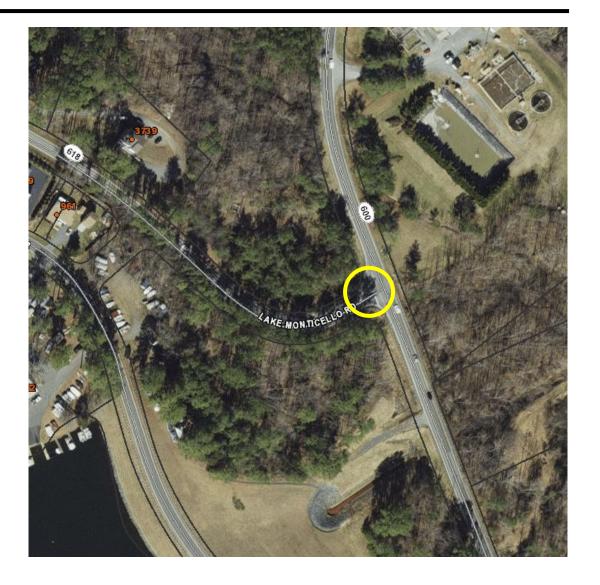


# TRUCKERS/TRACTOR TRAILER SIGNAGE ON Rt. 600 AND Rt. 618

Eric Dahl, County Administrator
August 2, 2023

## Truckers/Tractor Trailer Signage on Rt. 600 and Rt. 618

• After being notified by the Sheriff's Office, the steep incline at the bottom of Rt. 618 (Lake Monticello Rd.) intersecting with Rt. 600 (South **Boston Rd.) has led to tractor** trailers stalling and creating traffic issues from time to time for these vehicles travelling west up Lake Monticello Rd. from South Boston Rd.



## Truckers/Tractor Trailer Signage on Rt. 600 and Rt. 618

- After working with VDOT, a sign will be installed recommending:
- "TRUCKERS ROUTE 618 IS NOT RECOMMENDED FOR TRACTOR TRAILERS"
- Example of proposed signage for Rt. 600 and Rt. 618



# **QUESTIONS?**

## FLUVANNA COUNTY BOARD OF SUPERVISORS AGENDA ITEM STAFF REPORT

TAB J

MEETING DATE:	August 2, 2023							
AGENDA TITLE:	JRWA Projec	JRWA Project Cost Update						
MOTION(s):	N/A							
BOS 2 YEAR GOALS?	Yes X	No		If yes, which go	al(s):	C5		
AGENDA CATEGORY:	Public Heari	ng Action	Matter	Presentation	Consent Agenda	Other		
				Х				
STAFF CONTACT(S):	Eric Dahl, Co	unty Admin	istrator					
PRESENTER(S):	Eric Dahl, Co	unty Admin	istrator					
RECOMMENDATION:	Information							
TIMING:	Routine							
DISCUSSION:				ited JRWA constru rty acquisition and				
FISCAL IMPACT:	To be deterr	To be determined.						
POLICY IMPACT:	N/A							
LEGISLATIVE HISTORY:	N/A							
ENCLOSURES:	None							
REVIEWS COMPLETED:	Legal		ance <b>X</b>	Purchasing	HR	Other X		

## FLUVANNA COUNTY BOARD OF SUPERVISORS AGENDA ITEM STAFF REPORT

TAB K

MEETING DATE:	August 2, 20	August 2, 2023						
AGENDA TITLE:	Adoption of Minutes.	Adoption of the Fluvanna County Board of Supervisors July 5, 2023 Meeting Minutes.						
MOTION(s):		_		ne Fluvanna County 023, be adopted.	y Board of Supe	rvisors Regular		
BOS 2 YEAR GOALS?	Yes	No X		If yes, list goals	(s):			
AGENDA CATEGORY:	Public Hear	ng Actio	on Matter	Presentation	Consent Agenda	Other		
					XX			
STAFF CONTACT(S):	Caitlin Solis,	Clerk to tl	he Board					
PRESENTER(S):	Eric Dahl, Co	ounty Adm	inistrator					
RECOMMENDATION:	Approve	Approve						
TIMING:	Routine							
DISCUSSION:	None.							
FISCAL IMPACT:	N/A							
POLICY IMPACT:	N/A							
LEGISLATIVE HISTORY:	N/A	N/A						
ENCLOSURES:	Draft Minut	Draft Minutes July 5, 2023.						
REVIEWS COMPLETED:	Legal	F	inance	Purchasing	HR	Other		
REVIEWS CONFEELED.						Х		

### FLUVANNA COUNTY BOARD OF SUPERVISORS REGULAR MEETING MINUTES

#### Fluvanna County Library

214 Commons Blvd, Palmyra, Virginia 22963

July 5, 2023
Regular Meeting 5:00pm and 7:00pm

**MEMBERS PRESENT**: Mozell Booker, Fork Union District, Chair

Patricia Eager, Palmyra District, Vice Chair

John M. (Mike) Sheridan, Columbia District (entered meeting at 5:02pm)

Tony O'Brien, Rivanna District (entered meeting at 5:05pm)

Chris Fairchild, Cunningham District

ABSENT: None.

ALSO PRESENT: Eric M. Dahl, County Administrator

Kelly Harris, Assistant County Administrator

Dan Whitten, County Attorney

Caitlin Solis, Clerk for the Board of Supervisors

#### 1 - CALL TO ORDER, PLEDGE OF ALLEGIANCE, & MOMENT OF SILENCE

At 5:00pm, Chair Booker called to order the Regular Meeting of July 5, 2023. After the recitation of the Pledge of Allegiance, a moment of silence was observed.

#### 3 - ADOPTION OF AGENDA

Mr. Dahl asked to add *Ambulance Purchase Agreement No.2 with Atlantic Emergency Solutions, Inc.* to the agenda.

MOTION:	Accept the Ager	Accept the Agenda, for the July 5, 2023 Regular Meeting of the Board of							
MOTION.	Supervisors, as	Supervisors, as amended.							
MEMBER:	Mrs. Booker	Mrs. Eager	Mr. Fairchild	Mr. O'Brien	Mr. Sheridan				
ACTION:				Second	Motion				
VOTE:	Yes	Yes	Yes	Yes	Yes				
RESULT:			5-0						

#### 4 - COUNTY ADMINISTRATOR'S REPORT

Mr. Dahl reported on the following topics:

Announcements and Updates - New Employees

Justin May, Sheriff's Office, Deputy Sheriff in Training, Started June 28th

Announcements and Updates - Summer Fun at the Library!! FUN Workshops!!

- Bohemian Dreamcatcher 2 workshops of 20 people each (Adults)
- Tech Day LEGO Movie Maker & Robotics 2 workshops of 20 people each

#### Special Performances:

- Peter McCory: One Man Band 128 people
- Wes Iseli: Party Magic (magician) 298 people

#### **Next BOS Meetings:**

Day	Date	Time	Purpose	Location	
\A/od	A 2	5.00 DN4	4 . 2 . 5 . 0 . 5 . 4	Pagular Maating	Performing
Wed	Aug 2	5:00 PM	Regular Meeting	Arts Center	
\A/od	A.u.a. 1.6	7.00 DN4	Pagular Meating	Performing	
Wed	Aug 16	7:00 PM	Regular Meeting	Arts Center	
NA/od	Comt C	F.00 DN4	Dogular Mastins	Performing	
Wed Sept 6	5:00 PM	Regular Meeting	Arts Center		

#### **5 - PUBLIC COMMENTS #1**

At 5:04pm, Chair Booker opened the first round of Public Comments.

- Tom Diggs, 947 Jefferson Dr, spoke in opposition to ZTA 21:03.
- Christina Dickerson, 723 North Ruritan Dr, spoke in favor of a running at large ordinance for Fluvanna County.
- Suzy Morris, 6840 Thomas Jefferson Pkwy, spoke in opposition of a leash law.

With no one else wishing to speak, Chair Booker closed the first round of Public Comments at 5:15pm.

#### 6 - PUBLIC HEARING

None.

#### 7 - ACTION MATTERS

Resolution Recommending Appointment to the Board of Equalization – Eric Dahl, County Administrator A member of the Fluvanna County Board of Equalization moved out of the County and had to resign from the Fluvanna BOE. This Resolution directs submission of the replacement nominee for Circuit Court consideration and formal appointment to the BOE.

MOTION:	Adopt a resolution entitled, "A RESOLUTION RECOMMENDING APPOINTMENT TO THE BOARD OF EQUALIZATION."							
MEMBER:	Mrs. Booker							
ACTION:		Motion	Second					
VOTE:	Yes	Yes	Yes	Yes	Yes			
RESULT:	5-0							

Consulting Services Agreement with B. W. Murray, Inc. – Joyce Pace, General Registrar

Locality Election Security Standards (LESS) under Applicable Law make this Consulting Services Agreement necessary as the County Electoral Board must certify its compliance with these new standards. The County's objective in entering into this Agreement is to comply with (i) the 2023 Local Election Security Standards dated November 16, 2022, Version Number 4 ("LESS Standards"), attached the Agreement as Exhibit 1, and (ii) the 2023 Local Election Security Standards Controls Matrix, Tools and Resources dated November 2022, Version Number 4 ("LESS Controls"), attached to the Agreement as Exhibit 2. LESS Standards and LESS Controls as used in the Agreement mean as such standards are amended, modified, or replaced by similar standards or rules from time to time throughout the Term by the Virginia Department of Elections, or other agency given authority under Applicable Law to modify such standards, or as such are amended by Applicable Law. The Consultant in performing any Services under the Agreement must perform all Services so as to meet all applicable requirements, deadlines and target dates as required by the LESS Standards, LESS Controls, and any applicable Project Agreement. The expectation is the standards may change and this term agreement will allow for changes in work/scope as requirements are changed under Applicable Law. This task-order based term contract allows the parties to issues additional as-needed tasks based on changes in law or issues discovered.

	1							
	Approve the Co	nsulting Services	Agreement with	B. W. Murray &	Co., Inc., the			
	Fluvanna County Electoral Board and the Fluvanna County Registrar and the							
	County for as-ne	County for as-needed Services up to an maximum of no more than \$20,000 per						
MOTION	annual term and	d those current t	asks for Project A	Agreement 1 for (	Cybersecurity			
#1:	Planning Service	es for \$1,070.91	monthly and that	t Project Agreem	ent 2 for			
	Penetration Tes	ting at a one-tim	e cost of \$3,240,	and further auth	norize the			
	County Adminis	trator to execute	e the agreement,	project agreeme	ent 1 and			
	project agreeme	ent 2, subject to	approval as to fo	rm by the Count	y Attorney.			
MEMBER:	Mrs. Booker	Mrs. Eager	Mr. Fairchild	Mr. O'Brien	Mr. Sheridan			
ACTION:				Second	Motion			
VOTE:	Yes	Yes	Yes	Yes	Yes			
RESULT:			5-0					

MOTION #2:	amount of \$20, consulting servi	Approve an FY24 supplemental appropriation for the Registrar's Office in the amount of \$20,000 from FY24 BOS Contingency to cover cybersecurity consulting services costs to comply with 2023 Locality Election Security Standards (LESS) from the Virginia State Board of Elections and the Virginia							
	Department of	Elections.							
MEMBER:	Mrs. Booker	Mrs. Eager	Mr. Fairchild	Mr. O'Brien	Mr. Sheridan				
ACTION:				Second	Motion				
VOTE:	Yes	Yes Yes Yes Yes							
RESULT:	5-0								

Sheriff's Office Recruitment, Retention, and Salary Increase – Eric Hess, Sheriff

The Sheriff's Office discussed recruitment, retention and a proposal to increase minimum salaries for deputies, along with some other proposed changes at the June 21, 2023 BOS meeting. At that meeting, Sheriff Hess proposed the following changes:

- Change starting pay:
  - Certified Deputies to \$52,500 (currently \$49,500)
  - Non-certified to \$49,500 (currently \$46,500)
- Change sign-on Bonus amounts:
  - Certified sign-on bonus to \$7,500 (currently \$5,000)

- Non-certified sign-on bonus \$4,000 (currently \$0)
- Increase shift differential to \$2,200 for patrol deputies (currently \$1,100)
- Change to 80 hour pay period to be more competitive across the board FCSO deputies work on average of an additional 104 hours per year over competing agencies with higher starting salaries and bonuses

The board requested staff to come back with estimates for the proposed changes. After reviewing the Sheriff's Office resignations/retirements from calendar year 2020-2023, the average is about 5 resignations/retirements per year. Based upon this data, the below would represent the costs for various components of the Sheriff's Office proposed changes:

- 1) Increase Starting Pay for Deputies by \$3,000 for Certified and Noncertified:
  - i) Certified Deputies to \$52,500 (currently \$49,500)
  - ii) Non-certified to \$49,500 (currently \$46,500)

		Increase Starting Pay \$3K
Vacancy #1		\$ 3,000
Vacancy #2		\$ 3,000
Vacancy #3		\$ 3,000
Vacancy #4		\$ 3,000
Vacancy #5		\$ 3,000
	subtotal	\$ 15,000
Benefit Costs		\$ 3,003
	EST. TOTAL	\$ 18,003

- 2) Make Changes to Sign-On Bonuses:
  - i) Certified sign-on bonus to \$7,500 (currently \$5,000)
  - ii) Non-certified sign-on bonus \$4,000 (currently \$0)

	Ne	ew Non-Certified Bonus	Inc	rease Certified Bonus
Vacancy #1	\$	4,000	\$	7,500
Vacancy #2	\$	4,000	\$	7,500
Vacancy #3	\$	4,000	\$	7,500
Vacancy #4	\$	4,000	\$	7,500
Vacancy #5	\$	4,000	\$	7,500
subtotal	\$	20,000	\$	37,500
LESS existing bonus cost (\$5k per)	\$	-	\$	25,000
Increased bonus cost	\$	20,000	\$	12,500
Benefit Costs	\$	1,530	\$	2,869
EST. TOTAL	\$	21,530	\$	15,369

- 3) Differential Pay Change:
  - i) Increase shift differential to \$2,200 for patrol deputies (currently \$1,100)

		D	ifferential \$ Increase
Differential Pay		\$ 1,100	
20 Patrol Deputies			
subtotal		\$ 22,000	
Benefit Costs		\$ 4,404	
	EST. TOTAL	\$ 26,404	

MOTION #1:	- Pay Band 10	Approve increasing the Sheriff's Office Deputies starting salary as follows:  - Pay Band 106 for Certified Deputies from \$49,120 to \$52,500  - Pay Band 105 for Non-certified Deputies from \$46,800 to \$49,500 with funding to come from the FY24 Sheriff's Office vacancies.						
MEMBER:	Mrs. Booker	Mrs. Eager	Mr. Fairchild	Mr. O'Brien	Mr. Sheridan			
ACTION:		Second		Motion				
VOTE:	Yes	Yes	Yes	Yes	Yes			
RESULT:			5-0					

	Approve increasing the Sheriff's Office Deputies Sign-on Bonus amounts as							
MOTION	follows:							
	- Certified Deputies from \$5,000 to \$7,500							
#2: - Non-certified Deputies from \$0 to \$4,000								
	with funding to come from the FY24 Sheriff's Office vacancies.							
MEMBER:	Mrs. Booker	Mrs. Eager	Mr. Fairchild	Mr. O'Brien	Mr. Sheridan			
ACTION:		Second		Motion				
VOTE:	Yes	Yes	Yes	Yes	Yes			
RESULT:			5-0					

MOTION #3:	• •	Approve increasing Sheriff's Office Deputies differential pay from \$1,100 to \$2,200 per fiscal year with funding to come from the FY24 Sheriff's Office vacancies.				
MEMBER:	Mrs. Booker	Mrs. Eager	Mr. Fairchild	Mr. O'Brien	Mr. Sheridan	
ACTION:		Second		Motion		
VOTE:	Yes	Yes	Yes	Yes	Yes	
RESULT:			5-0			

#### JP Morgan Debt Service CIP Budget Transfers – Eric Dahl, County Administrator

The County closed on debt financing with JPMorgan Chase Bank back on February 3, 2022 in the amount of \$5,231,500 for multiple Countywide FY22 CIP vehicle/equipment projects. Per the financing documents, the spend-down period of proceeds needs to be completed by August 3, 2023, otherwise any remaining funds go back to JPMorgan Chase Bank. As part of the financing, \$3,333,500 was allocated for Fire and Rescue Apparatus. When the County closed on the debt proceeds, a prepayment on 3 pieces of apparatus was funded. At the time, the County was expecting to take delivery prior to the spend-down period and pay for the remaining outstanding balances, but Fire and Rescue apparatus build delays will not have the apparatus to the County prior to August 3, 2023 deadline. The chart below shows outstanding proceeds for these projects.

Apparatus	Budget	Paid	Difference	
Response 5	\$ 100,000.0	00 \$ -	\$ 100,000.00	
Car 1	\$ 74,500.0	00 \$ -	\$ 74,500.00	
Tower Ladder 53	\$ 1,670,000.0	0 \$ 1,375,071.00	\$ 294,929.00	
Tanker 10	\$ 495,000.0	00 \$ 398,410.00	\$ 96,590.00	
Attack 20	\$ 239,000.0	00 \$ 239,000.00	\$ -	
Engine 20	\$ 755,000.0	00 \$ 616,906.00	\$ 138,094.00	
TOTAL	\$ 3,333,500.0	0 \$ 2,629,387.00	\$ 704,113.00	

In addition, there are a couple other Public Works/Department of Social Services vehicle purchases that have been ordered and we are supposed to receive by August 3, 2023, but there is a possibility for other delays. If we do not receive delivery of any vehicles/equipment prior to August 3, 2023, the County would have to fund these projects with Unassigned Fund Balance. Currently, the rate of return on County invested funds is around 5.15%, so it makes sense to utilize the debt proceeds to the fullest, especially considering our interest rate is 1.37%.

Lastly, the County has earned to date about a little over \$82,000 on interest earned on the unspent proceeds, which can be used toward vehicle/equipment purchases.

With the next Board of Supervisors meeting (August 2, 2023) only being one day before all proceeds need to be requisitioned (August 3, 2023), I would request the Board allow the County Administrator flexibility with a funding source transfer of already approved FY22, FY23 and FY24 CIP projects to best utilize the full amount of the JPMorgan Chase Bank proceeds, with an not to exceed amount of \$900,000. Any change in funding sources would be brought back to the Board no later than the August 16, 2023 meeting for ratification by the Board.

Some initial thoughts on intended fund transfer uses that would be considered are:

- \$301,008 8 Vehicles Dodge Chargers for the Sheriff's Office (contract on this agenda)
- \$331,070 1 Lake Monticello Ambulance being delivered June 30.
- \$108,990 PG Athletic Field Lighting portion utilizing Unassigned Fund Balance

MOTION:	approve the County Administrator with the flexibility for a funding source transfer of already approved FY22, FY23 and FY24 CIP projects to best utilize the full amount of the JPMorgan Chase Bank proceeds issued February 3, 2022, with a not to exceed amount of \$900,000, and further require staff to bring any change in funding sources back to the Board for ratification no later than the August 16, 2023 Board of Supervisors meeting.					
MEMBER:	Mrs. Booker	Mrs. Eager	Mr. Fairchild	Mr. O'Brien	Mr. Sheridan	
ACTION:			Motion		Second	
VOTE:	Yes	Yes	Yes	Yes	Yes	
RESULT:			5-0			

Ambulance Purchase Agreement No. 2 with Atlantic Emergency Solutions, Inc. – Eric Dahl, County Administrator Fluvanna County's ambulances have very high mileage and are in need of replacement. There are two build slots scheduled with Fluvanna and Atlantic Emergency Solutions, Inc. (AES); Lake Monticello Rescue is scheduled first, and the County Ambulance is scheduled to be built second. Lake Monticello Rescue offered to switch build slots so the County could get a new ambulance sooner, but the scheduled ambulance is priced \$100, 000 over what was budgeted for the County's ambulance and the first build slot remained with Lake Monticello. During communications with AES, an earlier and comparable build slot for another county fell through, and by approving this purchase agreement, Fluvanna County is able to secure the earlier build slot, providing an ambulance sooner than originally expected.

MOTION:	Approve that cooperative purchase agreement entitled Ambulance Purchase Agreement No. 2 between Atlantic Emergency Solutions, Inc. and the County of Fluvanna for the purchase of Fluvanna County Wheeled Coach #622400 for \$337,076.00; and further authorize the County Administrator to execute the Agreement after attachment, review and approval by him of Exhibits 5 and 6 and subject to approval as to form by the County Attorney.					
MEMBER:	Mrs. Booker	Mrs. Eager	Mr. Fairchild	Mr. O'Brien	Mr. Sheridan	
ACTION:				Second	Motion	
VOTE:	Yes	Yes	Yes	Yes	Yes	
RESULT:			5-0			

#### 7A – BOARDS AND COMMISSIONS

MOTION:	Move the Board of Supervisors approve the following Board, Commission, or Committee appointment(s)/reappointments(s):								
BOARD/COMMISSION/COMMITTEE APPOINTEES APPT/ REAPPT BEGINS TERM ENDS TERM							ENDS TERM		
JAUNT Board – Fluvanna County Representative			Iscella Wittich		Appt	7/5/2023	6/30/2025		
	Economic Development and Tourism Advisory Council (EDTAC) – At-Large		Suzy Morris		Appt	7/5/2023	6/30/2025		
MEMBER:	Mrs. Booker	Mı	rs. Eager	Mr. Fairch	ild N	/lr. O'Brien	Mr. Sheridan		
ACTION:		S	Second				Motion		
VOTE:	Yes Yes Yes					Yes	Yes		
RESULT:		5-0							

#### **8 – PRESENTATIONS**

Dogs Running At Large Ordinance – Eric Dahl, County Administrator

There has been much discussion from residents and representatives of the Sheriff's Office over the years for a Dogs Running at Large ordinance, while trying to find a balance for all residents in the community. Currently, Fluvanna County only has a dogs running at large ordinance applicable to the Lake Monticello subdivision, which at minimum needs to be updated to reflect the correct magisterial districts representing Lake Monticello.

After some discussion, Staff was directed to bring a draft Dogs Running At Large Ordinance back to the Board.

#### **CLOSED MEETING**

MOTION:	meeting, pursua Code of Virginia emergency serv business update	ant to the provis , 1950, as amen ices departmen e; and Legal Mat ant under the w	County Board of Sions of Section 2. ded, for the purpot salaries; Prospecters – emergency rater and sewer o	2-3711 A.1, A.5, ose of discussing ctive Industry – p procurement fo	& A.8 of the gresonnel – prospective r vehicles,
MEMBER:	Mrs. Booker	Mrs. Eager	Mr. Fairchild	Mr. O'Brien	Mr. Sheridan
ACTION:				Motion	Second
VOTE:	Yes	Yes	Yes	Yes	Yes
RESULT:			5-0		

MOTION:	At 7:24pm, mov	At 7:24pm, move the Fluvanna County Board of Supervisors recess the closed							
MOTION.	meeting.	meeting.							
MEMBER:	Mrs. Booker	Mrs. Eager	Mr. Fairchild	Mr. O'Brien	Mr. Sheridan				
ACTION:				Motion	Second				
VOTE:	Yes	Yes	Yes	Yes	Yes				
RESULT:			5-0						

2023 General Assembly Update – Dan Whitten, County Attorney

Mr. Whitten discussed legislation changes from the 2023 General Assembly that affects Fluvanna County.

