

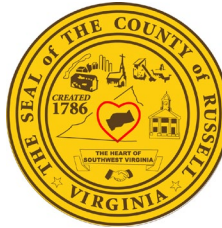
**RUSSELL COUNTY**  
**BOARD OF SUPERVISOR’S MEETING**  
**AGENDA – FEBRUARY 8, 2021**

**BOS Board Room**

**Regular Meeting**

**5:00 PM**

**Russell County Governmental Center**  
**Lebanon, Virginia 24266**



The Russell County Board of Supervisors Meetings will be held pursuant to the Russell County Emergency Ordinance of April 6, 2020 and amended on September 8, 2020 to allow for the Continuity of Government Operations During the Pandemic, including Altering the Process for Conducting Public Meetings; Restricting the Use of Public Buildings or Facilities; Providing Additional Powers to the Director of Emergency Management to Incur Costs, Waive Procedures, and Take Other Temporary Actions; and Suspending Deadlines and Procedures.

**CALL TO ORDER & ROLL CALL – Clerk of the Board**

**EXECUTIVE SESSION (CLOSED) – Legal – Contractual & Personnel Matters**  
**(SCHEDULED ONE HOUR BEFORE REGULAR BOS MEETING -- REGULAR BOS MEETING BEGINS AT 6 P.M.)**

**INVOCATION – Chairperson**

**PLEDGE OF ALLEGIANCE TO THE FLAG OF THE UNITED STATES OF AMERICA**

**APPROVAL OF AGENDA**

**NEW BUSINESS**

- 1. First Amendment Sanctuary Resolution.....B-1
- 2. Approval of Minutes. Consider approval of the minutes of the following meeting of the Russell County Board of Supervisors.....B-2
  - a. Unapproved minutes of January 4, 2021
- 3. Approval of Expenditures. Consider approval of expenditures presented for payment.....B-3

**CITIZEN'S COMMENT PERIOD (Limited to 3 minutes)**

**CONSTITUTIONAL OFFICER REPORTS AND REQUESTS**

**COUNTY ATTORNEY REPORTS AND REQUESTS.....C-1**

- 1. RC Courthouse Interim Agreement
- 2. PSA Rural Development (R&D) Capacity Agreement

**COUNTY ADMINISTRATOR REPORTS AND REQUESTS**

**REPORTS**

- 1. Virginia Telecommunication Initiative (VATI) Grant.....D-1
- 2. VRA Energy Conservation Revenue Bond (VirginiaSAVES Program).....D-2
- 3. VDOT Rte. 678 (Moll Creek) ICAM Permit Application.....D-3
- 4. State and Local Economic Interests and Financial Disclosure Statements....D-4
- 5. Fiscal Year 21/22 Budget Meeting Schedule.....D-5

**REQUESTS**

- 6. Belfast Waterline Extension Project, Phase III Notice.....D-6
- 7. Dante Regional Sewer Line Extension Project Application.....D-7
- 8. RC Sheriff Department Fleet Enterprise Proposal.....D-8
- 9. VDOT Secondary Highway Six-Year Plan & Construction List.....D-9

**MATTERS PRESENTED BY THE BOARD**

**ADJOURNMENT**

**COUNTY AGENCY / BOARD REPORTS:**

- Treasurer's Report.....E
- RC IDA .....F
- RC PSA .....G
- Castlewood W&S .....H
- RC Tourism.....I

- RC Planning Commission .....J
- Conference Center.....K
- RC Fitness Center.....L
- RC Transportation & Safety.....M
- RC Cannery Reports.....N
- RC Building Inspector.....O
- RC Disposal.....P

**CLOSED SESSION**

Motion made by \_\_\_\_\_, second by \_\_\_\_\_ and duly approved by the Board of Supervisors enter into closed session to discuss Legal Matters pursuant to Section 2.2-3711(A)(1)(7)(8) – Legal Discussions concerning Personnel Matters and RC Courthouse Interim Agreement.

The vote was:

Aye: \_\_\_\_\_

Nay: \_\_\_\_\_

**CERTIFICATION OF CLOSED SESSION**

Pursuant to §2.2-3712 (D) of the Code of Virginia 1950, as amended, each member of the Board of Supervisors upon the Roll Call certifies that to the best of their knowledge (i) only public business matters lawfully exempted from the open meeting requirements under the Virginia Freedom of Information Act and (ii) only such public business matters that were identified in the motion(s) by which the closed meeting was convened were heard, discussed or considered in the meeting by the Board of Supervisors.

Any member of the Board of Supervisors who believes that there was a departure from the requirements of clauses (i) and (ii) above shall so state prior to the vote, indicating the substance of the departure that, in his or her judgment, has taken place.

Are there any Supervisors who believe a departure has taken place?

Seeing none, if you agree that the matters heard, discussed or considered during the closed meeting were pursuant only to the motion(s) by which the closed meeting was convened, please signify by saying aye or yes.

Tim Lovelace -

Lou Ann Wallace -

Carl Rhea -

Steve Breeding -

David Eaton -

Rebecca Dye -

Oris Christian -

**APPROVAL TO RETURN TO REGULAR SESSION**

Motion made by \_\_\_\_\_, second by \_\_\_\_\_ and duly approved by the Board of Supervisors to return to regular session.

The vote was:

Aye: \_\_\_\_\_

Nay: \_\_\_\_\_

**FIRST AMENDMENT SANCTUARY RESOLUTION**  
**OF RUSSELL COUNTY BOARD OF SUPERVISORS**

**WHEREAS**, the Constitution of Virginia Article 1, Section 1 states, “That all men are by nature equally free and independent and have certain inherent rights, of which, when they enter into a state of society, they cannot, by any compact, deprive or divest their posterity; namely, the enjoyment of life and liberty, with the means of acquiring and possessing property, and pursuing and obtaining happiness and safety;” and,

**WHEREAS**, the Constitution of Virginia Article 1 section 12 states, “That the freedoms of speech and of the press are among the great bulwarks of liberty, and can never be restrained except by despotic governments; that any citizen may freely speak, write, and publish his sentiments on all subjects, being responsible for the abuse of that right; that the General Assembly shall not pass any law abridging the freedom of speech or of the press, nor the right of the people peaceably to assemble, and to petition the government for the redress of grievances;” and,

**WHEREAS**, Governor Northam, through an unlegislated order, is prohibiting the gathering of more than 10 citizens at a single time; and,

**WHEREAS** the opinion of the Russell County Board of Supervisors is this order violates the Constitution of Virginia Article 1, sections 1 and 12; and,

**WHEREAS**, the Russell County Board of Supervisors disagrees that the Governor’s order complies with the requirements of the Constitution of Virginia, more specifically, Article 1 section 2 which states, “That all power is vested in, and consequently derived from, the people, that magistrates are their trustees and servants, and at all times amenable to them;” and,

**WHEREAS**, the Russell County Board of Supervisors wishes to express its deep commitment to the freedoms enumerated in the Bill of Rights; including the rights of all citizens of Russell County to peaceably assemble and to engage in commerce for the financial support of themselves and their families, and

**WHEREAS**, the Russell County Board of Supervisors wishes to express opposition to any order or law that would unconstitutionally restrict the rights of the citizens of Russell County, and

**WHEREAS**, the Russell County Board of Supervisors wishes to express its intent to stand as a Sanctuary County for the Bill of Rights and the First Amendment; and to oppose, within the limits of the Constitutions of the United States and the Commonwealth of Virginia, any efforts to unconstitutionally restrict such rights, and to use such legal means at its disposal to protect the rights of the citizens of Russell County to freely exercise their religion; to peaceably assemble; to freely engage in commerce; to free movement of persons; and any other individual liberty recognized as belonging to the People.

**NOW, THEREFORE, BE IT RESOLVED** by the Board of Supervisors of Russell County, Virginia:

1. The Russell County Board of Supervisors hereby declares Russell County, Virginia, as a “First Amendment Sanctuary” and expresses its intent to uphold the First Amendment and other clearly established rights of the People of Russell County, Virginia.
2. The Russell County Board of Supervisors hereby expresses its intent that no Russell County funds will be used to violate the First Amendment and other clearly established rights of the People of Russell County.
3. The Russell County Board of Supervisors hereby expresses its intent to pursue all legal avenues to protect the First Amendment and other clearly established rights of the People of Russell County.
4. The Russell County Board of Supervisors supports local law enforcement who support the clearly established rights of the People, and pledge to work in conjunction with the Sherriff to pursue all legal avenues to ensure the First Amendment and other clearly established rights of the People of Russell County are protected and preserved.

**CERTIFICATION OF ADOPTION OF RESOLUTION**

The undersigned Clerk of the Board of Supervisors of the County of Russell, Virginia hereby certifies that the Resolution set forth above was adopted during an open meeting on January 4, 2021, by the Board of Supervisors with the following votes:

Aye:

Nay:

Signed this \_\_\_\_\_ day of \_\_\_\_\_, 2021.

By: \_\_\_\_\_  
Clerk, Board of Supervisors



**Board of Supervisors**  
137 Highland Drive  
Lebanon, VA 24266

Action Item B-1  
Presenter: Chairperson

**Meeting: 2/8/21**

**6:00 PM**

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## Approval of Minutes

Request approval of the minutes from the following meeting:

- **January 4, 2021 Board Minutes**

### **STAFF RECOMMENDATION(s):**

Board discretion

### **SUGGESTED MOTION(s):**

Motion to approve Board Minutes.

### **ATTACHMENTS:**

- Board Minutes

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January 04, 2021

A regular monthly meeting of the Russell County Board of Supervisors was held on Monday, January 04, 2021 at 6:00 pm at the Russell County Conference Center in Lebanon, Virginia.

The Clerk called the meeting to order.

**Roll Call by the Clerk:**

**Present:**

Tim Lovelace

Lou Wallace

Carl Rhea (participated by phone due to COVID-19 quarantine)

David Eaton

Steve Breeding

Rebecca Dye

Oris Christian

Lonzo Lester, Clerk

Vicki Porter, Deputy Clerk

Katie Patton, County Attorney

**Absent:**

None

Invocation by Chair Rebecca Dye, followed by the Pledge of Allegiance to the Flag.

**APPROVAL OF THE AGENDA**

Motion made Steve Breeding, second Lou Wallace and duly approved by the Board of Supervisors to approve the agenda as amended.

The vote was:

Aye: Steve Breeding, Lou Wallace, Carl Rhea, Tim Lovelace, David Eaton, Rebecca Dye and Oris Christian

Nay: None

**PUBLIC HEARING HELD ON THE VDOT SECONDARY SYSTEM (SIX YEAR PLAN)**

Pursuant to being advertised in a local newspaper for (2) two consecutive weeks a public hearing was held on the VDOT Secondary System Construction Program (six-year plan).

The Chair opened the public hearing.

**Jeff Buchanan, VDOT** commented that no new projects were added. This will be a continuation of last year's plan.

Hearing no other comments, the public hearing was closed.



## **PUBLIC HEARING HELD ON THE RUSSELL COUNTY COURTHOUSE CONSTRUCTION PROPOSALS**

Pursuant to being advertised in a local newspaper for (2) two consecutive weeks, a public hearing was held on the Russell County Courthouse Construction Proposals.

The Chair opened the public hearing, hearing no comments the public hearing was closed.

### **Organizational Meeting**

Chairperson Rebecca Dye relinquished the Chair to the Clerk of the Board. The Clerk took nominations for Chairperson for the 2021 calendar year.

#### **REBECCA DYE ELECTED CHAIRPERSON**

David Eaton nominated Steve Breeding

Tim Lovelace nominated Rebecca Dye

The vote was:

Rebecca Dye: (4) four votes - Tim Lovelace, Lou Wallace, Oris Christian and Rebecca Dye

Steve Breeding: (3) three votes – Carl Rhea, David Eaton, and Steve Breeding

Rebecca Dye was elected Chairperson for calendar year 2021.

The Clerk relinquished the Chair back to Rebecca Dye

#### **TIM LOVELACE ELECTED VICE-CHAIRMAN**

David Eaton nominated Steve Breeding

Lou Wallace nominated Tim Lovelace

The vote was:

Tim Lovelace: (4) four votes - Lou Wallace, Oris Christian, Rebecca Dye and Tim Lovelace

Steve Breeding: (3) three votes – David Eaton, Carl Rhea and Steve Breeding

Tim Lovelace was elected Vice-Chairman for the 2021 calendar year.

#### **LONZO LESTER APPOINTED CLERK AND VICKI PORTER APPOINTED DEPUTY CLERK**

Motion made by David Eaton, second Steve Breeding and duly approved by the Board of Supervisors to appoint Lonzo Lester as Clerk of the Board and Vicki Porter as Deputy Clerk for the 2021 calendar year.

The vote was:

Aye: David Eaton, Steve Breeding, Lou Wallace, Carl Rhea, Tim Lovelace, Rebecca Dye and Oris Christian

Nay: None

**ROBERTS RULES OF ORDER ADOPTED BY THE BOARD**

Motion made by Tim Lovelace, second Lou Wallace and duly approved by the Board of Supervisors to adopt Roberts Rules of Order for the 2021 calendar year.

The vote was:

Aye: Tim Lovelace, Lou Wallace, Carl Rhea, Steve Breeding, David Eaton, Rebecca Dye and Oris Christian  
Nay: None

**RUSSELL COUNTY BY-LAWS ADOPTED BY THE BOARD**

Motion made by David Eaton, second Lou Wallace and duly approved by the Board of Supervisors to adopt the Russell County Bylaws as presented.

The vote was:

Aye: David Eaton, Lou Wallace, Tim Lovelace, Steve Breeding, Carl Rhea, Rebecca Dye and Oris Christian  
Nay: None

**APPROVAL OF THE BOS MEETING SCHEDULE FOR CALENDAR YEAR 2021**

Motion made by David Eaton, second Carl Rhea and duly approved by the Board of Supervisors to set the meeting schedule for calendar year 2021 for the first Monday of each month beginning with Executive (closed) Session, if necessary, at 5:00 pm, followed by the regular meeting at 6:00 pm.

The vote was:

Aye: David Eaton, Carl Rhea, Tim Lovelace, Lou Wallace, Steve Breeding, Rebecca Dye and Oris Christian  
Nay: None

**MOTION TO APPROVE THE 1<sup>ST</sup> AMENDMENT SANCTUARY COUNTY RESOLUTION**

Motion made by Steve Breeding, second David Eaton to approve the 1<sup>st</sup> Amendment Sanctuary County resolution as presented.

**SUBSIDIARY MOTION APPROVED TO POSTPONE THE VOTE ON THE 1<sup>ST</sup> AMENDMENT SANCTUARY COUNTY RESOLUTION**

A subsidiary motion was made by Lou Wallace, second Tim Lovelace and duly approved by the Board of Supervisors to postpone the 1<sup>st</sup> Amendment Sanctuary County Resolution vote indefinitely.

The vote was:

Aye: Lou Wallace, Tim Lovelace, Carl Rhea and Rebecca Dye  
Nay: Steve Breeding, David Eaton and Oris Christian

**APPROVAL OF THE DECEMBER 09, 2020 MINUTES**

Motion made by Steve Breeding, second Tim Lovelace and duly approved by the Board of Supervisors to approve the December 09, 2020 minutes and dispense with the reading thereof.

The vote was:

Aye: Steve Breeding, Tim Lovelace, Carl Rhea, David Eaton, Lou Wallace, Rebecca Dye and Oris Christian

Nay: None

#### **APPROVAL OF GENERAL COUNTY INVOICES**

Motion made by David Eaton, second Carl Rhea and duly approved by the Board of Supervisors to approve general county invoices in the amount of \$649,933.63, including reoccurring and withholdings.

The vote was:

Aye: David Eaton, Carl Rhea, Tim Lovelace, Steve Breeding, Rebecca Dye, Lou Wallace and Oris Christian

Nay: None

#### **APPROVAL OF CALENDAR YEAR 2021 PRE-AUTHORIZED PAYMENTS LIST**

Motion made by Tim Lovelace, second Lou Wallace and duly approved by the Board of Supervisors to approve the 2021 calendar year list of pre-authorized payments as presented.

The vote was:

Aye: Tim Lovelace, Lou Wallace Carl Rhea, Steve Breeding, David Eaton, Rebecca Dye and Oris Christian

Nay: None

**The Chairperson appointed Tim Lovelace and Rebecca Dye to the Budget/Finance Committee for calendar year 2021. Steve Breeding and Tim Lovelace were appointed to the insurance committee.**

#### **KELSEY KING APPOINTED SPEARHEAD TRAILBLAZERS BOARD**

Motion made by Lou Wallace, second Tim Lovelace and duly approved by the Board of Supervisors to appoint Kelsey King to the Spearhead Trailblazers Board for a (4) four-year term, said term ending January 04, 2024.

The vote was:

Aye: Tim Lovelace, Rebecca Dye, Lou Wallace, Carl Rhea and Oris Christian

Nay: None

Abstain: David Eaton and Steve Breeding

#### **Citizens' Comment**

**Michelle Vance**, Lebanon stated that she was disappointed with the way the Board voted tonight on Chair and Vice-Chairman. She questioned the Emergency Management Coordinator's job status and why he would be allowed to get overtime. She thinks that the Board does not support small business owners in the county since the 1<sup>st</sup> amendment resolution was not voted on tonight.

**Kelly McBride Delph**, RCPL thanked the BOS for the Imagination Library appropriation. She then commented (as a county resident) about the 1<sup>st</sup> Amendment Sanctuary Resolution's language that could result in more money being spent, she thinks the county cannot afford to take that on.

**Nate Kiser**, Lebanon stated his disappointment with the vote on the 1<sup>st</sup> Amendment Sanctuary Resolution. Small business' in the county are suffering and in his opinion the Board is not supporting them.

**Shawn Vance**, Lebanon stated his disappointment with the way the Board voted on Chair, Vice- Chair, and that the 1<sup>st</sup> amendment sanctuary resolution was not voted on.

**Jess Powers**, Emergency Management Coordinator asked the Board to consider hiring a part time coordinator in his department as opposed to the full-time position that was approved previously. Adding that this would save money on benefits and the person would work as needed. He commented that if his job status changed to a salaried employee, the county may not be eligible to be reimbursed for his time when he has overtime.

**Lynn Hess**, Swords Creek says that he is disappointed in the way the Board voted tonight in the organizational part of the meeting. He also stated that the 1<sup>st</sup> Amendment Sanctuary should have been approved.

**Larry Hughes**, Lebanon commented that he is a small business owner, and he has suffered greatly over the last few months. He disagrees with the Board not voting on the resolution tonight.

The Chairperson closed citizens' comment.

#### **County Attorney Reports and Requests**

**Katie Patton**, County Attorney asked that the Russell County Rural Development Capacity Agreement be approved.

#### **APPROVAL OF THE RUSSELL COUNTY PSA RURAL DEVELOPMENT CAPICITY AGREEMENT**

Motion made by Steve Breeding, second David Eaton and duly approved by the Board of Supervisors to approve the Russell County Public Service Authority Rural Development (R&D) Capacity Agreement subject to County Attorney approval.

The vote was:

Aye: David Eaton, Steve Breeding, Carl Rhea, Lou Wallace, Tim Lovelace, Rebecca Dye and Oris Christian

Nay: None

#### **County Administrator Reports and Requests**

#### **APPROVAL OF THE 2021/2022 BUDGET MEETING SCHEDULE**

Motion made by Tim Lovelace, second Lou Wallace and duly approved by the Board of Supervisors to approve the 2021/2022 budget meeting schedule as presented.

The vote was:

Aye: Tim Lovelace, Lou Wallace Carl Rhea, Steve Breeding, David Eaton, Rebecca Dye and Oris Christian

Nay: None

**APPROVAL TO PURCHASE A DISPOSAL TRUCK FOR THE SOLID WASTE DEPARTMENT**

Motion made by Tim Lovelace, second Carl Rhea and duly approved by the Board of Supervisors to approve the purchase of a disposal truck replacement for the Solid Waste Department.

The vote was:

Aye: Tim Lovelace, Carl Rhea, Lou Wallace, David Eaton, Steve Breeding, Rebecca Dye and Oris Christian  
Nay: None

**APPROVAL OF A DCJS VIOLENCE AGAINST WOMEN GRANT IN THE AMOUNT OF \$57,028**

Motion made by David Eaton, second Steve Breeding and duly approved by the Board of Supervisors to accept and appropriate a DCJS Violence Against Women Act Grant in the amount of \$57,028.

The vote was:

Aye: David Eaton, Steve Breeding, Carl Rhea, Tim Lovelace, Lou Wallace, Rebecca Dye and Oris Christian  
Nay: None

**APPROVAL TO CANCEL THE JANUARY 13 BOS MEETING AND RESCHULE THE REGULAR MEETING FOR  
FEBRUARY 08, 2021**

Motion made by Steve Breeding, second Tim Lovelace and duly approved by the Board of Supervisors to cancel the scheduled Board meeting that was to be held on January 13, 2020 and to move the regularly scheduled meeting from February 01 to February 08, 2021 beginning at 5:00 pm.

The vote was:

Aye: Steve Breeding, Tim Lovelace, Carl Rhea, Lou Wallace, David Eaton, Rebecca Dye and Oris Christian  
Nay: None

**APPROVAL OF THE GEO TECHNICAL EVALUATION SERVICES**

Motion made by Steve Breeding, David Eaton and duly approved by the Board of Supervisors to approve Geo-Technical Evaluation Services for the Russell County Courthouse Project in the amount of \$10,344.

The vote was:

Aye: David Eaton, Steve Breeding, Carl Rhea, Tim Lovelace, Lou Wallace, Rebecca Dye and Oris Christian  
Nay: None

**APPROVAL TO PLACE THE 1<sup>ST</sup> AMENDMENT SANCTUARY RESOLUTION ON THE AGENDA FOR  
FEBRUARY 08, 2021**

Motion made by Tim Lovelace, second Carl Rhea and duly approved by the Board of Supervisors to place the 1<sup>st</sup> Amendment Sanctuary Resolution on the February 08, 2021 meeting agenda.

The vote was:

Aye: Tim Lovelace, Carl Rhea, Lou Wallace, Steve Breeding, David Eaton, Rebecca Dye and Oris Christian  
Nay: None

**APPROVAL TO ADJOURN**

Motion made by Lou Wallace, second Oris Christian and duly approved by the Board of Supervisors to adjourn.

The vote was:

Aye: Lou Wallace, Oris Christian, David Eaton, Steve Breeding, Tim Lovelace, Rebecca Dye and Carl Rhea

Nay: None

\_\_\_\_\_  
Clerk of the Board

\_\_\_\_\_  
Chairperson



**Board of Supervisors**  
137 Highland Drive  
Lebanon, VA 24266

Action Item B-2  
Presenter: Chairperson

**Meeting: 2/8/21**

**6:00 PM**

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## **Approval of Expenditures**

Request approval of the County's January 2021 Monthly Expenditures:

### **STAFF RECOMMENDATION(s):**

County's January 2021 Monthly Expenditures are in compliance with budget and operational services.

### **SUGGESTED MOTION(s):**

Motion to approve County's January 2021 Monthly Expenditures.

### **ATTACHMENTS:**

- January 2021 Monthly Expenditures

<u>DUE DATE</u>	<u>INV. DATE</u>	<u>VENDOR</u>	<u>INVOICE</u>	<u>CLASS</u>	<u>GROSS AMT.</u>	<u>NET AMOUNT</u>	<u>G/L ACCOUNT</u>	<u>P.O.#</u>
2/08/2021	12/16/2020	002615 A & A ENTERPRIS	69987		25.00	25.00	4100-031020-5410-	-
					25.00	25.00 *		
2/08/2021	1/13/2021	002623 ADVANCED MAILIN	152219		184.41	184.41	4100-031020-5201-	-
					184.41	184.41 *		
2/08/2021	1/13/2021	003845 ALSCO	LROA977965		131.46	131.46	4100-072010-3008-	-
					131.46	131.46 *		
2/08/2021	11/10/2020	001425 ATLANTIC ELECTI	383		90.00	90.00	4100-013010-7002-	-
					90.00	90.00 *		
2/08/2021	1/20/2021	003032 B & H RENTALS I	116447		140.00	140.00	4100-094010-8030-	-
					140.00	140.00 *		
2/08/2021	12/17/2020	000052 BLEVINS SEPTIC	34777		510.00	510.00	4100-042010-5413-	-
2/08/2021	1/08/2021	000052 BLEVINS SEPTIC	34887		510.00	510.00	4100-042010-5413-	-
					1,020.00	1,020.00 *		
2/08/2021	12/18/2020	003773 BLUE WOLF SALES	HS1670908		214.44	214.44	4100-031020-5408-	-
2/08/2021	1/15/2021	003773 BLUE WOLF SALES	HS1674454		104.10	104.10	4100-031020-5408-	-
					318.54	318.54 *		
2/08/2021	1/12/2021	000092 BONANZA RESTAUR	656435		179.39	179.39	4100-011010-5413-	-
					179.39	179.39 *		
2/08/2021	2/28/2021	001177 CAMPBELL PHILLI	02282021		400.00	400.00	4100-013020-3002-	-
					400.00	400.00 *		
2/08/2021	1/21/2021	002632 CAMPBELL PRINTI	2178		265.00	265.00	4100-012010-5401-	-
					265.00	265.00 *		
2/08/2021	1/11/2021	004450 CINTAS CORPORAT	4022576327		38.93	38.93	4100-043020-3008-	-
2/08/2021	8/20/2020	004450 CINTAS CORPORAT	4059247536		17.00	17.00	4100-043020-3008-	-
2/08/2021	11/18/2020	004450 CINTAS CORPORAT	4067747415		239.78	239.78	4100-043020-3008-	-
2/08/2021	1/04/2021	004450 CINTAS CORPORAT	4071997662		38.93	38.93	4100-043020-3008-	-
2/08/2021	1/07/2021	004450 CINTAS CORPORAT	4072447686		35.58	35.58	4100-043020-3008-	-
2/08/2021	1/07/2021	004450 CINTAS CORPORAT	4072447690		87.26	87.26	4100-043020-3008-	-
2/08/2021	1/07/2021	004450 CINTAS CORPORAT	4072447693		68.91	68.91	4100-043020-3008-	-
2/08/2021	1/07/2021	004450 CINTAS CORPORAT	4072447712		84.19	84.19	4100-043020-3008-	-
2/08/2021	1/07/2021	004450 CINTAS CORPORAT	4072447727		239.78	239.78	4100-043020-3008-	-
2/08/2021	1/14/2021	004450 CINTAS CORPORAT	4073069739		36.48	36.48	4100-043020-3008-	-
2/08/2021	1/14/2021	004450 CINTAS CORPORAT	4073069757		96.66	96.66	4100-043020-3008-	-
2/08/2021	1/14/2021	004450 CINTAS CORPORAT	4073069813		84.83	84.83	4100-043020-3008-	-
2/08/2021	1/14/2021	004450 CINTAS CORPORAT	4073069822		35.58	35.58	4100-043020-3008-	-
2/08/2021	1/14/2021	004450 CINTAS CORPORAT	4073070010		240.04	240.04	4100-043020-3008-	-
2/08/2021	1/18/2021	004450 CINTAS CORPORAT	4073292663		38.93	38.93	4100-043020-3008-	-
2/08/2021	1/21/2021	004450 CINTAS CORPORAT	4073675988		68.91	68.91	4100-043020-3008-	-
2/08/2021	1/21/2021	004450 CINTAS CORPORAT	4073676141		84.19	84.19	4100-043020-3008-	-
2/08/2021	1/21/2021	004450 CINTAS CORPORAT	4073676147		35.58	35.58	4100-043020-3008-	-
2/08/2021	1/21/2021	004450 CINTAS CORPORAT	4073676443		87.26	87.26	4100-043020-3008-	-
2/08/2021	1/21/2021	004450 CINTAS CORPORAT	4073676455		253.78	253.78	4100-043020-3008-	-
2/08/2021	1/25/2021	004450 CINTAS CORPORAT	4073966740		38.93	38.93	4100-043020-3008-	-
					1,951.53	1,951.53 *		
2/08/2021	2/02/2021	003076 COMBS ARCHIE	02012021		737.67	737.67	4100-013010-1008-	-
					737.67	737.67 *		
2/08/2021	1/25/2021	004668 COPPER RIVER IN	IS001268		110.88	110.88	4100-031020-3005-	-
					110.88	110.88 *		
2/08/2021	1/13/2021	000167 CSX TRANSPORTAT	8402219		100.00	100.00	4100-043020-8001-	-
					100.00	100.00 *		
2/08/2021	1/19/2021	000172 CUMBERLAND MOUN	02082021		1,650.00	1,650.00	4100-021050-3002-	-
					1,650.00	1,650.00 *		
2/08/2021	1/16/2021	001396 CUMBERLAND PLAT	200		59,512.49	59,512.49	4100-042010-3002-	-
					59,512.49	59,512.49 *		
2/08/2021	1/14/2020	000193 DISCOUNT TIRE C	8846		545.00	545.00	4100-031020-5408-	-



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2/08/2021	12/21/2020	000193 DISCOUNT	TIRE C 9166		641.00	641.00	4100-031020-5408-	-
2/08/2021	1/15/2021	000193 DISCOUNT	TIRE C 9267		358.50	358.50	4100-031020-5408-	-
2/08/2021	1/20/2021	000193 DISCOUNT	TIRE C 9291		109.98	109.98	4100-031020-5408-	-
					1,654.48	1,654.48 *		
2/08/2021	12/22/2020	000198 DOMINION	OFFICE 127152		109.39	109.39	4100-032050-5401-	-
2/08/2021	12/11/2020	000198 DOMINION	OFFICE 127322		19.78	19.78	4100-032050-5401-	-
2/08/2021	12/11/2020	000198 DOMINION	OFFICE 127359		15.16	15.16	4100-032050-5401-	-
2/08/2021	12/15/2020	000198 DOMINION	OFFICE 127424		19.14	19.14	4100-012130-5401-	-
2/08/2021	12/18/2020	000198 DOMINION	OFFICE 127569		109.53	109.53	4100-012130-5401-	-
2/08/2021	12/23/2020	000198 DOMINION	OFFICE 127664		19.83	19.83	4100-021010-5401-	-
2/08/2021	12/23/2020	000198 DOMINION	OFFICE 127665		11.79	11.79	4100-021060-5401-	-
2/08/2021	12/22/2020	000198 DOMINION	OFFICE 127680		84.99	84.99	4100-032050-5401-	-
2/08/2021	1/04/2021	000198 DOMINION	OFFICE 127876		17.79	17.79	4100-021060-5401-	-
2/08/2021	1/06/2021	000198 DOMINION	OFFICE 127980		83.00	83.00	4100-043020-5405-	-
2/08/2021	1/07/2021	000198 DOMINION	OFFICE 128064		5.98	5.98	4100-021060-5401-	-
2/08/2021	1/12/2021	000198 DOMINION	OFFICE 128172		280.00	280.00	4100-035050-5401-	-
2/08/2021	1/11/2021	000198 DOMINION	OFFICE 128200		101.00	101.00	4100-012010-5401-	-
2/08/2021	1/15/2021	000198 DOMINION	OFFICE 128340		208.39	208.39	4100-042400-5401-	-
2/08/2021	1/15/2021	000198 DOMINION	OFFICE 128345		127.97	127.97	4100-012010-5401-	-
2/08/2021	1/19/2021	000198 DOMINION	OFFICE 128439		17.79	17.79	4100-021060-5401-	-
2/08/2021	1/19/2021	000198 DOMINION	OFFICE 128442		49.52	49.52	4100-012010-5401-	-
2/08/2021	1/19/2021	000198 DOMINION	OFFICE 128445		39.90	39.90	4100-032050-5401-	-
2/08/2021	1/19/2021	000198 DOMINION	OFFICE 128572		38.99	38.99	4100-072010-5405-	-
2/08/2021	1/22/2021	000198 DOMINION	OFFICE 128573		8.92	8.92	4100-012010-5401-	-
2/08/2021	1/26/2021	000198 DOMINION	OFFICE 128687		175.98	175.98	4100-012010-5401-	-
2/08/2021	1/26/2021	000198 DOMINION	OFFICE 128706		44.66	44.66	4100-012010-5401-	-
2/08/2021	1/27/2021	000198 DOMINION	OFFICE 128744		15.35	15.35	4100-012010-5401-	-
2/08/2021	1/05/2021	000198 DOMINION	OFFICE 127919		107.98	107.98	4100-031020-5401-	-
2/08/2021	1/05/2021	000198 DOMINION	OFFICE 127947		16.65	16.65	4100-031020-5401-	-
2/08/2021	1/05/2021	000198 DOMINION	OFFICE 127970		39.90	39.90	4100-031020-5401-	-
2/08/2021	1/07/2021	000198 DOMINION	OFFICE 128040		131.58	131.58	4100-031020-5401-	-
2/08/2021	1/08/2021	000198 DOMINION	OFFICE 128061		855.00	855.00	4100-031020-5401-	-
2/08/2021	1/08/2021	000198 DOMINION	OFFICE 128086		16.51	16.51	4100-031020-5401-	-
2/08/2021	1/11/2021	000198 DOMINION	OFFICE 128204		49.51	49.51	4100-031020-5401-	-
2/08/2021	1/12/2021	000198 DOMINION	OFFICE 128238		11.50	11.50	4100-031020-5401-	-
2/08/2021	1/13/2021	000198 DOMINION	OFFICE 128247		25.98	25.98	4100-031020-5401-	-
2/08/2021	1/13/2021	000198 DOMINION	OFFICE 128287		3.18	3.18	4100-031020-5401-	-
2/08/2021	1/15/2021	000198 DOMINION	OFFICE 128338		20.48	20.48	4100-031020-5401-	-
2/08/2021	1/18/2021	000198 DOMINION	OFFICE 128418		11.15	11.15	4100-031020-5401-	-
2/08/2021	1/19/2021	000198 DOMINION	OFFICE 128447		39.90	39.90	4100-031020-5401-	-
2/08/2021	1/19/2021	000198 DOMINION	OFFICE 128449		57.65	57.65	4100-031020-5401-	-
2/08/2021	1/19/2021	000198 DOMINION	OFFICE 128456		23.85	23.85	4100-031020-5401-	-
2/08/2021	1/22/2021	000198 DOMINION	OFFICE 128574		67.96	67.96	4100-031020-5401-	-
2/08/2021	1/26/2021	000198 DOMINION	OFFICE 128685		32.80	32.80	4100-031020-5401-	-
2/08/2021	11/18/2020	000198 DOMINION	OFFICE 126549		36.12	36.12	4100-012090-5401-	-
2/08/2021	12/02/2020	000198 DOMINION	OFFICE 126549.01		168.99	168.99	4100-012090-5401-	-
2/08/2021	12/01/2020	000198 DOMINION	OFFICE 126884		499.95	499.95	4100-022020-5401-	-
2/08/2021	12/08/2020	000198 DOMINION	OFFICE 127144		26.53	26.53	4100-012090-5401-	-
2/08/2021	12/09/2020	000198 DOMINION	OFFICE 127286		37.20	37.20	4100-012090-5401-	-
2/08/2021	1/11/2021	000198 DOMINION	OFFICE 128065		746.00	746.00	4100-021010-5401-	-
2/08/2021	1/15/2021	000198 DOMINION	OFFICE 128342		222.62	222.62	4100-012090-5401-	-
2/08/2021	1/26/2021	000198 DOMINION	OFFICE 128691		17.87	17.87	4100-013020-5401-	-
2/08/2021	1/26/2021	000198 DOMINION	OFFICE 128693		127.19	127.19	4100-035050-5401-	-
2/08/2021	1/26/2021	000198 DOMINION	OFFICE 128703		227.43	227.43	4100-022020-5401-	-
2/08/2021	1/28/2021	000198 DOMINION	OFFICE 128703.1		100.99	100.99	4100-022020-5401-	-