#### 9 - CONSENT AGENDA

The following items were approved under the Consent Agenda for July 5, 2023:

- Minutes of June 21, 2023 Caitlin Solis, Clerk to the Board
- Purchase Agreement with Basic Auto Sales for 2022 Chevrolet Silverado 1500 Tori Melton, Finance Director
- Magic City Vehicle Purchase Agreement Tori Melton, Director of Finance
- FY23 ARPA Grant State Library Tori Melton, Finance Director
- Cooperative Agreement under City of Charlottesville Virginia Contract No. 4600001760 for Police Uniforms with Howard Uniform Company, LLC Eric Dahl, County Administrator
- County Attorney Paralegal/Legal Assistant Job Description Donna Snow, Director of Human Resources
- Emergency Medical Services (EMS) Policies Eric Dahl, County Administrator

MOTION:	Approve the co	Approve the consent agenda, for the July 5, 2023 Board of Supervisors meeting.				
MEMBER:	Mrs. Booker	Mrs. Booker Mrs. Eager Mr. Fairchild Mr. O'Brien Mr. Sheridan				
ACTION:				Motion	Second	
VOTE:	Yes	Yes	Yes	Yes	Yes	
RESULT:			5-0			

#### **10 - UNFINISHED BUSINESS**

Personnel Policy 2-8-3 Pay and Allowances Temporary Amendment and FY24 Pay Rates and Classifications Revision – Eric Dahl, County Administrator

In an effort to recruit Emergency Medical Technicians, the Board authorized a pay band increases and authorized the County Administrator to increase to the percentage above the minimum pay grade.

RESULT:			5-0					
VOTE:	Yes	Yes	Yes	Yes	Yes			
ACTION:				Second	Motion			
MEMBER:	Mrs. Booker	Mrs. Eager	Mr. Fairchild	Mr. O'Brien	Mr. Sheridan			
	•		prize the County Administrator to pla minimum of the grade for a tempora pay band for an EMT BLS position be for an EMT ALS position be raised from Mr. Fairchild Mr. O'Brien Second Yes Yes					
		period. I also move, that the pay band for an EMT BLS position be raised from a						
MOTION:	employee at 20	% above the min	imum of the grad	de for a tempora	rv 90 dav			
	the Personnel Policy to authorize the County Administrator to place a new							
	I move the Boar	d of Supervisors	approve an ame	ndment to section	on 2.8.3(A) of			

#### **11 - NEW BUSINESS**

None.

#### 12 - PUBLIC COMMENTS #2

At 7:58pm, Chair Booker opened the first round of Public Comments. With no one wishing to speak, Chair Booker closed the first round of Public Comments at 7:58pm.

#### 13 - CLOSED MEETING

MOTION:	meeting, pursua Code of Virginia emergency serv business update	ant to the provisi , 1950, as amend ices department e; and Legal Matt ant under the wa	ons of Section 2. ded, for the purp salaries; Prospec ers – emergency	Supervisors enter 2-3711 A.1, A.5, ose of discussing ctive Industry – procurement for rdinance, and ter	& A.8 of the Personnel – Prospective r vehicles,
MEMBER:	Mrs. Booker	Mrs. Eager	Mr. Fairchild	Mr. O'Brien	Mr. Sheridan
ACTION:		Second		Motion	
VOTE:	Yes	Yes	Yes	Yes	Yes
RESULT:			5-0		

MOTION:	At 8:36pm, mov	e the Fluvanna (	County Board of S	Supervisors reces	s the closed
WOTION.	meeting.				
MEMBER:	Mrs. Booker	Mrs. Eager	Mr. Fairchild	Mr. O'Brien	Mr. Sheridan
ACTION:				Motion	Second
VOTE:	Yes	Yes	Yes	Yes	Yes
RESULT:			5-0		

#### **14 - ADJOURN**

MOTION:	Adjourn the regular meeting of Wednesday, July 5, 2023 at 8:37pm.				
MEMBER:	Mrs. Booker Mrs. Eager Mr. Fairchild Mr. O'Brien Mr. Sheridar				
ACTION:				Second	Motion
VOTE:	Yes	Yes	Yes	Yes	Yes
RESULT:			5-0		

ATTEST:	FLUVANNA COUNTY BOARD OF SUPERVISORS
Caitlin Solis Clerk to the Board	Mozell H. Booker Chair



#### **BOARD OF SUPERVISORS**

County of Fluvanna Palmyra, Virginia

#### **RESOLUTION No. 20-2023**

## A RESOLUTION RECOMMENDING APPOINTMENT TO THE BOARD OF EQUALIZATION

**WHEREAS,** Virginia Code Section 58.1-3370 requires the appointment of a Board of Equalization in each tax year immediately following the year a general reassessment is conducted in the County; and

WHEREAS, a member of the Board of Equalization, Ronald Lauziere, submitting his resignation after moving out of the County; and

WHEREAS, it is the desire of the Board of Supervisors of Fluvanna County to request that the Fluvanna County Circuit Court appoint a replacement Board of Equalization member and to suggest to the court the member to be appointed; and

**WHEREAS**, the Board of Supervisors desires to provide necessary clerical assistance for such Board of Equalization in accordance with Virginia Code Section 58-1-3376; and

WHEREAS, a general reassessment of the County has recently been completed; and

WHEREAS, the Fluvanna County Board of Supervisors requests the Board of Equalization to meet as frequently as necessary to hear all appeals from landowners concerning their reassessment; and

WHEREAS, the Fluvanna County Board of Supervisors encourages the Board of Equalization to meet with the assessors and review and evaluate their method of assessing the value of land in this reassessment; and

NOW, THEREFORE BE IT RESOLVED by the Board of Supervisors of Fluvanna County, as follows:

1) That the County Attorney be, and he is hereby, DIRECTED to request the appointment by the Fluvanna County Circuit Court of a replacement member for the Board of Equalization as required by law; and that, in so doing, the County Attorney shall submit to the Circuit Court a suggested replacement member for the Board of Equalization, such list being attached to this resolution as Exhibit A; and

THE FOREGOING RESOLUTION WAS DULY AND REGULARLY ADOPTED by the Fluvanna County Board of Supervisors at a meeting of the Board held on the 5th day of July 2023:

	AYE	NAY	ABSTAIN	ABSENT	MOTION	SECOND
Mozell H. Booker, Fork Union District	X					
Patricia B. Eager, Palmyra District	X				X	
Christopher Fairchild, Cunningham District	X					X
Anthony P. O'Brien, Rivanna District	X					
John M. Sheridan, Columbia District	X					

Attest:
Mozell H. Booker, Chair
Fluvanna County Board of Supervisors

## FLUVANNA COUNTY BOARD OF SUPERVISORS AGENDA ITEM STAFF REPORT

TAB L

MEETING DATE:	August 2, 2023					
AGENDA TITLE:	Blue Ridge Area Food Bank Partner Impact & Innovation Grant					
MOTION(s):	Impact and I	nnovation (	Grant, in	accept the Blue Ric the amount of \$6,6 as outlined in the	626.28, to be use	ed by the
BOS 2 YEAR GOALS?	Yes	No X		If yes, which goa	l(s):	
AGENDA CATEGORY:	Public Heari	ng Action	Matter	Presentation	Consent Agenda <b>X</b>	Other
STAFF CONTACT(S):	Kelly Harris,	Kelly Harris, Assistant County Administrator				
PRESENTER(S):	Kelly Harris,	Assistant Co	unty Adn	ninistrator		
RECOMMENDATION:	Approve	Approve				
TIMING:	Normal					
DISCUSSION:	The requested funds/items will improve the size and growth of the Fluvanna Senior Garden, Carysbrook Garden, and Community Garden. The gardens are used by Cooperative Extension as educational resources for the community and all fruits and vegetables grow in these gardens are donated to Fluvanna County Senior Centers and MACAA Food Pantry. The funds/items will help to maintain and expand the gardens and add/improve irrigation, allowing for a larger quantity of produce to be donated.  The grant funding is provided as either reimbursement or direct pay by the Blue Ridge Area Food Bank for approved items listed on the award letter and Equipment					
FISCAL IMPACT:	Agreement. No funds are paid directly to the County of Fluvanna. \$6,626.28 in reimbursement funding					
POLICY IMPACT:	None					
LEGISLATIVE HISTORY:	None					
ENCLOSURES:	BRAFB Partner Impact and Innovation Grant					
REVIEWS COMPLETED:	Legal		ance X	Purchasing	HR	Other <b>X</b>

**REQUEST FOR PROPOSALS** 

## Partner Impact and Innovation Grant 2023

Deadline: February 28, 2023 Email \* bredman@vt.edu Agency/Program Name: \* Fluvanna Parks And Rec Community Gardens **Agency/Program Number:** Agency/Program Phone Number: \* 434-842-3150 Mailing Address: \* PO Box 518 Fork Union VA 23055

Partner Impact and Innovation Grant 2023 BOS2023-08-02 p.173/212

Fluvanna
Food Bank branch that you work with/closest to your location: *
Charlottesville
Lynchburg
○ Verona
Winchester
Delivery Address (If different than mailing address): 5725 James Madison Highway Fork Union VA
Name of Person Completing Application: *
Faith Staurt
Phone Number: *
434-842-3150
Email Address: *
fstuart@fluvannacounty.org

BOS2023-08-02 p.174/212

Phone Number (if different than th	e person completing the ap	oplication):
34-591-1950		
Email Address (if different than the	e person completing the ap	plication):
oredman@vt.edu		
Does your pantry:		
	Yes	No
distribute TEFAP (USDA)?		
distribute CFSP?		0
do Partner Pick Up?		
Average number of unique individ	uals served across all food	services each month:
Average number of unique individ	uals served across all food	services (

BOS2023-08-02 p.175/212

<b>Average nu</b> 362 total	mber of pounds per household per distribution:
362 total	
Please des	cribe your organization's funding in 2022:
About	that we avecated
About w	hat we expected
Less tha	nn we expected
More th	an we expected
We do n	ot fundraise
Reques	t Information
	portunity is intended to help build your organization's capacity and capability to better serve and work toward three core goals:
-	an ment de man a amé de de de geaner
Eliminata d	
	isparities in access to nutritious food. alth
. Improve he	•
. Improve he . Support ho	alth usehold financial stability
. Improve he . Support ho	alth
. Improve he . Support ho	alth usehold financial stability s below will help us understand how your requests will help your organization improve or
. Improve he . Support ho he questions xpand your s	alth usehold financial stability s below will help us understand how your requests will help your organization improve or ervices and impact, while working toward these three goals.
. Improve he . Support ho he questions xpand your s	alth usehold financial stability s below will help us understand how your requests will help your organization improve or
. Improve he . Support ho he questions xpand your s	alth usehold financial stability s below will help us understand how your requests will help your organization improve or ervices and impact, while working toward these three goals.
. Improve he . Support hos the questions expand your s  Please sele	alth usehold financial stability  below will help us understand how your requests will help your organization improve or ervices and impact, while working toward these three goals.  ct which goal(s) your request supports: *  e disparities in access to nutritious food
. Improve he . Support how he questions xpand your s  Please sele  Eliminat Improve	alth usehold financial stability  below will help us understand how your requests will help your organization improve or ervices and impact, while working toward these three goals.  ct which goal(s) your request supports: *  e disparities in access to nutritious food

Please <u>select</u> & <u>prioritize</u> the category(ies) and item(s) included in your request. Please only request items that your organization needs. Please rank the priority of your requested categories/items with <u>1 being the MOST important priority</u> to your mission and <u>5 being the LEAST important priority</u>.

- 1 Equipment: Racking/shelves/tables/exterior sheds
- 2 Equipment: Other (please provide details in the following sections of the application)
- 3 Guest Services: Community gardens
- 4 Guest Services: Space upgrades

/6/23, 12:36 PM Partner Impact and Innovation G			t and Innovation Grant			
Transitioning to a 501(c)(3)				BOS2023-0	8-02 p.177/212	
Capability Development: Other (please provide details in the following sections of the application)						
Capability Development: Other (please provide details in the following sections of the application)						
If you are requesting so walk-in coolers & freezomeasured the space at Appendix A. In additionany storage, shipping, when delivered.  Yes, our agency has prequipment in Appendix A.  Yes, if the equipment that we are responsible.	zers), please nd it meets t n, please che or other rela  properly measu lix A. fails to fit in the	check the first he specification eck the second ated fees if the ured the space act he designated spa	t option indications & measure doption stating equipment do	ting that you he ments provide g that you agrees NOT fit the pecifications listed ed, our agency and the time of the control of the time of time o	nave ed in ee to pay for space ed for the	
Not applicable - we a	re NOT reques	ting any cold stor	age equipment.			

BOS2023-08-02 p.178/212

Please provide a detailed description of the reason why your agency/program needs the \*selected project categories and how these items will help you build your organization's capacity and capability to provide services to your guests and neighbors. Are the items new additions to your operations or replacing current equipment?

The items we have requested will improve the size and growth of our Fluvanna Senior Garden, Carybrook Garden, and Community Garden. The gardens are used as educational resources for our community and all fruits and vegetables grown are donated to our Senior Centers and MACCA Food Pantry. These items will help the growth in our beds, tools to expend and up keep the beds along with water irrigation. With these positive practices we can improve the fruit and vegetable growth and donate a larger quantity of produce to the Seniors and MACCA Food Pantry.

Narrowing in, please summarize how your request will help your organization overcome \* current challenges and allow you to better serve your guests.

We can grow our garden to produce more fresh food to support the needs of the community

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How will the requested items help you to improve your services? (Choose all that apply.) *
Sustain our capacity to serve our current guests.
Expand or grow our capacity to serve more guests.
Eliminate disparities in access to nutritious food
Improve health of our guests
Support household financial stability
Expand or grow our capacity to serve more nutritious food by offering guest choice.
Sustain our capacity to store & distribute fresh produce and/or perishable foods to our guests.
Expand or grow our capacity to store & distribute fresh produce and/or perishable foods to guests.
Support Link2Feed, Meal Connect or other technology initiatives.
Increase our capacity to improve the efficiency of our operations.
Enhance our ability to support volunteers in carrying out program operations.
Other:
Tell us anything else we should consider when reviewing your request (Optional).
This will also be beneficial in educating the community on how to grow and produce your own fresh vegetables.

#### **Project Budget**

In this section, you will upload a detailed budget of your request - download the budget template, complete, and upload directly to the Google form.

NOTE: Remember to budget for shipping costs, electrical upgrades, and installation, as applicable.

You need a Gmail address to upload files - most agencies/programs created Gmail accounts for the 2022 grant cycle.

TIP: If you have challenges uploading your budget spreadsheet, you can email it to AThornton@brafb.org. Please use the following subject line: PII 2023 Project Budget [INSERT

BOS2023-08-02 p.180/212

#### AGENCY/PROGRAM NAME].

#### Files:

#### 1) Project Budget:

https://docs.google.com/spreadsheets/d/1HQ0PktGRTu5f1bxq83KoqtmHiZZn6-dH/edit?usp=sharing&ouid=109721211909612371305&rtpof=true&sd=true

#### 2) Appendix A:

https://docs.google.com/document/d/1hiULxJRL1qNYMVfQsFkMJn2qkevQqzqYqeDCJjnk0ls/edit?usp=sharing

#### Tips for completing budget spreadsheet:

- We cannot allow Editor rights to everyone because then the original template is changed.
- Click on the budget spreadsheet file link. When it opens, select File / Download / MS Excel
- Complete the file on your computer, save it on your personal computer with the following file name: PII 2023 Budget INSERT AGENCY/PROGRAM NAME
- Once it is complete, click the Add File button and upload the completed file you have saved on your computer.

Please upload a completed budget form (before you upload the file make sure the file name is "PII 2023 Budget [Insert Agency/Program Name]").

#### Use the following **Project Budget** template:

https://docs.google.com/spreadsheets/d/1HQ0PktGRTu5f1bxq83KoqtmHiZZn6-dH/edit?usp=sharing&ouid=109721211909612371305&rtpof=true&sd=true

#### PII Appendix A (Standard Equipment):

https://docs.google.com/document/d/1hiULxJRL1qNYMVfQsFkMJn2qkevQqzqYqeDCJjnk0ls/edit ?usp=sharing



PII 2023 Budget ...

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If the Food Bank is only able to partially fund your project, will your organization be able \* to self-fund the balance to complete the project?

- Yes, we will are able to self-fund the balance of the project if BRAFB is only able to provide partial funding
- No, we are not able to raise additional funding.

If the Food Bank is only able to provide partial funding of your grant, our organization is \* confident that we can raise: (ENTER a dollar amount). For example, if your total grant amount listed above is \$20,000, but the Food Bank is only able to fund part of your request, how much of the \$20,000 are you able to self-fund to complete the project?

None

### **Evaluating Impact**

As part of the grant process, the Food Bank will ask you to submit a utilization and impact on Partner Impact and Innovation Funds in 2024. The information will be used in a report that will go to donors and will be helpful as we fundraise for this grant in the future. The Food Bank has information about the number of guests served and the number of pounds distributed to your organization. At the time the report is due, we ask that your organization be prepared to describe how the grant has impacted your guests and/or operations. Photographs, stories, and/or quotes from guests and/or volunteers are extremely valuable additions where possible.

Agonos / Dyogyom Nomo	Fluvanna Parks And Rec		]						
Agency/Program Name:		Agency #: Is Item Standard					Total price		Total Cost
Item Category		Equipment from Appendix A (Y/N)	Reason Needed		Unit Price		(Unit price x quantity)	Shipping & Fees	(Total Price + Shipping/fees
Equipment: Racking/shelves/tables/exterior sheds	Tool Storage	No	Improve operational efficiencies	https://www.tractorsupply.com/tsc/product/suncast-resin-storage-shed-bms5700sb	\$399.99	2	\$799.98		\$799.98
Equipment: Other (please provide details	Tool Storage	INO	improve operational efficiencies	https://www.lowes.com/pd/Trex-Select-	3333.33	2	\$799.98		\$755.56
in the following sections of the application)	garden supplies	No	Improve operational efficiencies	16-ft-Saddle-Composite-Deck- Board/1000712002	\$116.27	10	\$1,162.70		\$1,162.70
Equipment: Other (please provide details				https://www.tractorsupply.com/tsc/product/dynamic-10-ft-x-25-ft-6mil-clear-					
in the following sections of the application)	garden supplies	No	Improve operational efficiencies	plastic-sheeting-389875?cm vc=-10005	\$39.99	4	\$159.96		\$159.96
Equipment: Other (please provide details				https://www.tractorsupply.com/tsc/product/compare-n-save-concentrate-grass-					
in the following sections of the application)	garden supplies	No	Improve operational efficiencies	and-weed-killer-41-glyphosate?cm_vc=- 10005	\$19.99	2	\$39.98		\$39.98
Equipment: Other (please provide details				https://www.lowes.com/pd/Sta-Green- Basic-Landscape-Fabric-Common-3-ft-x-					
in the following sections of the application)	garden supplies	No	Improve operational efficiencies	50-ft-Actual-3-02-ft-x-50-17- ft/1000002562	\$14.98	4	\$59.92		\$59.92
Equipment: Other (please provide details in the following sections of the				https://www.lowes.com/pd/Agfabric- Plant-Cover-Frost-Blanket-Protection-0-					
application)	garden supplies	No	Improve operational efficiencies	550z-10-x-50/5005437139	\$32.99	8	\$263.92		\$263.92
Equipment: Other (please provide details in the following sections of the				https://www.tractorsupply.com/tsc/product/feedlot-panel-cattle-16-ft-l-x-50-in-					
application) Equipment: Other (please provide details	Garden Supplies	No	Improve operational efficiencies	h?cm vc=-10005	\$35.99	10	\$359.90		\$359.90
in the following sections of the	garden supplies	No	Improve operational efficiencies	https://www.lowes.com/pd/Melnor-4- Output-Port-Digital-Hose-End- Timer/1003125344	\$56.98	8	\$455.84		\$455.84
Equipment: Other (please provide details				https://www.tractorsupply.com/tsc/product/wells-lamont-ultimate-gripper-work-					
in the following sections of the application)	garden supplies	No	Improve operational efficiencies	gloves-with-pu-coating-8-pr- 559lku?cm vc=-10005	\$7.99	10	\$79.90		\$79.90
Equipment: Other (please provide details	- 11			https://www.acehardware.com/departm			·		
in the following sections of the application)	garden supplies	No	Improve operational efficiencies	ents/tools/workwear-and-safety- gear/work-gloves/7503766	\$7.99	5	\$39.95		\$39.95
				https://thegardenersworkshop.com/pro					
				duct/pre-arched-76-inch-plant-support- wire-hoops/?attribute_pa_quantity=25-					
				hoops- 2&utm_source=Google%20Merchant%2					
				OCenter&utm_campaign=Feb%2022%20- %20Feed&utm_medium=Feed&utm_ter					
				m=56133&gclid=CjwKCAiAxvGfBhB- EiwAMPakqpFoBYwogFVTOCg091pGj1a					
Equipment: Other (please provide details in the following sections of the				NGAz66FSk4MTARE5Wawe8vU4vs5MD9 xoC6BUQAvD_BwE					
application) Equipment: Other (please provide details	garden supplies	No	Improve operational efficiencies		\$49.95	1	\$49.95		\$49.95
in the following sections of the				https://www.acehardware.com/departm ents/home-and-decor/cleaning-and-					
application)  Equipment: Other (please provide details	garden supplies	No	Improve operational efficiencies	disinfectants/buckets/10975 https://www.acehardware.com/departm	\$3.99	12	\$47.88		\$47.88
in the following sections of the	and an armalian	NI-	language and attitude of the single of the s	ents/lawn-and-garden/watering-and- irrigation/garden-hoses/73487		,	¢450.00		¢150.00
application) Equipment: Other (please provide details	garden supplies	No	Improve operational efficiencies	https://www.acehardware.com/departm	\$79.99	2	\$159.98		\$159.98
in the following sections of the				ents/lawn-and-garden/gardening- tools/wheelbarrows-carts-and-hand-	440000		4400.00		4422.00
application) Equipment: Other (please provide details	garden supplies	No	Improve operational efficiencies	https://www.acehardware.com/departm	\$129.99	1	\$129.99		\$129.99
in the following sections of the application)		No	Improve operational efficiencies	ents/lawn-and-garden/gardening- tools/gardening-hand-tools/76913	\$3.99	10	\$39.90		\$39.90
Equipment: Other (please provide details		140	improve operational emelencies	https://www.acehardware.com/departm	75.55	10	\$33.30		<b>733.30</b>
in the following sections of the application)		No	Improve operational efficiencies	ents/lawn-and-garden/gardening- tools/gardening-hand-tools/76911	\$4.59	10	\$45.90		\$45.90
Equipment: Other (please provide details				https://www.lowes.com/pd/Gilmour- Metal-Quick-Connector-Set-with-					
in the following sections of the application)	garden supplies	No	Improve operational efficiencies	Overmold/3103555	\$6.98	2	\$13.96		\$13.96
Equipment: Other (please provide details in the following sections of the				https://www.lowes.com/pd/Good-Ideas-					
application)	garden supplies	No	Improve operational efficiencies	Rain-Vault-Oak/5001956489	\$159.99	3	\$479.97		\$479.97
Equipment: Other (please provide details in the following sections of the				https://www.acehardware.com/departments/lawn-and-garden/watering-and-					
application) Equipment: Other (please provide details	garden supplies	No	Improve operational efficiencies	irrigation/hose-reels/7195639	\$199.99	1	\$199.99		\$199.99
in the following sections of the				https://www.acehardware.com/departm ents/lawn-and-					
application)  Equipment: Other (please provide details	Garden Soil/Fertilizer	No	Improve operational efficiencies	garden/gardening/manure/7002882	\$6.99	130	\$908.70		\$908.70
in the following sections of the	Gardon Blants	No	Improve apprational officiaration	Local Vender/Plants	64.00		\$200.40		6200.40
application)  Equipment: Other (please provide details	Garden Plants	No	Improve operational efficiencies		\$4.99	60	\$299.40		\$299.40
in the following sections of the	Call.	Na		https://www.acehardware.com/departm ents/lawn-and-garden/gardening/flower-			4		4
application)  Equipment: Other (please provide details	Soil	No	Improve operational efficiencies	and-plant-fertilizer/74092	\$4.59	130	\$596.70		\$596.70
in the following sections of the				https://www.tractorsupply.com/tsc/product/plastic-development-group-48-in-					
application) Equipment: Other (please provide details	garden supplies/work area	No	Improve operational efficiencies	square-picnic-table-with-4-bench-785	\$199.99	1	\$199.99		\$199.99
in the following sections of the	Gardon Supplies	No	Improve energianal efficiencia	https://www.tractorsupply.com/tsc/prod		_	624.00		624.02
application)  Total Request	Garden Supplies	No	Improve operational efficiencies	uct/zep-commercial-pro-sprayer	\$3.99	8	\$31.92		\$31.92 <b>\$6,626.28</b>