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2/08/2021	1/27/2021	000198 DOMINION OFFICE	128743		38.99	38.99	4100-072010-5405-	-
2/08/2021	1/29/2021	000198 DOMINION OFFICE	128859		221.59	221.59	4100-012090-5401-	-
					5,587.90	5,587.90 *		
2/08/2021	12/31/2020	003938 DRAPER ADEN ASS	2020120576		276.70	276.70	4100-042010-3090-	-
					276.70	276.70 *		
2/08/2021	2/08/2021	004666 ENTERPRISE FLEE	69787167		8,753.96	8,753.96	4100-031020-5408-	-
					8,753.96	8,753.96 *		
2/08/2021	2/08/2021	004419 EQUATURE/DSS CO	23711		5,212.20	5,212.20	4100-032050-3005-	-
					5,212.20	5,212.20 *		
2/08/2021	1/07/2021	000235 FLOWER COUNTRY	002148		35.00	35.00	4100-011010-5413-	-
					35.00	35.00 *		
2/08/2021	12/31/2021	004822 FRIENDLY TIRE	177301		10.21	10.21	4100-031020-5408-	-
					10.21	10.21 *		
2/08/2021	11/20/2021	000854 GALL'S, LLC	16999383		188.95	188.95	4100-031020-5409-	-
2/08/2021	12/28/2021	000854 GALL'S, LLC	17288063		11.38	11.38	4100-031020-5409-	-
2/08/2021	12/28/2021	000854 GALL'S, LLC	17289678		28.12	28.12	4100-031020-5409-	-
2/08/2021	12/30/2021	000854 GALL'S, LLC	17314213		44.99	44.99	4100-031020-5409-	-
2/08/2021	1/05/2021	000854 GALL'S, LLC	17346416		15.00	15.00	4100-031020-5409-	-
2/08/2021	1/05/2021	000854 GALL'S, LLC	17347772		11.50	11.50	4100-031020-5409-	-
2/08/2021	1/08/2021	000854 GALL'S, LLC	17377818		166.60	166.60	4100-031020-5409-	-
2/08/2021	1/11/2021	000854 GALL'S, LLC	17388705		182.92	182.92	4100-031020-5409-	-
2/08/2021	1/15/2021	000854 GALL'S, LLC	17434174		96.00	96.00	4100-031020-5409-	-
					745.46	745.46 *		
2/08/2021	1/08/2021	000315 HBS-IT	174240		131.81	131.81	4100-021010-3005-	-
					131.81	131.81 *		
2/08/2021	12/15/2021	004627 HOLSTON MEDICAL	94850		75.00	75.00	4100-031020-5409-	-
					75.00	75.00 *		
2/08/2021	1/05/2021	004664 HOME TOWN HARDW	22446		32.95	32.95	4100-071040-5607-	-
					32.95	32.95 *		
2/08/2021	1/07/2021	000309 HONAKER FLORIST	2808		50.00	50.00	4100-011010-5413-	-
					50.00	50.00 *		
2/08/2021	10/22/2020	003866 INNOVATIVE TECH	2547		1,904.50	1,904.50	4100-012300-3002-	-
2/08/2021	1/22/2021	003866 INNOVATIVE TECH	2595		262.50	262.50	4100-072010-3009-	-
2/08/2021	1/05/2021	003866 INNOVATIVE TECH	2635		75.00	75.00	4100-034010-5401-	-
2/08/2021	1/22/2021	003866 INNOVATIVE TECH	2637		862.50	862.50	4100-012300-3002-	-
2/08/2021	1/22/2021	003866 INNOVATIVE TECH	2639		3,162.50	3,162.50	4100-012300-3002-	-
2/08/2021	1/06/2021	003866 INNOVATIVE TECH	2641		150.00	150.00	4100-081040-3006-	-
2/08/2021	1/22/2021	003866 INNOVATIVE TECH	2642		812.50	812.50	4100-012300-3002-	-
2/08/2021	1/06/2021	003866 INNOVATIVE TECH	2644		300.00	300.00	4100-013020-3002-	-
2/08/2021	1/22/2021	003866 INNOVATIVE TECH	2651		37.50	37.50	4100-022010-5415-	-
2/08/2021	1/21/2021	003866 INNOVATIVE TECH	2658		112.50	112.50	4100-012090-5401-	-
2/08/2021	1/22/2021	003866 INNOVATIVE TECH	2666		300.00	300.00	4100-031020-3005-	-
2/08/2021	1/22/2021	003866 INNOVATIVE TECH	2668		487.50	487.50	4100-043020-5407-	-
2/08/2021	1/22/2021	003866 INNOVATIVE TECH	2669		1,500.00	1,500.00	4100-012300-3002-	-
2/08/2021	1/21/2021	003866 INNOVATIVE TECH	2596		75.00	75.00	4100-031020-3005-	-
2/08/2021	1/22/2021	003866 INNOVATIVE TECH	2636		2,162.50	2,162.50	4100-031020-3005-	-
					12,204.50	12,204.50 *		
2/08/2021	1/19/2021	004815 JACKIES SCREENP	11088		63.13	63.13	4100-043020-5405-	-
					63.13	63.13 *		
2/08/2021	1/26/2021	000350 KEENE CARPET IN	36656		856.00	856.00	4100-071040-5607-	-
					856.00	856.00 *		
2/08/2021	12/04/2021	000353 KEGLEY SERVICE	37447		20.00	20.00	4100-031020-5408-	-
					20.00	20.00 *		
2/08/2021	1/12/2021	003245 KENDALL ELECTRI	S109902489.001		240.08	240.08	4100-043020-5407-	-
2/08/2021	1/21/2021	003245 KENDALL ELECTRI	S109902489.002		1,258.83	1,258.83	4100-043020-5407-	-
					1,498.91	1,498.91 *		

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2/08/2021	12/01/2020	000367	LEBANON BLOCK & 404446		51.24	51.24	4100-043020-5407-	-
2/08/2021	12/01/2020	000367	LEBANON BLOCK & 404516		46.75	46.75	4100-043020-5407-	-
2/08/2021	12/04/2020	000367	LEBANON BLOCK & 404998		2.89	2.89	4100-094010-7056-	-
2/08/2021	12/04/2020	000367	LEBANON BLOCK & 405002		11.95	11.95	4100-094010-7056-	-
2/08/2021	12/08/2020	000367	LEBANON BLOCK & 405331		15.18	15.18	4100-043020-5407-	-
2/08/2021	12/10/2020	000367	LEBANON BLOCK & 405686		33.54	33.54	4100-071040-5407-	-
2/08/2021	12/11/2020	000367	LEBANON BLOCK & 405944		19.55	19.55	4100-094010-7056-	-
2/08/2021	12/11/2020	000367	LEBANON BLOCK & 405952		15.85	15.85	4100-042400-5407-	-
2/08/2021	12/15/2020	000367	LEBANON BLOCK & 406380		50.72	50.72	4100-094010-7056-	-
2/08/2021	12/17/2020	000367	LEBANON BLOCK & 406775		9.95	9.95	4100-042400-5407-	-
2/08/2021	12/21/2020	000367	LEBANON BLOCK & 406930		15.92	15.92	4100-094010-7056-	-
2/08/2021	12/29/2020	000367	LEBANON BLOCK & 407668		67.18	67.18	4100-071040-5407-	-
2/08/2021	12/30/2020	000367	LEBANON BLOCK & 407871		8.59	8.59	4100-071040-5407-	-
2/08/2021	12/29/2020	000367	LEBANON BLOCK & 4017770		26.14	26.14	4100-031020-5409-	-
2/08/2021	12/07/2021	000367	LEBANON BLOCK & 405177		55.07	55.07	4100-031020-5409-	-
2/08/2021	12/21/2020	000367	LEBANON BLOCK & 407033		30.88	30.88	4100-031020-5409-	-
2/08/2021	12/30/2020	000367	LEBANON BLOCK & 407987		8.54	8.54	4100-031020-5409-	-
2/08/2021	1/06/2021	000367	LEBANON BLOCK & 408782		7.50	7.50	4100-031020-5409-	-
2/08/2021	1/11/2021	000367	LEBANON BLOCK & 409297		15.50	15.50	4100-031020-5409-	-
2/08/2021	1/14/2021	000367	LEBANON BLOCK & 409796		6.09	6.09	4100-031020-5409-	-
2/08/2021	1/27/2021	000367	LEBANON BLOCK & 411486		3.98	3.98	4100-031020-5409-	-
					503.01	503.01 *		
2/08/2021	10/28/2021	004823	MATCO TOOLS 10282021		342.20	342.20	4100-031020-5408-	-
					342.20	342.20 *		
2/08/2021	2/08/2021	003474	MONK HARRY J 02282021		1,475.00	1,475.00	4100-013010-1008-	-
					1,475.00	1,475.00 *		
2/08/2021	1/27/2021	003902	MUMPOWER SUPPLY 295089		1,900.00	1,900.00	4100-032050-5413-	-
					1,900.00	1,900.00 *		
2/08/2021	9/18/2020	000453	NATIONAL ASSOCI 267296		578.00	578.00	4100-011010-5801-	-
					578.00	578.00 *		
2/08/2021	8/05/2020	003123	O'REILLY AUTO P 1943-370024		4.49	4.49	4100-031020-5408-	-
2/08/2021	9/23/2020	003123	O'REILLY AUTO P 1943-377519		7.24	7.24	4100-031020-5408-	-
2/08/2021	9/23/2021	003123	O'REILLY AUTO P 1943-377533		4.49	4.49	4100-031020-5408-	-
2/08/2021	10/01/2020	003123	O'REILLY AUTO P 1943-378572		51.98	51.98	4100-031020-5408-	-
2/08/2021	10/21/2021	003123	O'REILLY AUTO P 1943-381586		16.00	16.00	4100-031020-5408-	-
2/08/2021	11/11/2021	003123	O'REILLY AUTO P 1943-384472		222.40	222.40	4100-031020-5408-	-
2/08/2021	12/02/2020	003123	O'REILLY AUTO P 1943-387013		5.29	5.29	4100-031020-5408-	-
2/08/2021	12/09/2020	003123	O'REILLY AUTO P 1943-3880015		36.00	36.00	4100-031020-5408-	-
2/08/2021	12/09/2020	003123	O'REILLY AUTO P 1943-388013		13.47	13.47	4100-031020-5408-	-
2/08/2021	12/18/2020	003123	O'REILLY AUTO P 1943-389072		4.49	4.49	4100-031020-5408-	-
2/08/2021	12/18/2020	003123	O'REILLY AUTO P 1943-389102		17.98	17.98	4100-031020-5408-	-
2/08/2021	12/22/2021	003123	O'REILLY AUTO P 1943-389557		8.89	8.89	4100-031020-5408-	-
2/08/2021	12/28/2021	003123	O'REILLY AUTO P 1943-390098		38.34	38.34	4100-031020-5408-	-
2/08/2021	12/28/2021	003123	O'REILLY AUTO P 1943-390147		14.98	14.98	4100-031020-5408-	-
2/08/2021	1/06/2021	003123	O'REILLY AUTO P 1943-391313		38.97	38.97	4100-031020-5408-	-
2/08/2021	1/07/2021	003123	O'REILLY AUTO P 1943-391454		34.99	34.99	4100-031020-5408-	-
2/08/2021	1/12/2021	003123	O'REILLY AUTO P 1943-391997		3.29	3.29	4100-031020-5408-	-
					523.29	523.29 *		
2/08/2021	12/04/2020	004820	PEYTON BOYD ARC 10966		5,440.00	5,440.00	4100-094010-8031-	-
					5,440.00	5,440.00 *		
2/08/2021	9/10/2020	004152	RAELARK ENTERPR 1629		267.45	267.45	4100-013020-3007-	-
					267.45	267.45 *		
2/08/2021	10/31/2020	001191	REDWOOD TOXICOL 02082021		48.67	48.67	4100-022010-5415-	-
					48.67	48.67 *		
2/08/2021	12/31/2020	004581	RFC COMPANY 213-S100932132.		2.00	2.00	4100-043020-5405-	-

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2/08/2021	1/07/2021	004581 RFC COMPANY	213-S100933525.		21.60	21.60	4100-043020-5407-	-
					23.60	23.60 *		
2/08/2021	12/28/2020	002332 ROWMAN & LITTLE	11589437		207.95	207.95	4100-073010-5411-	-
					207.95	207.95 *		
2/08/2021	2/01/2021	000663 RUSSELL COUNTY	FEB-21		4,666.00	4,666.00	4100-095010-9130-	-
					4,666.00	4,666.00 *		
2/08/2021	2/03/2021	004632 RUSSELL COUNTY	JANUARY 2021		6,324.37	6,324.37	4100-082010-8025-	-
					6,324.37	6,324.37 *		
2/08/2021	7/15/2020	003554 S.E.P.T.I.C. IN	45374		67.20	67.20	4100-094010-7056-	-
2/08/2021	12/11/2020	003554 S.E.P.T.I.C. IN	47474		100.00	100.00	4100-094010-7056-	-
2/08/2021	11/30/2020	003554 S.E.P.T.I.C. IN	47531		56.90	56.90	4100-094010-7056-	-
2/08/2021	12/31/2020	003554 S.E.P.T.I.C. IN	47718		63.60	63.60	4100-094010-7056-	-
					287.70	287.70 *		
2/08/2021	2/08/2021	004017 SCOTT HERBERT W	02282021		737.67	737.67	4100-013010-1008-	-
					737.67	737.67 *		
2/08/2021	2/03/2021	003380 SHENTEL	01222021		137.02	137.02	4100-035050-5413-	-
					137.02	137.02 *		
2/08/2021	1/20/2021	001809 SHIELDS ELECTRO	BP206031		363.42	363.42	4100-043020-5407-	-
					363.42	363.42 *		
2/08/2021	1/31/2021	004710 SKANSKA USA BUI	2220802-08		250.00	250.00	4100-094010-8029-	-
					250.00	250.00 *		
2/08/2021	1/01/2021	001439 SMYTH COUNTY	44562		30.00	30.00	4100-031020-3009-	-
					30.00	30.00 *		
2/08/2021	1/27/2021	001700 SOUTHWEST VA VE	01272021		1,767.83	1,767.83	4100-035010-5404-	-
					1,767.83	1,767.83 *		
2/08/2021	12/30/2020	004121 TELE-OPTICS COM	5081		725.00	725.00	4100-094010-7056-	-
					725.00	725.00 *		
2/08/2021	1/07/2021	004601 THE HOME DEPOT	593382161		457.56	457.56	4100-043020-5405-	-
2/08/2021	1/08/2021	004601 THE HOME DEPOT	593648157		99.90	99.90	4100-043020-5405-	-
2/08/2021	1/14/2021	004601 THE HOME DEPOT	594728487		41.72	41.72	4100-043020-5407-	-
2/08/2021	1/18/2021	004601 THE HOME DEPOT	595230939		328.80	328.80	4100-043020-5405-	-
					927.98	927.98 *		
2/08/2021	12/02/2020	000366 THE LEBANON NEW	136498		46.18	46.18	4100-011010-3007-	-
2/08/2021	12/02/2020	000366 THE LEBANON NEW	136498		42.80	42.80	4100-011010-3007-	-
2/08/2021	12/02/2020	000366 THE LEBANON NEW	136498		42.80	42.80	4100-011010-3007-	-
2/08/2021	12/02/2020	000366 THE LEBANON NEW	136498		42.80	42.80	4100-011010-3007-	-
2/08/2021	12/02/2020	000366 THE LEBANON NEW	136498		42.80	42.80	4100-011010-3007-	-
					217.38	217.38 *		
2/08/2021	12/23/2020	004103 THE SUPPLY ROOM	4204715-0		32.46	32.46	4100-021020-5401-	-
					32.46	32.46 *		
2/08/2021	12/28/2020	000977 TOP LINE ADVERT	7807		79.00	79.00	4100-031020-5410-	-
2/08/2021	1/15/2021	000977 TOP LINE ADVERT	7825		85.00	85.00	4100-031020-5410-	-
					164.00	164.00 *		
2/08/2021	1/08/2021	001079 TREASURER OF VI	2ND QTR 2021		265.10	265.10	4100-034010-5401-	-
					265.10	265.10 *		
2/08/2021	12/15/2020	002133 TREASURER OF VI	12152020		20.00	20.00	4100-035030-3001-	-
2/08/2021	12/22/2020	002133 TREASURER OF VI	12222020		20.00	20.00	4100-035030-3001-	-
					40.00	40.00 *		
2/08/2021	12/20/2020	000706 TWO WAY RADIO I	101005062		304.00	304.00	4100-031020-7003-	-
2/08/2021	1/01/2021	000706 TWO WAY RADIO I	80002638		65.00	65.00	4100-031020-7003-	-
2/08/2021	1/01/2021	000706 TWO WAY RADIO I	80002639		684.00	684.00	4100-031020-7003-	-
					1,053.00	1,053.00 *		
2/08/2021	9/08/2020	003115 VIRGINIA ELECTR	3020145-IN		122.55	122.55	4100-043020-5407-	-
2/08/2021	12/30/2020	003115 VIRGINIA ELECTR	3030035-IN		253.44	253.44	4100-094010-8029-	-
					375.99	375.99 *		
TOTAL FOR DUE DATE 2/08/2021					133,698.67	133,698.67		

AP060 2/01/2021

A/P CASH REQUIREMENTS PRE-LIST COMPANY #-001 FUND#4100

PAGE 6

<u>DUE DATE</u>	<u>INV. DATE</u>	<u>VENDOR</u>	<u>INVOICE</u>	<u>CLASS</u>	<u>GROSS AMT.</u>	<u>NET AMOUNT</u>	<u>G/L ACCOUNT</u>	<u>P.O.#</u>
TOTAL DUE FOR FUND- 4100					133,698.67	133,698.67		

<u>DUE DATE</u>	<u>INV. DATE</u>	<u>VENDOR</u>	<u>INVOICE</u>	<u>CLASS</u>	<u>GROSS AMT.</u>	<u>NET AMOUNT</u>	<u>G/L ACCOUNT</u>	<u>P.O.#</u>
2/08/2021	1/27/2021	003237 HIGHLANDS GLASS	26170		3,296.75	3,296.75	4208-043020-5413-	- -
2/08/2021	1/28/2021	003237 HIGHLANDS GLASS	26184		168.00	168.00	4208-043020-5413-	- -
					3,464.75	3,464.75 *		
		TOTAL FOR DUE DATE	2/08/2021		3,464.75	3,464.75		
		TOTAL DUE FOR FUND-	4208		3,464.75	3,464.75		
		NON-DIRECT DEPOSIT			137,163.42	137,163.42		
		DIRECT DEPOSIT			.00	.00		
		E-Payable Total			.00	.00		
		FINAL DUE			137,163.42	137,163.42		
						.00		



**Board of Supervisors**  
137 Highland Drive  
Lebanon, VA 24266

Action Item  
Presenters - Attorney

**Meeting: 2/8/21 6:00 PM**

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## County Attorney Reports

1. **RC Courthouse Interim Agreement**
2. **PSA Rural Development (R&D) Capacity Agreement**

### **Staff Recommendation:**

Board Discretion.

### **Suggested Motion:**

Motion Required.

### **ATTACHMENTS:**

- Various

## INTERIM AGREEMENT

This Interim Agreement, made this 8<sup>th</sup> day of February, 2021, by Russell County, Virginia, a political subdivision of Commonwealth of Virginia, 137 Highland Drive Lebanon, VA 24266 (hereinafter called the “Owner”), and J.A. Street & Associates of 245 Birch Street, P.O. Box 725, Blountville, TN 37617 (hereinafter called the “Design-Builder”). The term Design-Builder shall be synonymous with Private Entity or PPEA Firm or Contractor.

WITNESSETH that the parties hereto agree as follows:

### **(A) THE DESIGN-BUILD DOCUMENTS**

This Interim Agreement consists of this agreement between Owner and Design-Builder (hereinafter, the “Agreement”) and its attached Exhibits; Terms and Conditions included herein; the Project Criteria, including changes to the Project Criteria proposed by the Design-Builder and accepted by the Owner, if any; the Design-Builder's Proposal and written modifications to the Proposal accepted by the Owner, if any; other documents listed in this Agreement; and Modifications issued after execution of this Agreement. The Design-Build Documents shall not be construed to create a contractual relationship of any kind (1) between the Architect and Owner, (2) between the Owner and a Contractor or Subcontractor, or (3) between any persons or entities other than the Owner and Design-Builder, including but not limited to any consultant retained by the Owner to prepare or review the Project Criteria

The Agreement represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations or agreements, either written or oral. The Agreement may be amended or modified only by a Modification. A Modification is a written amendment to the Agreement signed by both parties.

### **(B) SERVICES TO BE PERFORMED**

The Design-Builder will perform the following services:

Design of an approximately 38,000 SF addition to the existing Russell County Courthouse and approximately 30,554 SF of renovations to the existing Russell County Courthouse along with associated parking and site improvements as well as demolition of existing facilities as noted in the Detailed Phase Proposal. Services shall also consist of design-build project management services including, but not limited to, those required to coordinate the efforts of the design-build team; budgeting and cost estimating involved with development of a Guaranteed Maximum Price (GMP), and scheduling. Design-Builder will commence work ~~on January 12, 2020~~immediately and services will conclude with completion 100% design documents or written notice of termination of this



Agreement by Owner consistent with section 2.2 of the Terms and Conditions, whichever occurs first. No construction services are included within the scope of this contract.

**(C) PAYMENT FOR SERVICES**

The Owner will make payments as follows:

Services noted above shall be provided for a **Not-to-Exceed (NTE) Budget of Six Hundred Ninety Nine Thousand Nine Hundred Eighteen and 00/100 dollars (\$699,918.00)**.

For NTE Budget for services provided under this Interim Agreement is as follows:

<u>Schematic Design (35% Design Phase):</u>	\$214,375 (Fixed Fee)
<u>Design Development (65% Design Phase):</u>	\$183,750 (Fixed Fee)
95% <u>Construction Documents Design Phase:</u>	\$183,750 (Fixed Fee)
100% <u>Construction Documents Design Phase:</u>	\$ 30,625 (Fixed Fee)
Design-Build Preconstruction Services: _____	\$ 42,700 (Fixed Fee)
Owner Printing Allowance: _____	\$ 2,000 (Reimbursable)
Design-Build Fee: _____	\$ 42,718 (Fixed)
_____ Total:	\$699,918

The NTE Budget above shall include costs for all required insurances.

**FIXED FEES**

The Owner shall pay Fixed Fees, which consist of the architecture and engineering fees and Design-Builder's Preconstruction Services Fee and Fee (overhead and profit) for this phase of the project. The Design-Build Fixed Fee is intended to compensate the Design-Builder for home office support, overhead costs, and profit. The Fixed Fees noted above will not vary with either the estimated cost or actual cost of construction of the Project.

a. A-E Services for Design Phase Services: This component of the Fixed Fees covers the design and preparation of Construction Documents. The A-E will provide coordination with all jurisdictions, authorities, planning and zoning, and building officials to obtain all necessary input, approvals and permits. This Fixed Fee also includes the cost of professional liability insurance required to be carried by Design-Build team.

b. Contractor Fee during pre-construction: This component of the Fixed Fees covers all pre-construction services, including design reviews, cost estimates, preparation of a GMP, home office support (including project manager, project engineer, estimator, and purchasing agent) and overhead costs.

## REIMBURSABLE COSTS

The Owner will reimburse the Design-Builder for all the following costs:

1. Owner-requested printing of design documents for review.
2. Subcontractor costs for preparation of required submittals and shop drawings, but not for construction services.
3. Other Project-related direct costs that shall be reimbursed include, but are not limited to, the following: Contractor direct expenses, any insurances (including project specific insurance riders of any type) and accounting (project related), taxes, safety, and any expenses approved by Owner in writing prior to being incurred.
4. Reimbursable Costs shall be documented with vendor's invoices to Design-Builder and other similar documentation. Reimbursable expenses shall not be marked-up by Design-Builder.

Owner will not reimburse Design-Builder for the following costs:

- Costs not associated with personnel assigned to the Project are considered to be indirect costs that are included as part of the Fixed Fees and are not Reimbursable Costs. Examples of indirect costs that are not Reimbursable Costs include, but are not limited to: bonuses to senior executives, travel by company executives or officers, and personnel whose services and/or responsibilities include multiple projects, e.g., accounting, home office estimating, and purchasing personnel; provided, however, that costs for such personnel on multiple projects may be reimbursed if the Design-Builder requires each of such personnel to maintain accurate timesheets of any time applicable to the Project, if such time allocated to the Project is reasonable, and if the Design-Builder makes such timesheets available to the Owner at any time and from time to time as requested by the Owner.
- Public relations and advertising, bad debts, contributions and donations, dividends or payments of profits, entertainment, fines or penalties, life insurance for officers, partners, or proprietors, interest on loans, lobbying, losses on other contracts, income taxes, proposal preparation costs except for proposals arising from change requests or direction from the Owner or Owner's Representative, and legal costs involving disputes with the Owner.

## ALLOWANCES

An Allowance has been established for printing of copies of sets of design documents for owner review. The Design-Builder will be responsible for managing the allowance to ensure the amount of the allowance is not exceeded without prior approval of the Owner.

Partial payments in the amount of 100% of the value of the services rendered will be made in monthly installments. The value of the services rendered shall be as estimated by the Design-Builder and approved by the Owner prior to payment. Upon acceptance by the Owner of all services required hereunder, and compliance by the Design-Builder with all terms and conditions of this contract, the amount due the Design-Builder will be paid. Payment will be made based on services rendered. No retainage will be withheld.

Provided that an Application for Payment, in the format approved by Owner, is received not later than the 25<sup>th</sup> day of month, the Owner shall make payment to the Design-Builder not later than the 25<sup>th</sup> day of the following month. If an Application for Payment is received by the Owner after the application date fixed above, payment shall be made by the Owner not later than thirty (30) days after the Owner receives the Application for Payment.

Payments due and unpaid under this Agreement shall bear interest from the date payment is due at the legal rate prevailing from time to time at the place where the Project is located, unless waived by both Parties.

#### **(D) SCHEDULE AND DELIVERABLES**

Below is the Design-Builder's tentative schedule milestones and deliverables. These milestones are for planning purposes and should be adhered to as best as possible.

By mid-March 2021:	Submission of Design Development Documents
By end of March 2021:	Submission of Design Development Cost Estimate
By June 2021:	Submission of Construction Documents
By end of June 2021:	Submission of GMP Pricing Proposal

Construction is anticipated for 22 months with potential phasing. The final construction schedule will be determined as part of GMP negotiations.

#### **(E) DISPUTE RESOLUTION**

If the parties cannot resolve any dispute through good-faith negotiations, the method of binding dispute resolution shall be the following:

- Arbitration pursuant to American Arbitration Association procedures
- Litigation in a court of competent jurisdiction
- Other (Specify)

This Agreement shall be construed and governed by the applicable laws of the Commonwealth of Virginia. Any disputes arising hereunder, resulting in litigation, shall be resolved by bench trial in the Circuit Court for Russell County, Virginia.

**(F) MISCELLANEOUS**

The Owner's Designated Representative/Project Manager:

Curtis Elswick  
Sr. Vice President  
Skanska USA Building Inc.  
4309 Emperor Blvd., Suite 200  
Durham, NC 27703  
Mobile: 540-423-2860  
[curtis.elswick@skanska.com](mailto:curtis.elswick@skanska.com)

Design-Builder's Designated Representative:

Jim Street  
CEO  
J.A. Street & Associates  
245 Birch Street  
P.O. Box 725  
Blountville, TN 37617  
Direct: 423-323-8017  
Mobile: 423-418-2760  
[jastreet@jastreet.com](mailto:jastreet@jastreet.com)

The Design-Builder's Designated Representative identified above shall be authorized to act on the Design-Builder's behalf with respect to the Project. Neither the Owner's nor the Design-Builder's Designated Representative shall be changed without ten days written notice to the other party.

The Architect, other design professionals and consultants engaged by the Design-Builder shall be persons or entities duly licensed to practice their professions in the jurisdiction where the Project is located and are listed as follows:

Architect/Engineer of Record:

Silling Associates, Inc.  
405 Capital Street  
Upper Atrium  
Charleston, WV 25301  
Contact: Tom Potts (license number: 0401012301)

Mechanical/Electrical/Plumbing/Structural Engineer:

Thompson & Litton (license number(s): 0410000071/0410000060)

Civil Engineer:  
Appalachian Design Services (license number: 0407006042)

**(G) EXHIBITS**

Exhibit A, J.A. Street & Associates Detailed Phase PPEA Proposal dated November 13, 2020 *(attached by reference)*

Exhibit B, Clarifications and Additional Information dated December 2020

Exhibit C, Design Standards and Processes dated December 2020

Exhibit D, J.A. Street & Associates PPEA Conceptual Phase Proposal dated September 18, 2020 *(attached by reference)*

Exhibit E, Request for Proposals for Conceptual Phase Proposals dated August 12, 2020 *(attached by reference)*

Exhibit F, Virginia Courthouse Facility Guidelines latest edition as of date of this Agreement *(attached by reference)*

Exhibit G, Guidelines for Implementation of the Public-Private Education Facilities & Infrastructure Act of 2002 adopted by the Russell County Board of Supervisors - August 2019, as amended *(attached by reference)*

Exhibit H, J.A. Street Design-Build Outline Schedule

Exhibit I, Russell County, Virginia Standard Terms and Conditions

IN WITNESS WHEREOF, the parties hereto have executed this contract as of the date first above written.

**Design-Builder:**

\_\_\_\_\_  
(Signature) (Date)

Printed Name: \_\_\_\_\_

Its: \_\_\_\_\_

**Owner:**

\_\_\_\_\_  
(Signature) (Date)

Printed Name: \_\_\_\_\_

Its: \_\_\_\_\_

DRAFT

# TERMS AND CONDITIONS

## 1. GENERAL PROVISIONS

### 1.1 BASIC DEFINITIONS

#### 1.1.1 THE DESIGN-BUILD DOCUMENTS

The Design-Build Documents are identified in Section (A) of the Agreement.

#### 1.1.2 PROJECT CRITERIA

The Project Criteria are identified in Exhibit E and further defined in Exhibit A, Exhibit B, and Exhibit D attached to the Agreement and may describe the character, scope, relationships, forms, size and appearance of the Project, materials and systems and, in general, their quality levels, performance standards, requirements or criteria, and major equipment layouts.

#### 1.1.3 ARCHITECT

The Architect is the person lawfully licensed to practice architecture or an entity lawfully practicing architecture identified as such in the Agreement and having a direct contract with the Design-Builder to perform design services for all or a portion of the Work, and is referred to throughout the Design-Build Documents as if singular in number. The term "Architect" means the Architect or the Architect's authorized representative.

#### 1.1.4 THE WORK

The term "Work" means the design and services required to complete the design documents, whether completed or partially completed, and may include review and approval of any submittals or shop drawings. The "Work" as it pertains to this Agreement shall mean design and design-build project management/project coordination services only, not actual construction work.

### 1.2 COMPLIANCE WITH APPLICABLE LAWS

1.2.1 If the Design-Builder believes that implementation of any instruction received from the Owner would cause a violation of any applicable law, statute, ordinance, building code, rule or regulation, the Design-Builder shall notify the Owner in writing. Neither the Design-Builder nor any Contractor or Architect shall be obligated to perform any act which they believe will violate any applicable law, ordinance, rule or regulation.

1.2.2 The Design-Builder shall be entitled to rely on the completeness and accuracy of the information contained in the Project Criteria, but not that such information complies with applicable laws, regulations and codes, which shall be the obligation of the Design-Builder to determine. In the event that a specific requirement of the Project Criteria conflicts with applicable laws, regulations and codes, the Design-Builder shall furnish Work which complies with such laws,

regulations and codes. In such case, the Owner shall issue a Change Order to the Design-Builder unless the Design-Builder recognized such non-compliance prior to execution of this Agreement and failed to notify the Owner.

### **1.3 CAPITALIZATION**

**1.3.1** Terms capitalized in these Terms and Conditions include those which are (1) specifically defined or (2) the titles of numbered articles and identified references to sections in the document.

### **1.4 INTERPRETATION**

**1.4.1** In the interest of brevity, the Design-Build Documents frequently omit modifying words such as “all” and “any” and articles such as “the” and “an,” but the fact that a modifier or an article is absent from one statement and appears in another is not intended to affect the interpretation of either statement.

**1.4.2** Unless otherwise stated in the Design-Build Documents, words which have well-known technical or construction industry meanings are used in the Design-Build Documents in accordance with such recognized meanings.

### **1.5 EXECUTION OF THE DESIGN-BUILD DOCUMENTS**

**1.5.1** The Design-Build Documents shall be signed by the Owner and Design-Builder.

**1.5.2** Execution of the Design-Build Contract by the Design-Builder is a representation that the Design-Builder has visited the site, become generally familiar with local conditions under which the Work is to be performed and correlated personal observations with requirements of the Design-Build Documents.

### **1.6 OWNERSHIP AND USE OF DOCUMENTS AND ELECTRONIC DATA**

**1.6.1** Drawings, specifications, and other documents including those in electronic form, prepared by the Architect and furnished by the Design-Builder shall, upon payment for the associated services become the sole and exclusive property of Owner. Drawings, specifications, and other documents and materials and electronic data are furnished for use solely with respect to this Project by the Owner.

**1.6.2** If this Agreement is terminated for any reason, upon payment for services rendered, each of the Design-Builder’s design professionals, including the Architect, shall be contractually required to convey to the Owner a non-exclusive license to use that design professional’s design documents for the completion and use of the Project.



## 1.7 INDEMNIFICATION

1.7.1 To the fullest extent permitted by law, the Design-Builder shall indemnify and hold harmless the Owner, Owner's consultants, and agents and employees of any of them from and against claims, damages, losses and expenses, including but not limited to attorneys' fees, arising out of or resulting from performance of the Work, provided that such claim, damage, loss or expense is attributable to bodily injury, sickness, disease or death or to injury to or destruction of tangible property other than the Work itself, but only to the extent caused by the negligent acts or omissions of the Design-Builder, Architect, or anyone directly or indirectly employed by them or anyone for whose acts they may be liable, regardless of whether or not such claim, damage, loss or expense is caused in part by a party indemnified hereunder. Such obligation shall not be construed to negate, abridge or reduce other rights or obligations of indemnity that would otherwise exist as to a party or person described within herein.

1.7.2 In claims against any person or entity indemnified under this section of the Agreement by an employee of the Design-Builder, Architect, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, the indemnification obligation shall not be limited by a limitation on amount or type of damages, compensation or benefits payable by or for the Design-Builder, the Architect under workers' compensation acts, disability benefit acts or other employee benefit acts.

1.8 **Claims for Consequential Damages.** Design-Builder and Owner waive Claims against each other for consequential damages arising out of or relating to the Agreement . This mutual waiver includes:

.1 damages incurred by the Owner for rental expenses, for losses of use, income, profit, financing, business and reputation, and for loss of management or employee productivity or of the services of such persons; and

.2 damages incurred by the Design-Builder for principal office expenses including the compensation of personnel stationed there, for losses of financing, business and reputation, and for loss of profit except anticipated profit arising directly from the Work.

This mutual waiver is applicable, without limitation, to all consequential damages due to either party's termination. Nothing contained in this section shall be deemed to preclude an award of liquidated direct damages, when applicable, in accordance with the requirements of the Design-Build Documents.

## 1.9 INSURANCE

The Design-Builder shall purchase and maintain such insurance as will protect it from claims which may arise out of, or result from, the Design-Builder's execution of the work, whether such execution be by the Design-Builder, any

Subconsultant or Subcontractor, or by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable.

The insurance shall be written for not less than the following limits, or greater if required by law:

.1 Workers' Compensation:

- (a) State: Statutory
- (b) Applicable Federal Statutory (e.g. Longshoremen's)
- (c) Employer's Liability: \$ 1,000,000 per Accident  
\$ 1,000,000 Disease, Policy Limit  
\$ 1,000,000 Disease, Each Employee

.2 Comprehensive or Commercial General Liability (Including Premises-Operations; Independent Design/Builders' Protective; Products and Completed Operations; Broad Form Property Damage):

- (a) Bodily Injury: \$ 1,000,000 Each Occurrence  
\$ 2,000,000 Aggregate
- (b) Property Damage \$ 1,000,000 Each Occurrence  
\$ 2,000,000 Aggregate
- (c) Products and Completed Operations to be maintained for years after final payment: \$ 2,000,000 Aggregate
- (d) Property Damaged Liability Insurance shall provide X, C and U coverage.
- (e) Broad Form Property Damage Coverage shall include Completed Operations.

.3 Contractual Liability:

- (a) Bodily Injury \$ 1,000,000 Each Occurrence  
\$ 2,000,000 Aggregate
- (b) Property Damage \$ 1,000,000 Each Occurrence  
\$ 2,000,000 Aggregate

.4 Personal Injury, with Employment Exclusion deleted: \$ 1,000,000 Aggregate

.5 Business Auto Liability (including owned, non-owned and hired vehicles):

- (a) Bodily Injury \$ Each Person  
\$ Each Occurrence
- (b) Property Damage \$ Each Occurrence
- (c) Combined Single Limit \$ 1,000,000 Combined Single Limit

.6 If the General Liability Coverages are provided by a Commercial Liability policy, the:

- (a) General Aggregate shall be not less than \$2,000,000 and it shall apply, in total, to this Project only.
- (b) Fire Damage Limit shall be not less than \$1,000,000 on any one fire.
- (c) Medical Expense Limit shall be not less than \$5,000 on any one person

.7 Umbrella Excess Liability: \$5,000,000 over primary insurance  
\$10,000 retention for self-insured hazards  
each occurrence.

.8 If an exposure exists, Aircraft Liability (owned and non-owned) and Watercraft Liability (owned and non-owned) with limits approved by the Owner shall be provided.

.9 The Contractor shall not commence Work under this Contract until he has obtained all the insurance required hereunder from an insurer authorized to do business in Virginia and such insurance has been approved by the Owner; nor shall the Contractor allow any Subcontractor to commence Work on his subcontract until the same types of insurance in an appropriate amount have been obtained by the Subcontractor and approved by the Contractor. Approval of insurance by the Owner shall not relieve or decrease the liability of the Contractor hereunder.

.10 The Contractor shall obtain and maintain in force during the contract period and for a period of 5 years after the final completion of the Work professional liability and errors and omission insurance in the amount of \$3,000,000 per claim and \$3,000,000 specific project excess limit.

## **2.0 WRITTEN NOTICE**

**2.1** Written notice shall be deemed to have been duly served if delivered in person to the individual or a member of the firm or entity or to an officer of the corporation for which it was intended, or if sent by registered or certified mail to the last business address known to the party giving notice.

## **2.2 TERMINATION OR SUSPENSION OF DESIGN/BUILD CONTRACT**

### **2.3 TERMINATION BY THE DESIGN-BUILDER**

**2.3.1** The Design-Builder may terminate the Design-Build Contract if the Work is stopped for a period of 30 consecutive days through no act or fault of the Design-Builder or a Contractor, Subcontractor or their agents or employees or any other

persons or entities performing portions of the Work under direct or indirect contract with the Design-Builder, for any of the following reasons:

- .1 issuance of an order of a court or other public authority having jurisdiction which requires all Work to be stopped;
- .2 an act of government, such as a declaration of national emergency which requires all Work to be stopped;
- .3 the Owner has failed to make payment to the Design-Builder in accordance with the Design-Build Documents; or
- .4 the Owner has failed to furnish to the Design-Builder promptly, upon the Design-Builder's request, reasonable evidence as required herein.

**2.3.2** If the Work is stopped for a period of 60 consecutive days through no act or fault of the Design-Builder or a Contractor or their agents or employees or any other persons performing portions of the Work under a direct or indirect contract with the Design-Builder because the Owner has persistently failed to fulfill the Owner's obligations under the Design-Build Documents with respect to matters important to the progress of the Work, the Design-Builder may, upon seven additional days' written notice to the Owner, terminate the Design-Build Contract and recover from the Owner as provided herein.

## **2.4 TERMINATION BY THE OWNER FOR CAUSE**

**2.4.1** The Owner may terminate the Design-Build Contract if the Design-Builder:

- .1 persistently or repeatedly refuses or fails to supply enough properly skilled workers or proper materials;
- .2 fails to make payment to Contractors for services, materials or labor in accordance with the respective agreements between the Design-Builder and the Architect and Contractors;
- .3 persistently disregards laws, ordinances or rules, regulations or orders of a public authority having jurisdiction; or
- .4 otherwise is guilty of substantial breach of a provision of the Design-Build Documents.

**2.4.2** When any of the above reasons exist, the Owner may without prejudice to any other rights or remedies of the Owner and after giving the Design-Builder and the Design-Builder's surety, if any, seven days' written notice, terminate employment of the Design-Builder and may, subject to any prior rights of the surety:

- .1 take possession of the site and of all materials, equipment, tools, and construction equipment and machinery thereon owned by the Design-Builder;
- .2 accept assignment of contracts; and
- .3 finish the Work by whatever reasonable method the Owner may deem expedient. Upon request of the Design-Builder, the Owner shall furnish to the Design-Builder a detailed accounting of the costs incurred by the Owner in finishing the Work.

**2.4.3** When the Owner terminates the Design-Build Contract for one of the reasons stated above, the Design-Builder shall not be entitled to receive further payment until the Work is finished.

**2.4.4** When the Owner terminates the Design-Build Contract for one of the reasons stated above and the costs and damages exceed the unpaid balance of the Contract, the Design-Builder shall pay the difference to the Owner.

## **2.5 SUSPENSION BY THE OWNER FOR CONVENIENCE**

**2.5.1** The Owner may, without cause, order the Design-Builder in writing to suspend, delay or interrupt the Work in whole or in part for such period of time as the Owner may determine.

**2.5.2** The Contract Sum and Contract Time shall be adjusted for increases in the cost and time caused by suspension, delay or interruption as described herein. Adjustment of the Contract Sum shall include profit. No adjustment shall be made to the extent:

- .1** that performance is, was or would have been so suspended, delayed or interrupted by another cause for which the Design-Builder is responsible; or
- .2** that an equitable adjustment is made or denied under another provision of the Design-Build Contract.

## **2.6 TERMINATION BY THE OWNER FOR CONVENIENCE**

**2.6.1** The Owner may, at any time, terminate the Agreement for the Owner's convenience and without cause.

**2.6.2** Upon receipt of written notice from the Owner of such termination for the Owner's convenience, the Design-Builder shall:

- .1** cease operations as directed by the Owner in the notice;
- .2** take actions necessary, or that the Owner may direct, for the protection and preservation of the Work; and
- .3** except for Work directed to be performed prior to the effective date of termination stated in the notice, terminate all existing contracts and purchase orders and enter into no further contracts and purchase orders.

**2.6.3** In the event of termination for the Owner's convenience prior to commencement of construction, the Design-Builder shall be entitled to receive payment for design services performed, costs incurred by reason of such termination and reasonable overhead and profit on design services not completed. In case of termination for the Owner's convenience after commencement of construction, the Design-Builder shall be entitled to receive payment for Work executed and costs incurred by reason of such termination, along with reasonable overhead and profit on the Work not executed.

# EXHIBIT B

## CLARIFICATIONS AND ADDITIONAL INFORMATION

INTERIM AGREEMENT  
BETWEEN  
RUSSELL COUNTY, VIRGINIA  
AND  
J.A. STREET & ASSOCIATES

DECEMBER 2020

RUSSELL COUNTY COURTHOUSE RENOVATION & EXPANSION

LEBANON, VIRGINIA

The following Clarifications and Additional Information shall precede the Detailed Stage Proposal submitted by J.A. Street & Associates dated November 19, 2020.

1. Owner and Design-Builder agree on a Contract Cost Limit (CCL) of \$15,250,457 which includes the scope of work defined as new finish carpentry millwork, wood trim, interior door replacement and interior glass at the existing building as defined in the RFP and related correspondence.
2. Design-Builder shall include an alternate for handicap access ramp at front entrance of the existing building.
3. Design-Builder to include an allowance of \$458,310 (\$15/SF) for finishes as the scope of this work will be further defined as design progresses.
4. Design-Builder to include builder's risk insurance for value of their contract. Owner to maintain property insurance on existing building structure.
5. No allowances for unsuitable materials, rock or special foundations are included in the CCL. Any unsuitable materials, rock, or special foundations will be identified following a geotechnical investigation and/or during construction.
6. Design-Builder to provide topographic survey and hazardous materials surveys as part of services under Interim Agreement.
7. Owner to provide court relocation services (if required), utility usage fees for temporary water and electricity during construction (except for temporary utilities for jobsite trailer), loose FF&E, surveillance cameras and security equipment such as X-ray and magnetometer as well as courtroom technology. Design-Builder to provide all necessary rough-ins.
8. Owner intends to pursue an Owner Direct Purchase (ODP) Process and will provide specifications language and assist Design-Builder with the ODP Process. Design-Builder agrees to reasonably participate in process to identify project cost savings.
9. Owner and Design-Builder agree to damages for delay in the form of liquidated damages in the amount of \$1,000 per day for each day in delay in achieving Substantial Completion and \$250 per day for each day in delay in achieving Final Completion. Final schedule will be determined at time of GMP negotiations.

**END**

# EXHIBIT C

## DESIGN STANDARDS AND PROCESSES

INTERIM COMPREHENSIVE AGREEMENT

BETWEEN

RUSSELL COUNTY, VIRGINIA

AND

J.A. STREET & ASSOCIATES

DECEMBER 2020

RUSSELL COUNTY COURTHOUSE RENOVATION & EXPANSION

LEBANON, VIRGINIA



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## **1. INTRODUCTION**

### **1.1. General**

These Design Standards and Processes provide guidance and standards for Design-Build architecture and engineering (“A-E”) services that are being provided by the Design-Builder for the Russell County Courthouse Renovation and Expansion project. The Design-Builder shall be responsible for ensuring that the A-E follows the guidance and standards. The Design-Builder shall be liable to Russell County, Virginia (“Owner”) if the A-E or those providing design services through the A-E fails to follow the guidance and standards, except as otherwise approved by the Owner. Wherever in this Exhibit C there is any requirement imposed on the A-E or any design professional, this shall be interpreted to mean that the Design-Builder shall cause the A-E or design professional to meet such requirement. Nothing in this Exhibit C shall be interpreted to create any privity of contract between the Owner and A-E, to create any warranty by Owner to Design-Builder, express or implied, regarding any of the design services, or to create any responsibility by the Owner or any acts or omissions by the A-E or those providing services through the A-E.

This Exhibit C is intended to assist the Design-Builder’s A-E and Owner and its Owner Representative by setting forth some of the general procedures to be followed for all of the Services to be provided by or through the A-E. This exhibit is not designed to be an exhaustive description of the work on the project, but rather to assist design professionals in understanding some of the details of the general requirements for A-E services for the project and describe the major deliverable submissions for interaction and approval by the Owner. This exhibit is intended to complement and supplement the Agreement, not to replace any of the terms of such documents.

The Owner will identify an Owner’s Representative and an Owner’s Review Committee who would be the key individuals to meet with the Design-Builder and A-E to develop, review and approve the design submissions. The Design-Builder shall coordinate through the Owner’s Representative as described in the Agreement.

### **1.2. Planning and Design Services**

Documents to assist with the planning and design of the Russell County Courthouse Renovation and Expansion project include:

- Virginia Courthouse Facility Guidelines, latest edition
- Clarifications and Additional Information (Exhibit B)
- Design Standards and Processes (this Exhibit C)

Any deviations from these documents must be approved by the Owner in writing.

Design services include all services by design professionals provided by Design-Builder pursuant to the Agreement and this Exhibit C hereto required to provide the final Construction Drawings and Specifications for the project and for any changes thereto and any construction administration services by design professionals. Design Services may include assisting Owner's Review Committee in the preparation of the Design Development and Construction Documents for the Russell County Courthouse Renovations and Addition project. References to "complete and accurate" drawings and specifications and such similar language, as used in this document and the Agreement, shall mean those documents will be prepared to a Professional Standard of Care. All design services shall meet the National, State, Russell County, and Town of Lebanon, VA Building Codes and Regulations and shall meet the Professional Standard of Care ("Standard of Care"), which shall be defined as the standard of performance for all design and construction administration services ("Design Services") under the Agreement and shall be the same professional standard of care and of quality as is ordinarily exercised under similar circumstances by design professionals providing similar services in similar projects in Virginia. The A-E shall devote its resources to the performance of the design services during the term of the Agreement in accordance with the Professional Standard of Care.

The design work shall include all necessary subcontractor and consultant design professionals, including, but not limited to, civil engineer (including all utility analysis, analysis for storm water, sanitary, water service, gas service, electrical power, telephone/data/communications, and geotechnical engineering (not already provided by Owner)), environmental consultant, traffic engineer, site lighting, architectural, landscaping, mechanical, electrical, plumbing, acoustical, structural, and security design services necessary for a complete and accurate set of final Construction Documents (drawings and specifications).

During design phase reviews, Design-Builder will provide for all printing and electronic copies of drawings and specifications necessary for review of the work product by the Owner's Representative and Review Committee. Electronic copies shall be made available through an accessible electronic platform. Costs

for printing of drawings and specifications shall be paid through a printing allowance included within the Not-to-Exceed Budget included within the Interim Agreement. Design-Builder's A-E will provide for design review and coordination meetings necessary to review project design documents. Meetings will be scheduled with the Owner's Representative to approve the design work product for compliance with this Exhibit C.

### **1.3. Construction Administration**

Construction administration services shall be provided by Design-Builder through its A-E and will only consist of review and approval of any submittals and shop drawings submitted prior to execution of the final Comprehensive Agreement or initiation of actual construction work.

## **2. Project Procedures for A-E**

### **2.1. General Project Procedures**

The Design-Builder and Design-Builder's A-E shall attend a "kick-off" meeting with the Owner's Representative and Review Committee to discuss procedures to be followed for the project and to review the scope of work and the A-E's services to be provided.

The Owner has reviewed the Conceptual Design documents included as Exhibit A to the Agreement and the Owner shall provide comments and changes to the proposed design and the Design-Builder will incorporate these comments into a Schematic Design (35%) submission in accordance with this Exhibit C and the requirements of the Agreement assuming the comments are considered reasonable.

The A-E, with any subcontractors, engineers, or consultants, will then begin the Schematic Design process. The following procedures are required, along with the specifics outlined elsewhere in this and other Contract Documents. This introductory list is intended to assist the A-E in knowing what is required by highlighting some of the Owner's requirements, but is not intended to be an exhaustive or exclusive list of project procedures. Other requirements and procedures will be provided by Owner or Owner's Representative for the design process and review.

All project documentation involving the A-E, including but not limited to meeting minutes, design review comments, correspondence, invoices, code enforcement comments, RFI's, supplemental instructions, formal sketches, site visit reports, and requests for proposals, must be documented by the A-E with copies provided promptly to the Owner and Owner's Representative.

At each phase of the design process, the A-E shall respond in writing to any Owner comments as soon as possible and address Owner comments in the subsequent design phase documents. Design-Builder shall update the project progress schedule at each phase of the design process.

If requested, the A-E shall record and submit to the Owner for comment and revision (before distribution to all parties), all meeting minutes, including but not limited to Owner's Review Committee meetings, code review meetings with Russell County and/or the Town of Lebanon, and submittal review meetings. AE shall address all Owner comments before distributing such documents.

Design reviews will take place after submission of each design phase with the Owner's Review Committee.

Any material deviations from the Design Standards and Processes must be provided to the Owner in writing under separate cover.

### **2.1.1. Reproduction, Design Reviews and Value Engineering**

Provide the Owner with at least four (4) sets of all Plans, Specifications, and calculations at each stage of the design which shall include one (1) full-size and three (3) half-size sets of plans. Deliver or ship these documents overnight as directed by the Owner's Representative. The cost of printing and shipping shall be paid out of the printing allowance included in the CCL or GMP. Materials shall also be made available electronically in pdf format and in CAD or Revit (3-D) if requested. The reimbursable costs shall be for reproduction costs only including file management, paper, bindings, and other material supplies, direct labor involved in printing and delivery charges.

Design reviews will take place at submission of each design phase: Schematic Design (35%), Design Development (65%) and Construction Documents (95%) with the Owner. These design reviews will also consider value engineering suggestions. Percentages refer to the percent of total design completion, not a

percent of each individual phase. A brief review will also be completed by the Owner's Representative at 100% design to ensure that all previous comments have been considered and incorporated. A presentation of the design documents shall be made by the Design-Builder prior to distribution of design documents for review at each stage.

The Owner's Representative and Review Committee shall have two (2) weeks to complete their review at each of the design phase submissions. The Design-Builder shall have one (1) week to review comments from the Owner's Representative and Review Committee and must provide a written response to each comment within one (1) week of the submission of review comments to the Owner's Representative. A formal reconciliation meeting shall be held to review each comment and response in an effort to close out each design review comment prior to the design progressing into the next phase. Design-Builder shall issue a "For Construction" set prior to start of construction work.

## **2.2. Procedures for Individual Phases of the Work**

### **2.2.1. Schematic Design (35%) Submission**

During the Schematic Design Phase, the A-E shall refine the design and produce construction documents and specifications that are at approximately 35% of the total design completion level which will enable accurate and efficient construction of the project.

#### **2.2.1.1. General Requirement – Schematic Design (SD) 35% Submission**

During the SD phase, the A-E shall produce 35% complete construction documents that enable the Design-Builder to produce a detailed estimate of cost for construction that is equal to or less than the Contract Cost Limit (CCL) established as part of this Interim Agreement.

The Schematic Design submission shall include, at a minimum, site plan, floor plans, exterior elevations, and narrative describing proposed materials and systems.

### **2.2.2. Design Development (65%) Submission**

During this phase, the A-E shall further refine the design and produce construction documents and specifications that are at approximately 65% of the total design completion level which will enable accurate and efficient construction of the project. The Design-Builder may provide the Owner with

a GMP at this stage of the project with detailed backup information as required in the Design-Build Agreement.

### **2.2.2.1 General Requirement – Design Development (DD) 65% Submission**

During the DD phase, the A-E shall produce 65% complete construction documents that enable the Design-Builder to produce an accurate estimate of cost that can be presented as a Contract Cost Limit (CCL) or Guaranteed Maximum Price (GMP) with detailed backup.

#### **1. Architectural – DD (65%)**

The following elements, by way of illustration and not limitation, shall be included in the drawings prepared during the Design Development phase:

- Perspectives (2 views minimum):
  - Color perspective drawings to illustrate the exterior design
  - Electronic file of the renderings
  - Two renderings (14" X 24" minimum) on foam boards
- Life Safety Plan showing a minimum:
  - Travel distances
  - Occupancy loads showing loads allowable and loads required by program requirement
  - Fire area tabulations
  - Area limitations
  - Fire wall and fire separation locations
  - Egress capacities of stairs and doorways
  - Rated assemblies, including wall, floor and ceiling assemblies
- Architectural Standards: The drawings and supporting materials produced in this phase of the work shall be consistent with a 65% level of design completion and include the elements listed below at the minimum scales shown:
  - 1/8" = 1'0" (minimum) Floor plans and notes
  - 1/8" = 1'0" (minimum) Elevations from all directions
  - 1/8" = 1'0" (minimum) Cross sections and details
  - 3/4" = 1'0" (minimum) Wall sections/details
  - 1/8" = 1'0" (minimum) Roof plan
  - 1/8" = 1'0" (minimum) Structural Framing and Foundation Plans
  - 1/8" = 1'0" (minimum) Structural Details

- 1 ½" = 1'0" (minimum) Architectural Details
- Architectural Drawings: The A-E shall develop CAD plans that are fully scaled. The drawings shall include:
  - Cover Sheet: Including drawing index and area tabulations of all programmed spaces listing square footages.
  - Door, window, and hardware schedules: The A-E shall prepare the preliminary door and window schedule information that will, at a minimum, indicate new doors, windows and frames and labeled door assemblies. Also provide a preliminary hardware schedule.
  - Finish Schedule: The A-E will prepare preliminary finish schedules that include, at a minimum, the following information: finish types for walls, floors and ceilings, special finishes required for specialized areas including the courtrooms and judges' chambers. All finishes included shall be "basis of design" for construction. Final Owner approval of finishes will be required once actual suppliers have been identified.
  - Reference/overall plan(s) at 1/8" minimum scale outlining scope and including room names, occupancy loads, and building and site handicap accessibility features, such as elevators, lifts, ramps, and toilet facilities.
  - Show proposed locations for coordination of MEP items including roof drain piping and lower ceilings due to HVAC, structural or plumbing coordination issues.
  - Equipment and Furnishing Floor Plans: Include programmed room names and preliminary equipment layouts for specialized spaces. Owner approval of these specialized spaces will be required before commencement of the subsequent design phase.
  - Elevations clearly demonstrating the scope of work. At a minimum the elevations will indicate major design features and general types of materials to be used in order to demonstrate design integrity and will show overall vertical dimensions.
  - Sections: The A-E will provide typical building sections and wall sections to illustrate proposed building materials, methods, dimensions, and insulation values.



- Details: The A-E will prepare architectural details which show, at a minimum, preliminary cross sections (1/4" = 1'0" and wall sections (3/4" = 1'0") showing major construction features and material.
- Roof Plan showing major rooftop equipment, roof membrane system, and drainage. Show location of roof drains and vertical piping on all plans so that they may be properly enclosed by architectural detailing.
- Fireproofing coordination with structural. All fireproofing in completed building should be concealed from view. Only properly sized exposed steel painted with fire-rated intumescent paints may be left exposed.
- Architectural Specifications: A-E will provide a draft copy of the fully developed specifications.

## 2. Mechanical Systems – DD (65%) Submission

- **General Requirements**

- Commissioning process to be integrated with plan reviews and specifications. Owner's commissioning agent (CxA) will provide A-E with commissioning specifications.
- Provide index for Specifications including all sections that will be a part of the final mechanical system construction documents.
- Provide heating and cooling block and room loads for entire building.
- Provide control sequences and strategies for the operation of the building HVAC system.
- Provide a copy of preliminary natural gas load letter as submitted to the natural gas utility.
- Provide a formal response to any design review comments from the Owner's Representative or Review Committee made prior to submission of DD (65%) documents.

- **Drawing Requirements**

- Provide cover sheet with symbols list, notes, and air handling zone designations.
- Provide separate drawings showing all floor plans with temperature control zones and panel locations.
- Provide room names on all floor plans.
- Provide floor plans showing equipment locations, piping, and ductwork. Identify all pieces of equipment, size of piping and ductwork.
- Provide mechanical room layouts. Show sections of all mechanical rooms and provide finalized sections through any bulkheads. Show approximate locations/tonnage/capacities of mechanical equipment.
- Provide finalized boiler room plan showing equipment layout.
- Provide air handling zone air balance diagrams, including supply air to room and exhaust air.
- Provide coordination of phasing requirements.
- Begin equipment schedules and detail sheets.

### 3. Electrical Systems – DD (65%) Submission

The design of the electrical system, unless the A-E is otherwise directed, shall include the following elements:

- **General Requirements:**

- Provide an index for Specifications indicating all sections that will be a part of the final electrical system construction documents.
- Provide a written description of the proposed new lighting system for each type of space.
- Provide a written description of the proposed new electrical power distribution system identifying major items of equipment and their proposed locations. Include the electrical service characteristics and generally identify what items are to be fed at what voltage. This description should include the new emergency power system (if required).
- Provide a brief written description of each new proposed special system (fire alarm, security, sound and

intercommunications, master clock, auxiliary sound system, telecommunications, lightning protection, etc.). Identify major items of new equipment and their proposed locations.

- Provide a copy of the foot-candle level calculation for each room. One calculation may be used for any room of the same use group that is the same size.
- Provide cut sheets of proposed lighting fixtures.
- Provide the names and addresses of the power company, cable television, and telephone company contacts for the project.
- Provide a copy of the preliminary electrical load letter as submitted to the electrical utility company.
- Provide a formal response to any design review comments from the Owner's Representative or Review Committee made prior to submission of DD (65%) documents.

- **Drawing Requirements:**

- Provide a cover sheet to include at least the symbols list, abbreviations list, and list of drawings.
- Provide an updated computer generated photometric site lighting plan indicating the point-by point maintained foot-candle levels. This plan must correspond with and accompany the lighting layout shown on the electrical site plan.
- Provide an electrical site plan indicating the following:
  - Proposed site lighting
  - Proposed plan for site temporary electrical power during construction
  - Location of the main electrical equipment room
  - Proposed power company transformer location
  - Generator and fuel tank
  - Property lines
  - All existing utility and lighting poles
  - All existing overhead and/or underground electrical utilities (power, telecommunications)
  - North arrow.

- Provide an overall floor plan for each level showing a proposed power layout with locations of power receptacles. This plan shall also include:
  - Proposed locations and layouts of all electrical equipment rooms, communications rooms, kitchen and boiler rooms (if applicable) indicating the location and identification of each piece of equipment including the major normal and emergency electrical service and distribution equipment.
  - Indicate the major normal and emergency electrical service and distribution equipment.
  - Include the proposed electrical (primary and secondary), telephone, and cable television service entrance.
  - Indicate all new and existing underground and overhead utility lines (gas and water, etc.) that may affect the electrical work.
  - Include any site lighting and electrical utilities and any applicable electrical site plan details, such as poles base secondary electrical service entrance ductbank, main grounding, etc.
  - Provide room names and numbers on all plans.
  - Show the required power connections to architectural, mechanical, plumbing, and kitchen equipment including disconnects and control devices.

- Provide floor plans for each level indicating the new lighting layout in each space. Where no lighting can be shown at this time due to ongoing design coordination with other disciplines, provide a detailed written description of the final layout and type of lighting fixtures to be used. These plans shall also show:
  - Branch circuit connections to branch panel circuit boards.
  - All illuminated exit signs.
  - Emergency lighting fixtures and circuits.
  - The method of lighting control for each space.

- Lighting fixture type designations.
- Room names and numbers.
- Foot-candle level designations.
- Provide electrical panel schedules including load summary and space capacity.
- Notes referenced on these plans shall be shown on the same plan as the reference.
- Provide floor plans for each level indicating the locations of all applicable systems that may include fire alarm, master program clock, PA system, telecommunications system and CATV system equipment and devices, and building security system equipment and devices including their interconnections. Indicate the location and identification of each item of control and enunciator panels and equipment, and the building security. The plan shall also include the location of the separate enunciator panel for the emergency generator (if required), which should be shown next to the fire alarm enunciator. The plan shall also include the proposed fire alarm and building security zones.
- Provide a detail of the fire alarm graphic enunciator panel faceplate. All notes referenced on these plans shall be shown on the same plan as the reference.
- Provide drawings for the main distribution switchboard, panel board, transformer, and lighting fixture schedules and a power system load tabulation schedule.
- Provide a power riser diagram showing electrical service entrance and distribution equipment, emergency service equipment, grounding system, and their associated interconnections. Label each item of equipment. Also provide an isometric elevation and one-line diagram of the main distribution switchboard.
- Diagram technology distribution and points.

#### **4. Plumbing Systems – DD (65%) Submission**

- **General Requirements:**

- Provide an index for Specifications indicating all sections that will be a part of the final construction documents.
  - Provide completed Town of Lebanon and/or Russell County department of public works form requirements (if applicable).
  - Provide a copy of the letter as submitted to the utility company(s).
  - Provide a formal response to any design review comments from the Owner's Representative or Review Committee made prior to submission of DD (65%) documents.
- **Drawing Requirements:**
    - Provide a cover sheet to include symbols list, sprinkler service detail, fixture connection schedule with mounting heights. Provide schedule showing overall drainage fixture units. Allow additional space for notes and other details.
    - Provide separate drawings for all floor plans showing the following:
      - Show appropriate locations of new water, sanitary, storm and gas piping mains on overall new work plan. Show locations of all rain leaders on all floor plans and roof level.
      - Identify all handicap fixtures (water closets, lavatories, and water coolers).
      - Coordinate gas meter location (if applicable).
      - Show utility entrances, water heaters, and phasing requirements. Provide notes and details.
      - Provide room names on all floor plans.

## 5. Sprinkler Systems – DD (65%) Submission

- **General Requirements:**
  - Obtain hydrant information from water authority. Indicate on drawings and specifications that the sprinkler system is shown for guidance or intent only, and the contractor is required to design the system, obtain

permits, obtain Fire Marshal approval, provide, and install the system.

- Designate where sprinkler system is dry pipe and where it is wet pipe.
- Verify whether adequate street pressure exists for sprinkler system. Provide index for specifications indicating all sections that will be a part of the final sprinkler system construction documents.
- The Design-Builder is responsible to provide any fire pump or water pressure booster pumps required for the project.
- Provide a formal response to any design review comments from the Owner's Representative or Review Committee made prior to submission of DD (65%) documents.

- **Drawing Requirements:**

- Provide overall plan showing proposed zoning of sprinkler system and NFPA hazard classification. Each floor shall be zoned separately. Coordinate zones with fire alarm zones (each sprinkler zone shall be subdivided into multiple fire alarm zones).
- Coordinate and finalize sprinkler zones for fire protection system. Provide overall plan scaled at 1/8" (minimum) showing approximate locations of sprinkler mains in building, Siamese connection, and the sprinkler service entrance and building exterior hydrant coverage.
- Shall all main piping routing, service entrance, manifold system, zone valves, inspector test valve locations, phasing requirements and details such as service manifold system, hangers, and branch over details, etc.

## 6. Civil and Structural – DD (65%) Submission

- **General Requirements:**

- Provide structural calculations for work reflected in drawings and specifications.

- Provide a formal response to any design review comments from the Owner’s Representative or Review Committee made prior to submission of DD (65%) documents.

## **7. Cost Estimate – DD (65%) Submission**

Provide cost estimate based upon market feedback for work not self-performed by the Design-Builder.

For cost estimate of work self-performed by the Design-Builder, or performed by the designed MEP design-build subcontractor (if applicable), provide a detailed labor and material type cost estimate consistent with Advancement of Cost Engineering (AACE) practices. Organize by CSI division listing all materials, equipment, and systems necessary to construct the facility.

Once the 65% drawings and other work performed in the Design Development phase are accepted by the Owner (after reconciliation of design review comments and evaluation of the cost estimate), the Design-Builder shall obtain an approval letter for this phase of the work and this letter will incorporate permission to proceed to the Construction Documents phase.

### **2.2.3. Construction Documents (CD) (95%) Submission**

#### **2.2.3.1 Architectural – CD (95%) Submission**

##### **1. General Requirements:**

- The A-E shall prepare the 95% Construction Documents, including plans, drawings, details, and final draft specifications and submit them to the Owner at least one week prior to the 95% review meeting. At the review meeting, the Design-Builder and A-E will present the 95% Construction Document, and will respond to questions and comments on the design. The Design-Builder shall ensure that sufficient persons, including subcontractors and



consultants, attend the review meeting so that responses can be provided.

- Subsequent to the 95% review meeting with Owner, the A-E shall:
  - Incorporate all comments or requirements relating and resulting from the review meeting into the Construction Documents.
  - Respond to all previous comments from Owner or Owner’s Review Committee on the design.
  - Lack of inter-discipline coordination, incompleteness in design of structural or MEP systems, or overall lack of drawing completeness at this phase may result in additional review session(s) which shall be provided at no additional cost to the Owner. Completeness of submitted documents to avoid disruptions of schedule is essential.
  - Submit plans to Russell County and/or the Town of Lebanon and other agencies having jurisdiction for building permit and approvals.

## **2. Drawing Requirements:**

The A-E shall develop and submit the following documents in the Construction Documents phase:

- Provide “letters of agreement” sheet showing any additional documentation of code meetings subsequent to Construction Documents phase. The A-E shall continue to be responsible for preparing letters to the code official, with copies to the Owner, documenting any agreements on compliance with code requirements.
- Finalized overall Life Safety Plan showing, at a minimum, code data travel distances, occupancy loads, and fire area tabulations.
- The drawings and supporting materials produced in this phase of the project shall include the elements listed below at the minimum scales shown:
  - Cover Sheet: Including drawing index and area tabulations of all programmed spaces.
  - Door, window, and hardware schedules: The A-E will prepare the final door and window schedule information

that will indicate new doors, windows and frames and labeled door assemblies. Provide hardware schedule on the same sheet.

- Finish Schedule: The A-E will prepare final finish schedules that include the following information: finish types for walls, floors and ceilings, special finishes required for specialized areas including the courtrooms and judges' chambers.
  - Equipment and Fixture Schedules outlining all Contractor supplied items.
  - Reference/overall plan(s) at 1/8" minimum scale outlining scope and including room names, occupancy loads, and building and site handicap accessibility features, such as elevators, lifts, ramps, and toilet facilities. Plans should be fully coordinated with MEP and Structural Drawings.
  - Equipment and Furnishings Plans 1/8" = 1'-0" minimum (showing equipment and furnishings to be provided by Design-Builder. Include programmed room names, final equipment layouts for specialized spaces such as courtrooms and judges' chambers.
  - Elevations clearly demonstrating the scope of work including rooms listed in Equipment and Furnishings Plans. The elevations will define major design features, dimensions and materials to be used. 1/8" = 1'-0" minimum.
  - Sections: The A-E will provide typical building sections and wall sections to illustrate proposed building materials, methods, dimensions, and insulation values. 1/8" = 1'-0" minimum.
  - Details: The A-E will prepare architectural details which show cross sections (1/8" = 1'-0") and wall sections (3/4" = 1'-0") showing major construction features and material.
  - Roof Plan showing major rooftop equipment, roof membrane system, and drainage. 1/8" = 1'-0" minimum.
- The Owner's Representative and Review Committee will review the 95% CD submittal. The A-E shall review and respond to all review comments and incorporate comments into the 100% Construction Documents.

### **3. Mechanical Systems – CD (95%) Submission**

The design of the mechanical system, unless the A-E is otherwise directed, shall include the following elements:

- **General Requirements**
  - Provide complete specifications including index all sections that will be a part of the final contract documents.
  - Answer and respond to all intermediate submission comments.
  
- **Drawing Requirements**
  - Commissioning process to be integrated with plan reviews and specifications.
  - Complete the mechanical cover sheet with symbols list, notes and temperature control zone diagram. Provide code and energy analysis, titles, and complete floor plans.
  - Complete equipment schedules and detail sheets.
  - Provide separate drawings showing all floor plans. Provide floor plans showing equipment locations, piping, and ductwork. Identify all pieces of equipment, size of piping and ductwork. Provide mechanical room layouts. Show sections of all mechanical rooms and provide finalized sections through any bulkheads. Provide finalized boiler room plan.
  - Coordinate floor plans with other disciplines.
  - Provide room names and numbers on all floor plans.
  - Check that all title block information has been completed on each drawing and that each drawing contains a key plan (where applicable).

### **4. Electrical Systems – CD (95%) Submission**

The design of the electrical system, unless the A-E is otherwise directed, shall include the following elements:

- **General Requirements:**

- Provide a copy of the completed electrical specification including a table of contents listing each electrical specification section to be used for the project.
- Provide a copy of the final electrical load letter sent to the electrical utility company.
- Provide copies of the transmittals for information sent to the telephone and cable television companies.
- Provide the names and addresses of the power company, cable television, and telephone company contacts for this project.

- **Drawing Requirements:**

- Complete the electrical cover sheet. Insure that all symbols and abbreviations used on this project are included as well as the list of drawings.
- Complete the electrical site plan including all new and existing utility information and site lighting branch circuit wiring. Add proposed electrical (primary and secondary), telephone, and cable television service entrance. Indicate all new and/or existing underground and overhead utility lines (gas and water, etc.) that may affect the electrical work. Add any existing site lighting and electrical utilities that are to be removed. Add any applicable electrical site plan details (pole base secondary electrical service entrance duct back, main grounding, etc.).
- Provide an updated computer generated photometric site lighting plan indicating the point-by-point maintained foot-candle levels. This plan must correspond with and accompany the lighting layout shown on the electrical site plan.
- Provide floor plans indicating the new lighting layout in each space. These plans shall also show branch circuit connections to corridor junction boxes, all illuminated exit signs, which lighting fixtures are to be connected to emergency lighting circuits, the method of lighting control for each space, lighting fixture type designations, room names and numbers, and foot-candle level designations. Room names, numbers, and foot-candle levels may be

scheduled on each floor plan. The locations of all lighting branch circuit panelboards shall be shown on these plans. All notes referenced on these plans shall be shown on the same plan as the reference.

- Provide floor plans indicating the power receptacles and CATV outlets and their branch circuit connection to corridor junction boxes. These plans shall also show the required power connections to all architectural, mechanical, plumbing, and kitchen equipment including disconnects and control devices. Show a plan for the Main Communications Room and each electrical/communications equipment room, kitchen and boiler rooms if applicable indicating the location and identification of each piece of equipment. All notes referenced on these plans shall be on the same plan as the reference.
- Complete the lighting plans including all branch circuit wiring and identification of equipment. Identification shall include electrical characteristics for each item of equipment.
- Complete the fire alarm, master program clock, and building security system plans including all interconnection wiring and security zone indications. Indicate the location and identification of each item of control and annunciation equipment, and the building security sub-distribution equipment locations. Provide a detail of the fire alarm graphic annunciator panel faceplate. All notes referenced on these plans shall be shown on the same plan as the reference.
- Provide drawings for the main distribution switchboard, panelboard, transformer, and lighting fixture schedules and a power system load tabulation schedule.
- Complete the sound and intercommunications system, auxiliary sound systems, telecommunications system, CATV system plans including all interconnection wiring, speaker zone indications, and telecommunications outlet identification numbers.

- Provide a power riser diagram showing all electrical service entrance and distribution equipment, emergency service equipment, grounding system, and their associated interconnections. Label each item of equipment. Also provide an isometric elevation and a one-line diagram of the main distribution switchboard.
- Coordinate floor plans with other disciplines.
- Check that all title block information has been completed on each drawing and that each drawing contains a key plan (where applicable).

## 5. Plumbing Systems – CD (95%) Submission

The design of the plumbing system, unless the A-E is otherwise directed, shall include the following elements:

- **General Requirements:**

- Complete all sections of the specifications. Provide an index for specifications indicating all sections that will be a part of the final construction documents.

- **Drawing Requirements:**

- Complete cover sheet with symbols list, sprinkler service detail, fixture connection schedule with mounting heights. Provide schedule showing overall drainage fixture units. Allow additional space for notes and other details. Add titles.
- Provide complete riser diagrams for all piping systems, including pipe sizes.
- Complete floor plans, details, and schedules. Provide floor plans showing all fixtures, utility entrances, water heaters. Provide notes and details.
- Coordinate floor plans with other disciplines and coordinate phasing requirements.
- Provide room names on all floor plans.
- Provide domestic hot water calculations on cover sheet.
- Provide drainage fixture unit schedules on cover sheet showing types of fixtures removed and added for project.

- Check that all title block information has been completed on each drawing and that each drawing contains a key plan (where applicable).

## **6. Sprinkler Systems – CD (95%) Submission**

- **General Requirements:**

- The A-E will provide a Final Performance specification for the sprinkler system.

- **Drawing Requirements:**

- Complete all details.
- Show all main piping routing, service entrance, manifold system, zone valves, inspector test valve locations, phasing requirements and details such as service manifold system, hangers, and branch over details, etc.
- Provide final phasing coordination.
- Provide sections of sprinkler piping located in tight areas, where any question may arise as to the implementation of piping requirements.
- Coordinate floor plans with other disciplines and coordinate phasing requirements.
- Provide room names, NFPA hazard classification, and numbers on all floor plans.
- Check that all title block information has been completed on each drawing and that each drawing contains a key plan (if applicable).

## **7. Civil and Structural – CD (95%) Submission**

- Provide final structural calculations with a table of contents and clear relationships to drawings and specifications.

## **8. Cost Estimate – CD (95%) Submission**

Provide an updated cost estimate based upon market feedback. Provide a detailed labor and material type cost estimate and organize by CSI division.

#### **2.2.4 A-E Construction Documents (100%)**

- **General (100%) Requirements**
  - The A-E will prepare the 100% Construction Documents, including drawings, details, and specifications and submit them to the Owner at least one week prior to the 100% review meeting. At the review meeting, the Design-Builder and A-E will present the 100% Construction Documents and will respond to questions and comments to the design in writing (can be in the form of meeting minutes). The Design-Builder will ensure that sufficient persons, including subcontractors and consultants, attend the review meeting so that responses can be provided.
  - The A-E will develop and provide the following during the 100% Construction Documents phase:
    - Complete construction Specifications
    - Complete civil, architectural, MEP, sprinkler, and structural drawings
    - Construction documents that comply with all requirements for final Russell County and/or Town of Lebanon or other agency submission, if applicable.
    - Provide responses to all previous comments received during design review not previously responded to.
    - Incorporate all comments resulting from building permit applications.
    - Prepare final set of documents for use for construction.
    - Lack of inter-discipline coordination, incompleteness in design of structural or MEP systems, or overall lack of drawing completeness at this phase may result in additional review session(s) beyond the final meeting, which shall be provided at no additional cost to the Owner. Completeness of submitted documents to avoid disruptions of schedule is essential.



- Once all adjustments and corrections are made to the 100% Construction Documents, the A-E will present them to the Owner for approval of the final design.
- Subsequent to the 100% review meeting with Owner, the A-E shall accomplish the following:
  - Incorporate all comments or requirements relating to compliance with the Specifications and resulting from the review meeting into the Construction Documents.
  - If required, send one (1) complete, signed and sealed set of Construction Documents (drawings) and Specifications (or as many as they require) with the required signed design statement by the architect or engineer to Russell County and/or the Town of Lebanon for their record.

#### **2.2.5 Construction Phase**

The A-E shall expeditiously and so as not to delay the progress of the work, review and take action on shop drawings, samples and other submittals of the Design-Builder for conformance with the design concept of the project and for compliance with information given in the Construction Documents. The Design-Builder shall obtain the approval of the Owner's Representative prior to approving any items that do not conform to the requirements of the approved Construction Documents.