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Did your agency/program receive a Partner Impact and Innovations Grant (previously called Agency Capacity Fund Grant) in any of the following years?
2017
2018
2019
2020
2021
2022
We have not received a grant to date
Did your agency receive a Partner Impact and Innovation Grant in 2022? *   Yes  No
Report on Utilization and Impact of the 2022 Partner Impact and Innovation Grants that you received
Each year the Food Bank's donors contribute support to our Partner Impact and Innovation Grant to ensure partners like you have the equipment and tools necessary to best serve your guests. We ask for your cooperation in completing this form- a utilization and impact of the PII Grants- so we can inform donors on how their investments create impact and continue to raise funding for this very important initiative.
Agency/Program Name:  Fluvanna County Parks & Recreation / Senior Community Garden



### 2023 PARTNER IMPACT AND INNOVATION GRANTS - EQUIPMENT AGREEMENT

Partner Name:	
We are delighted to support your organization's efforts to distribute more perishable and nutritious food in your community!	

The following are the terms and conditions of accepting this gift from the Blue Ridge Area Food Bank (BRAFB). For the sake of this agreement, the term "agency" applies to both partner agencies and programs.

- An agency representative will sign this agreement, keeping a copy for agency records and returning a hard copy to BRAFB by **June 30, 2023**. By signing this document, the agency agrees to comply with the terms of the agreement and report requirements as outlined.
  - a. Please submit your agreement to Karen Hicks, Manager of Compliance
  - b. U.S. Mail: P.O Box 937, Verona VA 24482-0937, or
  - c. Fax: 540-466-5481, or
  - d. E-mail attachment: khicks@brafb.org
- 2. If the award is for electrical equipment such as a cooler or freezer:
  - The agency agrees that all necessary electrical wiring is in place and ready for hook-up before the equipment is delivered (we will work with you to specify date of equipment delivery once ordered).
  - The agency will pay for any installation expenses (electrical upgrades, labor, etc.) associated with the equipment.
  - The agency will accept delivery of the equipment by date specified and will have staff and/or volunteers available for moving and installing the equipment at the time of delivery.
- 3. By accepting the equipment, the agency becomes the owner, and is responsible for all maintenance and/or repair expenses needed to operate the equipment.
- 4. The agency agrees to utilize the software programs implemented by BRAFB for Partner Pick-Up reporting and client intake and data management with Link2Feed.
- 5. The food bank is not responsible for maintaining the functionality of any gifted equipment provided and is not obligated to provide additional resources when gifted items reach the end of their useful life.
- 6. For reimbursable expenses, the agency must submit all original receipts of approved expenditures to BRAFB using the check request Google Form. For any reimbursable items, the agency assumes responsibility for ordering and coordinating shipping and/or

delivery. If the agency does not have the funds to pay for items upfront, the agency can work with BRAFB to pay the vendor directly.

- 7. The agency will work with BRAFB to increase distribution of perishable food in the community.
- The agency will provide a year-end impact report to share progress on efforts to increase overall distribution of perishable foods, improving program operations, supporting volunteers, and/or better meeting the needs of clients (Form to be provided in <u>February</u> <u>2024</u>.)
- The agency will cooperate with BRAFB in publicity efforts related to the equipment (e.g., press releases, guest stories, pictures and/or video footage from the agency, etc.).
   BRAFB agrees to provide language for use in the agency's publications and press releases.
- 10. The agency agrees to recognize BRAFB's support in any agency publications and publicity efforts related to the equipment, including co-branding vehicles, if applicable.

When signing below I fully understand and agree to comply with the above conditions and requirements of accepting this grant from BRAFB.

Executive Director/President/Program Leader Signature	ature	Date
Executive Director/President /Program Leader Prin	ted Name and Title	E-Mail
Primary Contact Name and Title (responsible for pre	ogress report)	
Primary Contact Phone Number	E-Mail	



May 31, 2023

Faith Stuart
Fluvanna Parks And Rec Community Gardens
Agency #: 4552-3
P.O. Box 518
Fork Union, VA 23055

#### Dear Faith:

Congratulations! I'm writing to announce that Fluvanna Parks And Rec Community Gardens has been awarded a 2023 Partner Impact and Innovation grant.

Thanks to the generosity and support of Food Bank donors, we are glad to invest in your ongoing success and your ability to better serve your guests. **We have approved your request(s) for:** 

#### Shenandoah Valley Area Branch and Headquarters

PO Box 937 96 Laurel Hill Road Verona, VA 24482-0937

P 540-248-3663

#### Thomas Jefferson Area Branch

1207 Harris Street Charlottesville, VA 22903-5319

P 434-296-3663

#### Lynchburg Area Branch

501 12th Street, Suite B Lynchburg, VA 24504-2527

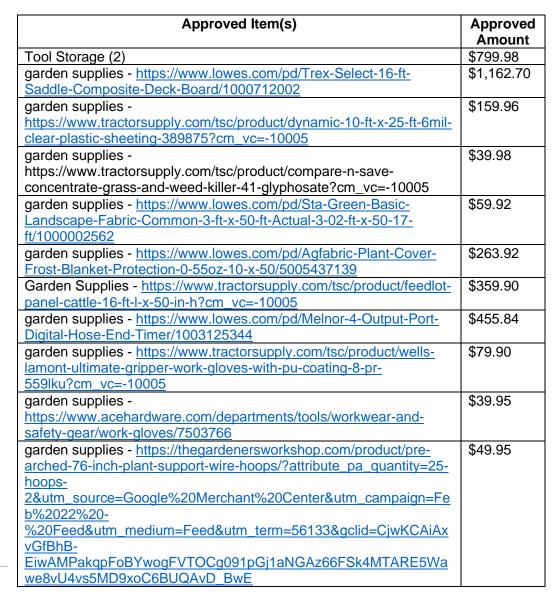
P 434-845-4099

#### Lord Fairfax Area Branch

1802 Roberts Street Winchester, VA 22601-6312

P 540-665-0770

WWW.BRAFB.ORG











#### Shenandoah Valley Area Branch and Headquarters

PO Box 937 96 Laurel Hill Road Verona, VA 24482-0937

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P 434-845-4099

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1802 Roberts Street Winchester, VA 22601-6312

P 540-665-0770

#### WWW.BRAFB.ORG



	1 .
garden supplies - <a href="https://www.acehardware.com/departments/home-">https://www.acehardware.com/departments/home-</a>	\$47.88
and-decor/cleaning-and-disinfectants/buckets/10975	
garden supplies - https://www.acehardware.com/departments/lawn-	\$159.98
and-garden/watering-and-irrigation/garden-hoses/73487	
garden supplies - https://www.acehardware.com/departments/lawn-	\$129.99
and-garden/gardening-tools/wheelbarrows-carts-and-hand-	
trucks/7331721	
https://www.acehardware.com/departments/lawn-and-	\$39.90
garden/gardening-tools/gardening-hand-tools/76913	
https://www.acehardware.com/departments/lawn-and-	\$45.90
garden/gardening-tools/gardening-hand-tools/76911	
garden supplies - https://www.lowes.com/pd/Gilmour-Metal-Quick-	\$13.96
Connector-Set-with-Overmold/3103555	
garden supplies - https://www.lowes.com/pd/Good-Ideas-Rain-Vault-	\$479.97
Oak/5001956489	
garden supplies - https://www.acehardware.com/departments/lawn-	\$199.99
and-garden/watering-and-irrigation/hose-reels/7195639	
Garden Soil/Fertilizer	\$908.70
Garden Plants	\$299.40
Soil	\$596.70
garden supplies/work area -	\$199.99
https://www.tractorsupply.com/tsc/product/plastic-development-	
group-48-in-square-picnic-table-with-4-bench-785	
Garden Supplies - https://www.tractorsupply.com/tsc/product/zep-	\$31.92
commercial-pro-sprayer	

#### Total Grant Award: \$6,626.28

#### **Next Steps**

If you were awarded one of the standard 1-,2-, or 3-door coolers or freezers, a floor scale, tablet(s), computer(s), internet access, and/or a pallet jack listed in Appendix A of the application, the Food Bank will order those and arrange delivery to your site.

<u>For all other awards</u> (i.e., bags, carts, shelving, tents, non-standard cold storage (i.e., walk-ins) and freezers, community gardens, training support, etc.), <u>your organization is responsible for ordering</u> and will need to submit your proof of payment (receipts and a cancelled check, or a zero-balance invoice, if paid by credit card) via a Google Form to the Food Bank for reimbursement. In the case that your organization does not have the funds to pay upfront, please contact me to work together to arrange for the Food Bank to pay the vendor directly. All grant funds must be spent down before **June 30, 2024.** 

#### **Equipment Agreement (if applicable)**

Enclosed is an equipment agreement that must be signed and returned to the Food Bank before your grant can be processed. Please return this agreement to Karen Hicks, Manager of Compliance, by e-mailing a signed copy to <a href="mailto:khicks@brafb.org">khicks@brafb.org</a>, faxing to 540-466-5481 or mailing to P.O. Box 937, Verona, VA 24482-0937 by **June 30, 2023**.

#### **Additional Grant Requirements**

In addition to the equipment agreement, your organization is required to fill out and return the enclosed W9 form by **June 30**, **2023**.



We look forward to continuing to work with your organization to support your capacity, and help you accomplish your goals and vision to better serve your guests.