**END**

<u>DESIGN OUTLINE SCHEDULE</u>	<u>DURATION</u>	<u>TARGET START</u>	<u>TARGET FINISH</u>
OAC Pre-Construction Kickoff	1 weeks	12/14/20	12/20/20
Schematic Design Drawings	6 weeks	12/21/20	1/31/21
Owner Review and Approval of Schematic Design	2 weeks	2/1/21	2/14/21
Design Development Drawings (Phased Construction Start)	4 weeks	2/15/21	3/14/21
Design Development Budgeting	2 weeks	3/15/21	3/28/21
Complete Construction Documents for GMP Pricing	8 weeks	3/29/21	5/23/21
Generate GMP Pricing Proposal	4 weeks	5/24/21	6/20/21
<b>DESIGN DELIVERY DURATION TOTAL</b>	<b>27 weeks</b>		<b>6/21/21</b>

**CONSTRUCTION SCHEDULE** **22 months**  
*Construction Schedule Can Vary by Scope, Occupancy and Phasing Requirements*  
*Design and Construction Schedule Can Overlap with Phased Delivery Agreement*

# EXHIBIT I

## RUSSELL COUNTY VIRGINIA

### REQUIRED GENERAL TERMS AND CONDITIONS

- A. **VENDORS MANUAL:** This solicitation is subject to the provisions of the Commonwealth of Virginia *Vendors Manual* and any changes or revisions thereto, which are hereby incorporated into this contract in their entirety.
- B. **APPLICABLE LAWS AND COURTS:** This solicitation and any resulting contract shall be governed in all respects by the laws of the Commonwealth of Virginia, without regard to its choice of law provisions, and any litigation with respect thereto shall be brought in the County's Circuit Court. The County and the contractor are encouraged to resolve any issues in controversy arising from the award of the contract or any contractual dispute using Alternative Dispute Resolution (ADR) procedures (*Code of Virginia*, § 2.2-4366). ADR procedures are described in Chapter 9 of the *Vendors Manual*. The contractor shall comply with all applicable federal, state, and local laws, rules, and regulations.
- C. **ANTI-DISCRIMINATION:** By submitting their (bids/proposals), (bidders/offerors) certify to the that they will conform to the provisions of the Federal Civil Rights Act of 1964, as amended, as well as the Virginia Fair Employment Contracting Act of 1975, as amended, where applicable, the Virginians With Disabilities Act, the Americans With Disabilities Act and § 2.2-4311 of the *Virginia Public Procurement Act (VPPA)*. If the award is made to a faith-based organization, the organization shall not discriminate against any recipient of goods, services, or disbursements made pursuant to the contract on the basis of the recipient's religion, religious belief, refusal to participate in a religious practice, or on the basis of race, age, color, gender sexual orientation, gender identity, or national origin and shall be subject to the same rules as other organizations that contract with public bodies to account for the use of the funds provided; however, if the faith-based organization segregates public funds into separate accounts, only the accounts and programs funded with public funds shall be subject to audit by the public body. (*Code of Virginia*, § 2.2-4343.1E).

In every contract over \$10,000 the provisions in 1. and 2. below apply:

1. During the performance of this contract, the contractor agrees as follows:
  - a. The contractor will not discriminate against any employee or applicant for employment because of race, religion, color, sex, sexual orientation, gender identity, national origin, age, disability, or any other basis prohibited by state law relating to discrimination in employment, except where there is a bona fide occupational qualification reasonably necessary to the normal operation of the contractor. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause.
  - b. The contractor, in all solicitations or advertisements for employees placed by or on behalf of the contractor, will state that such contractor is an equal opportunity employer.
  - c. Notices, advertisements, and solicitations placed in accordance with federal law, rule or regulation shall be deemed sufficient for the purpose of meeting the requirements of this section.
  - d. If the contractor employs more than five employees, the contractor shall (i) provide annual training on the contractor's sexual harassment policy to all supervisors and employees.
  - e. The requirements of these provisions 1. and 2. are a material part of the contract. If the Contractor violates one of these provisions, the County may terminate the affected part of this contract for

breach, or at its option, the whole contract. Violation of one of these provisions may also result in debarment from State contracting regardless of whether the specific contract is terminated.

- f. In accordance with Executive Order 61 (2017), a prohibition on discrimination by the contractor, in its employment practices, subcontracting practices, and delivery of goods or services, on the basis of race, sex, color, national origin, religion, sexual orientation, gender identity, age, political affiliation, disability, or veteran status, is hereby incorporated in this contract.

2. The contractor will include the provisions of 1. above in every subcontract or purchase order over \$10,000, so that the provisions will be binding upon each subcontractor or vendor.

D. **ETHICS IN PUBLIC CONTRACTING:** By submitting their (bids/proposals), (bidders/offerors) certify that their (bids/proposals) are made without collusion or fraud and that they have not offered or received any kickbacks or inducements from any other (bidder/offeror), supplier, manufacturer, or subcontractor in connection with their (bid/proposal), and that they have not conferred on any public employee having official responsibility for this procurement transaction any payment, loan, subscription, advance, deposit of money, services or anything of more than nominal value, present or promised, unless consideration of substantially equal or greater value was exchanged.

E. **IMMIGRATION REFORM AND CONTROL ACT OF 1986:** Applicable for all contracts over \$10,000: By entering into a written contract with the County, the Contractor certifies that the Contractor does not, and shall not during the performance of the contract for goods and services, knowingly employ an unauthorized alien as defined in the federal Immigration Reform and Control Act of 1986.

F. **DEBARMENT STATUS:** By participating in this procurement, the vendor certifies that they are not currently debarred by the Commonwealth of Virginia from submitting a response for the type of goods and/or services covered by this solicitation. Vendor further certifies that they are not debarred from filling any order or accepting any resulting order, or that they are an agent of any person or entity that is currently debarred by the Commonwealth of Virginia.

If a vendor is created or used for the purpose of circumventing a debarment decision against another vendor, the non-debarred vendor will be debarred for the same time-period as the debarred vendor.

G. **ANTITRUST:** By entering into a contract, the contractor conveys, sells, assigns, and transfers to the County all rights, title and interest in and to all causes of action it may now have or hereafter acquire under the antitrust laws of the United States and the Commonwealth of Virginia, relating to the particular goods or services purchased or acquired by the County under said contract.

H. **CLARIFICATION OF TERMS:** If any prospective (bidder/offeror) has questions about the specifications or other solicitation documents, the prospective (bidder/offeror) should contact the County or County Agent whose name appears on the face of the solicitation no later than five working days before the due date. Any revisions to the solicitation will be made only by addendum issued by the buyer.

I. **PAYMENT:**

1. To Prime Contractor:

- a. Invoices for items ordered, delivered and accepted shall be submitted by the contractor directly to the payment address shown on the purchase order/contract. All invoices shall show the contract number and/or purchase order number; social security number (for individual contractors) or the federal employer identification number (for proprietorships, partnerships, and corporations).
- b. Any payment terms requiring payment in less than 30 days will be regarded as requiring payment 30 days after invoice or delivery, whichever occurs last. This shall not affect offers of discounts for payment in less than 30 days, however.

- c. All goods or services provided under this contract or purchase order, that are to be paid for with public funds, shall be billed by the contractor at the contract price.
- d. The following shall be deemed to be the date of payment: the date of postmark in all cases where payment is made by mail, or when offset proceedings have been instituted as authorized under the Virginia Debt Collection Act.
- e. **Unreasonable Charges.** Under certain emergency procurements and for most time and material purchases, final job costs cannot be accurately determined at the time orders are placed. In such cases, contractors should be put on notice that final payment in full is contingent on a determination of reasonableness with respect to all invoiced charges. Charges which appear to be unreasonable will be resolved in accordance with *Code of Virginia*, § 2.2-4363 and -4364. Upon determining that invoiced charges are not reasonable, the County shall notify the contractor of defects or improprieties in invoices within fifteen (15) days as required in *Code of Virginia*, § 2.2-4351. The provisions of this section do not relieve the County of its prompt payment obligations with respect to those charges which are not in dispute (*Code of Virginia*, § 2.2-4363).

2. To Subcontractors:

- a. Within seven (7) days of the contractor's receipt of payment, a contractor awarded a contract under this solicitation is hereby obligated:
  - (1) To pay the subcontractor(s) for the proportionate share of the payment received for work performed by the subcontractor(s) under the contract; or
  - (2) To notify the County and the subcontractor(s), in writing, of the contractor's intention to withhold payment and the reason.

- 3. Each prime contractor who wins an award in which provision of a SWaM procurement plan is a condition to the award, shall deliver to the contracting County, on or before request for final payment, evidence, and certification of compliance (subject only to insubstantial shortfalls and to shortfalls arising from subcontractor default) with the SWaM procurement plan. Final payment under the contract in question may be withheld until such certification is delivered and, if necessary, confirmed by the County or institution, or other appropriate penalties may be assessed in lieu of withholding such payment.

J. **PRECEDENCE OF TERMS:** The following General Terms and Conditions *VENDORS MANUAL*, *APPLICABLE LAWS AND COURTS*, *ANTI-DISCRIMINATION*, *ETHICS IN PUBLIC CONTRACTING*, *IMMIGRATION REFORM AND CONTROL ACT OF 1986*, *DEBARMENT STATUS*, *ANTITRUST*, *MANDATORY USE OF STATE FORM AND TERMS AND CONDITIONS*, *CLARIFICATION OF TERMS*, *PAYMENT* shall apply in all instances. In the event there is a conflict between any of the other General Terms and Conditions and any Special Terms and Conditions in this solicitation, the Special Terms and Conditions shall apply.

K. **QUALIFICATIONS OF (BIDDERS/OFFERORS):** The County may make such reasonable investigations as deemed proper and necessary to determine the ability of the (bidder/offeror) to perform the services/furnish the goods and the (bidder/offeror) shall furnish to the County all such information and data for this purpose as may be requested. The County reserves the right to inspect (bidder's/offeror's) physical facilities prior to award to satisfy questions regarding the (bidder's/offeror's) capabilities. The County further reserves the right to reject any (bid/proposal) if the evidence submitted by, or investigations of, such (bidder/offeror) fails to satisfy the County that such (bidder/offeror) is properly qualified to carry out the obligations of the contract and to provide the services and/or furnish the goods contemplated therein.

L. **TESTING AND INSPECTION:** The County reserves the right to conduct any test/inspection it may deem advisable to assure goods and services conform to the specifications.

- M. **ASSIGNMENT OF CONTRACT:** A contract shall not be assignable by the contractor in whole or in part without the written consent of the County.
- N. **CHANGES TO THE CONTRACT:** Changes can be made to the contract in any of the following ways:
1. The parties may agree in writing to modify the terms, conditions, or scope of the contract. Any additional goods or services to be provided shall be of a sort that is ancillary to the contract goods or services, or within the same broad product or service categories as were included in the contract award. Any increase or decrease in the price of the contract resulting from such modification shall be agreed to by the parties as a part of their written agreement to modify the scope of the contract.
  2. The County may order changes within the general scope of the contract at any time by written notice to the contractor. Changes within the scope of the contract include, but are not limited to, things such as services to be performed, the method of packing or shipment, and the place of delivery or installation. The contractor shall comply with the notice upon receipt, unless the contractor intends to claim an adjustment to compensation, schedule, or other contractual impact that would be caused by complying with such notice, in which case the contractor shall, in writing, promptly notify the County of the adjustment to be sought, and before proceeding to comply with the notice, shall await the County's written decision affirming, modifying, or revoking the prior written notice. If the County decides to issue a notice that requires an adjustment to compensation, the contractor shall be compensated for any additional costs incurred as the result of such order and shall give the County a credit for any savings. Said compensation shall be determined by one of the following methods:
    - a. By mutual agreement between the parties in writing; or
    - b. By agreeing upon a unit price or using a unit price set forth in the contract, if the work to be done can be expressed in units, and the contractor accounts for the number of units of work performed, subject to the County's right to audit the contractor's records and/or to determine the correct number of units independently.
- O. **DEFAULT:** In case of failure to deliver goods or services in accordance with the contract terms and conditions, the County, after due oral or written notice, may procure them from other sources and hold the contractor responsible for any resulting additional purchase and administrative costs. This remedy shall be in addition to any other remedies which the County may have.
- P. **TAXES:** Sales to the County are normally exempt from State sales tax. State sales and use tax certificates of exemption will be issued upon request. Deliveries against this contract shall usually be free of Federal excise and transportation taxes.
- Q. **USE OF BRAND NAMES:** Unless otherwise provided in this solicitation, the name of a certain brand, make or manufacturer does not restrict (bidders/offers) to the specific brand, make or manufacturer named, but conveys the general style, type, character, and quality of the article desired. Any article which the public body, in its sole discretion, determines to be the equivalent of that specified, considering quality, workmanship, economy of operation, and suitability for the purpose intended, shall be accepted. The (bidder/offeror) is responsible to clearly and specifically identify the product being offered and to provide sufficient descriptive literature, catalog cuts and technical detail to enable the Commonwealth to determine if the product offered meets the requirements of the solicitation. This is required even if offering the exact brand, make or manufacturer specified. Normally in competitive sealed bidding only the information furnished with the bid will be considered in the evaluation. Failure to furnish adequate data for evaluation purposes may result in declaring a bid nonresponsive. Unless the (bidder/offeror) clearly indicates in its (bid/proposal) that the product offered is an equivalent product, such (bid/proposal) will be considered to offer the brand name product referenced in the solicitation.
- R. **TRANSPORTATION AND PACKAGING:** By submitting their (bids/proposals), all (bidders/offers) certify and warrant that the price offered for FOB destination includes only the actual freight rate costs at the lowest and best rate and is based upon the actual weight of the goods to be shipped. Except as otherwise specified

herein, standard commercial packaging, packing, and shipping containers shall be used. All shipping containers shall be legibly marked or labeled on the outside with purchase order number, commodity description, and quantity.

- S. **INSURANCE:** By signing and submitting a bid or proposal under this solicitation, the bidder or offeror certifies that if awarded the contract, it will have the following insurance coverage at the time the contract is awarded. For construction contracts, if any subcontractors are involved, the subcontractor will have workers' compensation insurance in accordance with §§ 2.2-4332 and 65.2-800 et seq. of the *Code of Virginia*. The bidder or offeror further certifies that the contractor and any subcontractors will maintain these insurance coverages during the entire term of the contract and that all insurance coverage will be provided by insurance companies authorized to sell insurance in Virginia by the Virginia State Corporation Commission.

**MINIMUM INSURANCE COVERAGES AND LIMITS:**

1. Workers' Compensation - Statutory requirements and benefits. Coverage is compulsory for employers of three or more employees, to include the employer. Contractors who fail to notify the County of increases in the number of employees that change their workers' compensation requirements under the *Code of Virginia* during the course of the contract shall be in noncompliance with the contract.
2. Employer's Liability - \$100,000.
3. Commercial General Liability - \$1,000,000 per occurrence and \$2,000,000 in the aggregate. Commercial General Liability is to include bodily injury and property damage, personal injury and advertising injury, products and completed operations coverage. The Commonwealth of Virginia shall be added as an additional insured to the policy by an endorsement.
4. Automobile Liability - \$1,000,000 combined single limit. (Required only if a motor vehicle not owned by the Commonwealth is to be used in the contract. Contractor must assure that the required coverage is maintained by the Contractor (or third-party owner of such motor vehicle.)

<b><u>Profession/Service</u></b>	<b><u>Limits</u></b>
Architecture	\$2,000,000 per occurrence, \$6,000,000 aggregate
Asbestos Design, Inspection Contractors	\$1,000,000 per occurrence, \$3,000,000 aggregate
Landscape/Architecture	\$1,000,000 per occurrence, \$1,000,000 aggregate
Professional Engineer	\$2,000,000 per occurrence, \$6,000,000 aggregate
Surveying	\$1,000,000 per occurrence, \$1,000,000 aggregate

- T. **ANNOUNCEMENT OF AWARD:** Upon the award or the announcement of the decision to award a contract as a result of this solicitation, the County will publicly post such notice on the DGS/DPS eVA VBO ([www.eva.virginia.gov](http://www.eva.virginia.gov)) for a minimum of 10 days.

- U. **DRUG-FREE WORKPLACE:** Applicable for all contracts over \$10,000:

During the performance of this contract, the contractor agrees to (i) provide a drug-free workplace for the contractor's employees; (ii) post in conspicuous places, available to employees and applicants for employment, a statement notifying employees that the unlawful manufacture, sale, distribution, dispensation, possession, or use of a controlled substance or marijuana is prohibited in the contractor's workplace and specifying the actions that will be taken against employees for violations of such prohibition; (iii) state in all solicitations or advertisements for employees placed by or on behalf of the contractor that the contractor maintains a drug-free workplace; and (iv) include the provisions of the foregoing clauses in every subcontract or purchase order of over \$10,000, so that the provisions will be binding upon each subcontractor or vendor.

For the purposes of this section, "drug-free workplace" means a site for the performance of work done in connection with a specific contract awarded to a contractor, the employees of whom are prohibited from

engaging in the unlawful manufacture, sale, distribution, dispensation, possession or use of any controlled substance or marijuana during the performance of the contract.

V. **NONDISCRIMINATION OF CONTRACTORS:** A bidder, offeror, or contractor shall not be discriminated against in the solicitation or award of this contract because of race, religion, color, sex, sexual orientation, gender identity, national origin, age, disability, faith-based organizational status, any other basis prohibited by state law relating to discrimination in employment or because the bidder or offeror employs ex-offenders unless the state agency, department or institution has made a written determination that employing ex-offenders on the specific contract is not in its best interest. If the award of this contract is made to a faith-based organization and an individual, who applies for or receives goods, services, or disbursements provided pursuant to this contract objects to the religious character of the faith-based organization from which the individual receives or would receive the goods, services, or disbursements, the public body shall offer the individual, within a reasonable period of time after the date of his objection, access to equivalent goods, services, or disbursements from an alternative provider.

W. **eVA BUSINESS-TO-GOVERNMENT VENDOR REGISTRATION, CONTRACTS, AND ORDERS:**

The eVA Internet electronic procurement solution, web site portal [www.eVA.virginia.gov](http://www.eVA.virginia.gov), streamlines and automates government purchasing activities in the Commonwealth. The eVA portal is the gateway for vendors to conduct business with state agencies and public bodies. All vendors desiring to provide goods and/or services to the County shall participate in the eVA Internet e-procurement solution by completing the free eVA Vendor Registration. All bidders or offerors must register in eVA and pay the Vendor Transaction Fees specified below; failure to register will result in the bid/proposal being rejected.

Vendor transaction fees are determined by the date the original purchase order is issued and the current fees are as follows:

- a. For orders issued July 1, 2014, and after, the Vendor Transaction Fee is:
  - (i) DSBSD-certified Small Businesses: 1%, capped at \$500 per order.
  - (ii) Businesses that are not DSBSD-certified Small Businesses: 1%, capped at \$1,500 per order.
- b. Refer to Special Term and Condition "eVA Orders and Contracts" to identify the number of purchase orders that will be issued as a result of this solicitation/contract with the eVA transaction fee specified above assessed for each order.

The specified vendor transaction fee will be invoiced, by the Commonwealth of Virginia Department of General Services, typically within 60 days of the order issue date. Any adjustments (increases/decreases) will be handled through purchase order changes.

X. **SET-ASIDES IN ACCORDANCE WITH THE SMALL BUSINESS ENHANCEMENT AWARD PRIORITY:**

This solicitation is set-aside for award priority to DSBSD-certified micro businesses or small businesses when designated as "Micro Business Set-Aside Award Priority" or "Small Business Set-Aside Award Priority" accordingly in the solicitation. DSBSD-certified micro businesses or small businesses also includes DSBSD-certified women-owned and minority-owned businesses when they have received the DSBSD small business certification. For purposes of award, bidders/offerors shall be deemed micro businesses or small businesses if and only if they are certified as such by DSBSD on the due date for receipt of bids/proposals.

Z. **BID PRICE CURRENCY:** Unless stated otherwise in the solicitation, bidders/offerors shall state bid/offer prices in US dollars.

AA. **AUTHORIZATION TO CONDUCT BUSINESS IN THE COMMONWEALTH:** A contractor organized as a stock or nonstock corporation, limited liability company, business trust, or limited partnership or registered as a registered limited liability partnership shall be authorized to transact business in the Commonwealth as a domestic or foreign business entity if so, required by Title 13.1 or Title 50 of the Code



of Virginia or as otherwise required by law. Any business entity described above that enters into a contract with a public body pursuant to the *Virginia Public Procurement Act* shall not allow its existence to lapse or its certificate of authority or registration to transact business in the Commonwealth, if so, required under Title 13.1 or Title 50, to be revoked or cancelled at any time during the term of the contract. A public body may void any contract with a business entity if the business entity fails to remain in compliance with the provisions of this section.

**BB. CIVILITY IN STATE WORKPLACES:** The contractor shall take all reasonable steps to ensure that no individual, while performing work on behalf of the contractor or any subcontractor in connection with this agreement (each, a "Contract Worker"), shall engage in 1) harassment (including sexual harassment), bullying, cyber-bullying, or threatening or violent conduct, or 2) discriminatory behavior on the basis of race, sex, color, national origin, religious belief, sexual orientation, gender identity or expression, age, political affiliation, veteran status, or disability.

The contractor shall provide each Contract Worker with a copy of this Section and will require Contract Workers to participate in County training on civility in the State workplace if contractor's (and any subcontractor's) regular mandatory training programs do not already encompass equivalent or greater expectations. Upon request, the contractor shall provide documentation that each Contract Worker has received such training.

For purposes of this Section, "State workplace" includes any location, permanent or temporary, where a Commonwealth employee performs any work-related duty or is representing his or her agency, as well as surrounding perimeters, parking lots, outside meeting locations, and means of travel to and from these locations. Communications are deemed to occur in a State workplace if the Contract Worker reasonably should know that the phone number, email, or other method of communication is associated with a State workplace or is associated with a person who is a State employee.

The County may require, at its sole discretion, the removal and replacement of any Contract Worker who the County reasonably believes to have violated this Section.

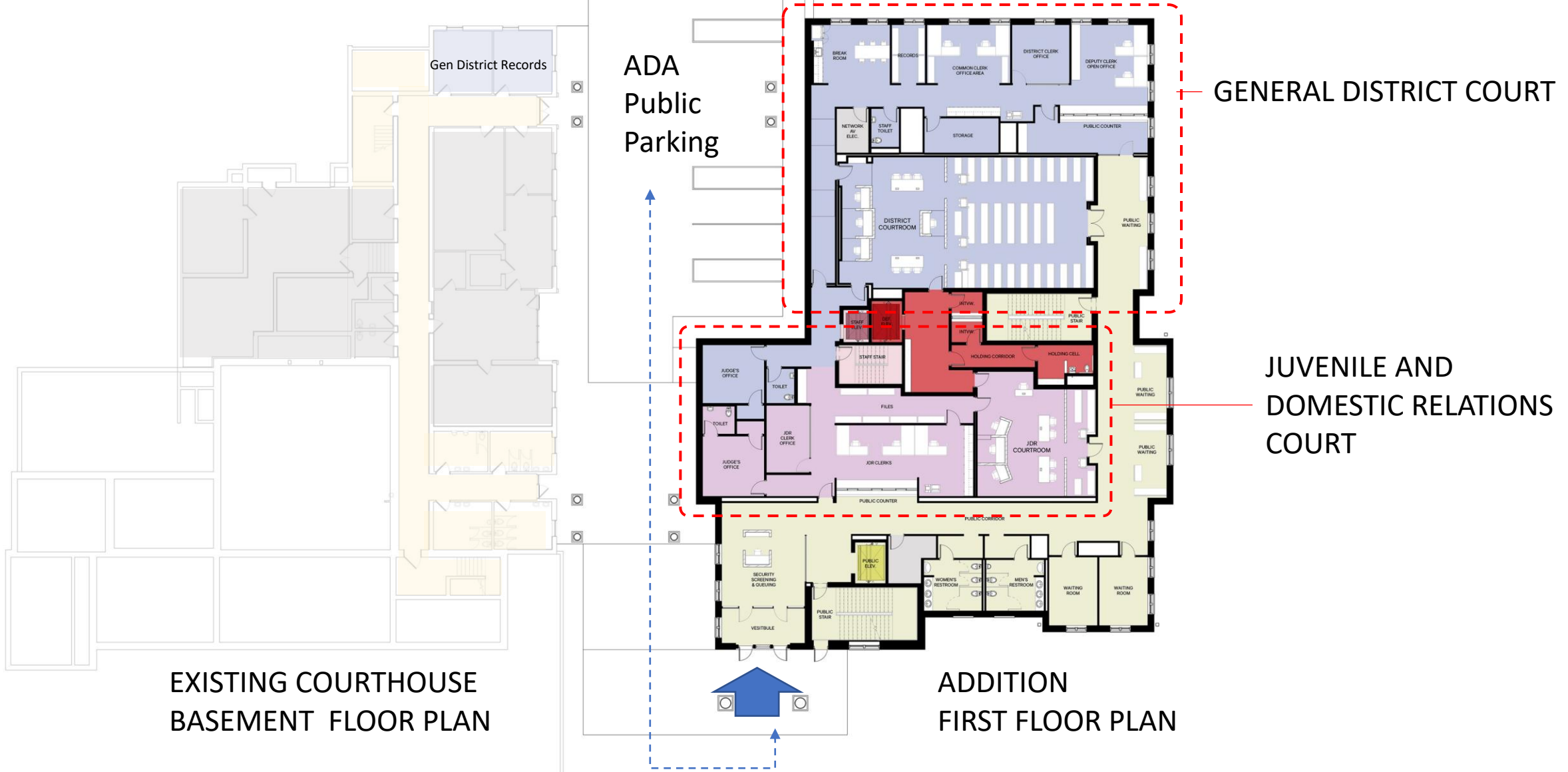
This Section creates obligations solely on the part of the contractor. Employees or other third parties may benefit incidentally from this Section and from training materials or other communications distributed on this topic, but the Parties to this agreement intend this Section to be enforceable solely by the Commonwealth and not by employees or other third parties.

# RUSSELL COUNTY COURTHOUSE NEW ADDITION AND RENOVATIONS

SCHEMATIC DESIGN PHASE SPACE PLANNING REVIEW

GENERAL DISTRICT COURT  
JUVENILE AND DOMESTIC RELATIONS COURT

January 29, 2021



Gen District Records

ADA  
Public  
Parking

GENERAL DISTRICT COURT

JUVENILE AND  
DOMESTIC RELATIONS  
COURT

EXISTING COURTHOUSE  
BASEMENT FLOOR PLAN

ADDITION  
FIRST FLOOR PLAN

BREAK ROOM  
RECORDS  
COMMON CLERK OFFICE AREA  
DISTRICT CLERK OFFICE  
DEPUTY CLERK OPEN OFFICE

NETWORK & ELEC.  
STAFF TOILET  
STORAGE  
PUBLIC COUNTER

DISTRICT COURTROOM

PUBLIC WAITING

STAFF STAIR  
STAFF STAIR  
HOLDING CORRIDOR  
HOLDING CELL

PUBLIC STAIR

JUDGE'S OFFICE  
TOILET  
JDR CLERK OFFICE  
JDR CLERKS  
JDR COURTROOM

PUBLIC WAITING

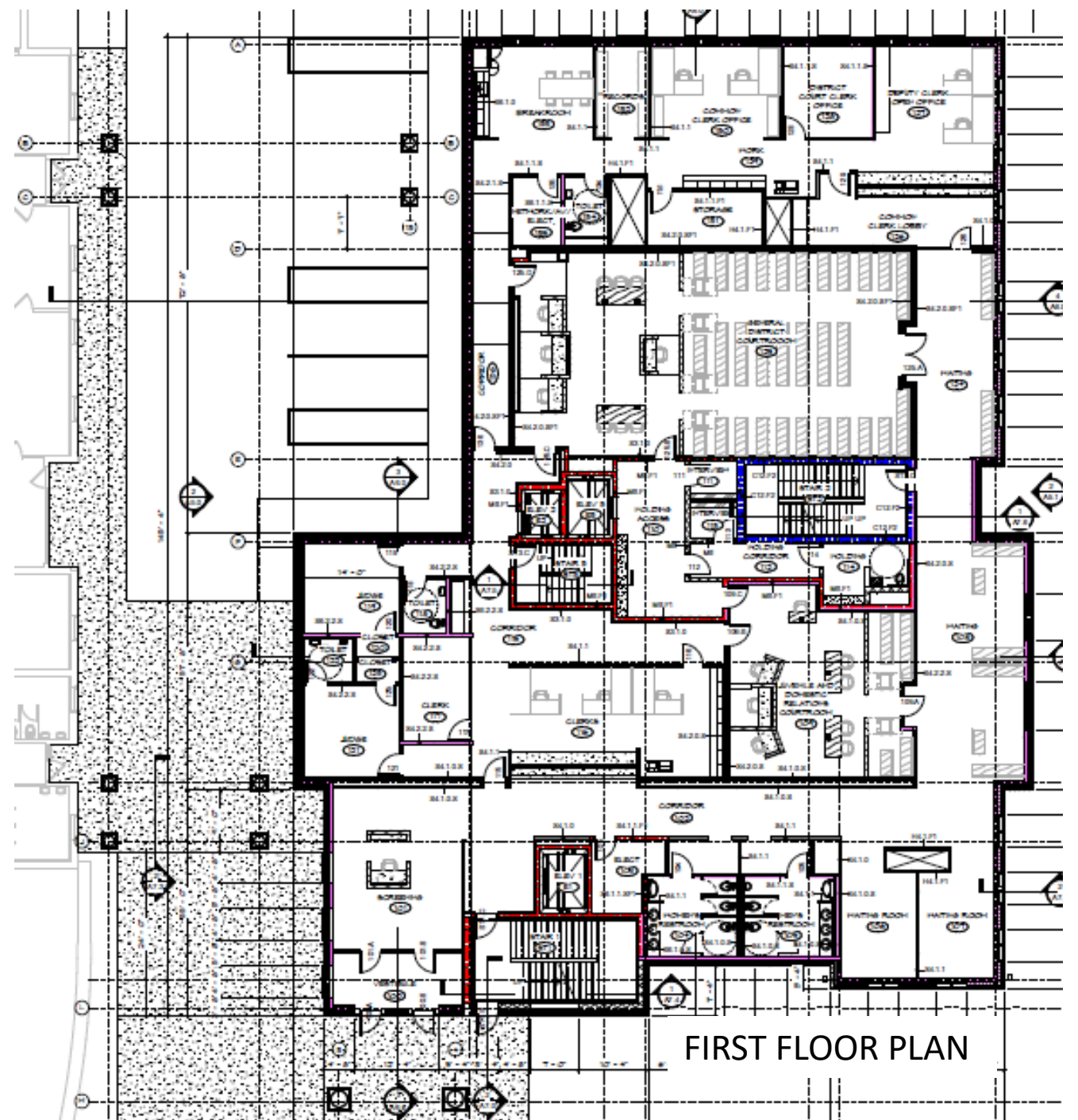
PUBLIC WAITING

SECURITY SCREENING & QUEUING  
VESTIBULE  
PUBLIC STAIR  
WOMEN'S RESTROOM  
MEN'S RESTROOM  
WAITING ROOM  
WAITING ROOM

PUBLIC ELEV.



FIRST FLOOR PLAN



FIRST FLOOR PLAN



EXISTING COURTHOUSE  
1<sup>ST</sup> FLOOR PLAN

ADDITION SECOND FLOOR PLAN



BASEMENT FLOOR PLAN

# GEOTECHNICAL EXPLORATION REPORT



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## RUSSELL COUNTY COURTHOUSE PROPOSED EXPANSION LEBANON, VIRGINIA

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CLIENT: RUSSELL COUNTY, VIRGINIA

REPORT DATE: JANUARY 28, 2021

FSE PROJECT NUMBER: 221104





# Foundation Systems Engineering, P.C.

Geotechnical Engineering and Consulting

January 28, 2021

Mr. Curtis Elswick, Senior Vice President  
Skanska USA Building Inc.  
c/o  
Mr. Lonzo Lester  
County Administrator  
Russell County, Virginia  
137 Highland Drive  
Lebanon, Virginia 24266


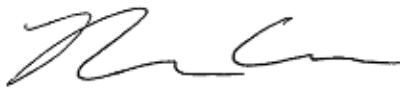
**RE: GEOTECHNICAL EXPLORATION REPORT  
RUSSELL COUNTY COURTHOUSE  
PROPOSED EXPANSION  
MAIN STREET  
LEBANON, VIRGINIA  
FSE FILE NO.: 221104**

Dear Mr. Lester:

Per your authorization of FSE Proposal 21.101, we have completed a geotechnical exploration of the above referenced site. The purpose of the exploration was to gather site and subsurface information from which to provide engineering recommendations concerning site preparation methods, foundation design, and other construction considerations. The following report presents our findings and recommendations. Our services have been provided using the firms of Foundation Systems Engineering, P.C. (FSE) and Construction Materials Laboratory (CML).

We have appreciated the opportunity to provide our geotechnical engineering and testing services. If you have any questions regarding the information within this report, please contact us at your convenience.

Sincerely,  
Foundation Systems Engineering, P.C.



Nick Cross, P.E.  
Geotechnical Engineer

George R. Cross, P.E.  
Senior Geotechnical Engineer  
Virginia No.: 34415



GRC/NGC/kec





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 Area Geology Map  
 Laboratory Data  
 Test Descriptions  
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## EXECUTIVE SUMMARY

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The proposed project includes the construction of a new building addition for the Russell County Courthouse on Main Street in Lebanon, Virginia.

A summary of our findings and recommendations is listed below.

- The subsurface conditions on the site were explored with the use of eleven (11) soil test borings and two (2) auger borings. At the test locations, the soil borings encountered fill, alluvial and residual soil, and weathered bedrock.
- Fill (man-made) soil was encountered at two (2) of the soil test boring locations, B-4 and -5. The fill soil encountered was generally characterized as a tan, brown and red, silt and clay with some sand and limestone gravel. The fill soil was encountered with generally a soft to medium consistency and a very moist to wet water content at depths up to approximately 4 feet below the existing ground surface at these test locations. Additionally, gravel ground cover was encountered in the parking areas. This gravel extended up to approximately 2.5 feet below the existing ground surface at test location B-6.
- Alluvial (native) soil was encountered at one (1) of the soil test boring locations, B-4. The alluvial soil encountered was characterized as brown, red and tan, silt and clay. The alluvial soil was encountered with a soft to medium consistency and a wet water content. At this location, the alluvial soil was interpreted as extending to the top of weathered bedrock at approximately 9.5 feet below existing ground surface.
- Residual (native) soil was encountered at ten (10) of the soil test boring locations, all locations with the exception of B-4. The residual soil encountered generally was characterized as a tan, brown, red, high plasticity, silt and clay with some sand. The residual soil was encountered with a medium to stiff consistency and a very moist to wet water content and extended in depth to the top of weathered bedrock.
- Auger refusal occurred at all the drilled locations at depths ranging from approximately 1 to 18 feet below the existing ground surface. The auger refusal occurred at elevations which varied from approximately 2027.5 to 2059 feet above msl, based on provided site topographic mapping. At all test locations the refusal material was interpreted as weathered dolomite bedrock. The bedrock material was not sampled.
- At the time of drilling, groundwater was not encountered at the boring locations. Changes in groundwater elevations will occur during wet weather periods.
- It is our opinion, that with owner consideration given to the development risk factors, that the site could be developed for the intended use. The risk factors of primary concern include the possibility of differential settlement resulting from non-uniform soil to bedrock depth conditions, shallow bedrock, the presence of soils with variable consistency, and construction over karst geology.
- We offer two methods for the foundational support of the proposed structure. The first option includes the structure being supported on shallow foundations over an improved reinforced soil raft building pad. The second option includes a portion of the structure being supported on shallow foundations bearing directly on native bedrock and a portion of the proposed structure being supported on deep foundation micropiles, which transfer the foundation loads to the underlying bedrock.

- **OPTION 1:** Due to the site subsurface conditions, the building pad area should be prepared by constructing a reinforced earth raft over a portion of the proposed footprint. This site preparation method provides increased strength and uniformity for support of shallow foundations to limit total and differential building settlement. This option is considered less conservative than option 2.
- **Earth Raft Support of Shallow Foundations:** The site preparation method for the building area should include construction of a compacted, reinforced soil raft where bedrock is not encountered above a specified elevation. The prepared area should include 10 feet outside of the building perimeter and to variable depths based on existing topography.

The earth raft will include two (2) layers of a type II biaxial geogrid (Tensar BX1200 or engineer approved equivalent). The first layer will be placed over the ground surface after clearing, grubbing and removal of old fill soil and prior to new fill soil placement. The placement elevation of this first layer of geogrid will vary from approximately elevation 2040 to 2034 feet. The second layer will be placed at approximately elevation 2040 feet or approximately 6 foot below planned subgrade elevation. Where native, bedrock is encountered above elevation 2040, placement of geogrid will not be required. All fill soil placement shall conform to the *Recommendations* section of this report.

Prior to placement of the first layer of geogrid and new fill material, the ground surface should be proofrolled to identify areas of soft soils and evaluated by the geotechnical engineer. All identified soft/fill soil should be over excavated to suitable soil conditions.

The construction of the described earth raft is anticipated to take place over the middle and eastern area of the proposed structure. Over the western area of the proposed structure shallow bedrock above elevation 2040 feet is expected.

Shallow foundations are recommended for the support of the structure with this site preparation method.

A figure illustrating this typical method is included in this report.

**OPTION 2:** This method of foundation support of the structure consists of a combination of both shallow and deep foundations. Additional geotechnical evaluation will be required to provide rock parameters for design of the deep foundations.

- **Deep Foundation-Micropile Support:** Where soil overburden depths prevent the foundational support of shallow foundations on bedrock (or stone fill over the bedrock), the foundations should be supported using micropiles as deep foundation support elements that transfer the load into the underlying bedrock. Building column and wall foundation loads are transferred to the piles with pile caps and grade beams. In order to provide micropile design information, additional geotechnical evaluation will be required.
- **Shallow Bedrock** - Shallow rock was encountered at the soil test locations, above the planned FFE. Rock removal methods will be required during site grading, foundation construction, and utility installation where bedrock is encountered. The condition of the bedrock was not evaluated for this report.

Where bedrock exists at the foundation bearing elevation, the rock should be over excavated to 1 foot below the bottom of the foundation elevation and backfilled with a suitable select compacted stone fill material. Consideration should be given to over excavating rock from the building areas for foundation and utility construction.

- **Sinkhole activity is present in the area.** New sinkhole activity can be induced by grading into existing features, poor drainage conditions, poor utility trench backfill methods, use of open

graded gravel in utility line bedding, loss of seal around subsurface storm drain lines, or from leaking pipes, etc.

- Structures supported on soil overlying soluble carbonate rock units are at risk of damage resulting from sinkhole activity. Practices to reduce risk can be implemented, but risk cannot be eliminated.
- The excavated onsite soil is not recommended for use as a structural fill material. A suitable, offsite fill soil should be approved by the project geotechnical engineer.
- The site grading and foundation construction should be performed under the observation of a geotechnical engineer to assist with continued evaluation of soil conditions during the construction process.
- This summary should be used in conjunction with the entire report for design purposes. Details were not included or fully developed in this section, and the report must be read in its entirety for a comprehensive understanding of the items contained herein. The section titled *General Qualifications* should be read for an understanding of the report limitations.



## SCOPE OF SERVICES

Item	Description
<b>Information Reviewed</b>	<ul style="list-style-type: none"> <li>• USGS Topographic Mapping, Lebanon, VA Quadrangle (1992)</li> <li>• Geologic Mapping of Southwest Virginia “<i>Virginia Division of Mineral Resources, 1993</i>”</li> <li>• 2015 International Building Code</li> <li>• Historical Satellite Mapping of Abingdon (dated 1998 to 2019)</li> <li>• <i>Proposed Site Plan</i> with existing topographic mapping by: Appalachia Design Services and dated: January 21, 2019</li> </ul>
<b>Site Recon Observations for:</b>	<ul style="list-style-type: none"> <li>• Topographic features</li> <li>• Drainage patterns</li> <li>• Ground surface cover</li> <li>• Surface improvements</li> <li>• Exposed rock</li> <li>• Ground instability</li> <li>• Karst features</li> </ul>
<b>Soil Test Borings</b>	<ul style="list-style-type: none"> <li>• Eleven (11) soil test borings advanced to auger refusal or predetermined depths with a CME 75 drill rig</li> <li>• Standard Penetration Testing (SPT), 4 tests in upper 10 feet, 1 every 5 feet thereafter</li> <li>• Observation of soil for type, consistency, and moisture content</li> <li>• Backfilled each boring location with soil cuttings</li> <li>• Soil test borings were located in the field by FSE using the site drawing provided</li> </ul>
<b>Auger Borings</b>	<ul style="list-style-type: none"> <li>• Two (2) auger borings advanced to auger refusal with a CME 75 drill rig</li> <li>• Backfilled each boring location with soil cuttings</li> <li>• Soil test borings were located in the field by FSE using the site drawing provided</li> </ul>
<b>Laboratory Testing</b>	<ul style="list-style-type: none"> <li>• Thirty (30) Natural Moisture Contents</li> <li>• Two (2) Atterberg Limits Determinations</li> <li>• Two (2) Soil Particle Size Gradations</li> <li>• One (1) Standard Proctor</li> </ul>
<b>Groundwater Measurement</b>	Groundwater measurements made at the time of drilling.



## PROJECT DESCRIPTION

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Item	Description
<b>Project Location</b>	Main Street Lebanon, Virginia
	The project site exists on the sloped parking area to the east of the existing Russell County Courthouse building.
<b>Project Information</b>	General - Construction of a new building at the Russell County Courthouse property
	Structure (provided) - Two-story building with a basement on a concrete slab on grade, below grade walls, and associated pavement areas.
	Structure (assumed) - Load bearing steel columns, load bearing walls, reinforced concrete slab on grade.
	Building Finish Floor Elevation - 2046.68 (Basement)
	2062.68 (First Floor)
	2076.68 (Second Floor)
	Foundation Loads (Assumed) - Max Column Load = 150 kips (assumed)
	Max Wall Load = 3 kips/ft (assumed)
	Soil and Rock Excavation - Yes, up to approx. 17 feet
	Soil Fill Placement - Yes, up to approx. 12 feet
Soil Embankments - Possible	
Below Grade and Retaining Walls - Yes	
Pavement - Light and heavy duty asphalt and concrete	

## SITE DESCRIPTION

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Item	Description
<b>Current/ Past Site Use</b>	Ground Cover - Gravel, grassed yard, asphalt pavement, an existing building, and concrete sidewalks
	Drainage Patterns - The site is situated on the side of a hill with a fall in elevation occurring in a west to east direction. There are areas to the west that are upgradient to the project site that will contribute to offsite surface runoff entering the site. The surface runoff from the project site will flow in a west to east direction. A drainage ditch borders the site on its north side that transports water from upgradient areas to the west. A blue line feature is mapped to the east of the project site.
	Exposed Bedrock - None observed, shallow bedrock encountered at the test locations.

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Karst Activity - None observed, the under lying geology is susceptible to karst activity. Numerous sinkholes are mapped in the areas surrounding the project site.

Existing Use - The site is primarily used as parking space. Benches have been created using cut and fill grading methods to create level space. At the southeast corner of the site there is an existing structure, used as government office space.

Past Use - From the review of the project Phase 1 ESA, the project site has been used as the site of a courthouse for Russell County going back to approximately 1874. Prior to this site was undeveloped.

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## Topography

USGS Mapping - The general topography throughout the area consists of alternating valleys and ridges. USGS mapping shows ground contour lines at a 40-foot interval. The project site is mapped approximately between the 2000- and 2080 -foot contour lines. The 2040-foot contour lines traverses the project site in a north-south direction. Topographic relief occurs in a west to east direction over the property. In unnamed blue line feature is mapped to the east of the project site along the bottom of natural, drainage conveyance.

Site Topography provided - The provided site topographic mapping shows the project site to be mapped between the 2030- and 2063- foot ground contour lines. Topographic relief occurs in a west to east direction. Three benches with a roughly level ground surface have been built into the hill side. The top bench ground surface varies from approximately 2060- and 2063-foot ground contours. A retaining wall exists between the top bench and the middle bench that is up to approximately 10 feet in height. The middle bench ground surface varies from approximately 2050- to 2055-foot ground contours with a slight south to north fall. A slope exists between the middle bench and the bottom bench with a slope height of up to approximately 10 foot. The bottom bench is mapped from approximately 2045- to 2038-foot ground contours with a slight south to north fall. A slope exists between the bottom bench and Mill Street to the east of the site. This slope has a height of up to approximately 10 feet. The bottom of the slope at Mill Street is mapped at approximately the 2030-foot ground contour.

Site Observations - The project site has been modified by past activity. The roughly level benches have been built into the hill using cut and fill grading methods.

Karst Activity - Indication of karst activity was not observed at the project site.

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## Regional Geology

The project site is located in the Valley and Ridge physiographic province of Southwest Virginia. A review of published geologic mapping indicates that the subject site is located over sedimentary bedrock of the Nolichucky and Honaker formations.

The Nolichucky and Honaker formations are described as dolomitic shale and dolomite.

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Localized concentration of bedding planes; fractures and other discontinuities often result in weathering and decomposition extending to greater depths into the subsurface profile. Ridges or lenses of weathering resistant rock form pinnacles and ledges of unweathered rock extending nearly to the ground surface. The localized greater depths of decomposition, solution cavities and rock pinnacles all combine to form what is a highly irregular rock surface profile.

**Karst Considerations**

Sedimentary bedrock containing dolomite and limestone material is subject to karst activity or the formation of closed ground depressions known as sinkholes.

A review of USGS topographic and site mapping provided do not map sinkhole formations on the project site. However, there are sinkhole formations in the near vicinity.

Structures supported on soil overlying soluble carbonate rock units are at risk of damage resulting from sinkhole activity. Practices to reduce risk can be implemented, but risk cannot be eliminated.

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## **SUBSURFACE DESCRIPTION**

The following is a brief summary of the soils encountered at the soil boring locations. Additional subsurface details may be seen on the attached *Boring Records*. Subsurface stratification indicated on the boring records is approximate and represents our interpretation of the soils encountered at the Standard Penetration testing intervals.

<b>Strata</b>	<b>Description</b>
<b>Ground Cover</b>	<p>Topsoil &amp; Gravel = 6 to 30 inches            Asphalt &amp; Base Stone = 8 to 9 inches            Comments - Variation in the ground cover will exist across the site</p>
<b>Fill Soil</b>	<p>Origin - Manmade, deposited by past construction and site use activities            Test Locations - B-4 and B-5            Description - Tan brown and red, silty clay with some sand and limestone gravel            Consistency - Soft to medium            Moisture Conditions - Very Moist to wet            Depth - Up to approximately 4 feet in depth, below existing ground surface</p>
<b>Alluvial Soil</b>	<p>Origin - Native, water deposited by past water flow over the site            Test Locations - B-4            Description - Brown red and tan, silt and clay            Consistency - Soft to medium            Moisture Conditions - Wet            Depth - Up to approximately 9.5 feet, below existing ground surface (extending to the top of bedrock at this location)</p>
<b>Residual Soil</b>	<p>Origin - Native, derived from the weathering of the underlying bedrock material            Test Locations - All test locations, except B-4            Description - Tan brown and red, high-plasticity, silt and clay with some sand            Consistency - Medium to stiff            Moisture Conditions - Very Moist to Wet            Depth - Extending to the top of bedrock</p>
<b>Bedrock/ Refusal/ Termination</b>	<p>Auger Refusal - All test locations            Auger refusal occurred at depths ranging from 1 foot to 18.5 feet below the existing ground surface. The refusal occurred at approximate elevations which ranged from 2027.5 to 2059 feet above msl.            The refusal material was interpreted as weathered dolomite bedrock. Sampling of the rock material was not performed.</p>
<b>Ground-water</b>	<p>At the time of drilling, groundwater was not encountered at the boring locations.            Comments - Changes in groundwater elevations will occur with wet weather.</p>



**Boring Summary Table**

<b>Boring Location</b>	<b>Approx. Ground Surface Elevation<sup>1</sup> (msl)</b>	<b>Depth of Boring (feet)</b>	<b>Approx. Refusal Elevation<sup>1</sup> (msl)</b>	<b>Auger Refusal Elevation Relative to SGE<sup>2</sup> (feet)</b>
<b>B-1*</b>	2050	18.5	2031.5	-14.5
<b>B-2*</b>	2062	3.5	2058.5	+12.5
<b>B-3</b>	2051	3	2048	+2
<b>B-4</b>	2038	10.5	2027.5	-18.5
<b>B-5</b>	2052	12	2040	-6
<b>B-6</b>	2063	9.5	2053.5	+7.5
<b>B-7</b>	2046	7.5	2038.5	-7.5
<b>B-8</b>	2043	12.5	2030.5	-15.5
<b>B-9*</b>	2062	5	2057	+11
<b>B-10</b>	2058	1	2057	+11
<b>B-11</b>	2048	7.5	2040.5	-5.5
<b>B-12</b>	2062	3	2059	+13
<b>B-13</b>	2052	7.5	2044.5	-1.5

1. Elevations interpreted from provided site mapping. Should be considered approximate.

2. SGE = subgrade elevation. Subgrade elevation assumed to be 2046 feet based on provided project information.

\* Boring not placed within proposed building footprint.

## LABORATORY TESTING

### NATURAL MOISTURE CONTENT

The Natural Moisture Content tests provide data that assist in evaluating the onsite soil moisture for engineering properties and the amount of moisture conditioning that may be anticipated in order to dry the onsite soils for use as structural fill.

**Natural Moisture Content Data Summary**

Boring Location	Depth (Feet)	Natural Moisture Content (%)	Boring Location	Depth (Feet)	Natural Moisture Content (%)
B-1	1.5-3.0	32.6	B-6	1.5-3.0	46.5
B-1	3.5-5.0	43.7	B-6	3.5-5.0	49.3
B-1	6.0-7.5	47.2	B-6	6.0-7.5	7.0
B-1	8.5-10.0	42.7	B-7	1.5-3.0	42.5
B-1	13.5-15.0	46.1	B-7	3.5-5.0	41.5
B-2	1.5-3.0	43.5	B-7	6.0-7.5	44.1
B-3	1.5-3.0	30.4	B-8	1.5-3.0	27.0
B-4	1.5-3.0	31.5	B-8	3.5-5.0	30.5
B-4	3.5-5.0	33.7	B-8	6.0-7.5	44.8
B-4	6.0-7.5	36.0	B-8	8.5-10.0	45.5
B-4	8.5-10.0	7.9	B-9	1.5-3.0	42.2
B-5	1.5-3.0	29.9	B-9	3.5-5.0	32.0
B-5	3.5-5.0	33.7	B-11	1.5-3.0	50.8
B-5	6.0-7.5	44.7	B-11	3.5-5.0	26.3
B-5	8.5-10.0	11.0	B-11	6.0-7.5	3.8

### ATTERBERG LIMITS

The Atterberg Limits Determination provides the Liquid and Plastic limits for soil classification purposes and to assist in evaluating the soil for engineering properties.

The following table summarizes the Atterberg Limits Determination Testing:

**ATTERBERG LIMITS DATA SUMMARY**

Boring Location	Sample Depth (Feet)	Natural Moisture Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index	USCS Soil Classification
B-4	6.0-7.5	36.0	62	27	35	CH
Proctor	NA	45.0	64	36	28	MH

## SOIL GRADATION

The soil gradation test is performed to determine the grain size distribution of a soil type. The soil is passed through a set of sieves and separated into three groups by size. Particles larger than a #4 sieve are classified as gravel, those smaller than a #4 but larger than a #200 sieve are sands and particles less than a #200 sieve are classified as fines. This information is used to assist in soil classification.

The following table summarizes the results of the gradation test:

**Soil Gradation Data Summary**

Boring Location	Sample Depth (Feet)	% Gravel	% Sand	% Fines
<b>B-4</b>	6.0-7.5	0.8	11.4	87.8
<b>Proctor</b>	NA	0.1	4.5	95.4

## STANDARD PROCTOR

The Standard Proctor Determination provides the moisture-density relationship of the soil for use in evaluating the suitability and compaction characteristics of fill soils.

The results of the Standard Proctor Density testing are summarized on the following table.

**Standard Proctor Data Summary**

Sample Location	Sample Depth (Feet)	Natural Moisture Content (%)	Optimum Moisture Content (%)	Maximum Dry Density (pcf)
<b>Proctor</b>	NA	45.0	33.6	85.6

## LABORATORY TESTING SUMMARY

The soils present on the site are classified as high-plasticity silts and clays based on the USCS soil classification system. This soil type is given the soil symbol MH and CH. These soils have a generally medium to high potential for volume change due to changing moisture contents and loading conditions.

Such soils have poor to fair compaction characteristics with compaction typically achieved using a vibratory sheepsfoot roller. Moisture conditioning (drying) will be required to achieve specified compaction density. The onsite soil will generally exist at a moisture content that is 5% to 20% above the optimum moisture as determined by laboratory testing.

The proctor sample included auger cuttings from borings locations B-6 and B-9 in upper 9 feet.

The excavated onsite soil is not recommended for use as a structural fill material. A suitable, offsite fill soil should be approved by the project geotechnical engineer.

## RECOMMENDATIONS

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### GEOTECHNICAL CONSIDERATIONS

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- It is our opinion, that with owner consideration given to the development risk factors, that the site could be developed for the intended use. The risk factors of primary concern include the possibility of differential settlement resulting from non-uniform soil to bedrock depth conditions, shallow bedrock, the presence of soils with variable consistency, and construction over karst geology.
- We offer two methods for the foundational support of the proposed structure. The first option includes the structure being supported on shallow foundations over an improved reinforced soil raft building pad. The second option includes a portion of the structure being supported on shallow foundations bearing directly of native bedrock and a portion of the proposed structure being supported on deep foundation micropiles, which transfer the foundation loads to the underlying bedrock.
- **OPTION 1:** Due to the site subsurface conditions, the building pad area should be prepared by constructing a reinforced earth raft over a portion of the proposed footprint. This site preparation method provides increased strength and uniformity for support of shallow foundations to limit total and differential building settlement. This option is considered less conservative than option 2.
- **Earth Raft Support of Shallow Foundations:** The site preparation method for the building area should include construction of a compacted, reinforced soil raft where bedrock is not encountered above a specified elevation. The prepared area should include 10 feet outside of the building perimeter and to variable depths based on existing topography.

The earth raft will include two (2) layers of a type II biaxial geogrid (Tensar BX1200 or engineer approved equivalent). The first layer will be placed over the ground surface after clearing, grubbing and removal of old fill soil and prior to new fill soil placement. The placement elevation of this first layer of geogrid will vary from approximately elevation 2040 to 2034 feet. The second layer will be placed at approximately elevation 2040 feet or approximately 6 foot below planned subgrade elevation. Where native bedrock is encountered above elevation 2040, placement of geogrid will not be required. All fill soil placement shall conform to the *Recommendations* section of this report.

Prior to placement of the first layer of geogrid and new fill material, the ground surface should be proofrolled to identify areas of soft soils and evaluated by the geotechnical engineer. All identified soft/fill soil should be over excavated to suitable soil conditions.

The construction of the described earth raft is anticipated to take place over the middle and eastern area of the proposed structure. Over the western area of the proposed structure shallow bedrock above elevation 2040 feet is expected.

Shallow foundations are recommended for the support of the structure with this site preparation method.

A figure illustrating this typical method is included in this report.

**OPTION 2:** This method of foundation support of the structure consists of a combination of both shallow and deep foundations. Additional geotechnical evaluation will be required to provide rock parameters for design of the deep foundations.

- **Deep Foundation-Micropile Support:** Where soil overburden depths prevent the foundational support of shallow foundations on bedrock (or stone fill over the bedrock), the foundations should be supported using micropiles as deep foundation support elements that transfer the load into the underlying bedrock. Building column and wall foundation loads are transferred to the piles with pile caps and grade beams. In order to provide micropile design information, additional geotechnical evaluation will be required.
- **Shallow Bedrock -** Shallow rock was encountered at the soil test locations, above the planned FFE. Rock removal methods will be required during site grading, foundation construction, and utility installation where bedrock is encountered. The condition of the bedrock was not evaluated for this report.

Where bedrock exists at the foundation bearing elevation, the rock should be over excavated to 1 foot below the bottom of foundation and backfilled with a suitable select compacted stone fill material. Consideration should be given to over excavating rock from the building areas for foundation and utility construction.

- Sinkhole activity is present in the area. New sinkhole activity can be induced by grading into existing features, poor drainage conditions, poor utility trench backfill methods, use of open graded gravel in utility line bedding, loss of seal around subsurface storm drain lines, or from leaking pipes, etc.
- Structures supported on soil overlying soluble carbonate rock units are at risk of damage resulting from sinkhole activity. Practices to reduce risk can be implemented, but risk cannot be eliminated.
- The excavated onsite soil is not recommended for use as a structural fill material. A suitable, offsite fill soil should be approved by the project geotechnical engineer.
- The site grading and foundation construction should be performed under the observation of a geotechnical engineer to assist with continued evaluation of soil conditions during the construction process.

## **KARST TERRAIN AND SINKHOLE CONSIDERATIONS**

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This development site is located within the geologic setting of the Nolichucky and Honaker formations. The Honaker formation consist of dolomite bedrock, a carbonate rock type.

There is inherent risk associated with building on any site underlain by carbonate rock. By employing construction methods that take the potential for sinkhole activity into consideration, this risk can be reduced, but not eliminated.

On a site located within carbonate rock geology, sinkhole activity is most likely to occur in areas of excavation, as the removal of the surface soils exposes subsurface soil fissures to rainfall and runoff.

The cause of sinkhole activity is water passing through natural fissures in the soil structure. As water passes through these fissures it erodes the sides of the fissures causing soil loss and voids in the soil structure. As such, the contractor should continually review the site for positive drainage.

Areas where the surface soils are disturbed are of concern as the upper soil layers provide a natural seal over the subsurface cracking. When this protective layer is removed, the fissures in the soil structure are exposed to rainfall and surface water, thus increasing the potential for sinkhole activity.

We recommend that the following construction practices be adopted for sites underlain by carbonate rock:

- Always maintain positive drainage throughout the site. Avoid creating localized low spots that allow water to pond.
- *Backfill utility trenches with compacted crushed stone or soil. We **do not** recommend the use of open graded aggregate such as No. 57 stone as backfill material on sites with an elevated risk of sinkhole activity.*
- Upon reaching the subgrade elevation in excavated areas, we recommend that the upper twelve inches of soil be scarified and recompactd to remold the subgrade and provide a seal over the subsurface soils.
- If sinkhole activity is observed during construction, the contractor should notify the engineer immediately so that the sinkhole can be evaluated and an appropriate method of repair can be determined.

## SOIL FILL

### Engineer Fill Description and Recommended Uses

Fill Type <sup>1,3</sup>	USCS Classification	Acceptable Location for Placement
Soil	Various (PI<30)	All Locations and elevations
Well graded granular	GW <sup>2</sup>	All Locations and elevations

1. Controlled, compacted fill should consist of approved materials that are free of organic matter, debris, particles greater than 4 inches. Frozen material should not be used and fill should not be placed on a frozen subgrade. Minimum Standard Proctor (ASTM D-698) dry unit weight 95 pcf. Each soil type should be submitted to the geotechnical engineer for evaluation.

2. Similar to VDOT 21 A/B crushed limestone aggregate, limestone screenings, or such as well graded gravel or crushed stone. The use of open graded stone or soil fill is not recommended.

Item	Description
Fill Lift Thickness	8 inches or less in loose thickness when heavy, self-propelled compaction equipment is used
	4 to 6 inches in loose thickness when hand guided equipment (i.e. jumping jack or plate compactor) is used
Compaction (Building Areas)	At least 98% of the materials Standard Proctor maximum dry density (ASTM D 698)
Compaction (Drive/Parking Areas - upper 2 ft)	At least 98% of the materials Standard Proctor maximum dry density (ASTM D 698)
Compaction (Drive/Parking Areas - below 2 ft)	At least 95% of the materials Standard Proctor maximum dry density (ASTM D 698)
Compaction (General)	Compaction all fill soil plus 5 feet beyond the perimeter in locations supporting structures and drive areas
Compaction (Trench Lines)	Per the above depending upon location/elevation
Moisture Content Cohesive Soil	Within the range of 2% below to 2% above the optimum moisture content value as determined by the standard Proctor test at the time of placement and compaction
Testing Frequency	1 test per 5000 square feet or less of fill area for each soil fill lift.
Testing Personnel	A qualified soil technician, under the direction of a geotechnical engineer, should perform the soil density testing.
Building Pad Subgrade	For building pad soil subgrade preparation, the upper 1 foot should be scarified and recompacted to 98% of its Standard Proctor density. All prepared subgrades should pass proofroll testing.
Soil Subgrade Approval	Prior to fill placement, the soil subgrade should be proofrolled under the observation of a geotechnical engineer for approval to begin fill placement.



## **BUILDING PAD PREPARATION - EARTH RAFT METHOD (OPTION 1)**

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The site preparation method for the building area should include construction of a compacted, reinforced soil raft where bedrock is not encountered above a specified elevation. The prepared area should include 10 feet outside of the building perimeter and to variable depths based on existing topography.

The earth raft will include two (2) layers of a type II biaxial geogrid (Tensar BX1200 or engineer approved equivalent). The first layer will be placed over the ground surface after clearing, grubbing and removal of old fill soil and prior to new fill soil placement. The placement elevation of this first layer of geogrid will vary from approximately elevation 2040 to 2034 feet. The second layer will be placed at approximately elevation 2040 feet or approximately 6 foot below planned subgrade elevation. Where native, bedrock is encountered above elevation 2040, placement of geogrid will not be required. All fill soil placement shall conform to the *Recommendations* section of this report.

Prior to placement of the first layer of geogrid and new fill material, the ground surface should be proofrolled to identify areas of soft soils and evaluated by the geotechnical engineer. All identified soft/fill soil should be over excavated to suitable soil conditions.

The construction of the described earth raft is anticipated to take place over the middle and eastern area of the proposed structure. Over the western area of the proposed structure shallow bedrock above elevation 2040 feet is expected.

A figure illustrating this typical method is included.

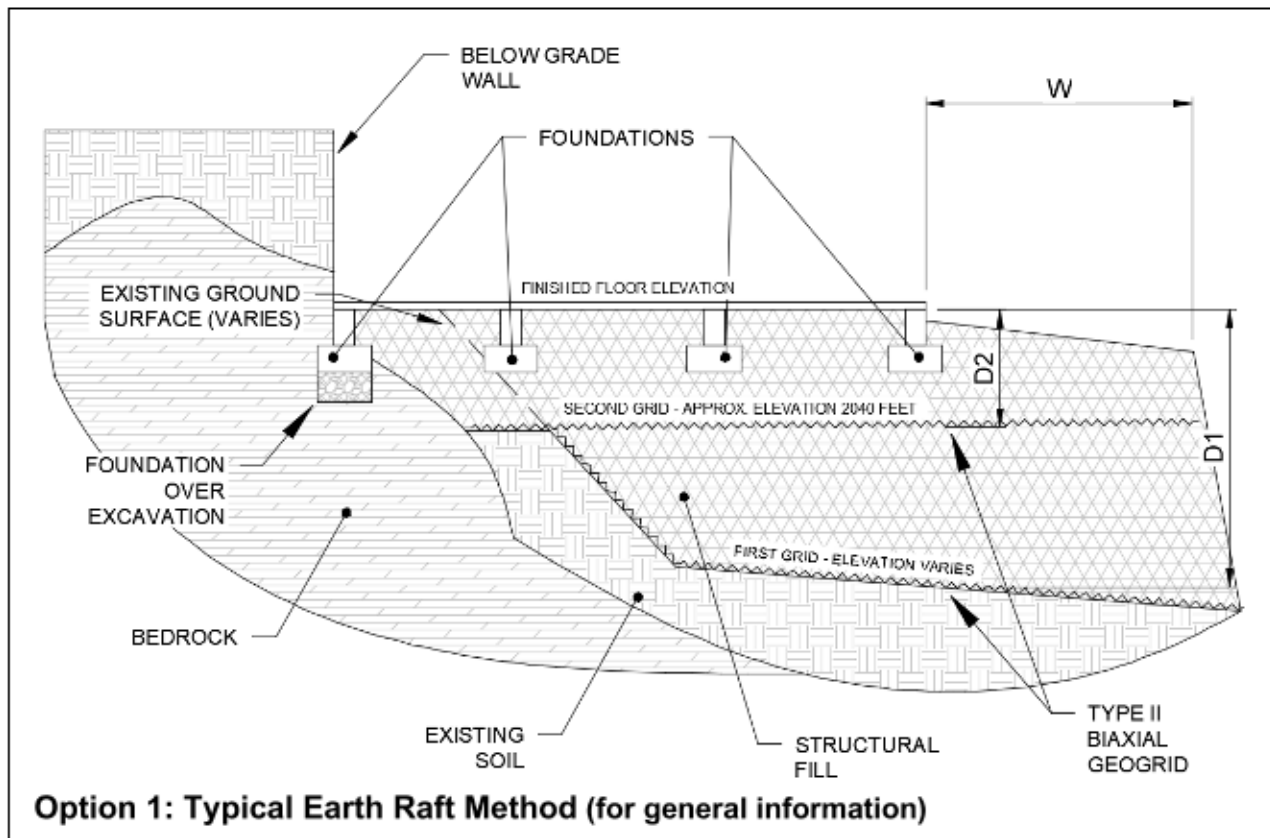
For the figure below:  $W = 10$  feet

D1 = Varies, estimated elevation 2040 to 2035 feet, approximately 6 to 12 feet below subgrade elevation

D2 = Elevation 2040 feet, approximately 6 feet below subgrade elevation

The areas should be backfilled with soil and compacted to the finished subgrade per the specifications. Final site grading/landscaping should be performed to ensure that positive drainage is maintained away from these areas.

Actual soil subsurface conditions and extents of the earth raft should be determined in the field under the direction of the project geotechnical engineer. Modification of the general method provided may be required.



## DEEP FOUNDATION RECOMMENDATIONS - MICROPILES (OPTION 2)

Micropiles can consist of either a single element (such as a grouted casing) or they can be a composite micropiles (such as a bar installed and grouted inside of a casing). Micropiles provide support in a primarily axial direction, with the applied loads being distributed through a bond zone between the micropile and the load-supporting soil or bedrock. If lateral support is required, micropiles can be installed on a batter angle. Building column and wall loads should be transferred to the piles.

We recommend that a composite micropile system consisting of an internal bar and steel casing be used for this project. The micropiles shall be designed to meet the specific loading conditions, as shown on the plans and approved working drawings. Design the micropiles and pile top to footing connections using the Service Load Design (SLD) procedures contained in the FHWA "Micropile Design and Construction Guidelines Manual", Report No. FHWA-SA-97-070.

These micropiles should be used to support the proposed structure where overburden depths are prohibitive to over excavating the foundations to bedrock. This will be the eastern area of the building footprint.

In order to provide micropile design information, additional geotechnical evaluation will be required.

## SEISMIC CLASSIFICATION

Code Used	Site Classification
2015 International Code (IBC) <sup>1</sup>	C <sup>2</sup>

1. In general accordance with the 2015 International Building Code, Section 1613.3.2.
2. The 2015 International Building Code (IBC) requires a site soil profile determination extending a depth of 100 feet for seismic site classification. This seismic class definition considers that the subsurface soil and rock conditions encountered at the boring locations are representative for this entire depth.

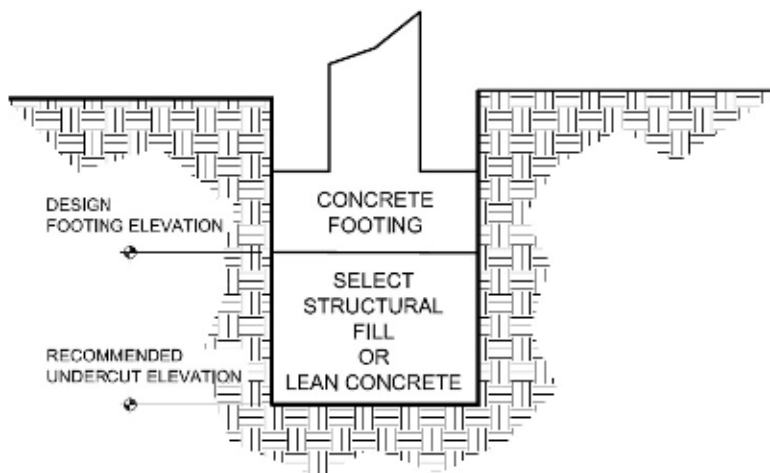
## FOUNDATION EXCAVATION - OBSERVATION/TESTING

Foundation construction should begin as soon as possible after foundation excavations are performed. A geotechnical engineer should observe all foundation excavations at the time of construction to confirm that the soil conditions are suitable for the recommended design parameters. Dynamic Cone Penetrometer (DCP) testing should be performed in foundation excavations to verify that the specified bearing capacity exists in the foundation excavations.

Soil that is encountered with less than a stiff consistency as revealed by DCP testing should be evaluated by the geotechnical engineer. Undercutting to a depth determined in the field based on the local soil data obtained may be recommended. Undercut depths are related to the soil strength and foundation size. Typical depths range from ½ to 1 times the foundation width.

In undercut locations, flowable fill concrete or select crushed stone backfill should be used as backfill. Select crushed stone should be placed in loose horizontal lifts not to exceed 6 inches in thickness. Compaction of the stone should be performed until at least 95% of its Standard Proctor Density is achieved.

In foundation support option 1, where bedrock exists at the foundation bearing elevation, the rock should be over excavated to 1 foot below the bottom of foundation and backfilled with a suitable select compacted stone fill material.



### TYPICAL UNDERCUT DETAIL

NOTE: Excavations in sketch shown vertical for convenience. Excavations should be sloped as necessary for safety.

### SLAB ON GRADE

Item	Description
Floor slab support <sup>1</sup>	Compacted soil passing density/proofroll testing
Modulus of subgrade reaction	125 psi/in for point loading conditions
Aggregate base course/capillary break <sup>2</sup>	4 inches of free draining material
Vapor Barrier	Project Specific

- All floor slab subgrade areas should be moisture conditioned and properly compacted to the recommendations in this report immediately prior to placement of the stone base and concrete.
- The floor slab design should include a capillary break, comprised of free-draining, compacted, granular material, at least 4 inches thick. Free-draining granular material should have less than 5 percent fines (material passing the #200 sieve).

### SHALLOW FOUNDATIONS

Description	Recommendation (Option 1)	Recommendation (Option 2)
Net allowable bearing pressure <sup>1</sup>	2500 psf	3000 psf
Minimum dimensions	24 inches	24 inches
Minimum embedment below finished grade for frost protection <sup>2</sup>	24 inches	24 inches
Approximate total / differential settlement <sup>3,4</sup>	1 inch / 1 inch	<1 inch / <1/2 inch

- The net allowable bearing pressure is the pressure in excess of the minimum overburden pressure at the footing base elevation. Assumes that foundation subgrade testing and preparation is performed per the recommendations provided in this report. All foundations should bear on approved fill materials.
- For perimeter footing and footings beneath unheated areas. Also to reduce the effects of seasonal moisture variations in the subgrade soils.
- The foundation settlement will depend upon the variations within the subsurface soil profile, the structural loading conditions, the embedment depth of the footings, the thickness of compacted fill, the quality of the earthwork operations and the variability of the subsurface conditions.. Significant variations in the subsurface conditions on this site are present.
- Does not include effects to the subsurface due to karst activity.

**PAVEMENT RECOMMENDATIONS**

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It is common for site grading to be completed for some time prior to placing aggregate base and asphalt paving material. During this period, it is possible to have softening of the upper surface subgrade material due to inclement weather as well as other construction related activities. We strongly recommend that just prior to placement of the aggregate base course the subgrade be proofrolled as outlined above. This will allow any softened and/or disturbed areas to be identified and properly reworked and recompact.

We recommend that the asphalt pavement section consist of the following minimum compacted thickness of aggregate base and asphalt. A California Bearing Ratio (CBR) value of 4% has been assumed for the soil types present on the site.

**ASPHALT PAVEMENT**

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Pavement Course <sup>1</sup>	Thickness, inches	
	Light Duty	Heavy Duty
Asphalt Surface Course - VDOT SM - 9.5A <sup>1</sup>	1.25	1.5
Asphalt Base Course - VDOT BM-25.0 <sup>1</sup>	2.0	3.5
Aggregate Base - VDOT 21 A <sup>2</sup>	6.0	8.0

1. The materials and placement method for the aggregate base and asphaltic surface and base courses should meet the specifications of the Virginia Department of Transportation (VDOT) Road and Bridge Specifications.
2. The aggregate base should consist of a crushed limestone meeting the requirements of the VDOT specification for aggregate base course, Section 309, Type I aggregate, utilizing aggregate gradation for Section 208 (VDOT). The aggregate base should be compacted to a minimum of 100% of its maximum dry density, as determined by Standard Proctor Test, ASTM D-698. The asphalt courses should meet the specifications of requirements for VDOT, Section 315, for Asphalt Concrete Pavement.

**CONCRETE PAVEMENT**

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Rigid pavements are assumed to be planned for the loading dock and dumpster pad areas. The concrete should have a minimum compressive strength of 4500 psi at 28 days. A minimum concrete thickness of 6 inches is recommended. The concrete should, at a minimum, be reinforced with 6"x6" W2.1x8 GA. wire reinforcement. We recommend a minimum of 4 inches of compacted crushed stone underlie the concrete pavement. Materials and construction methods should conform to the (VDOT) Virginia Department of Transportation Road and Bridge Specifications.

**BELOW GRADE DESIGN**

Material Type	Compacted No. 57 Stone <sup>2</sup>	Compacted Crushed Aggregate <sup>2</sup>	In-Situ, Native Site Soil <sup>3</sup>
Angle of Friction, degrees	36	36	20
Cohesion, pcf	0	0	500
At Rest Pressure Coefficient, K <sub>o</sub>	0.41	0.41	0.66
Active Pressure Coefficient, K <sub>a</sub>	0.26	0.26	0.49
Passive Pressure Coefficient, K <sub>p</sub>	NA	NA	NA
Unit Weight of Material, pcf	110	140	125
Friction Factor (concrete over soil subgrade)	NA	0.35	0.35
Friction Factor (concrete over rock subgrade)	NA	0.45	NA
Allowable Soil Bearing Capacity, psf (on approved subgrades)	2000 (retaining wall over soil) 3000 (basement wall over rock)		

1. The values are based on level, drained backfill conditions. If the backfill is not drained (positive drainage is not provided) then hydrostatic pressures should be used. At least one foot of No. 57 gravel should be placed behind below grade walls with soil backfill to maintain drained conditions. Additional surcharge loading, such as vehicle or adjacent building foundation loads, should be considered in the wall design.

2. If No. 57 stone is used as backfill material behind below grade walls, the stone fill width should be at least 75% of the wall height. A perforated foundation drain should be placed and graded to drain away from the foundations. The stone fill should be placed in maximum 8-inch lifts to 2 feet below finished subgrade elevation and consolidated to 92% of relative density. The top 2 feet of material should consist of an approved fill soil or compacted crusher run stone. The ground surface should be sloped to provide positive surface drainage away from the backfill area. Open graded stone material should not be placed below the wall drain elevations.

3. For the planned below grade walls, the on-site fill soil containing organics, particle sizes greater than 4 inches or medium to high plasticity soil (PI greater than 30%) are not recommended for use as backfill within the reinforced zone. An open graded gravel should be used as drainage material directly behind the wall. The soil fill should be placed in lifts and compacted to 98% of its Standard Proctor density.

## **CONSTRUCTION CONSIDERATIONS**

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Site Subgrade Preparation - The area to be developed should be stripped of any organic soil.

The soil subgrade should be proofrolled with a fully loaded dump truck (minimum load of 20 tons) in a slow crossing pattern across the site. A minimum of four passes should be used to evaluate the soil subgrade. Proofroll testing should be performed under the observation of a geotechnical engineer to evaluate the subgrade and provide recommendations for any unsuitable areas encountered.

Soft or wet soil conditions revealed by proofroll testing or other methods should be evaluated by the geotechnical engineer and stabilized accordingly. The best method of subgrade stabilization can be performed in the field at the time of the proofroll evaluation.

Moisture Sensitive Soil - Unstable subgrade conditions could develop during general construction operations, particularly if the soils are wetted and/or subjected to repetitive construction traffic. Should unstable subgrade conditions develop stabilization measures will need to be employed.

Upon completion of filling and grading, care should be taken to maintain the subgrade moisture content prior to construction of floor slabs and pavements. Construction traffic over the completed subgrade should be avoided to the extent practical. The site should also be graded to prevent ponding of surface water on the prepared subgrades or in excavations. If the subgrade should become frozen, desiccated, saturated, or disturbed, the affected material should be removed or these materials should be scarified, moisture conditioned, and recompacted prior to floor slab and pavement construction.