In partnership and solidarity,

Megan Johnston Senior & Child Nutrition Programs Manager

#### Shenandoah Valley Area Branch and Headquarters

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#### Lord Fairfax Area Branch

1802 Roberts Street Winchester, VA 22601-6312

P 540-665-0770

#### WWW.BRAFB.ORG



# FLUVANNA COUNTY BOARD OF SUPERVISORS MEETING PACKAGE ATTACHMENTS

Incl?	Item
$\boxtimes$	BOS Contingency Balance Report
$\boxtimes$	Building Inspections Report
$\boxtimes$	Capital Reserve Balances Memo
$\boxtimes$	Fluvanna County Bank Balance and Investment Report
$\boxtimes$	Unassigned Fund Balance Report
	VDOT Monthly Report & Resurfacing List
	ARPA Fund Balance Memo
$\boxtimes$	The Board of Supervisors Two Year Plan

June 21, 2023 Date:

Theresa McAllister – Management Analyst Board of Supervisors From:

To:

FY23 BOS Contingency Balance **Subject:** 

The FY23 BOS Contingency line balance is as follows:

Beginning Original Budget:	\$162,000
Less: Career Development Circuit Court Clear & Commissioner of Revenue	-15,393
Less: Comprehensive Safety Action Plan Grant – Safe Streets - TJPDC	-30,000
Less: Comprehensive Economic Development Strategy (CEDS) - TJPDC	-2,097.04
Less: 2022 Board of Supervisors Planning Retreat	-5,000
Less: Social Services Salary Range Revision	-17,503
Available:	\$92,006.96

August 02, 2023 Date:

Theresa McAllister – Management Analyst Board of Supervisors From:

To:

FY24 BOS Contingency Balance **Subject:** 

The FY24 BOS Contingency line balance is as follows:

Beginning Original Budget:	\$146,615
Consulting Services Agreement with B.W. Murray, Inc. – Registrar – BOS Approval 07/05/2023	-\$20,000
Available:	\$126,615.00

#### **BUILDING INSPECTIONS MONTHLY REPORT**

County of Fluvanna

Building Official:	Period:
Andrew Wills	June, 2023

Category	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
	BUILDING PERMITS ISSUED													
NEW - Single	2019	8	10	14	9	12	9	10	14	14	2	11	7	120
Family	2020	12	13	23	14	8	19	19	17	16	20	22	11	194
Detached (incl. Trades	2021	15	9	19	20	16	22	15	11	8	22	13	8	178
permits &	2022	17	11	20	11	18	32	10	9	11	12	9	4	164
SWMH)	2023	5	6	6	12	12	6							47
	2019	0	0	0	0	0	0	0	0	0	0	0	0	0
NEW - Single	2020	0	0	0	0	1	6	0	0	6	0	0	0	13
NEW - Single Family Attached (Town Homes)	2021	6	0	0	0	0	0	0	0	6	0	0	0	6
	2022	0	0	0	0	0	0	0	0	0	0	0	0	0
, , , , , , ,	2023	0	8	0	0	0	0	0	0	0	0	0	0	8
	2010	0		0	0					0			0	•
	2019	0	0	0	0	0	0	0	0	0	0	0	0	0
Multi Family (Apartment,	2020	0	0	0	0	0	0	0	0	0	0	0	0	0
Duplex)	2021	0	0	0	0	0	0	0	5	0	0	0	0	5
	2023	1	0	0	0	0	0	0	0	0	0	0	0	1
			I.		I.	I.	I	I.	I	I.	I.	I.	I.	
	2019	35	33	37	27	38	38	44	34	34	36	35	31	422
Additions and	2020	37	38	23	30	30	22	27	20	30	34	35	23	349
Alterations	2021	28	14	43	39	31	40	30	29	26	30	35	33	378
	2022	33 52	48 34	60	45	47	50	51 0	63	45	63 0	51 0	44 0	600
	2023		ts count not in	. 51	34	36	28	U	0	0	U	U	U	235
	2019	2	4	6	4	4	3	3	8	2	8	4	4	52
Accessory Buildings	2020	2	4	4	4	5	5	1	7	8	3	5	1	49
	2021	1	3	3	6	3	6	1	3	2	4	4	2	38
	2022	3	4	13	6	5	2	5	4	5	3	0	2	52
	2023	7	2	7	5	6	2	0	0	0	0	0	0	29
	2019	0	0	0	3	2	2	0	1	0	1	0	1	10
	2020	0	1	3	3	1	2	3	1	1	0	0	0	15
Swimming Pools	2021	0	0	7	1	5	2	3	4	1	0	1	2	26
	2022	0	2	4	4	1	0	3	3	0	0	0	0	17
	2023	1	0	6	1	2	4	0	0	0	0	0	0	14
	2019	0	0	1	1	0	2	0	0	0	0	0	0	4
Commercial/	2020	0	0	1	0	1	0	0	3	0	0	2	0	7
Industrial	2021	1	0	1	0	0	0	1	0	0	0	2	0	5
Build/Cell Towers	2022	0	0	0	0	0	2	3	2	0	2	1	0	10
	2023	1	1	0	1	0	0	0	0	0	0	0	0	3
	2019	45	47	58	44	56	54	57	57	50	48	50	43	609
7071	2019	51	56	54	51	46	54	50	48	63	57	54	40	624
TOTAL BUILDING	2021	51	26	73	66	55	70	50	47	37	56	55	45	631
PERMITS	2022	54	65	97	66	71	86	72	77	61	80	61	50	840
	2023	67	51	64	52	51	40	0	0	0	0	0	0	325
		* Trade permi	ts count not in	cluded as in pr		BI III DING :	ALLIEC FOR	DEDNAITC 100	LIED					
	2019	\$1,001,054	\$2 502 740	¢5 620 220	1	1	ALUES FOR I	1		¢2 457 244	\$2.626.404	\$3,148,369	\$2.060.570	\$ 40,602,356
	2019	\$1,991,054 \$2,292,161	\$2,502,719 \$3,206,055	\$5,639,238 \$7,238,708	\$4,695,173 \$2,997,448	\$3,057,597 \$2,245,441	\$3,228,152 \$4,389,903	\$3,360,952 \$3,644,002	\$3,926,015 \$5,555,492	\$3,457,214 \$5,271,906	\$2,636,194 \$4,201,357	\$3,148,369	\$2,960,579 \$2,954,193	\$ 40,603,256 \$ 47,506,500
TOTAL BUILDING	2020	\$5,397,000	\$1,687,484	\$2,506,869	\$4,952,702	\$3,473,256	\$5,766,891	\$2,885,146	\$2,506,053	\$2,046,134	\$3,637,390	\$4,633,868	\$2,712,396	\$ 41,734,789
VALUES	2021	\$5,073,054	\$3,017,155	\$5,012,175	\$2,937,240	\$5,654,955		\$11,374,772		\$2,743,309	\$4,363,026	\$6,842,941	\$1,046,000	\$ 75,410,524
	2022	\$3,929,572	\$4,916,308	\$3,029,674	\$3,087,131	\$6,370,476	\$3,088,398	\$11,374,772	\$17,974,008	\$2,743,309	\$4,303,020	\$0,842,941	\$1,040,000	\$ 24,421,559
			1		<u> </u>	1	1	I	1	l .	I	I	I .	

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Category	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL	
LAND DISTURBING PERMITS ISSUED															
	2019	8	12	16	9	14	10	12	14	13	2	11	8	129	
LAND DISTURBING PERMITS	2020	11	10	26	13	8	24	13	19	20	19	13	16	192	
	2021	22	10	18	20	18	22	16	11	4	23	13	8	185	
	2022	16	13	19	11	18	34	11	10	8	13	8	3	164	
	2023	5	14	9	15	10	7	0	0	0	0	0	0	60	
						15105									
							ECTIONS COI								
	2019	237	207	232	297	305	246	324	332	295	298	204	216	3,193	
TOTAL	2020	213	197	302	369	371	304	434	368	439	464	407	412	4,280	
INSPECTIONS	2021	430	349	465	431	402	426	333	355	419	453	422	356	4,841	
	2022	304	414	551	449	439	486	594	589	523	400	300	351	5,400	
	2023	350	298	321	308	288	285	0	0	0	0	0	0	1,850	
							FEES COLLEC	TED							
	2019	\$11,377	\$13,617	\$14,005	\$14,308	\$11,228	\$16,260	\$13,778	\$18,772	\$14,375	\$8,468	\$14,747	\$11,059	\$ 161,994	
Building Permits	2020	\$12,863	\$15,468	\$18,152	\$16,803	\$13,147	\$28,068	\$23,193	\$28,887	\$24,237	\$19,359	\$15,359	\$15,871	\$ 231,407	
	2021	\$18,733	\$15,400	\$15,654	\$21,333	\$16,184	\$23,031	\$27,000	\$11,923	\$9,144	\$20,620	\$15,563	\$9,211	\$ 203,796	
	2022	\$21,100	\$19,347	\$23,488	\$15,404	\$19,739	\$23,621	\$18,713	\$54,782	\$11,348	\$34,994	\$17,567	\$6,021	\$ 266,124	
	2023	\$11,925	\$20,870	\$11,256	\$15,385	\$21,848	\$9,751	\$0	\$0	\$0	\$0	\$0	\$0	\$ 91,035	
		1													
	2019	\$1,000	\$1,500	\$1,625	\$1,125	\$3,553	\$1,250	\$2,975	\$6,556	\$1,920	\$250	\$1,375	\$1,125	\$ 24,251	
Land	2020	\$1,375	\$1,250	\$6,365	\$1,625	\$1,000	\$3,000	\$2,125	\$8,369	\$2,500	\$2,375	\$4,294	\$1,875	\$ 36,153	
Disturbing Permits	2021	\$5,678	\$1,250	\$14,463	\$2,500	\$2,250	\$2,750	\$13,581	\$2,824	\$500	\$4,848	\$1,625	\$1,000	\$ 53,268	
	2022	\$2,000	\$2,050	\$9,963	\$1,375	\$2,250	\$10,014	\$1,375	\$2,175	\$27,725	\$3,649	\$2,175	\$375	\$ 65,126	
	2023	\$625	\$1,875	\$1,125	\$2,300	\$1,625	\$5,000	\$0	\$0	\$0	\$0	\$0	\$0	\$ 12,550	
	2019	\$1,200	\$1,800	\$2,200	\$1,550	\$2,050	\$1,350	\$1,950	\$2,300	\$1,700	\$1,150	\$1,450	\$1,400	\$ 20,100	
Zoning Fees collected by	2020	\$1,650	\$1,600	\$3,000	\$1,700	\$15,550	\$3,050	\$2,350	\$2,300	\$2,900	\$2,850	\$1,600	\$1,700	\$ 26,250	
Planning Dept	2021	\$2,150	\$1,150	\$3,650	\$2,950	\$2,650	\$3,400	\$2,450	\$1,850	\$1,300	\$2,900	\$1,900	\$1,150	\$ 27,500	
starting March 2023	2022	\$1,900	\$1,400	\$3,900	\$1,650	\$2,300	\$3,900	\$1,800	\$1,500	\$1,500	\$2,000	\$1,450	\$750	\$ 24,050	
	2023	\$1,350	\$1,950	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$ 3,300	
					. 1										
	2019	\$13,577	\$16,917	\$17,830	\$16,983	\$16,831	\$18,860	\$18,703	\$27,628	\$17,995	\$9,868	\$15,028	\$132,584	\$ 203,804	
TOTAL	2020	\$15,888	\$18,318	\$27,517	\$20,128	\$15,697	\$34,118	\$27,668	\$39,556	\$29,637	\$24,584	\$24,584	\$19,446	\$ 293,810	
FEES	2021	\$25,000	\$22,797	\$37,351	\$18,429	\$24,289	\$37,535	\$21,888	\$58,457	\$40,573	\$40,643	\$24,584	\$7,146	\$ 290,061	
	2022	\$25,001	\$22,797	\$37,351	\$18,429	\$24,289	\$37,535	\$21,888	\$58,547	\$40,073	\$40,643	\$21,192	\$7,146	\$ 355,300	

\$13,900

\$24,695

\$17,685

\$12,381

\$23,473

\$14,751

**Date:** June 21, 2023

From: Theresa McAllister – Management Analyst

To: Board of Supervisors

**Subject:** FY23 Capital Reserve Balances

The FY23 Capital Reserve account balances are as follows:

### **County Capital Reserve:**

FY22 Carryover	\$512,518
FY23 Budget Allocation:	\$250,000
Less: Fluvanna County District Court Microphone System Replacement	-5,963
Less: Ground Water Well Monitoring at Convenience Center	-27,050
Less: Public Safety Building 5 ton heat pump	-6,408
Less: Generator at Carysbrook Fuel Pumps	-30,000
Less: 4 ton heat pump at Fluvanna County Community Center	-8,522.36
Less: HVAC leaking evaporator coil at the Fluvanna County Library	-6,301.01
Less: FUSD Network Installation	-12,415.70
Less: Commonwealth's Attorney Office Mold Remediation	-9,800
Less: Kents Store Firehouse Remediation	-63,000
Less: Replacement of Hot Water Heating Boiler at PW's Maintenance Shop Carysbrook	-36,292
Less: Purchase and install dump body on 2001 Fprd F-550 Brush Truck that was transferred from FUFD to PW's	-17,300
Add: Closed CRM Projects 04/04/2023	1,521.97
FY23 Available:	540,987.90

# **Schools Capital Reserve:**

FY22 Carryover	\$387,600
FY23 Budget Allocation:	\$200,000
Less: FCHS Tennis Court Repair	-63,100
Less: Emergency Radios for FCPS School and Departments	-23,910
Add: Closed CRM Project – 08/27/2022	4,884
Less: Central Elementary purchase of 3 HVAC chiller fans	-10,560
Less: Central Elementary HVAC Chiller replacing failed parts	-11,090
Less: FCHS main chiller	-6,740
Less: Fluvanna Middles School HVAC Chiller	-9,178
Add: Insurance recovery from VACORP for vandalism at FMS	38,498.27
Less: Repair and updating equipment at FMS due to vandalism	-38,498.27
Less: Central Fire Control System	-4,460
Less: FCHS Hot Water Heater	-4,435
Less: FCHS Track Surface	-16,850
Less: FMS Fire Control Main Board	-4,990
Less: FMS Fire Control System	-5,275
Less: FCPS Sewer line repairs and installing clean out	-15,500
Less: FCHS auditorium air handler and installing a new one	-7,800
Less: FCHS Centrifungal Pump	-8,524
Less: FCHS Chiller #1	-36,380
Less: Carysbrook Elementary Water Leak Repair	-21,500
Less: Central Elementary Sewer Back Up	-3,200
Less: 12 Year Replacement Cycle for (82) Fire Extinguishers at FCHS	-5,945

Less: UVA Cooperative Procurement – Tennis Court Cracks	-1,100
Less: Rekortan – FCHS Track Repair	-26,630
Add: Closed CRM Projects 4/4/2023	341.98
Add: Closed CRM Projects 5/1/2023	34.00
Less: Replacing flanged silent globe check valves on the booster pump, discharge piping at water plant, and adjust pressure down on well to stop blow out	-4350
Add: Closed CRM Projects 5/18/2023	30.44
Less: Repair, installation of parts, and labor on the Air Handling Unit (AHU) at FMS	-9,880
Less: Installing new sewer main 6 inch pipe from building to existing sewer main	-32,500
FY23 Available:	258,993.42

**Date:** August 02, 2023

From: Theresa McAllister – Management Analyst

To: Board of Supervisors

**Subject:** FY24 Capital Reserve Balances

The FY24 Capital Reserve account balances are as follows:

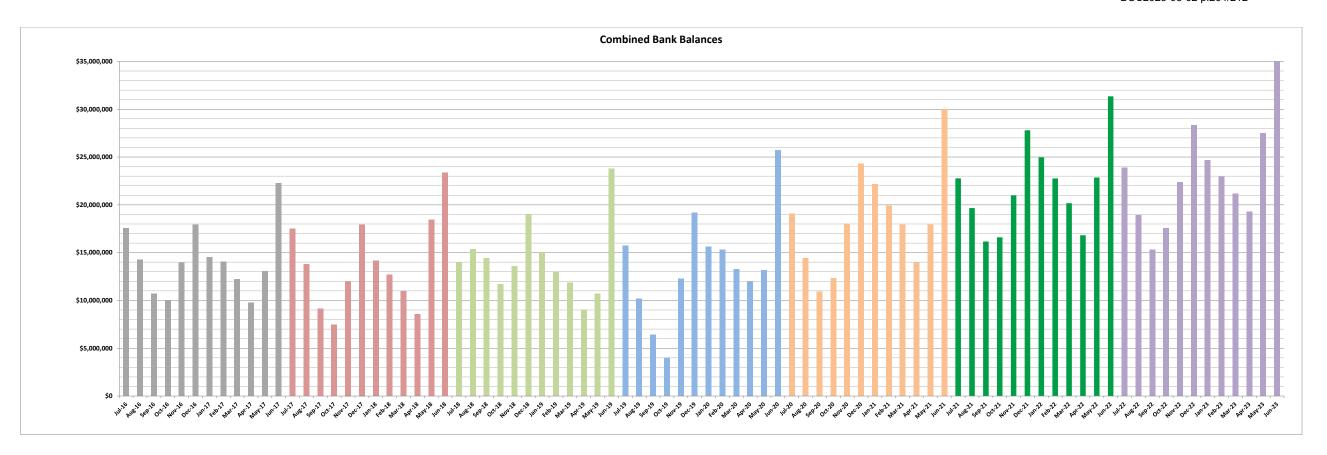
### **County Capital Reserve:**

FY23 Carryover	\$540,987.90
FY24 Budget Allocation:	\$250,000
FY24 Available:	\$790,987.90

### **Schools Capital Reserve:**

FY23 Carryover	\$258,993.42
FY24 Budget Allocation:	\$200,000
FY24 Available:	\$458,993.42

Workstorn   Work				Fluvanna Cour	nty Monthly Ban	k and Investme	nt Account	Balances and Ear	nings Repo	rt						
Description	Month	Commercial Checking -	Analysis Interest			Securities Brokerage	-	Pool (VIP) Stable NAV	Stable NAV	Pool (VIP) 1-3 Year High	1-3 Year		Investment Pool (VIP)	CARES Fund	Investment Pool (VIP)	ARPA Fund
Total																
1.000														_		
No. 10														_		
		\$2,408,014	-											-		
March   Marc														-		
March   Marc			-											-		
March   Marc														-		
April														=		
War																
March   Marc	May-17													_		
March   Marc																
Section   Sect			-						\$ -					-		
Column   C			_											-		
Mon-12   77.70.00														-		
Dec.   110,000														-		
March   Marc	Jan-18								\$ 0.26			\$14,159,339				
Model		\$8,302,311		\$183,287		-		\$50,138	\$ 2.40	\$4,146,305		\$12,682,040				
March   1140/241													1	_		
April														-		
March   Marc													1			
August   Statistic   Statist				1 -7				1-77				1 -77	1			
													1			
Control																
Dec.	Oct-18	\$4,668,338								\$ -	\$ -	\$11,687,355				
Best														_		
Page 13   \$3,779,077														-		
March   92711678														-		
May 13														-		
May 29   \$4,506,250   \$1,500,000   \$1,500,														-		
March   Marc	May-19	\$6,356,355		\$109,062						\$ -	\$ -					
Aug   9   33.44248   \$ 2,000   \$ 505   555.13   \$ 5105.18   \$ 1.00   \$ 1.275.50   \$ 5   \$ . \$ . \$ . \$ . \$ . \$ . \$ . \$ . \$ . \$	Jun-19	\$19,357,070		\$89,816		\$1,998,125	\$ 7,380.74	\$2,314,010	\$ 4,539.25	\$ -	\$ -	\$23,759,021				
Sep-20    \$2,004,000    \$   \$50   \$95,1773   \$3,005,388   \$   \$1,909   \$1,225,000   \$   \$4,005   \$   \$   \$   \$3,046,000   \$   \$   \$   \$   \$   \$   \$   \$   \$	Jul-19									\$ -	\$ -					
Oct   9														-		
No.			\$ 505											-		
Dec   3   \$11,421,778   \$   \$   \$11,265   \$   \$1,146,772   \$   \$   \$   \$   \$   \$   \$   \$   \$			\$ .											-		
19-00   19-0			š -											-		
May-20   \$4.581,186   \$ - \$55,074.01   \$ - \$11,145.05   \$ - \$11,145.05   \$ - \$11,145.05   \$ - \$11,145.05   \$ - \$11,145.05   \$ - \$11,145.05   \$ - \$11,145.05   \$ - \$11,145.05   \$ - \$11,145.05   \$ - \$11,145.05   \$ - \$11,145.05   \$ - \$1,145			\$ 1,570													
May-20			\$ 1,194								\$ -					
May 20   \$3,725,677   \$   \$   \$5,5772   \$   \$5,356   \$   \$   \$   \$   \$   \$   \$   \$   \$			\$ -											_		
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hp-20			÷ -								· .		\$2.792.204	¢ 107		
Aug   20   \$3,378,127   \$   \$   \$55,598   \$   \$1,305,474   \$   \$1,305,474   \$   \$1,325,127   \$   \$   \$   \$   \$   \$   \$   \$   \$			š -				, .		, .		š -				\$ -	s -
Sep 20			\$ -													\$ -
Nov-20			\$ -				\$ 342		\$ 1,427	\$ -	\$ -				\$ -	\$ -
Dec-20   \$3,889,191   \$   \$99,885   \$200   \$1,304,466   \$   \$708   \$11,898,1664   \$   \$20,58   \$   \$   \$24,283,406   \$3,162,1588   \$   \$   \$   \$   \$   \$   \$   \$   \$			\$ -													1
Fab-21			\$ -													1
Feb-21			\$ -													1
May-21   \$3,946,267   \$ - \$106,719   \$100   \$1,300,469   \$ 6   \$7,79   \$13,544,930   \$ 1,419   \$ - \$1,000,000   \$ - \$13,949,455   \$430,079   \$ 6   \$ - \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$			\$ -													1
Apr-21   \$1,948,883   \$ - \$52,8130   \$19,991   \$1,303,317   \$ 2,849   \$7,645,934   \$ 1,006   \$3,000,000   \$ - \$13,942,255   \$5431,056   \$ 36 \$ . \$			\$ -													1
1.00   1.00		\$1,945,883	\$ -	\$28,130			\$ 2,849					\$13,943,255		\$ 36	\$ -	\$ -
Mug 21   S5.15.886   S			\$ -													\$ -
Aug-21   \$2,970,373   \$ - \$70,754   \$124,240   \$122,98,055   \$4,129   \$12,993.09   \$ 830   \$3,001,489   \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$			\$ -													
Sep-21   \$2,928,487   \$   \$27,657   \$159,485   \$1,299,371   \$1,316   \$5,479,899   \$5,989   \$2,998,108   \$1,381   \$16,165,007   \$3,767   \$   \$1   \$5   \$2,649,004   \$5   \$1.055,007   \$1.0			\$ -													
Oct-21   S.5.144.123   S   S. 6.845   S.73.703   S.1.296.831   S. 1.256.831   S			š -													
Nov-21   S1,648,793   S   S8,922   S116,159   S1,291,602   S   (5,228)   S14,925,945   S   574   S2,988,580   S   117   \$20,980,002   \$3,768   S   0   S   2,649,325   S   149,020   S			\$ -													\$ 157
Dec-21   \$3,434,071   \$   \$   \$   \$9,343   \$51,378   \$1,290,205   \$1,1389   \$20,027,434   \$   \$1,488   \$2,981,758   \$   \$6,821   \$27,794,188   \$3,768   \$   0   \$   \$2,649,730   \$   \$   \$2,649,730   \$   \$   \$2,649,730   \$   \$   \$2,649,730   \$   \$   \$   \$   \$   \$   \$   \$   \$	Nov-21		\$ -	\$8,922									\$3,768			
Feb-22   S4,375,437   \$ -   S9,343   S121,240   S127,1947   \$   (14,037)   S14,039,860   \$   1,679   \$   32,950,429   \$   (11,508)   \$   \$   \$   \$   \$   \$   \$   \$   \$		\$3,434,071	\$ -	\$9,343	\$51,378	\$1,290,205	\$ (1,398)	\$20,027,434		\$2,981,758	\$ (6,821)	\$27,794,188	\$3,768	-	\$ 2,649,530	\$ 205
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Agr-22   \$2,279,420   \$ - \$70,818   \$176,195   \$1,242,775   \$10,157,081   \$9,697,182   \$3,697,58   \$2,589,721   \$1 \$1,582,531   \$3,771   \$2 \$2,561,349   \$3,771   \$3 \$2,513,349   \$3,773   \$2 \$3,773   \$3 \$2 \$3,773   \$3 \$3,			\$ -													\$ 286
May-22   \$4,058,157   \$ - \$11,074   \$45,549   \$1,124,573   \$ (20,42)   \$14,033.99   \$7,230.99,261   \$2,081,378   \$3,773   \$ \$ \$ \$ \$ \$ \$ \$2,653,138   \$3,773   \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$2,653,138   \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$			4											-		\$ 553 \$ 873
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			\$ -													\$ 1,633
Aug.   2			\$ -													, , , , , ,
Aug.   2			\$ -	\$31,908	\$32,650							\$23,887,919	\$3,782	\$ 5	\$ 5,313,280	\$ 7,396
Oct-22 \$5.03.270 \$ 406.50 \$32.146 \$116.592 \$1.121.985 \$ (3.66.92) \$8.30.0377 \$ 21.882.42 \$2.284.9388 \$ (4.267.20) \$17.542.390 \$3.807 \$ 5 10 \$ 5.348.949 \$ 5 1, 5 10 \$ 5 1, 5 1		\$4,032,958			\$26,679	\$1,241,527	\$ 2,157.19	\$10,708,241	\$ 26,503.02	\$2,886,810	\$ (19,503.26)	\$18,917,410	\$3,789	\$ 7	\$ 5,323,185	\$ 9,904
Nov-22 \$4,217.877 \$ 8 227.14 \$8,915 \$21,384 \$1,1219.829 \$ (15.6.49) \$14,025.450 \$ 3,0072.39 \$2,285.520 \$ 15,682.21 \$22,359,074 \$3,819 \$ 12 \$ 5,365,363 \$ 15,512.865 \$20,072.39 \$2,285.520 \$ 15,682.21 \$22,359,074 \$3,819 \$ 12 \$ 5,365,363 \$ 15,615.21 \$10,072																
Dec-22 \$3,028,831 \$ 1,223.39 \$27,473 \$53,361 \$1,228,882 \$ 9,333.24 \$21,099,475 \$ 74,024.97 \$2,872,16 \$ 6,596.40 \$28,310,218 \$53,882 \$ 1 4 \$ 5,384,340 \$ 19,34 \$10,223 \$10,225								\$8,300,377		\$2,849,938	\$ (4,267.20)					
Ani-23   \$4,245,567   \$ 1,037.52   \$39,792   \$76,757   \$1,235,528   \$ 6,666.40   \$516,171,044   \$ 71,569.03   \$2,890,215   \$1,799.09   \$24,658,903   \$3,847   \$ 15   \$ 5,405,123   \$ 20,77   \$ 1,235,528   \$ 6,666.40   \$316,71,044   \$ 71,569.03   \$2,890,215   \$ 1,799.09   \$24,658,903   \$3,847   \$ 15   \$ 5,405,123   \$ 20,77   \$ 1,235,528   \$ 4,235,123   \$ 2,210,295   \$ 1,235,903   \$ 1,239,903   \$ 4,238,32   \$ 1,239,903   \$ 54,787.81   \$ 2,215,554   \$ 45,524.83   \$ 22,114,757   \$ 3,8377   \$ 45   \$ 5,424,739   \$ 62,77   \$ 4,793,20   \$ 62,77   \$ 4,793,20   \$ 6,79																
Feb-23																
Mar-23 \$2,102,955 \$ 1,068.20 \$8,490 \$23,842 \$1,235,983 \$ 4,793.30 \$14,860,933 \$ 54,787.81 \$2,915,554 \$ 45,524.83 \$21,147,757 \$3,877 \$ 45 \$ 5,436,499 \$ 62,77 \$4,792.30 \$4,120,303 \$ 1,853,98 \$16,356 \$48,958 \$12,293,905 \$3,521.61 \$10,913,416 \$12,482.65 \$2,222,246 \$6,692.02 \$19,260,783 \$3,893 \$61 \$5,469,560 \$82,129 \$1,940,723 \$3,674,695 \$1,512,72 \$65,564 \$113,756 \$1,240,332 \$827.19 \$19,467,271 \$3,855.71 \$2,915,137 \$7,108.77\$ \$27,476,755 \$3,902 \$78 \$5,493,555 \$10,922 \$1,940,743 \$3,855,71 \$1,940,743 \$3,855,71 \$1,940,743 \$3,855,71 \$1,940,743 \$1,940,74																
Apr-23         \$4,120,303         \$ 1,853,98         \$16,356         \$48,958         \$1,239,505         \$ 3,521,61         \$10,913,416         \$ 5,2482,66         \$2,292,246         \$ 6,692,02         \$19,260,783         \$3,893         \$ 61         \$ 5,469,500         \$ 82,19           May-23         \$3,674,695         \$ 1,512,72         \$65,564         \$113,756         \$1,240,332         \$ 82,19         \$19,467,271         \$ 5,385,71         \$2,915,137         \$ (7,08,77)         \$27,476,755         \$3,902         \$ 78         \$ 5,469,505         \$ 10,92         \$1,92         \$1,947,271         \$ 5,482,60         \$2,900,871         \$ 27,476,755         \$3,902         \$ 78         \$ 5,469,505         \$ 10,92         \$1,947,271         \$ 3,871,194         \$2,900,871         \$2,900,871         \$ 14,266,74         \$37,219,900         \$3,919         \$ 95         \$ 5,517,311         \$ 2,700,871         \$2,900,871         \$ 14,266,74         \$37,219,900         \$3,919         \$ 95         \$ 5,517,311         \$ 2,700,871         \$2,900,871         \$2,900,871         \$2,900,871         \$2,900,871         \$2,900,871         \$2,900,871         \$2,900,871         \$2,900,871         \$2,900,871         \$2,900,871         \$2,900,871         \$2,900,871         \$2,900,871         \$2,900,871         \$2,900,871         \$2,900,871 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>\$21,147,757</td><td></td><td></td><td></td><td></td></t<>												\$21,147,757				
Jun-23 \$3,251,786 \$ 1,862.62 \$86,089 \$153,229 \$1,241,964 \$ 1,632.49 \$29,585,960 \$ 118,688.69 \$2,900.871 \$ (14,266.74) \$37,219,900 \$3,919 \$ 95 \$ 5,517,311 \$ 23,75			• 0													
								+,								
	Jun-23		\$ 1,862.62 \$ 19,177.24	\$80,089	\$153,229		\$ 1,632.49		\$ 118,688.69 \$ 923,936.77		\$ (14,266.74) \$ 22,406.93	\$37,219,900	\$3,919	ə 95	> 5,517,311	\$ 23,756