Excavations - Temporary excavations will be required during grading operations. The grading contractor, by his contract, is usually responsible for designing and constructing stable, temporary excavations and should shore, slope or bench the sides of the excavations as required, to maintain stability of both the excavation sides and bottom. All excavations should be sloped or braced to comply with applicable local, state and federal safety regulations, including the current OSHA Excavation and Trench Safety Standards.

The existing soil on the site should be classified as a Class C soil type.

Permanently excavated slopes in soil should not exceed a slope geometry of 2.5H:1V up to a maximum height of 20 feet. Additional evaluation should be performed for a slope of greater height. For permanently maintained grass or lawn areas, the excavated slopes should not exceed a geometry of 3H:1V.

Fill Slopes - All fill embankments less than 15 feet in height should be constructed with a slope geometry of no steeper than 2.5H:1V. All fill embankments greater than 15 feet in height should be evaluated for stability. For fill embankments that will be permanently maintained as grassed or lawn areas, the embankments should not exceed a slope geometry of 3H:1V.

Fill placed in sloping areas should use a series of horizontal benches or terraces to tie the existing soil and proposed new fill together. The benching operation should begin at the toe of the slope. Benches should be placed as required to ensure that no fill is placed on sloping surfaces. Benched areas should be stripped of organics and soft or wet soil conditions.

Bedrock Excavations - Shallow bedrock was encountered at the soil test locations, above the planned FFE. Rock removal methods will be required during site grading, foundation construction, and utility installation where bedrock is encountered. The condition of the bedrock was not evaluated for this report.

Where bedrock exists at the foundation bearing elevation, the rock should be over excavated to 1 foot below the bottom of foundation and backfilled with a suitable select compacted stone fill material. Consideration should be given to over excavating rock from the building areas for foundation and utility construction.

Shallow Groundwater - The groundwater elevations will vary depending on wet weather conditions. Shallow groundwater conditions will be encountered. Pumping or other methods of dewatering excavation should be anticipated.

Site Drainage - Drainage should be controlled during construction and once the site is completed to prevent ponding of surface water. If necessary, pumps, ditches or other grading methods should be used to prevent ponding surface water. Roof water should be collected into piping and conducted away from the building areas to prevent moisture related soil movements.

Karst (sinkhole) Activity - Past experience has found that sites where grading/construction activities remove all or a portion of the stiff upper crust of soil overburden are at a higher risk of sinkhole activity (dropouts) than sites where no such excavation is made. Similarly, sinkholes may be induced by ponding water or from leaking pipes, etc.

Soil supported foundations overlying rock units that are susceptible to solutioning and sinkhole development are at risk of damage from sinkhole activity.

During grading activities, the ground surface should be observed for indications of subsurface sinkhole activity. These indications could include areas of excessively soft or wet soil or sudden changes in coloration.

Care should be taken to avoid creating localized low areas where surface water could pond. Provide positive drainage at all times. If rain is anticipated, use a smooth drum roller to seal the exposed ground surface to prevent water infiltration.

Utility trenches should *not* be backfilled with open graded gravel to limit subsurface lateral water movement on the site. We recommend the use of compacted, select crushed gravel with fines, (VDOT 21A/B) and/or fined grained soil for backfill material.

Structures supported on soil overlying soluble carbonate rock units are at risk of damage resulting from sinkhole activity. Even though the risk can be minimized, it can rarely be eliminated.

Construction Observation - The site grading and foundation construction should be performed under the observation of a geotechnical engineer and/or their representative to assist with continued evaluation of soil and bedrock conditions during the construction process.



## **GENERAL QUALIFICATIONS**

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This report has been prepared for the exclusive use of SKANSKA and Russell County, Virginia for the construction of the planned expansion located on the Russell County Courthouse property in Lebanon, Virginia. This report has been prepared in accordance with generally accepted geotechnical engineering practice for specific application to this project. The conclusions contained in this report are based upon applicable standards of our practice in this geographic area at the time this report was prepared. No other warranty, expressed or implied, is made.

Foundation Systems Engineering, P.C., is not responsible for any claims, damages, or liability associated with any other party's interpretation of this report's subsurface data or reuse of this report's subsurface data or engineering analysis without our express written authorization.

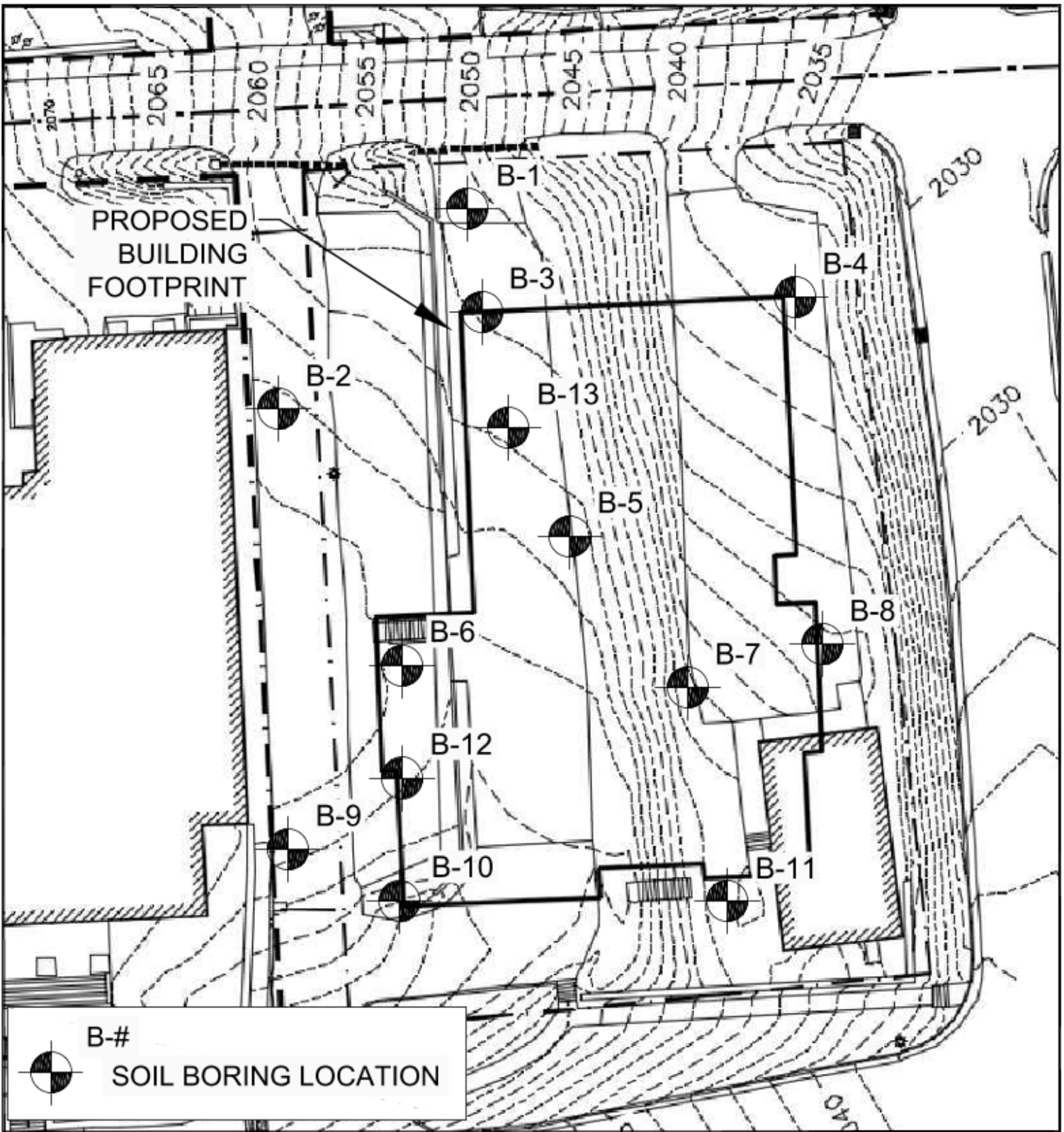
The analyses and professional opinions submitted herein are based, in part, upon the data obtained from the subsurface evaluation. The nature and extent of subsurface variations between the test locations will not become evident until construction.

We strongly recommend that the services of a geotechnical engineer be obtained for the construction phase of the project to provide engineering evaluation and testing services.

## **APPENDICES**

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Boring Location Plan  
Boring Records  
Area Topographic Map  
Area Geology Map  
Laboratory Data  
Test Descriptions  
General Notes



**Foundation Systems**  
**Engineering, P.C.**

Geotechnical Engineering and Consulting

**BORING LOCATION PLAN**  
**RUSSELL COUNTY COURTHOUSE**  
**PROPOSED EXPANSION**  
 LEBANON, VIRGINIA

FOR: **RUSSELL COUNTY, VIRGINIA**

P.O. BOX 1394  
 JOHNSON CITY, TN 37605

423-239-9226

www.fsepc.com

DRAWN BY: NGC  
 PROJ #: 221104

NOTES: TEST LOCATIONS ARE  
 APPROXIMATE

SCALE: NONE

DATE: 1/21/2021

DWG #: BLP





























Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Sampling Resistance, blows/ft	Water Content, %	LL, %	PI, %	Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER TESTS
1	2	3	4	5	6	7	8	9	10	11

**COLUMN DESCRIPTIONS**

- 1** Elevation (feet): Elevation (MSL, feet).
- 2** Depth (feet): Depth in feet below the ground surface.
- 3** Sample Type: Type of soil sample collected at the depth interval shown.
- 4** Sample Number: Sample identification number.
- 5** Sampling Resistance, blows/ft: Number of blows to advance driven sampler one foot (or distance shown) beyond seating interval using the hammer identified on the boring log.
- 6** Water Content, %: Water content of the soil sample, expressed as percentage of dry weight of sample.
- 7** LL, %: Liquid Limit, expressed as a water content.
- 8** PI, %: Plasticity Index, expressed as a water content.
- 9** Graphic Log: Graphic depiction of the subsurface material encountered.
- 10** MATERIAL DESCRIPTION: Description of material encountered. May include consistency, moisture, color, and other descriptive text.
- 11** REMARKS AND OTHER TESTS: Comments and observations regarding drilling or sampling made by driller or field personnel.

**FIELD AND LABORATORY TEST ABBREVIATIONS**

NMC: Natural Moisture Content, percent  
 LL: Liquid Limit, percent

PI: Plasticity Index, percent  
 SA: Sieve analysis (percent passing No. 200 Sieve)  
 UC: Unconfined compressive strength test, Qu, in ksf

**MATERIAL GRAPHIC SYMBOLS**

Asphaltic Concrete (AC)	Portland Cement Concrete	Gravel	Clayey SAND (SC)
Bentonite	Cuttings	Grout	Clayey SAND to Sandy CLAY (SC-CH)
Bentonite chips	AF	Well graded GRAVEL (GW)	Clayey SAND to Sandy CLAY (SC-CL)
Bentonite powder	Clayey GRAVEL (GC)	Well graded GRAVEL with Silt (GW-GM)	Shale
Bentonite plug	Clayey GRAVEL to Gravely CLAY (GC-CH)	Poorly to Well graded GRAVEL (GW-GP)	Silt
Boulders	Clayey GRAVEL to Gravely CLAY (GC-CL)	Limestone	Siltstone
Fat CLAY, CLAY w/SAND, SANDY CLAY (CH)	Silty GRAVEL (GM)	Artificial Fill	Silty SAND (SM)
Fat CLAY/SILT (CH-MH)	Silty GRAVEL to Clayey GRAVEL (GM-GC)	SILT, SILT w/SAND, SANDY SILT (MH)	Silty SAND to Sandy SILT (SM-MH)
Fat CLAY/PEAT (CH-OH)	Silty GRAVEL to Gravely SILT (GM-MH)	SILT, SILT w/SAND, SANDY SILT (ML)	Silty SAND to Sandy SILT (SM-ML)
Lean CLAY, CLAY w/SAND, SANDY CLAY (CL)	Silty GRAVEL to Gravely SILT (GM-ML)	SILT, SILT with SAND, SANDY SILT (ML-MH)	Silty to Clayey SAND (SM-SC)
Lean-Fat CLAY, CLAY w/SAND, SANDY CLAY (CL-CH)	Poorly graded GRAVEL (GP)	High plasticity PEAT (OH)	Poorly graded SAND (SP)
SILTY CLAY (CL-ML)	Poorly graded GRAVEL with Silt (GP-GM)	Low plasticity PEAT (OL)	Poorly graded SAND with Clay (SP-SC)
Lean CLAY/PEAT (CL-OL)	Granite	Low to High plasticity PEAT (OL-OH)	Poorly graded SAND with Silt (SP-SM)
Claystone	Grass and/or topsoil	Sandstone	Well graded SAND (SW)
			Well graded SAND with Clay (SW-SC)
			Well graded SAND with Silt (SW-SM)

**TYPICAL SAMPLER GRAPHIC SYMBOLS**

Auger sampler	CME Sampler	Pitcher Sample
Bulk Sample	Grab Sample	2-inch-OD unlined split spoon (SPT)
3-inch-OD California w/ brass rings	2.5-inch-OD Modified California w/ brass liners	Shelby Tube (Thin-walled, fixed head)

**OTHER GRAPHIC SYMBOLS**

Water level (at time of drilling, ATD)
Water level (after waiting)
Minor change in material properties within a stratum
Inferred/gradational contact between strata
Queried contact between strata

**GENERAL NOTES**

- 1: Soil classifications are based on the Unified Soil Classification System. Descriptions and stratum lines are interpretive, and actual lithologic changes may be gradual. Field descriptions may have been modified to reflect results of lab tests.
- 2: Descriptions on these logs apply only at the specific boring locations and at the time the borings were advanced. They are not warranted to be representative of subsurface conditions at other locations or times.





**Foundation Systems**  
Engineering, P.C.

Geotechnical Engineering and Consulting

P.O. BOX 1394  
JOHNSON CITY, TN 37605

423-239-9226

www.fsepc.com

AREA TOPOGRAPHIC MAP  
RUSSELL COUNTY COURTHOUSE  
PROPOSED EXPANSION  
LEBANON, VIRGINIA

FOR: RUSSELL COUNTY, VIRGINIA

DRAWN BY: NGC

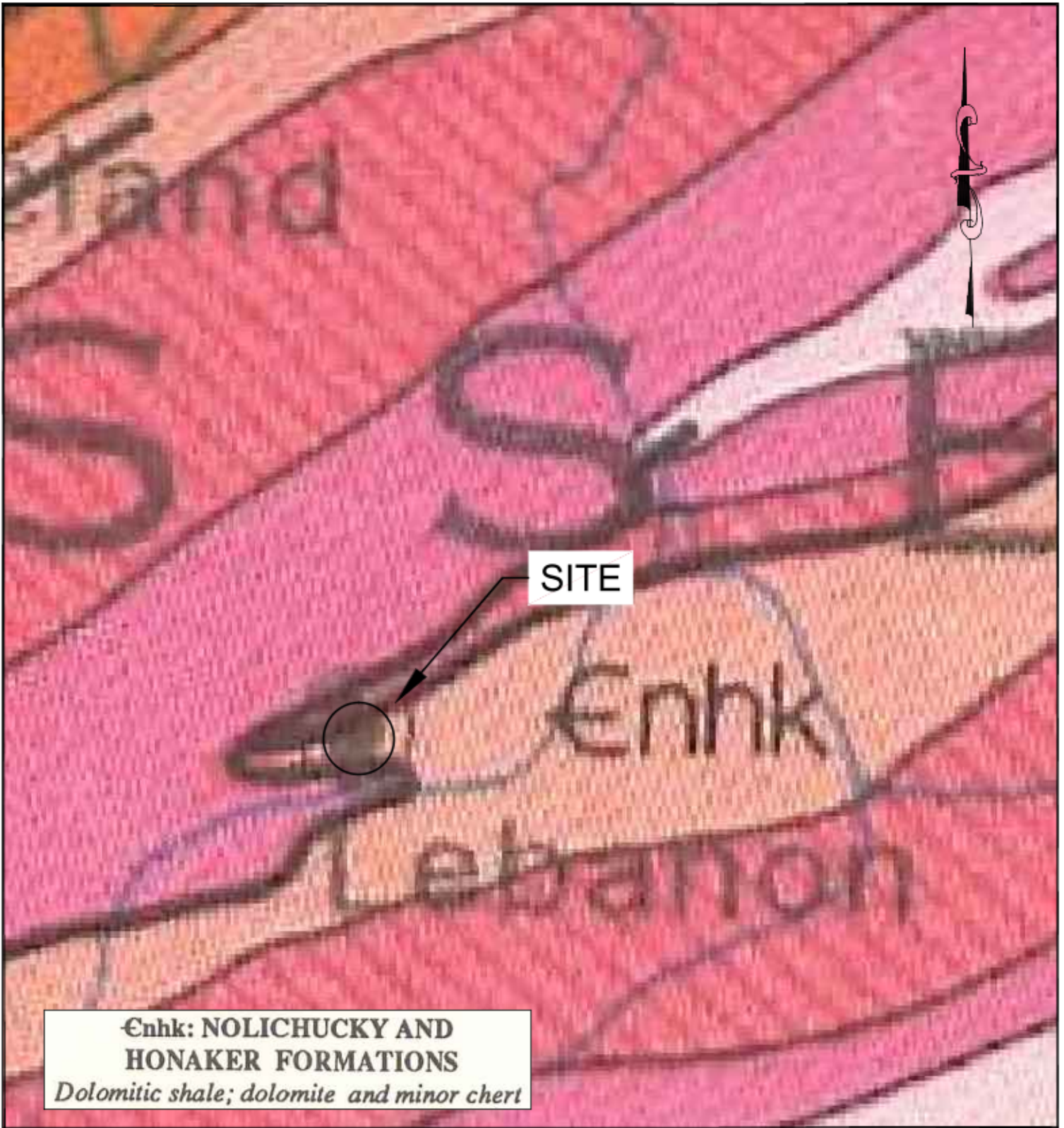
NOTES: ADAPTED FROM USGS MAPPING

PROJ #: 221104

SCALE: NONE

DATE: 1/21/2021

DWG #: TOPO



**Enhk: NOLICHUCKY AND HONAKER FORMATIONS**  
*Dolomitic shale; dolomite and minor chert*



**Foundation Systems**  
**Engineering, P.C.**  
 Geotechnical Engineering and Consulting

**AREA GEOLOGY MAP**  
**RUSSELL COUNTY COURTHOUSE**  
**PROPOSED EXPANSION**  
 LEBANON, VIRGINIA

P.O. BOX 1394  
 JOHNSON CITY, TN 37605  
 423-239-9226  
 www.fsepc.com

FOR: RUSSELL COUNTY, VIRGINIA		
DRAWN BY: NGC	NOTES:	
PROJ #: 221104	ADAPTED FROM VA GEOLOGY MAP	
SCALE: NONE	DATE: 1/21/2021	DWG #: GEO



Llewellyn & Associates, Inc. dba

# Construction Materials Laboratory

Since 1943

Materials Testing / Subsurface Exploration

<b>Client</b>	Foundation Systems Engineering	<b>CML File #:</b>	721009
<b>Sample ID</b>	Proctor Sample	<b>Project:</b>	Russell County Courthouse
<b>From:</b>	Lebanon, Virginia	<b>Project</b>	
<b>Sample Dates:</b>	January 13, 2021	<b>Location:</b>	Lebanon, VA
<b>Report Date:</b>	January 20, 2021	<b>ASTM Specs</b>	D-4318 & D-422
<b>Moisture Content (%)</b> :	45.0		
<b>Total Sample Weight (grams):</b>	500		

## **GRADATION**

<u>Sieve Size</u>	<u>Percent Retained (%)</u>	<u>Cumulative Percent Retained (%)</u>	<u>Percent Passing (%)</u>
3"	0.0	0.0	100.0
3/4"	0.0	0.0	100.0
No. 4	0.1	0.1	99.9
No. 10	0.9	1.0	99.0
No. 40	2.1	3.1	96.9
No. 200	1.5	4.6	95.4
Pan	95.4	100.0	0.0

## **ATTERBERG LIMITS**

<b>Liquid Limit</b>	64
<b>Plastic Limit</b>	36
<b>Plasticity Index</b>	28
<b>USCS Classification</b>	MH

Notes:

1. Testing Performed by Mr. Jeff Dorton and Mr. Garry Higgins of CML.
2. Classification based off both soil gradation and atterberg limit analysis

Reviewed By: Allen Browning, MS, PE

P.O. Box 5186 - Johnson City, TN 37602 - Phone: (423) 926-0762, Fax : (423) 926-0558



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# Construction Materials Laboratory

Since 1943

Materials Testing / Subsurface Exploration

<b>Client</b>	Foundation Systems Engineering	<b>CML File #:</b>	721009
<b>Sample ID</b>	B-4 (6.0 - 7.5)	<b>Project:</b>	Russell County Courthouse
<b>From:</b>	Lebanon, Virginia	<b>Project</b>	
<b>Sample Dates:</b>	January 13, 2021	<b>Location:</b>	Lebanon, VA
<b>Report Date:</b>	January 20, 2021	<b>ASTM Specs</b>	D-4318 & D-422
<b>Moisture Content (%)</b> :	36.0		
<b>Total Sample Weight (grams):</b>	500		

## **GRADATION**

<u>Sieve Size</u>	<u>Percent Retained (%)</u>	<u>Cumulative Percent Retained (%)</u>	<u>Percent Passing (%)</u>
3"	0.0	0.0	100.0
3/4"	0.0	0.0	100.0
No. 4	0.8	0.8	99.2
No. 10	0.4	1.2	98.8
No. 40	3.1	4.3	95.7
No. 200	7.9	12.2	87.8
Pan	87.8	100.0	0.0

## **ATTERBERG LIMITS**

<b>Liquid Limit</b>	62
<b>Plastic Limit</b>	27
<b>Plasticity Index</b>	35
<b>USCS Classification</b>	CH

Notes:

1. Testing Performed by Mr. Jeff Dorton and Mr. Garry Higgins of CML.
2. Classification based off both soil gradation and atterberg limit analysis

Reviewed By: Allen Browning, MS, PE

P.O. Box 5186 - Johnson City, TN 37602 - Phone: (423) 926-0762, Fax : (423) 926-0558

CML PROJECT NO: 721009  
 PROJECT NAME: RUSSELL COUNTY COURTHOUSE  
 PROJECT LOCATION: LEBANON, VIRGINIA  
 DATE: 1/19/21

**SOIL DATA SUMMARY**

Boring Number	Sample Depth (feet)	Moisture Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	Unified Soil Classification
B-1	1.0-2.5	32.6				
B-1	3.5-5.0	43.7				
B-1	6.0-7.5	47.2				
B-1	8.5-10.0	42.7				
B-1	13.5-15.0	46.1				
B-2	1.0-2.5	43.5				
B-3	1.0-2.5	30.4				
B-4	1.0-2.5	31.5				
B-4	3.5-5.0	33.7				
B-4	6.0-7.5	36.0				
B-4	8.5-10.0	7.9				
B-5	1.0-2.5	29.9				
B-5	3.5-5.0	33.7				
B-5	6.0-7.5	44.7				
B-5	8.5-10.0	11.0				
B-6	3.5-4.5	46.5				
B-6	6.0-7.5	49.3				
B-6	8.0-10.0	7.0				
B-7	1.0-2.5	42.5				
B-7	3.5-5.0	41.5				
B-7	6.0-7.5	44.1				
B-8	1.0-2.5	27.0				
B-8	3.5-5.0	30.5				
B-8	6.0-7.5	44.8				
B-8	8.5-10.0	45.5				
B-9	1.0-2.5	42.2				
B-9	3.5-5.0	32.0				
B-11	1.0-2.5	50.8				
B-11	3.5-5.0	26.3				
B-11	6.0-7.5	3.8				



Llewellyn & Associates, Inc. dba

# Construction Materials Laboratory

Since 1943

Materials Testing / Subsurface Exploration

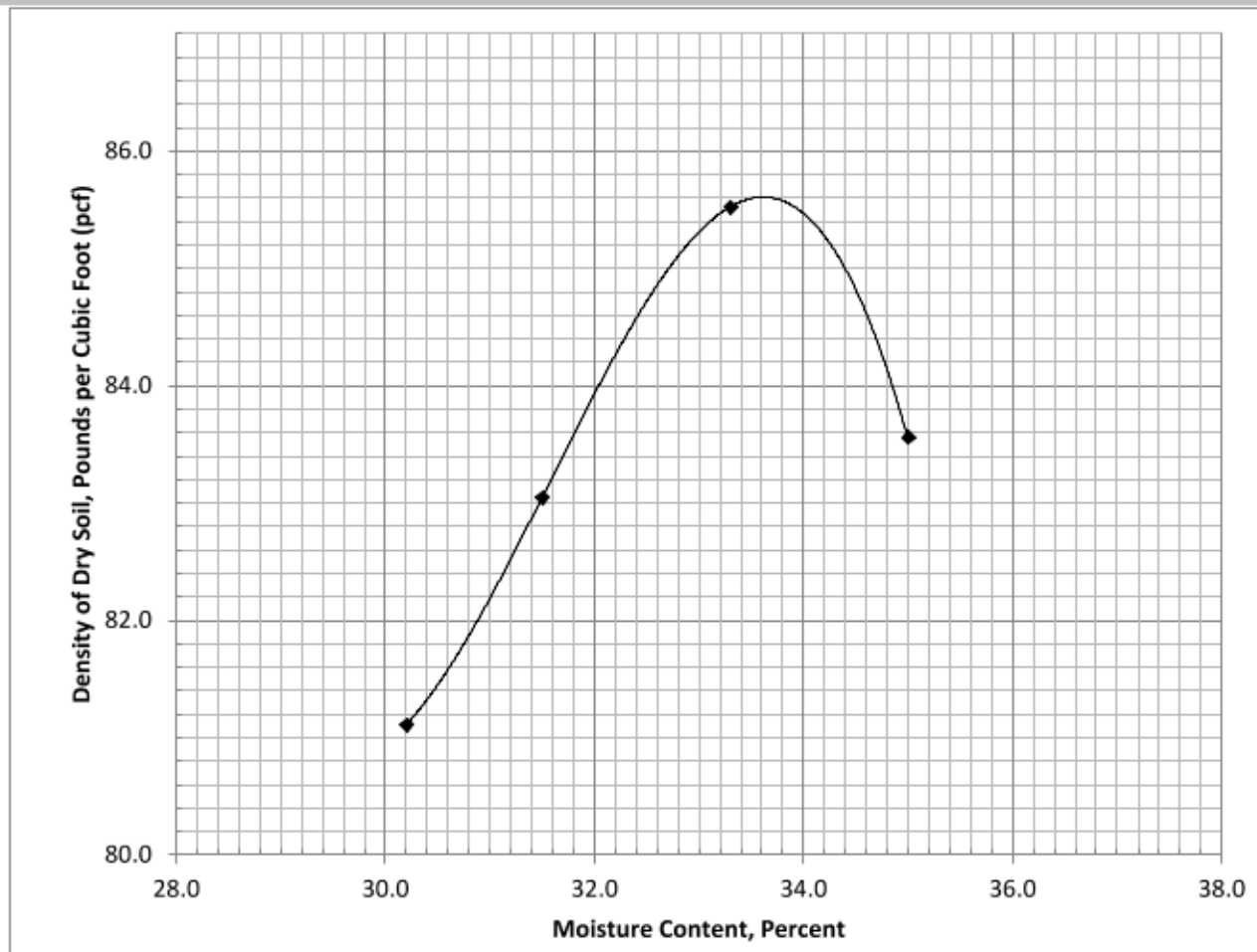
## Analysis of Moisture/Density Relationship of Soil

Test Method: ASTM-D-698-A CML File # 721009  
Client: Foundation Systems Engineering Project: Russell County Courthouse  
Sample #: 1  
From: On-Site Date: January 20, 2021  
Description: Dark Red Silty CLAY

Trial No.	1	2	3	4	5	6
Water Content, %	30.2	31.5	33.3	17.7		
Wet Density, pcf	105.6	109.2	114.0	123.3		
Dry Density, pcf	81.1	83.0	85.5	102.2		

Natural Moisture Content, %	45.0
Maximum Density, Dry Soil, pcf	85.6
Optimum Moisture Content, %	33.6

### PROCTOR CURVE



## ATTERBERG LIMITS

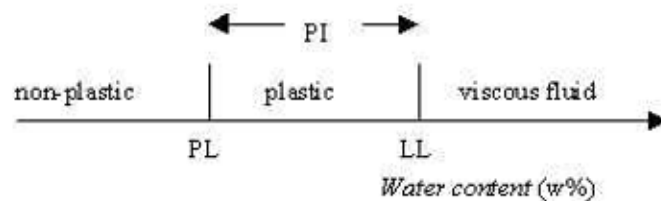
ASTM D4318-10

The objective of the Atterberg limits test is to obtain basic index information about the soil used to estimate strength and settlement characteristics. It is the primary form of classification for cohesive soils.

Fine-grained soil is tested to determine the liquid and plastic limits, which are moisture contents that define boundaries between material consistency states. These standardized tests produce comparable numbers used for soil identification, classification and correlations to strength.

The liquid (LL) and plastic (PL) limits define the water content boundaries between non-plastic, plastic and viscous fluid states. The plasticity index (PI) defines the complete range of plastic state. Figure 1 illustrates it nicely.

Figure 1: Atterberg limits illustration.



### Liquid Limit (LL)

The liquid limit defines the boundary between plastic and viscous fluid states. It is determined using a standard "Liquid Limit Device," which drops a shallow cupfull of soil 1 cm consistently. When a groove cut through the sample closes 1/2", the number of drops is recorded and a moisture content sample processed.

Repeating the procedure for a total of four drop-count ranges provides enough data to plot on a semi-log scale. From the plot, the moisture content at 25 drops defines the Liquid Limit.

### Plastic Limit (PL)

The plastic limit defines the boundary between non-plastic and plastic states. It is determined simply by rolling a thread of soil and adjusting the moisture content until it breaks at 1/8 inch diameter.

# TEST DESCRIPTIONS



## **STANDARD PENETRATION TEST (SPT)**

**ASTM D1586-11**

This test uses a thick-walled sample tube, with an outside diameter of 2 inches, an inside diameter of 1 3/8 inches, and a length of around 32 inches. This tube is driven into the ground at the bottom of a borehole by blows from a slide hammer with a weight of 140 lb falling through a distance of 30 in. The sample tube is driven into the ground and then the number of blows needed for the tube to penetrate each 6 inch increment up to a depth of 18 inches is recorded. The sum of the number of blows required for the second and third 6 inches of penetration is termed the "standard penetration resistance" or the "N-value".

In cases where 50 blows are insufficient to advance it through a 6 inch interval the penetration after 50 blows is recorded. The blow count provides an indication of the soil consistency and can be correlated to the bearing capacity of the soil.

## **UNIFIED SOIL CLASSIFICATION SYSTEM (USCS)**

**ASTM D2487**

The Unified Soil Classification System (USCS) is a nationally recognized standard for classifying soils in accordance with their engineering properties. The parameters considered in this system are:

- Particle Size
- Water Holding and Plasticity
- Organic Content

The system identifies three major soil divisions; coarse-grained soils, fine-grained soils, and highly organic soils. These three divisions are further subdivided into a total of 15 basic soil groups. Based on the results of visual observations and prescribed laboratory tests, the soil is cataloged into basic soil groups, which include variations of gravel, sands, silty, clays and highly organic soils.



# GENERAL NOTES



## WATER LEVEL MEASUREMENT:

Water levels indicated on the boring logs are the levels measured in the borings at the times indicated. Groundwater levels at other times and other locations across the site could vary. In pervious soils, the indicated levels may reflect the location of groundwater. In low permeability soil, the accurate determination of groundwater levels may not be suitable with only short-term observations.

## DESCRIPTIVE SOIL CLASSIFICATION:

Soil classification is based on the Unified Soil Classification System. Coarse Grained Soils have more than 50% of their dry weight retained on a #200 sieve; their principal descriptors are: boulders, cobbles, gravel or sand. Fine Grained Soils have less than 50% of their dry weight retained on a #200 sieve; they are principally described as clays if they are plastic and silts if they are slightly plastic or non-plastic. Major constituents may be added as modifiers and minor constituents may be added according to the relative proportions based on grain size. In addition to gradation, coarse-grained soils are defined on the basis of their in-place relative density and fine grained soils on the basis of their consistency.

### CONSISTENCY OF FINE-GRAINED SOILS

<u>Unconfined Compressive Strength. Qu, psf</u>	<u>Standard Penetration or N-value (55) Blows/Ft.</u>	<u>Consistency</u>
< 500	0 - 1	Very Soft
500-1,000	2 - 4	Soft
1,000 - 2,000	4 - 8	Medium Stiff
2,000 - 4,000	8 - 15	Stiff
4,000 - 8,000	15 - 30	Very Stiff
8,000+	> 30	Hard

### RELATIVE DENSITY OF COARSE-GRAINED SOILS

<u>Standard Penetration or N-value (SS) Blows/Ft.</u>	<u>Relative Density</u>
0 - 3	Very Loose
4 - 9	Loose
10 - 29	Medium Dense
30 - 50	Dense
>50	Very Dense

### RELATIVE PROPORTIONS OF SAND AND GRAVEL

<u>Descriptive Term(s) of other constituents</u>	<u>Percent of Dry Weight</u>
Trace	< 15
With	15 - 29
Modifier	30

### GRAIN SIZE TERMINOLOGY

<u>Major Component of Sample</u>	<u>Particle Size</u>
Boulders	Over 12 in. (300mm)
Cobbles	12 in. to 3 in. (300mm to 75mm)
Gravel	3 in. to #4 sieve (75mm to 4.75mm)
Sand	#4 to #200 sieve (4.75 to 0.075mm)
Silt or Clay	Passing #200 Sieve (0.075mm)

### RELATIVE PROPORTION OF FINE S

<u>Descriptive Term(s) of other constituents</u>	<u>Percent of Dry Weight</u>
Trace	<5
With	5 - 12
Modifier	> 12

### PLASTICITY DESCRIPTION

<u>Term</u>	<u>Plasticity Index</u>
Non-plastic	0
Low	1 - 10
Medium	11 - 30
High	> 30



**Board of Supervisors**  
137 Highland Drive  
Lebanon, VA 24266

Action Item D-1 – D-9  
Presenter: Administrator

**Meeting: 2/8/21      6:00 PM**

---

## **County Administrator Reports & Requests**

The County Administrator Reports & Request for February 2021:

### **REPORTS**

- 1. Virginia Telecommunication Initiative (VATI) Grant.....D-1**
- 2. VRA Energy Conservation Revenue Bond (VirginiaSAVES Program).....D-2**
- 3. VDOT Rte. 678 (Moll Creek) ICAM Permit Application.....D-3**
- 4. State and Local Economic Interests and Financial Disclosure Statements....D-4**
- 5. Fiscal Year 21/22 Budget Meeting Schedule.....D-5**

### **REQUESTS**

- 6. Belfast Waterline Extension Project, Phase III Notice.....D-6**
- 7. Dante Regional Sewer Line Extension Project Application.....D-7**
- 8. RC Sheriff Department Fleet Enterprise Proposal.....D-8**
- 9. VDOT Secondary Highway Six-Year Plan & Construction List.....D-9**

### **STAFF RECOMMENDATION(s):**

Board Discretion.

### **SUGGESTED MOTION(s):**

Board Discretion.

### **ATTACHMENTS:**

- Various



Ralph S. Northam  
Governor

R. Brian Ball  
Secretary of  
Commerce and Trade

# COMMONWEALTH of VIRGINIA

Erik C. Johnston  
Director

## DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT

January 27, 2021

James A. Baldwin  
Executive Director  
Cumberland Plateau PDC  
P.O. Box 548  
224 Clydesway Drive  
Lebanon, VA 24266

RE: 2021 Virginia Telecommunication Initiative  
Grant Offer

Dear Mr. Baldwin:

On behalf of Governor Northam, it gives me great pleasure to inform you the Cumberland Plateau Planning District Commission has been offered a -Virginia Telecommunication Initiative Grant (VATI) in the amount of \$16,285,217 in support of the region's partnership with Point Broadband. This funding is offered from the 2021 VATI competitive round.

Tammy Breski, Telecommunication and Broadband Project Manager in the Department of Housing and Community Development's Office of Broadband, will contact you to schedule a contract negotiation meeting and discuss next steps. We are pleased to be of assistance to the Cumberland Plateau Planning District Commission in expanding broadband service to unserved areas of the region.

Sincerely,

Erik C. Johnston  
Director

c: Robert C. Horn, Buchanan County  
Larry Barton, Dickenson County  
Lonzo Lester, Russell County  
C. Eric Young, Tazewell County  
Tamarah Holmes, Ph.D., DHCD  
Tammy Breski, DHCD





VIRGINIA GOVERNOR

Ralph S. Northam

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THE ADMINISTRATION ▾

CONSTITUENT SERVICES ▾

NEWSROOM ▾

EXECUTIVE ACTIONS

[Home](#) / [Newsroom](#) / [News Releases](#) / 2021/ [Governor Northam Announces More Than \\$29.6 Million to Expand Broadband Access](#)

COVID-19 RESPONSE • Have you downloaded COVIDWISE, Virginia's COVID-19 notification app? Add your phone to the fight [here](#). For up-to-date information, assistance, and more from across state government, click [here](#).

**For Immediate Release:** January 26, 2021**Contacts:** Office of the Governor: Alena Yarmosky, [Alena.Yarmosky@governor.virginia.gov](mailto:Alena.Yarmosky@governor.virginia.gov) | Virginia Department of Housing and Community Development: Amanda Love, [Amanda.Love@dhcd.virginia.gov](mailto:Amanda.Love@dhcd.virginia.gov)

# Governor Northam Announces More Than \$29.6 Million to Expand Broadband Access

Five projects across 11 localities awarded Virginia Telecommunications Initiative grants to help connect over 11,700 homes, businesses, and community institutions

**RICHMOND**—Governor Ralph Northam today announced that Virginians living and working in 11 localities will gain access high-speed internet thanks to more than \$29.6 million in grants awarded through the Virginia Telecommunication Initiative (VATI). The funding will support five projects, connecting more than 11,700 households, businesses, and anchor institutions to broadband service, and leveraging over \$34 million in private and local investments.