June 21, 2023 Date:

Theresa McAllister – Management Analyst Board of Supervisors From:

To:

**Subject:** Unassigned Fund Balance

FY22 Year End Audited Total Unassigned Fund Balance:	\$26,519,445
Unassigned Fund Balance – 12% Target Per Policy:	\$10,215,566
Unassigned Fund Balance – Excess Above Policy Target:	\$16,303,879
Less: Palmyra Village Streetscape Project 10.19.22	-317,831
Less: Pleasant Grove Athletic Field Lighting	-108,990
Current Unassigned Fund Balance – Excess Above Policy Target:	\$15,877,058

**Date:** August 02, 2023

From: Theresa McAllister– Management Analyst

To: Board of SupervisorsSubject: Unassigned Fund Balance

*FY23 Year End (Unaudited) Unassigned Fund Balance:	\$15,877,058
Current (Unaudited) Unassigned Fund Balance:	\$15,877,058

<sup>\*</sup>Audited FY23 Year End Unassigned Fund Balance will be available upon Completion of the FY23 Comprehensive Annual Financial Report

# The Board of Supervisors Two Year Plan – *Draft, August 2022*

#	Complete	2022 Two Year Goals	Year 1	Year 2	Notes
A		SERVICE DELIVERY			
A1		Work with FRA to identify support options for Fire and Rescue volunteers.		х	
A2		Perform comprehensive review of existing partnerships with local area support and non-profit groups providing services to Fluvanna residents; review service gaps and identify needed partnerships.	x	x	Begin in Year 1; complete in Year 2
А3		Initiate comprehensive review of traffic throughout the county with a particular focus on high-traffic areas around the Lake Monticello community.		х	
A4		Community transportation options and alternatives.		х	Shared school buses/drivers providing transportation for county residents; TJPDC Rural Transportation work group; JAUNT
A5		Implement annual county volunteer recognition ceremony.		Х	
A6		Design implementation plan for professional Fire Chief position.		Х	
В		COMMUNICATION			
B1		Develop communication plan to inform residents of County projects, accomplishments, and where tax dollars are spent.		Х	
С		PROJECT MANAGEMENT			
<b>C</b> 1		Continue Columbia area renewal efforts.	Х	Х	

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#	Complete	2022 Two Year Goals	Year 1	Year 2	Notes
C2		Complete a Master Water and Sewer (Plan Phase I) to identify sources for the county's long-term water needs; particularly for each of its community planning areas.	Х		
C3		Continue Palmyra Village Streetscape	X	Х	Phase I: project begins in 2025, street flow, sidewalks, and street parking on Stone Jail Street side of Civil War Park. Phase II: Crosswalks, sidewalks and parking on Main Street.
		C3.1 Review and pursue opportunities and options for a Palmyra Village Streetscape project to improve safety, parking, walkability, and overall appearance.	X		2022 Smart Scale Grant Awarded.
		C3.2 Research options for civic displays (flags, banners, Notable Residents, etc.)		X	
C4		Successfully oversee and manage Fluvanna County aspects of the James River Water Project.	х	Х	
<b>C5</b>		Successfully oversee and manage the design and construction of the Zion Crossroads water and sewer system.	х	Х	
C6		Pursue Fork Union revitalization.		Х	
		C6.1 Research options for civic displays (flags, banners, Notable Residents, etc.)		Х	
С7		Oversee New Administration Building project.	Х	Х	Multi-year project.
		C7.1 Create and Issue Request for Proposal for Design	Х		
		C7.2 Select Design Firm for design of New Admin Building		Х	
D		COMMUNITY DEVELOPMENT & ENRICHMENT			
D1		Draft and a formal County-wide economic development and tourism strategy inclusive of an implementation schedule.	Х	Х	

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#	Complete	2022 Two Year Goals	Year 1	Year 2	Notes
		D1.1 Adopt Economic Development Strategic Plan.	Х		
		D1.2 Implement five-year Economic Development Strategic Plan.		Х	
D2		Seek opportunities to coordinate development activity at Fluvanna's northern border with Louisa County.	х	Х	
D3		Hold an Economic Development Discussion Forum for local businesses with planning, zoning, building inspections, infrastructure components.	Х		
D4		Investigate options for utilizing Dominion proffer - \$500,000 for recreation, green space.	х	х	
D5		Investigate opportunities to support expanded recreation opportunities, arts, and tourism.	х	х	Coordination with State agencies regarding the installation of additional boat ramps along the Rivanna and James Rivers.  Fluvanna After Five @ Pleasant Grove.
D6		Research creating a "teaching farm" at PG Park.		Х	Collaborative effort - FCPS? Cooperative Extension? Farm Bureau?
D7		Implement stronger Code Enforcement on the County's Spot Blight Abatement program	х	х	
D8		Review the Subdivision Ordinance on Cluster subdivisions; large lot subdivisions.		Х	
D9		Review the Zoning Ordinance to look at higher density options between CPA and R4.		х	
E		FINANCIAL STEWARDSHIP AND EFFICIENCY			

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#	Complete	2022 Two Year Goals	Year 1	Year 2	Notes
E1		Reduce the County's reliance on creating and mailing paper checks for payments and implement expanded ACH/EFT transaction options.	х		
E2		Implement credit card payment option for citizen at all County funds collection points through MUNIS Cashiering process.	х	х	
E3		Plan for ways to adequately fund, implement and standardize the Capital Improvement Plan, eliminating deferred CIP projects.		Х	