Administered by the Department of Housing and Community Development (DHCD), VATI provides targeted financial assistance to extend broadband service to areas that are currently unserved by a provider. In his 2020 budget, Governor Northam made an historic investment of nearly \$50 million in VATI funding. His proposed budget invests an additional \$15 million in fiscal year 2022 to maintain this significant level of funding.

“Now more than ever, we must ensure that Virginians in every part of our Commonwealth have access to reliable, high-speed internet,” **said Governor Northam**. “With these grants, we will help bridge the digital divide in unserved communities and provide thousands of households and businesses with the connections they need to work, learn, and thrive.”

“Since day one of the Northam Administration, broadband expansion has been a key priority to connect our unserved Virginians,” **said Secretary of Commerce and Trade Brian Ball**. “These grants will connect more than 11,000 households, businesses and community anchors to high-speed internet, allowing them important opportunities in education, work, and healthcare.”

Projects were selected through a competitive process that evaluated each project for demonstrated need and benefit for the community, applicant readiness and capacity, and the cost and leverage of the proposed project. The level of funding awarded is based on the infrastructure needs in the project area.

In this application year, VATI received 45 applications from 53 units of local government that partnered with 26 internet service providers, requesting more than \$105 million in funding. The five projects announced today are the first round of high-ranked projects. These projects are either unaffected by the recently announced Federal Communications Commission’s Phase I of Rural Digital Opportunity Fund (RDOF) preliminary awards or have already been re-scoped by the applicant to remove overlap with RDOF funded areas. A second round of awards of the remaining high-ranked projects, including those that have been re-scoped and re-evaluated due to the impact of RDOF will be announced utilizing the remaining available funds in the coming months. Additional information on VATI is available [here](#).

**The following projects will be awarded in round one of the 2021 VATI grants:**

**Botetourt County and Lumos**

**\$1,364,337**

Botetourt County, through a partnership with internet service provider Lumos, will extend its broadband network in the county. The project will bring broadband access to 548 serviceable units, including 30 businesses, through the construction of 59 miles of fiber-optic cable.

**Cumberland Plateau Planning District Commission and Point Broadband**

**\$16,285,217**

Cumberland Plateau Planning District Commission will construct 1,312 miles of fiber through a partnership with Point Broadband. The project includes the counties of Buchanan, Dickenson, Russell, and Tazewell and will provide access to 8,335 serviceable units, including 82 businesses.

**LENOWISCO Planning District Commission and Scott County Telephone Cooperative**

**\$1,230,563**

LENOWISCO Planning District Commission, in partnership with Scott County Telephone Cooperative, will construct 73 miles of fiber at gigabit speeds in Lee County, and provide access to 679 total serviceable units.

**Mecklenburg County and EMPOWER Broadband**

**\$449,381**

Mecklenburg County will construct over 22 miles of fiber in partnership with EMPOWER Broadband. The project will connect 414 serviceable units to broadband at gigabit speeds, including 12 businesses.

**Northern Neck Planning District Commission and All Points Broadband**

**FIXED RATE BOND - DEBT SERVICE SCHEDULE**

For Servicing Period Ending 12/31/2020

<b>Virginia Resources Authority Taxable Qualified Energy Conservation Revenue Bond, (VirginiaSAVES Green Community Program - Russell County Projects) Series 2017 (Direct</b>			
<b>Debt Service Schedule</b>			
<b>Amount</b>	\$ 5,588,478.16	<b>Average Principal Payment</b>	\$ 266,118.01
<b>Payments/Year</b>	1	<b>Total Interest</b>	\$ 2,895,313.31
<b>Total Payments</b>	21	<b>Maturity</b>	10/1/2036
<b>Annual Rate</b>	4.60%	<b>Applicable Credit Rate</b>	4.36%
		<b>Published</b>	4/17/2017
		<b>Total Projected Credit Payment (3)</b>	\$ 1,920,977.44
		<b>Actual Credit Payment Received</b>	\$ 517,058.88
		<b>Projected Credit Payment Remaining (3)</b>	\$ 838,420.77

Notes to Servicing Records

(1) Credit payments acknowledged by IRS & received in Custodial Account. *Red indicat*

(2) Sequestration set for FY9/30/21 at **5.70%**

(3) Before impact of Sequestration

Scheduled Debt Payments					QECB Credit Payment Calculation		Amount of Credit Payment Submitted to IRS on Form 8038-CP*		Projected Credit Payment	Actual Credit Payment Received by Russell into Custody Account		Actual Sequestration Rate
Pmts	Date	Balance	Principal	Interest	Interest Calculated Using the Credit Rate	Calculated Credit Payment*	Date	Amount	Recv'd by Russell in Custody Acct	Date	Amount	
						*At 70% of Credit Rate			Amount (2)			
							*Lesser of interest or calc CP					
0	4/19/2017	\$ 5,588,478.16										
1	10/1/2017	\$ 5,365,990.84	\$ 222,487.32	\$ 115,681.50	\$ 109,645.94	\$ 76,752.16	7/27/2017	\$ 76,752.16	\$ 71,456.26	9/20/2017	\$ 71,456.25	6.9%
2	5/21/2018	\$ 5,349,932.49	\$ 16,058.35	\$ -	\$ -	\$ -		\$ -	\$ -			
3	10/1/2018	\$ 5,176,161.76	\$ 173,770.73	\$ 246,096.89	\$ 233,257.06	\$ 163,279.94	7/27/2018	\$ 163,279.94	\$ 152,503.46	9/4/2018	152,503.46	6.6%
4	10/1/2019	\$ 4,990,498.17	\$ 185,663.59	\$ 238,103.44	\$ 225,680.65	\$ 157,976.46	7/26/2019	\$ 157,976.46	\$ 148,181.92	9/10/2019	148,181.91	6.2%
5	10/1/2020	\$ 4,792,450.42	\$ 198,047.75	\$ 229,562.92	\$ 217,585.72	\$ 152,310.00	7/24/2020	\$ 152,310.00	\$ 143,628.33	12/8/2020	144,917.26	5.7%

es not yet rec'd

(3) Assigned to Banc of America and payments made directly by Russell County

Virginia Resources Authority Taxable Qualified Energy Conservation Revenue Bond, (VirginiaSAVES Green Community Program - Russell County Projects) Series 2017 (Direct Pay)						
Financing Lease ("Lease")(1)						
Actual Debt Payments						
Date	Pmt #	Transaction	Amount	Principal	Interest	Balance
4/19/2017		Funding	\$ 5,588,478.16			\$ 5,588,478.16
10/1/2017	1	Payment	\$ 338,168.82	\$ 222,487.32	\$ 115,681.50	\$ 5,365,990.84
5/21/2018	2	Principal	\$ 16,058.35	\$ 16,058.35	\$ -	\$ 5,349,932.49
10/1/2018	3	Payment	\$ 419,867.62	\$ 173,770.73	\$ 246,096.89	\$ 5,176,161.76
10/1/2019	4	Payment	\$ 423,767.03	\$ 185,663.59	\$ 238,103.44	\$ 4,990,498.17
10/1/2020	5	Payment	\$ 427,610.67	\$ 198,047.75	\$ 229,562.92	\$ 4,792,450.42

(4) Payments under the Lease are credited against the Note.

Virginia Resources Authority Taxable Qualified Energy Conservation Revenue Bond, (VirginiaSAVES Green Community Program - Russell County Projects) Series 2017 (Direct Pay)						
VRA Bond						
Actual Debt Payments						
Date	Pmt #	Transaction	Amount	Principal	Interest	Balance
4/19/2017		Funding	\$ 5,588,478.16			\$ 5,588,478.16
10/1/2017	1	Payment	\$ 338,168.82	\$ 222,487.32	\$ 115,681.50	\$ 5,365,990.84
5/21/2018	2	Principal	\$ 16,058.35	\$ 16,058.35	\$ -	\$ 5,349,932.49
10/1/2018	3	Payment	\$ 419,867.62	\$ 173,770.73	\$ 246,096.89	\$ 5,176,161.76
10/1/2019	4	Payment	\$ 423,767.03	\$ 185,663.59	\$ 238,103.44	\$ 4,990,498.17
10/1/2020	5	Payment	\$ 427,610.67	\$ 198,047.75	\$ 229,562.92	\$ 4,792,450.42

**Virginia Department of Transportation**  
**INTER-AGENCY COORDINATION MEETING**  
**Joint Permit Application**

**DEQ**

**COE**

**VMRC**

**I. VDOT PROJECT INFORMATION**

Route: 678	UPC#:
VDOT Project Number: 00678-083-23806022	USGS Quadrangle: Moll Creek
City/County: Russell	VDOT City/County Code: 083
Contract Type: Maintenance - State Forces	Project Charge: 11163550-11047-72746-167-16502
Estimated Begin Date: 11/16/2020	Designer: Hurt, Robert E

**II. TYPE OF SCOPING/COORDINATION: Permit Coordination**

**Permits Required:** COE Reporting RP11/NW18; VMRC VGP-1

**III. VDOT CONTACTS**

Permit Coordinator (VDOT District Contact)	District Environmental Manager (Authorized Agent)	VDOT (Applicant)
Name: Dennis A. Sanders Address: 870 Bonham Road Bristol, VA 24201 Phone #: (276) 696-3299	Name: George B Young Address: 870 Bonham Road Bristol, VA 24201 Phone #: (276) 696-3302	Name: Jeffrey B Powell Address: 870 Bonham Road Bristol, VA 24201 Phone #: (276) 696-3389

**IV. PERMITTED ACTIVITY**

This project will do repairs to Bridge #6248, located on Rt. 678, along Moll Creek in Russell County. The repairs will consist of reconstructing a wingwall on the downstream side of Abutment B. The existing wingwall has failed and will be removed from the channel. Repairs to Abutment A will be 10 feet of scour repairs along the downstream wingwall. Non-erodible cofferdams will be placed around both work areas and flowing water will not be allowed to come in contact with concrete until it has hardened. 25 feet of Class II riprap will be placed along the stream bank on the upstream side of Abutment B to prevent the stream from cutting behind the existing wingwall. No instream work will occur from 4/1 to 9/30 of any year to protect the Yellowfin Madtom and Slippershell Mussel. The project will require 1.3 cubic yards & 36 square feet of excavation, along with 3.2 cubic yards & 86 square feet of permanent fill below OHW. The cofferdams will require 2.9 cubic yards & 80 square feet of temporary fill below OHW. All temporary fill will be removed from the stream once repairs are complete. All work will be done from the roadway. A mussel survey/relocation will be done by VA Tech before... See Attachment A.

**V. ENVIRONMENTAL ASSESSMENT** (Avoidance and Impacts are described in greater detail in section VI and VII.)

	<i>Present</i>			<i>Impacts</i>	
	<i>Present</i>	<i>Impacts</i>		<i>Present</i>	<i>Impacts</i>
Federal Threatened/Endangered Species	Yes	*	Water of the U.S	Yes	Yes
State Threatened/Endangered Species	Yes	*	Wetlands	No	No
Anadromous fish	No	No	Riffle Pool Complexes	No	No
Trout	No	No	Other Special Aquatic Sites	No	No
Shellfish	No	No	100 Year Floodplain	Yes	No
Public Water Supply	No	No	Historic/Archeological Resources	No	No
Scenic Rivers	No	No	Air Quality Nonattainment Area	No	No
Navigable Waters	No	No	Tidal Waters/Wetlands:	No	No
Open Water > 1.0 Acre	No	No			

\*Please refer to the T&E Report for T&E Species Impacts



**VI. SUMMARY OF DETAILED ENVIRONMENTAL IMPACT INFORMATION**  
**This project has one jurisdictional crossing.**

**General:**  
 Latitude: 36°45'57" Longitude: 82°19'43" FEMA FIRM number: 51167C0340C  
 Nearest Community: Little Duck, VA Surrounding Land Use: Forest  
 Basin: Tennessee and Big Sandy River Sub-basin: 6B. Clinch River Sub-basin  
 Hydrologic Unit Code: 06010205

**Engineering data for impacts to Waters of the US:**

OHW elevation (feet): 1783	<b>Dredging/Excavation</b>			<b>Filling (Permanent):</b>			<b>Filling (Temporary):</b>		
MLW elevation (feet): N/A	Streams	Open Water	Wetlands	Streams	Open Water	Wetlands	Streams	Open Water	Wetlands
Area (feet <sup>2</sup> )	36	0	0	86	0	0	80	0	0
Quantity (yd <sup>3</sup> ) below OHW	1.3	0	0	3.2	0	0	2.9	0	0
Quantity (yd <sup>3</sup> ) below MLW	0	0	0	0	0	0	0	0	0
Construction Method	MECHANICAL			MECHANICAL			MANUAL		

**Stream Information:**

Stream Name(s): Moll Creek Drainage Area (miles<sup>2</sup>): 9.1  
 Pool/Riffle/Flat ratio: 00/100/00 Average Depth (feet): 1  
 Substrate: bedrock Average Width (feet): 15  
 OHWM Indicator(s): Break in slope  
 DGIF Classification: Other (N/A) Cowardin Classification: R2RS  
 DEQ Classification: IV. Mountainous Zone Waters Section #: 2 Special Standards: x  
 Linear Feet of Permanent Stream Impacts:  
 Perennial- 35 Intermittent- 0 Ephemeral- 0 Riffle/Pool- 0

**Conceptual Stream Mitigation: None Proposed**

**Wetland Information: N/A**

Species identified:

Cowardin Classification(s):

Amount Disturbed(area -feet<sup>2</sup>)

	Emergent		Scrub/Shrub		Forested		Totals	
	Non-Tidal	Tidal	Non-Tidal	Tidal	Non-Tidal	Tidal	Non-Tidal	Tidal
Primary	0	0	0	0	0	0	0	0
Secondary	0	0	0	0	0	0	0	0
Temporary	0	0	0	0	0	0	0	0

**Conceptual Wetland Mitigation: None Proposed**

**Other Natural Resource Information: N/A**

Cowardin Classification(s):

Amount of Impacts

	L.F		S.F	
	Non-Tidal	Tidal	Non-Tidal	Tidal
Permanent	0	0	0	0
Temporary	0	0	0	0

**Conceptual Other Mitigation: None Proposed**

**VII. PROJECT NARRATIVE:**

***Project purpose, need, and description:***

Purpose of this project is repair the existing bridge on Rte. 678 over Moll Creek in Russell County.

***Proposed construction schedule:***

Repairs will begin as soon as permits are cleared and mussel work is complete this fall. Project should take roughly two weeks to complete.

***Project impacts (include a description of all impacts, permanent and temporary):***

Impacts to this project will be a new wing wall, 10 feet of scour repairs and 25 feet of riprap. These repairs will require 1.3 cy & 36 sf of excavation, 3.2 cy & 86 sf of permanent fill. Cofferdams will require 2.9 cy & 80 sf of temporary fill.

***T&E Species (See Attachment F for additional documentation):***

A time of year restriction from 4/1 to 9/30 for instream work will be applied to these repairs. A mussel survey/relocation will be done by VA Tech before repairs begin and VDOT biologist will check and remove all fish from the cofferdams before they are dewatered per DWR approval. No mussels were found on 10/15/2020 survey. No tree removal will be required.

***Cultural Resources (See Attachment E for additional documentation):***

VDOT Effect Determination: NO EFFECT. Project effects limited to (1) a bridge determined not individually eligible for the NRHP pursuant to the September 2017 Bridge MOA between VDOT and VDHR (as amended in June 2018) and not located within an historic district recorded in V-CRIS, and (2) existing right of way, which has been previously disturbed and does not contain... See Attachment A.

**VIII. PROJECT MITIGATION:**

***Project mitigation efforts including AVOIDANCE, MINIMIZATION, AND COMPENSATION:***

***Avoidance:***

All fish and mussels will be removed from the work area before repairs begin by VDOT biologist.

***Minimization:***

All work will be done in the dry by using non-erodible cofferdams.

***Compensation (include functional assessment when applicable):***

No required

**IX. EROSION AND SEDIMENT CONTROLS:**

An erosion and sediment control plan will be prepared and implemented in compliance with the Erosion and Sediment Control Law, the Erosion and Sediment Control Regulations, and the annual erosion and sediment control standards and specifications approved by the Department of Conservation and Recreation.

**X. STORMWATER MANAGEMENT STATEMENT:**

Design of this project will be in compliance with the Stormwater Management Act, the Stormwater Management Regulations, and the annual stormwater management standards, and specifications approved by the Department of Conservation and Recreation.

**XI. MATERIALS ASSESSMENT:**

All fill material shall be clean and free of contaminants in toxic concentrations or amounts in accordance with all applicable laws and regulations.

**XII. FEMA STATEMENT:**

The design of this project will be in compliance with all applicable FEMA-approved state or local floodplain management requirements.

**XIII. DREDGE MATERIAL MANAGEMENT PLAN:**

All dredge material will be removed to an approved, contained, upland location. The disposal area will be of sufficient size and capacity to properly contain the dredge material, to allow for adequate dewatering and settling out of sediment, and to prevent overtopping. The disposal area will be properly stabilized prior to placement of dredge material.

**XIV. NEPA DOCUMENTATION: Not Required**

**Document type:**

**Date:**

**XV. CERTIFICATION (for SPGP/VWPP only):**

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations."

**Applicant Signature:** \_\_\_\_\_

**Name of person signing above:** \_\_\_\_\_  
(print or type)

**Title:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Authorized Agent Signature:** \_\_\_\_\_

**Name of person signing above:** \_\_\_\_\_  
(print or type)

**Title:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**XVI. ATTACHMENTS (Include all that apply):**

- Narratives Continuation (See Attachment A)
- Project Maps [Vicinity, Topo, and FEMA Maps]
- Permit Sketches (Plan views, section views including temporary and permanent impacts)
- Hydraulic Commentary
- Cultural Resources Information
- Threatened and Endangered Species Information (including VDOT T&E Report)
- Photographs
- Jurisdictional Determination Form
- Signed Certification Statement
- SPGP Check List

# Attachment A

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Narratives Continuation

**Attachment A - CONTINUATION:**

**Permitted Activity:**

the repairs and all fish will be removed from within the cofferdams by VDOT biologist after they have been installed.

**Cultural Resources:**

any archaeological sites or battlefields recorded in V-CRIS. Final Effect Determination: NO EFFECT. Stip. 2  
Determination Date: 04/04/2019.

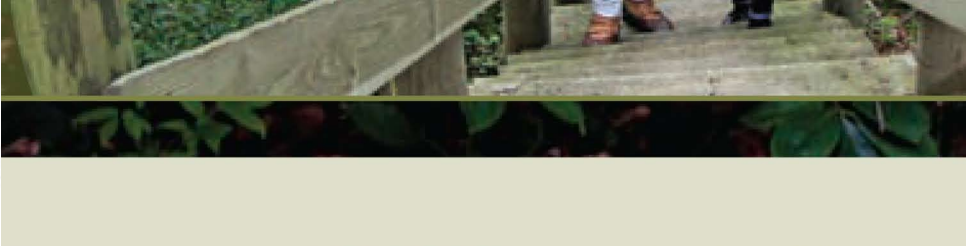
# Attachment B

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## Project Maps

Vicinity, Topo, and FEMA Maps





# VIRGINIA

*"The Old Dominion"*

- Jamestown Colony** — *Founded*
- Statehood** — *June 25, 1788*
- Lowest Elevation** — *Sea Level*
- Highest Elevation** — *Mount*
- State Flower** — *Dogwood*
- State Bird** — *Cardinal*
- Population** — *8,185,867*

0678-083-23806022  
 Permit # 20-4143  
 Russell County  
 Moll Creek



**Project Location**

Notes



VDOT, ITD, CO, Richmond, VA, GIS SIG, Annex, 8th floor, & Env., Copyright © 2013  
 National Geographic Society, F-ubed, VDOT, ITD, CO, Richmond, VA, GIS SIG, Annex, 8th floor

Moll Creek Quad.

0678-083-23806022  
 Permit # 20-4143  
 Russell County  
 Moll Creek

# National Flood Hazard Layer FIRMette



36°46'12.30"N

0678-083-23806022

Permit # 20-4143

Russell County

Moll Creek

AREA OF MINIMAL FLOOD HAZARD  
Zone X

Project Location

RUSSELL COUNTY  
510317

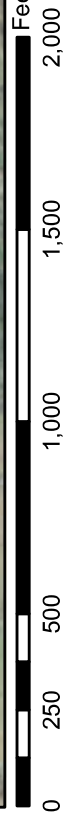
51167 00340C  
eff. 9/29/2010  
Zone A

82°19'25.06"W

USGS The National Map: Orthoimagery. Data refreshed April, 2019.

36°45'43.48"N

Feet 1:6,000



## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

**SPECIAL FLOOD HAZARD AREAS**

- Without Base Flood Elevation (BFE)  
*Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

**OTHER AREAS OF FLOOD HAZARD**

- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

**OTHER AREAS**

- Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

**GENERAL STRUCTURES**

- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

**OTHER FEATURES**

- Cross Sections with 1% Annual Chance Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

**MAP PANELS**

- Digital Data Available
- No Digital Data Available
- Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

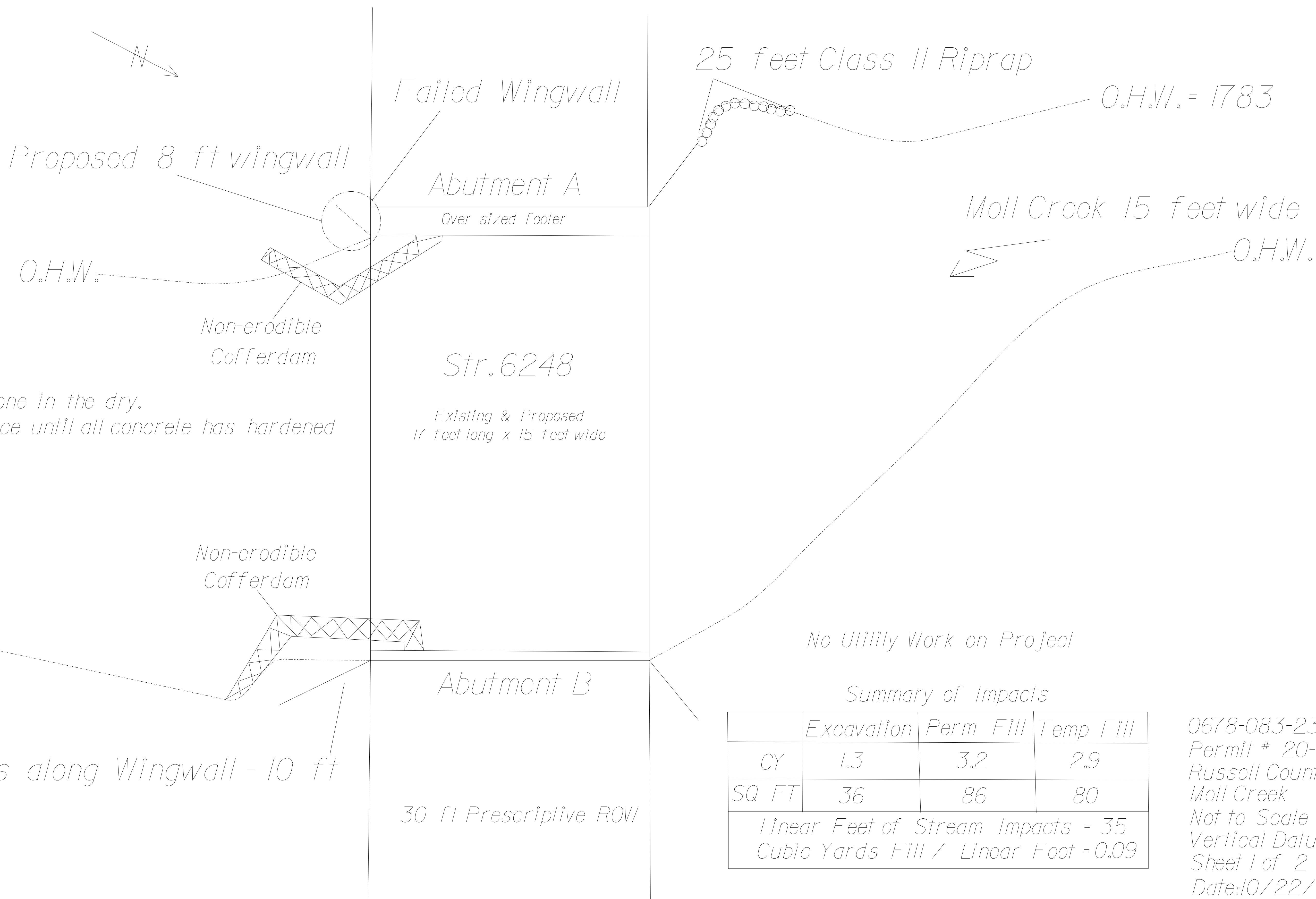
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/24/2019 at 8:19:10 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

# Attachment C

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Permit Sketches



All concrete work must be done in the dry.  
Cofferdams to remain in place until all concrete has hardened

Scour Repairs along Wingwall - 10 ft

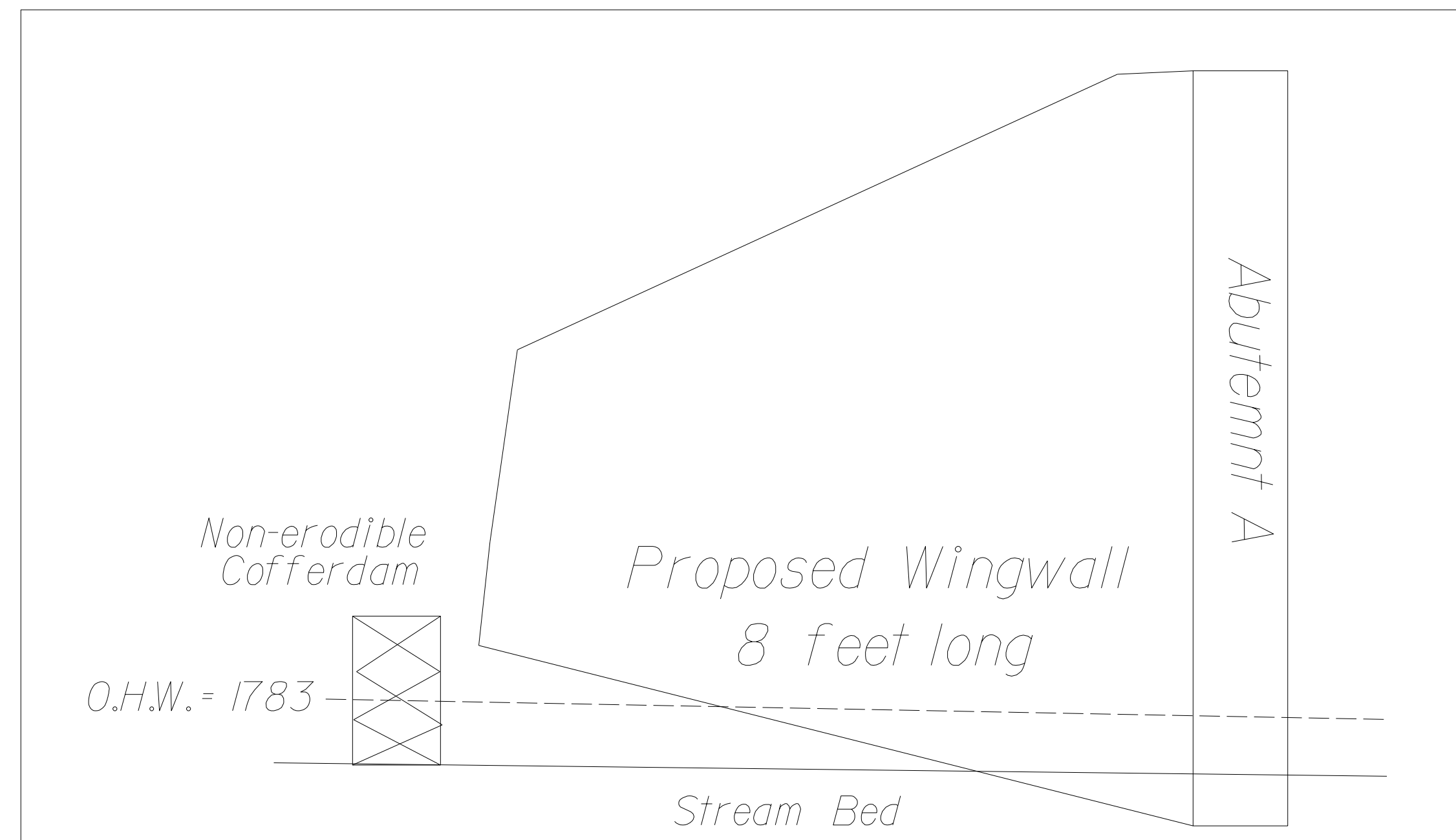
No Utility Work on Project

Summary of Impacts

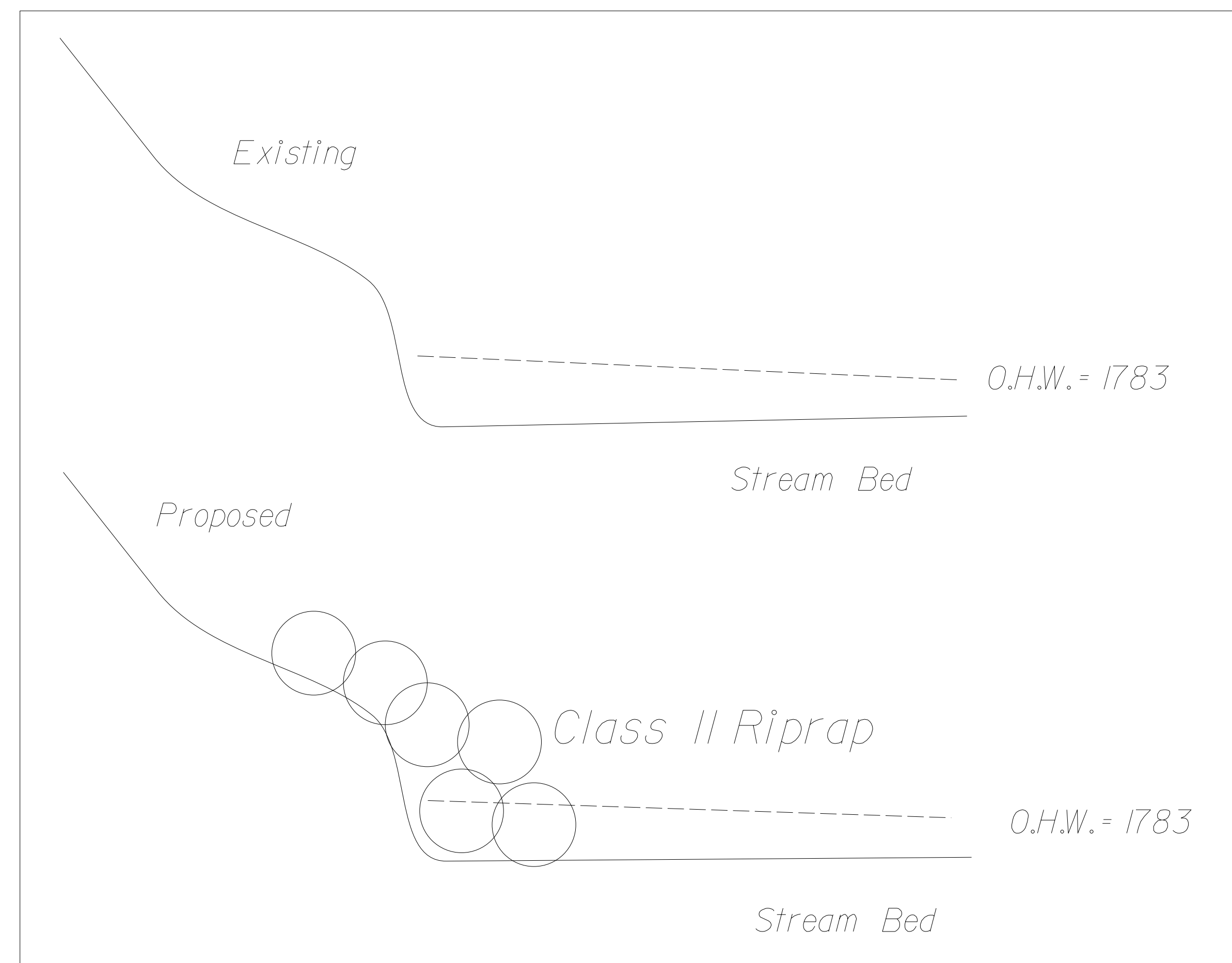
	Excavation	Perm Fill	Temp Fill
CY	1.3	3.2	2.9
SQ FT	36	86	80
Linear Feet of Stream Impacts = 35			
Cubic Yards Fill / Linear Foot = 0.09			

0678-083-23806022  
Permit # 20-4143  
Russell County  
Moll Creek  
Not to Scale  
Vertical Datum=NAD27  
Sheet 1 of 2  
Date:10/22/20

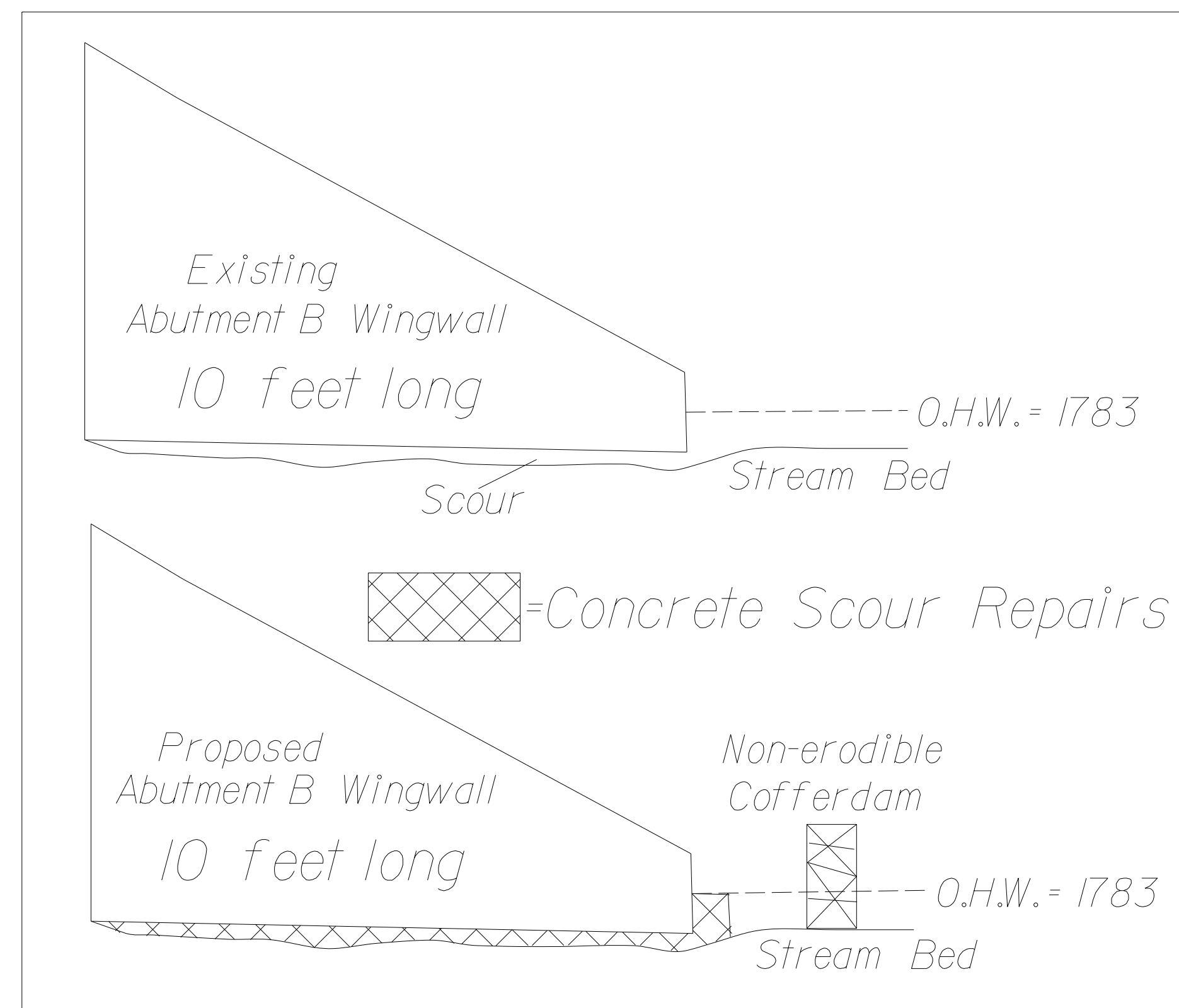
Abutment A Wingwall Replacement



25 feet of Riprap



Abutment B Wingwall Repairs



	Excavation	Perm Fill	Temp Fill
CY	1.3	3.2	2.9
SQ FT	36	86	80
Linear Feet of Stream Impacts = 35			
Cubic Yards Fill / Linear Foot = 0.09			

0678-083-23806022  
 Permit # 20-4143  
 Russell County  
 Moll Creek  
 Not to Scale  
 Vertical Datum=NAD27  
 Sheet 2 of 2  
 Date:10/22/20

# Attachment D

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## Hydraulic Commentary

VIRGINIA DEPARTMENT OF TRANSPORTATION  
LOCATION AND DESIGN  
LOCATION HYDRAULIC STUDY

Project Information			
UPC	N/A	State Project Number	0678-083-23806022
City/County	Russell County	Route	678
Waterbody	Moll Creek		

Study Information				
Project Type	Maintenance			
Description of proposed actions within the Base Flood Plain	Repairs to Bridge #6248 will consist of two phases. Phase I will consist of undermining repair along Abutment B by forming and pouring concrete under the existing footer for the entire length of Abutment B measuring 15' in length. In addition, the downstream wing wall will be formed and poured with concrete for approx. 8' in length. To replace the existing one that collapsed. On the upstream side of Abutment B, Class II riprap will be installed for approx. 25' for the purpose of protecting the wing wall. Phase II will consist of repairing undermining along the downstream wing wall of Abutment A. The area will be formed and poured with concrete for approx. 10'.			
Drainage Area	9.1 sq. mi.			
Roadway Classification	Local		Design Storm	10-year
Panel Number	Zone*	BFE	Floodway Encroachment	Notation
51167C0340C	A	N/A	N/A	
* Only note if in a Zone A, AE, V, or VE area				
Engineers Assessment	Concrete repair work is minimal and placement of stone is to replace material lost due to erosion/scour to protect the wing wall.			
Conclusion				
Further study required	None			
To				
Personal Information				
Completed By	Ernest Blankenship, Jr., P.E.			
With	VDOT, Bristol District Hydraulic Section			
Phone	276-696-3277	Email	ernie.blankenship@vdot.virginia.gov	





MAP SCALE 1" = 1000'



**NFIP**  
**NATIONAL FLOOD INSURANCE PROGRAM**

PANEL 0340C

**FIRM**  
**FLOOD INSURANCE RATE MAP**  
**RUSSELL COUNTY,**  
**VIRGINIA**  
**AND INCORPORATED AREAS**

**PANEL 340 OF 450**  
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

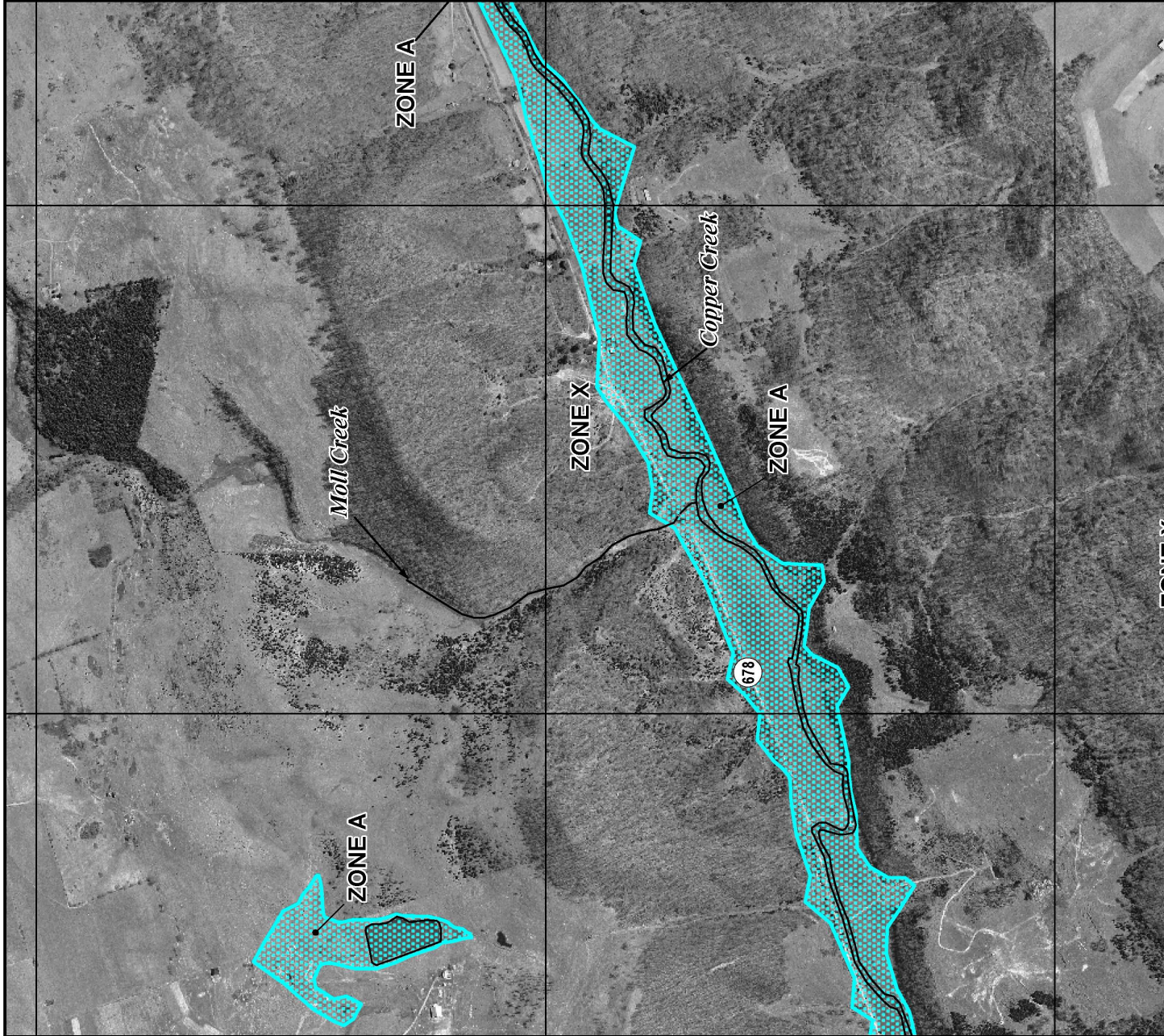
COMMUNITY NUMBER PANEL SUFFIX  
RUSSELL COUNTY 510317 0340 C

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.



**MAP NUMBER**  
**51167C0340C**  
**EFFECTIVE DATE**  
**SEPTEMBER 29, 2010**

**Federal Emergency Management Agency**



This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at [www.msc.fema.gov](http://www.msc.fema.gov)

# Attachment E

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## Cultural Resources Information

## VDOT Cultural Resources Summary Documentation for Interagency Permit Application

**Project Number:** 00678-083-23806022

**Project Name:** RBC-0678-083-364557-821944-Bridge #6248

**VDHR File No.:** -

**District:** Bristol

**Cultural Resources Manager:** Lucas, Kalli S.

**Report Generated:** 10/27/2020

**UPC:**

**Funding Source:** State

**Primary Jurisdiction:** Russell

The following determinations have been made by VDOT Cultural Resources staff for this VDOT project as a whole in consultation with the State Historic Preservation Officer in Virginia (Director of Virginia Department of Historic Resources) in conformance with the requirements of Section 106 of the National Historic Preservation Act (54 U.S.C. 306108) and its implementing regulations, 36 CFR Part 800. The Area of Potential Effects (APE) for the USACOE's undertaking subject to Section 106 may be smaller than the APE defined for the project as a whole.

**Designated Lead Federal Agency for Section 106:** USACE

**Does the project have the potential to affect historic properties, should they be present?** Yes

**Description of Area of Potential Effects (APE):**

**Are there previously recorded architectural resources within the APE?**

**Notes:**

**Date:**

**Are there previously recorded archaeological resources within the APE?**

**Notes:**

**Date:**

**Are historic properties present in the Area of Potential Effects?** No

**Effects Matrix:** Not applicable

**Explanation of Effect Determination:** Project effects limited to (1) a bridge determined not individually eligible for the NRHP pursuant to the September 2017 Bridge MOA between VDOT and VDHR (as amended in June 2018) and not located within an historic district recorded in V-CRIS, and (2) existing right of way, which has been previously disturbed and does not contain any archaeological sites or battlefields recorded in V-CRIS.

**Determination of No Effect made 04/04/2019 and reported to the SHPO in accordance with Stipulation II.A of the Programmatic Agreement among the Federal Highway Administration, the U.S. Army Corps of Engineers, Norfolk District, the Tennessee Valley Authority, the Advisory Council on Historic Preservation, the Virginia State Historic Preservation Officer, and the Virginia Department of Transportation Regarding Transportation Undertakings Subject to Section 106 of the National Historic Preservation Act of 1966 (executed August 2, 2016).**

**Effect Determination (non-"Stip.II.A"):** NO EFFECT

**VDHR Concurrence Date:**

**If Adverse Effect, MOA Execution Date:**

# Attachment F

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## Threatened & Endangered Species Information

## T&E CLEARANCE

Project Name: RBC-0678-083-364557-821944-Bridge #6248 Project Type: Maintenance  
Project Number: 00678-083-23806022 Charge Number: 11163550-11047-72746-167-16502

UPC: Route Type: Secondary

Route Number: 678

District: Bristol City/County: Russell Residency: Lebanon

From: Route 678

To: Route 678

Project Description:

Additional Project Description: The Russell County Bridge Crew plans two phases of repairs to Bridge #6248, located on Rt. 678, along Moll Creek. Phase I will consist of: along Abutment B, several locations of undermining will be repaired by forming and pouring concrete under the existing footer for the entire length of Abutment of B measuring 15' in length. In addition, on Abutment B the downstream wing wall need to be replaced. The wall will be formed and poured with concrete for approx. 8' in length. To conduct this work in the dry, the entire area along Abutment B will be coffered dam with sandbags for approx. 40'. Any water seeping behind the cofferdam will be pumped into a filter bag prior to discharge. On the upstream side of Abutment B, Class II riprap will be installed by placing the rock only for approx. 25' for the purpose of protecting the wing wall located on the upstream side of Abutment B. Phase II will consist of: on the downstream side of Abutment A, repair work will need to be completed along the wing wall that has undermining occurring. The area will be formed and poured with concrete for approx. 10'. To conduct this work in the dry, the work area along the wing wall located on the A Abutment will be coffered dam with sandbags for approx. 20'. Any water seeping behind the cofferdam will be pumped into a filter bag prior to discharge. No tree removal required. Project located in the Moll Creek Quad.

T&E Project Description:

Quadrangle: MOLL CREEK

Latitude: 36°45'57"

Longitude: -82°19'44"

SERP Exempt?: Yes  
Permit Required?: Yes

**SUMMARY:**

- The activity falls within a list of activities that have been determined to have No Effect on Fish, Plant and Wildlife Resources. No additional review required.

**No federal nexus, SERP or state water quality permits required**

- The activity is completely within developed ROW and a Screening Review was conducted.
- The activity is on undeveloped ROW and the Project Limits were evaluated using an Abbreviated Review.

**Federal nexus, SERP or state water quality permits required**

- SERP required. A Full Review was conducted.
- Federal nexus and activities occur within developed ROW. Activities have not been determined to have No Effect. A Screening Review was conducted.
- All other activities. A Full Review was conducted.

**DATE:            REVIEWER:**

- Based upon a review of the appropriate data sources, T&E Resources are known or suspected to be a concern for this project and additional review is required.            06/05/2020    M Short
- Based on a review of the appropriate data sources, No T&E resources are documented or are suspected to be a concern for this project.

**PROJECT PHASE PERMITTING REVIEW COMPLETE**            10/27/2020    D Sanders

**CLEARANCE HISTORY:**

DATE	STAFF CONTACT	PROJECT PHASE	HYPERLINK
10/27/2020	Sanders, Dennis A.	PERMITTING	<a href="#">T&amp;EClearance_10-27-2020T07:06:30.pdf</a>
10/23/2020	Sanders, Dennis A.	PERMITTING	<a href="#">T&amp;EClearance_10-23-2020T09:13:06.pdf</a>
08/12/2020	Short, Margaret R	PERMITTING	<a href="#">T&amp;EClearance_08-12-2020T11:09:02.pdf</a>
07/20/2020	Short, Margaret R	PERMITTING	<a href="#">T&amp;EClearance_07-20-2020T10:23:21.pdf</a>

**SPECIES:**

Species/Status	Effect Determination	TOYR Begin	TOYR End	Data Source	Comments
Northern Long-Eared Bat (Myotis septentrionalis)/ Federal:FT State:ST	May affect, Not Likely to adversely Effect			IPaC OSL	No tree removal is necessary to complete this project. There are no known hibernacula located within 5 miles of the project. A bridge assessment was performed on 3/27/2019. No indicators of bat usage were observed.

Yellowfin Madtom (Noturus flavipinnis)/ Federal:FT State:ST	May affect, Not 4/1 Likely to adversely Effect	8/31	T&E Database Review,IPaC OSL	This project is located on Moll Creek and is approximately 34.5 meters from the confluence with Copper Creek, where this species is known to occur and is listed for CH for this species. Moll Creek is approximately 20-25 feet wide at the project location. Due to the close proximity to Copper Creek, an instream TOYR restriction for work will be assumed from April 1 - August 31 of any year. All instream work will be completed in the dry behind non-erodible cofferdams. The cofferdams will be cleared of fish and mussels prior to dewatering by approved surveyors, as required by USFWS and DGIF. Any water within the work area will be pumped and filtered prior to discharge. All applicable E&S control requirements will be observed.
Slippershell Mussel (Alasmidonta viridis)/ State:SE	May affect, Not 4/15 Likely to adversely Effect	6/15	T&E Database Review	This project is located on Moll Creek and is approximately 34.5 meters from the confluence with Copper Creek, where this species has been known to occur. Moll Creek is approximately 20-25 feet wide at the project location. Per discussions with DGIF and USFWS and due to the close proximity to Copper Creek, an instream TOYR restriction for work will be assumed for the protection of the state listed slippershell mussel from April 15 - June 15 and August 15 - September 30 of any year. All instream work will be completed in the dry behind non-erodible cofferdams. The cofferdams will be cleared of fish and mussels prior to dewatering by approved surveyors, as required by

USFWS and DGIF. Any water within the work area will be pumped and filtered prior to discharge. All applicable E&S control requirements will be observed. A survey/relocation will be performed 10 meters upstream and then downstream to the confluence of Copper Creek (about 34.5 meters).

Indiana Bat ( <i>Myotis sodalis</i> )/ Federal:FE State:SE	May affect, Not Likely to adversely Effect	T&E Database Review,IPaC OSL	No tree removal is necessary to complete this project. There are no known hibernacula located within 5 miles of the project. A bridge assessment was performed on 3/27/2019. No indicators of bat usage were observed.
Gray Bat ( <i>Myotis grisescens</i> )/ Federal:FE State:SE	May affect, Not Likely to adversely Effect	T&E Database Review,IPaC OSL	All E & S requirements will be observed. No caves will be directly impacted by the project. This project is not located within a half mile of any known gray bat use cave buffers. A bridge assessment was performed on 3/27/2019. No indicators of bat usage were observed.
Little Brown Bat ( <i>Myotis lucifugus</i> )/ Federal:SOC State:SE	May affect, Not Likely to adversely Effect	T&E Database Review	No tree removal is necessary to complete this project. There are no known hibernacula located within 5 miles of the project. Abiding by the VDOT Statewide Conservation Plan for this species.
Tri-colored Bat ( <i>Perimyotis subflavus</i> )/ Federal:SOC State:SE	May affect, Not Likely to adversely Effect	T&E Database Review	No tree removal is necessary to complete this project. There are no known hibernacula located within 5 miles of the project. Abiding by the VDOT Statewide Conservation Plan for this species.
Slippershell Mussel ( <i>Alasmidonta viridis</i> )/ State:SE	May affect, Not Likely to adversely Effect	8/15 9/30 T&E Database Review	This project is located on Moll Creek and is approximately 34.5 meters from the confluence with Copper Creek, where this species has been known to



occur. Moll Creek is approximately 20-25 feet wide at the project location. Per discussions with DGIF and USFWS and due to the close proximity to Copper Creek, an instream TOYR restriction for work will be assumed for the protection of the state listed slippershell mussel from April 15 - June 15 and August 15 - September 30 of any year. All instream work will be completed in the dry behind non-erodible cofferdams. The cofferdams will be cleared of fish and mussels prior to dewatering by approved surveyors, as required by USFWS and DGIF. Any water within the work area will be pumped and filtered prior to discharge. All applicable E&S control requirements will be observed. A survey/relocation will be performed 10 meters upstream and then downstream to the confluence of Copper Creek (about 34.5 meters).

MUSSELS -  
GENERAL ()

May affect, Not  
Likely to  
adversely Effect

T&E Database  
Review,IPaC OSL

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See IPaC and GIS Integrator Report for a complete list of mussels. This project is 34.5 meters from the confluence with Copper Creek, where many of these species occur. Moll Creek is approximately 20-25 feet wide at the project location. Per discussions with DGIF and USFWS, an instream TOYR restriction for work will be assumed for the protection of the slippershell mussel from April 15-June 15 and August 15-September 30 of any year. This will also afford protection to other mussel species present downstream. All instream work will be completed in the dry behind non-

erodible cofferdams. The cofferdams will be cleared of fish and mussels prior to dewatering by approved surveyors, as required by USFWS and DGIF. Any water within the work area will be pumped and filtered prior to discharge. All applicable E&S control requirements will be observed. A mussel survey/relocation will be performed 10 meters upstream and then downstream to the confluence of Copper Creek (about 34.5 meters).

T&E WATERS () May affect, Not Likely to adversely Effect

T&E Database Review

The project does not occur in the Big Moccasin Creek drainage. Multiple state and federal T&E species are listed for Copper Creek. This project is located approximately 34.5 meters from the confluence with Copper Creek. All instream work will be completed in the dry behind non-erodible cofferdams. The cofferdams will be cleared of fish and mussels prior to dewatering by approved surveyors, as required by USFWS and DGIF. Any water within the work area will be pumped and filtered prior to discharge. All applicable E&S control requirements will be observed.

**AGENCY COMMENT:**

AGENCY	DATE	COMMENTS
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DNH	06/25/2020	Strict E&S. We recommend coordination with FWS. We recommend coordination with DWR. Furthermore, DCR recommends allowing the concrete to dry before removing the cofferdams. DCR supports the use of cofferdams and a pump and filter to conduct all work in the dry. To minimize impacts to karst resources, DCR recommends the stabilization of the soil around the site be prioritized during all the phases of the project and all standard erosion control measures that are appropriate for the site be used. If karst features such as sinkholes, caves, disappearing streams, and large springs are encountered during the project, please coordinate with Wil Orndorff 540-230-5960, Wil.Orndorff@dcr.virginia. To minimize the potential for invasive species infestation, projects should be conducted to minimize the area of disturbance, and disturbed sites should be revegetated with desirable species at the earliest opportunity following disturbance.
FWS	07/10/2020	Per email from USFWS biologist Rose Agbalog dated 7/10/2020: Thanks for the information. I spoke with Mike Pinder and we won't require that an approved surveyor is present to clear the cofferdams. I don't have any additional recommendations but I'd like to see the results of the relocation effort, and if T&E species are detected I ask that you please notify me.
DGIF	07/13/2020	Per email from DWR biologist Ernie Aschenbach dated 7/13/2020: Provided all work adheres to our standard recommendations for instream work, the proposed combined TOYR (from April 1 through September 30 of any given year) protective if the SE slippershell and the FESE yellowfin madtom, all work is performed in the dry, all concrete is allowed to harden prior to coming in contact with the water, and all mussels and fish are relocated from the cofferdam areas prior to dewatering by qualified professional in accordance with <a href="https://dwr.virginia.gov/wp-content/uploads/mussel-guidelines-11-2018.pdf">https://dwr.virginia.gov/wp-content/uploads/mussel-guidelines-11-2018.pdf</a> and <a href="https://dwr.virginia.gov/wp-content/uploads/media/Fish-Relocation-Best-Practices.pdf">https://dwr.virginia.gov/wp-content/uploads/media/Fish-Relocation-Best-Practices.pdf</a> , we support the proposed work plan. Per our phone discussion today, we understand that VDOT will have Dr. Neves perform mussel survey/relocation. According to VDOT, Mike Pinder has agreed that VDOT environmental staff are allowed to relocate fish from the cofferdam areas. We are distributing these recommendations to Brian Watson, DWR Malacologist; and Mike Pinder, DWR Fisheries Biologist for their concurrence. We support any additional recommendations & clarification they may provide. We recommend contacting the USFWS regarding all federally listed species known from the region. We recommend contacting DCR-DNH regarding resources under their purview known from the region. Please provide any updated info, as it becomes available. Thank you.
DGIF	07/17/2020	Per email from DWR fisheries biologist Mike Pinder on 7/17/2020 regarding VDOT moving fish from cofferdams: Yes but identify and photograph each species. Use a view box so you can get side photographs of each species. Sent me a short write up and photos when you're done. Mike
DGIF	10/26/2020	Time of year restriction on instream work. A species survey was conducted. No T&E species were observed.

**AGENCY COORDINATION RECORD:**

AGENCY NAME	AGENCY TRACKING NUMBER	DATE SUBMITTED	DATE DUE	DATE OF LAST REVIEW
DGIF ESS Log	40750	06/05/2020	07/06/2020	07/13/2020
DNH Number	00678-083-23806022	06/05/2020	07/06/2020	06/25/2020

FWS Consultation Code 05E2VA00-2020-SLI-3630 06/05/2020 07/06/2020 07/10/2020

**C.O. COMMENT:**

REVIEW	SPECIES	DATE	COMMENTS	OTHER REVIEW COMMENTS
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**SURVEY(S) REQUESTED:**

SCOPE	TYPE	REQUEST DATE	SPECIES	SURVEY STATUS	RECOMMENDATIONS
Relocation	Mussel	08/12/2020	MUSSELS - GENERAL ()	COMPLETE	The first mussel relocation survey was conducted on 10/15/2020. Within a reach about 40m downstream to 10m upstream from the project site, no mussels were found. Only a fragment of a Villosa iris shell was seen. The instream habitat has been impacted by surrounding landuse practices.

**RISK ASSESSMENT:**

**If a federally listed species has been identified in the database search, the Risk Assessment must not be used for any species. Review and coordination with state and federal agencies must follow current guidance.**

Project Type:  Maintenance  Construction  
 Resources Present:  Aquatic  Terrestrial

Final Report

Mussel Survey and Relocation at the Route 678 Crossing of Moll Creek, Russell County,  
Virginia

VDOT Project # 00678-083-23806022

Prepared by

Richard J. Neves and William F. Henley  
Department of Fish and Wildlife Conservation  
Virginia Tech  
Blacksburg, Virginia 24061-0321

for

Virginia Department of Transportation  
1401 East Broad Street  
Richmond, Virginia 23219-2000

October 2020

## **Introduction**

VDOT will repair the existing Route 678 bridge over Moll Creek, Russell County, Virginia in two phases, affecting both abutments and requiring coffer dams (Figs. 1, 2, and 3). This reach of the stream is approximately 40 m from the confluence with Copper Creek, where the occurrence of the state-listed Slippershell (*Alasmodonta viridis*) has been documented to occur. Therefore, the VDWR and USFWS recommended a mussel relocation survey (50 m), from 40 m downstream to 10 m upstream of the bridge, to be conducted before commencement of in-stream work. Because of the proximity to Copper Creek, a time-of-year-restriction (TOYR) on construction was imposed from April 15 to June 15 and August 15 to September 30 for the proposed work. This relocation survey was conducted to meet TOYR and follow VDWR guidelines.

## **Methods and Materials**

The stream reach extending from 40 m downstream to 10 m upstream of the Route 678 bridge over Moll Creek was visually searched for mussels in an upstream direction on October 15, 2020 (Figs. 1 through 5). The survey was conducted by Dick Neves and Bill Henley, Department of Fish & Wildlife Conservation, Virginia Tech, Blacksburg, Virginia. Google Earth was used to georeference the boundaries of the surveyed reach (Fig. 1). The relocation survey consisted of two passes in an upstream direction. The creek substratum in the 50 m reach was visually searched for live mussels and shells, with the intent to relocate any observed mussels. Deeper areas were searched by snorkeling (Neves), and shallow areas by viewscope (Henley). We spent a total of 2.8 person-hours of in-creek survey time to search for mussels during the two passes.

## **Results**

Water level was normal, with water depth ranging from approximately 0.1 to 0.8 m. Water was clear, and water velocity was swift throughout much of the surveyed reach. Weather was

partly cloudy to sunny, with an air temperature of approximately 13 C, and water temperature of 12.6° C.

### **Habitat**

The survey area contained mostly riffles and a pool. The 10 m upstream of the bridge contained only one rather high-gradient riffle (Fig. 2), and the 40 m downstream contained one pool just downstream of the bridge, then a riffle and run at the confluence with Copper Creek (Figs. 5 and 6). Upstream of the bridge, banks were approximately 0.5 m in height, and the riparian zones on both banks contained grass, shrubs, and trees; no evidence of bank erosion was observed upstream of the bridge (Fig. 3). Downstream of the bridge, banks were approximately 0.5 to 1.0 m in height, and riparian zones on both banks contained pasture grass, with few shrubs and scattered trees (Figs. 5 and 6). Cattle had open access downstream of the bridge; numerous fresh hoof prints were evident, with obvious bank erosion (Fig. 5).

Substratum in the creek was variable. Bedrock outcrops occurred from approximately 10 m downstream of the bridge to 5 m upstream. Upstream of this bedrock, substratum consisted of loose unconsolidated gravel, sand, and silt. Downstream of the outcrops, substratum also consisted of very loose unconsolidated gravel, sand, and silt. A delta of loose gravel from this creek was evident at the confluence with Copper Creek (Fig. 6). No woody debris was observed in the creek.

### **Mussel Survey**

No mussels were observed during a total of 2.8 person-hours of time during the two survey passes. Only one old fragment of the shell of a rainbow mussel (*Villosa iris*) was collected. We observed no live specimens or shells of Asian clams (*Corbicula fluminea*); snails were uncommon, and crayfish were rare. Observed fish included cyprinid minnows (common), darters (common), and sculpin (rare).

## **Conclusion**

Habitat in this 50 m survey section of Moll Creek is unsuitable for freshwater mussels, due to the high gradient, unstable and unconsolidated substratum, and ongoing effects of cattle access to this section of the creek. It appears that mussels have not resided in lower Moll Creek for many years.



## VDOT Survey Collection Record

VDOT Project Name: RBC-0678-083-364557-821944-Bridge # 6248 (Mussel Survey and Relocation at the Route 678 Crossing of Moll Creek, Russell County, Virginia)

VDOT Project Number: 00678-083-23806022

Project Description: Repair the existing Route 678 bridge over Moll Creek in two phases, affecting both abutments and requiring coffer dams

Survey Type: Mussel survey and relocation (40 m downstream to 10 m upstream of bridge)

Stream Waterbody: Moll Creek

County: Russell County

Drainage: Copper Creek

Bridge Coordinates: Lat: 36.766019 Long: -82.328953

GPS Projection: WGS84      GPS Accuracy: 5 m

Survey Date(s): 10/15/20

Weather: Partly cloudy/Sunny    Water Clarity: Excellent    Water Temperature: 12.6 C

Personnel: Virginia Tech: Dick Neves and Bill Henley from Virginia Tech

Species Observed (Counts): Zero

Total Number of Mussels Observed: Zero

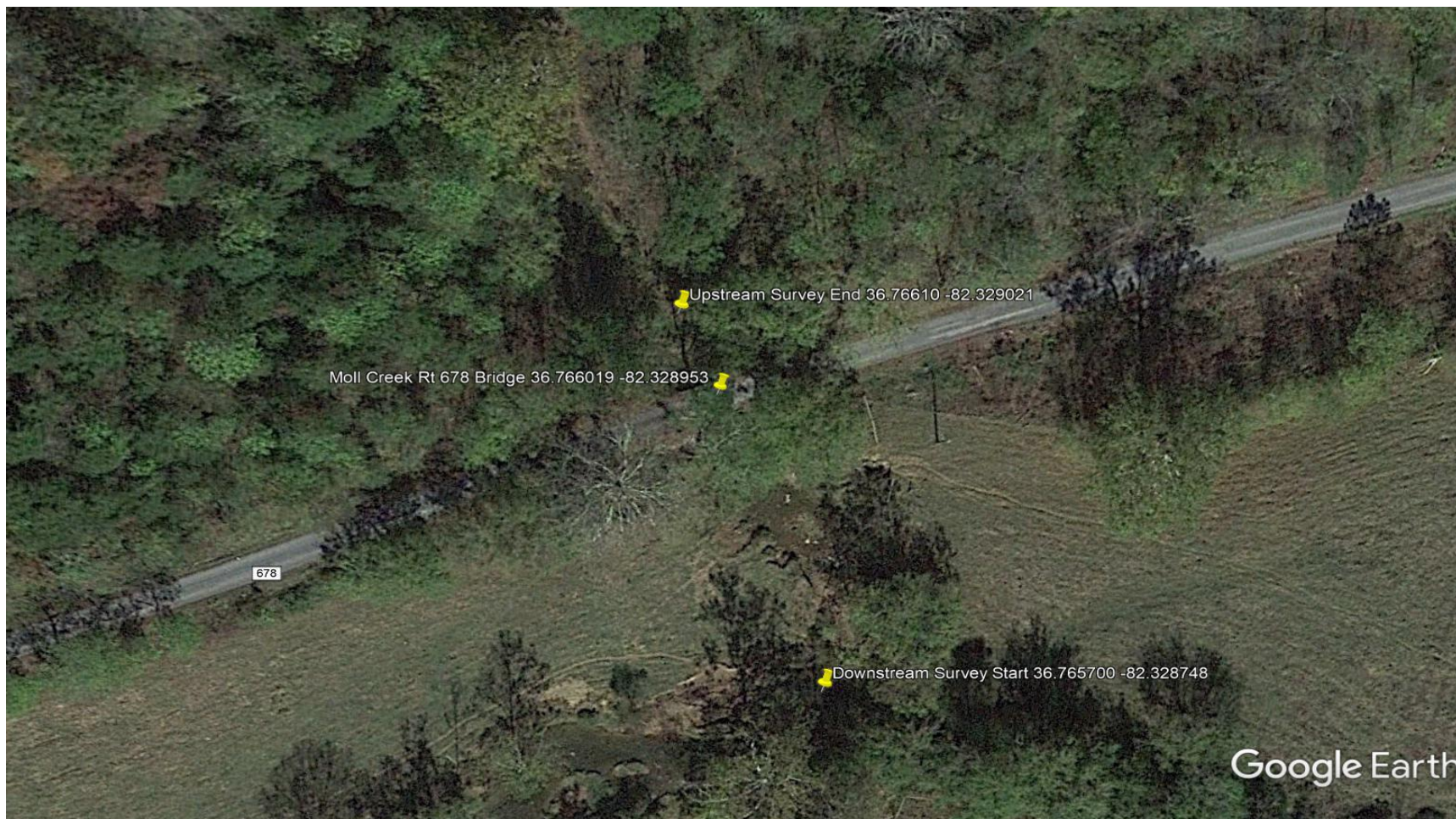
Survey Effort: 2.8 person-hours

Total Catch-Per-Unit-Effort: 0.0 mussels/h

Other Mollusks: Corbicula fluminea absent; snails - uncommon

Comments: Viewscope (Henley) and snorkel (Neves). No muskrat middens. Crayfish-rare; fish- darters (common), cyprinid minnows (common), and sculpin (rare). Water depth- 0.1 to 0.8 m. Right descending bank: upstream of bridge – riparian vegetation included grass, shrubs and trees; bank – 0.5 m, with no erosion; downstream of bridge – pasture grass, with few trees and shrubs; active cattle access, with hoof prints; bank – 0.5 to 1.0 m, with evidence of erosion. Left descending bank: upstream of bridge – same as right descending bank; downstream of bridge – same as right descending bank. Substrate: high gradient creek with riffle upstream and a pool then riffles downstream of bridge; depth ranged from 0.1 m in riffles to 0.8 m in some areas of downstream pool. Only one relic shell of *Villosa iris* collected downstream of bridge.

**Figure 1.** Overhead photo of the Route 678 bridge crossing of Moll Creek, Russell County, Virginia. Note the downstream boundary of the survey area at the confluence of Moll and Copper creeks (40 m downstream of bridge), the bridge position, and upstream survey boundary (10 m upstream of bridge).



**Figure 2.** Looking downstream at the Route 678 bridge crossing of Moll Creek, Russell County, Virginia.



**Figure 3.** Looking upstream at the Route 678 bridge crossing of Moll Creek, Russell County, Virginia.



**Figure 4.** The 10 m survey section upstream of the Route 678 bridge crossing of Moll Creek, Russell County, Virginia.

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**Figure 5.** The 40 m survey section downstream of the Route 678 bridge crossing of Moll Creek, Russell County, Virginia.

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**Figure 6.** The confluence of Moll Creek and Copper Creek in the lower-most section, showing the mouth of Moll Creek.

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Short, Margaret <margaret.short@vdot.virginia.gov>

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**Re: [EXTERNAL] 00678-083-23806022; FWS Consult Code 05E2VA00-2020-SLI-3630; Review Request; VDOT AGENCY COORDINATION; NOT FEDERALLY ELIGIBLE, State Funded, USACE lead**

1 message

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**Agbalog, Rose E** <rose\_agbalog@fws.gov>  
To: "Short, Margaret" <margaret.short@vdot.virginia.gov>

Fri, Jul 10, 2020 at 11:36 AM

Hi Meg,

Thanks for the information. I spoke with Mike Pinder and we won't require that an approved surveyor is present to clear the cofferdams. I don't have any additional recommendations but I'd like to see the results of the relocation effort, and if T&E species are detected I ask that you please notify me.

Rose Agbalog  
U.S. Fish and Wildlife Service  
[330 Cummings St. Suite C, Abingdon, VA 24210](#)  
276-623-1233 x 25  
[rose\\_agbalog@fws.gov](mailto:rose_agbalog@fws.gov)

---

**From:** Short, Margaret <margaret.short@vdot.virginia.gov>  
**Sent:** Friday, July 10, 2020 7:30 AM  
**To:** Agbalog, Rose E <rose\_agbalog@fws.gov>  
**Subject:** Re: [EXTERNAL] 00678-083-23806022; FWS Consult Code 05E2VA00-2020-SLI-3630; Review Request; VDOT AGENCY COORDINATION; NOT FEDERALLY ELIGIBLE, State Funded, USACE lead

Hi Rose,

The project is expected to begin in the fall of 2020 with a duration of 2 weeks.

Let me know if you have more questions.

Thanks,  
Meg

On Thu, Jul 9, 2020 at 1:40 PM Agbalog, Rose E <rose\_agbalog@fws.gov> wrote:

Hey Meg,

Just getting to this project. When are you all proposing to do the actual work and how long will it take?

Rose Agbalog  
U.S. Fish and Wildlife Service  
[330 Cummings St. Suite C, Abingdon, VA 24210](#)  
276-623-1233 x 25  
[rose\\_agbalog@fws.gov](mailto:rose_agbalog@fws.gov)



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**From:** Agbalog, Rose E <[rose\\_agbalog@fws.gov](mailto:rose_agbalog@fws.gov)> on behalf of Southwest Virginia FO, FW5 <[SVFO@fws.gov](mailto:SVFO@fws.gov)>  
**Sent:** Wednesday, July 8, 2020 12:26 PM  
**To:** Agbalog, Rose E <[rose\\_agbalog@fws.gov](mailto:rose_agbalog@fws.gov)>  
**Subject:** Fw: [EXTERNAL] 00678-083-23806022; FWS Consult Code 05E2VA00-2020-SLI-3630; Review Request; VDOT AGENCY COORDINATION; NOT FEDERALLY ELIGIBLE, State Funded, USACE lead

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**From:** Case, Rachel L <[rachel\\_case@fws.gov](mailto:rachel_case@fws.gov)> on behalf of Virginia Field Office, FW5 <[virginiafieldoffice@fws.gov](mailto:virginiafieldoffice@fws.gov)>  
**Sent:** Tuesday, June 9, 2020 3:08 AM  
**To:** Southwest Virginia FO, FW5 <[SVFO@fws.gov](mailto:SVFO@fws.gov)>  
**Subject:** Fw: [EXTERNAL] 00678-083-23806022; FWS Consult Code 05E2VA00-2020-SLI-3630; Review Request; VDOT AGENCY COORDINATION; NOT FEDERALLY ELIGIBLE, State Funded, USACE lead

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**From:** Short, Margaret <[margaret.short@vdot.virginia.gov](mailto:margaret.short@vdot.virginia.gov)>  
**Sent:** Friday, June 5, 2020 2:36 PM  
**To:** Virginia Field Office, FW5 <[virginiafieldoffice@fws.gov](mailto:virginiafieldoffice@fws.gov)>; rr ProjectReview (DGIF) <[ProjectReview@dgif.virginia.gov](mailto:ProjectReview@dgif.virginia.gov)>; Watson, Brian (DGIF) <[brian.watson@dgif.virginia.gov](mailto:brian.watson@dgif.virginia.gov)>  
**Subject:** [EXTERNAL] 00678-083-23806022; FWS Consult Code 05E2VA00-2020-SLI-3630; Review Request; VDOT AGENCY COORDINATION; NOT FEDERALLY ELIGIBLE, State Funded, USACE lead

**00678-083-23806022; FWS Consult Code 05E2VA00-2020-SLI-3630; Review Request; VDOT AGENCY COORDINATION; NOT FEDERALLY ELIGIBLE, State Funded, USACE lead**

- This is an updated review.
- The VDOT project is a NEW project and the project package is submitted for review and concurrence with our effect determinations. The VDOT project number and FWS Consultation Code are referenced above in subject line.
- By copy of this email, we are requesting comment from (check all that apply):
- FWS The referenced project was reviewed on 5/6/2020 using the Virginia Field Office's online project review process, in accordance with all guidance and instructions.
  - DNH (This project has not been submitted through Natural Heritage Data Explorer. SHAPEFILE INCLUDED)
  - DGIF:  
List Species Here: slippershell mussel, Copper Creek (T&E stream)

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### **PROJECT DESCRIPTION**

This is a state funded project with associated USACE water quality permits. This project consists of a phased repair to the Route 678 Bridge (Fed ID No. 016502) located over Moll Creek in Russell County, Virginia. Phase I will consist of repairing the undermining of the entire length of Abutment B by forming and pouring concrete under the existing footer. In addition, the downstream wingwall of Abutment B will be replaced. The wingwall will be formed and poured with concrete for approximately 8 feet in length. To conduct this work in the dry, a sandbag cofferdam will be installed for the entire area along Abutment B (approximately 40 feet in length). Any water seeping behind the cofferdam will be pumped into a filter bag prior to discharge. On the upstream side of Abutment B, Class II

riprap will be installed for approximately 25 feet. Phase II will consist of repair work to undermining of the downstream wing wall of Abutment A. The area will be formed and poured with concrete for approximately 10 feet. To conduct this work in the dry, a sandbag cofferdam will be installed for approximately 20 feet. Any water seeping behind the cofferdam will be pumped into a filter bag prior to discharge. No tree removal is required to complete the project.

This project review is requested to be conducted in conjunction with the Virginia Department of Game and Inland Fisheries in order to determine the correct instream time-of-year restriction (TOYR) for work and mussel survey/relocation requirements. VDOT will assume a combined TOYR for instream work from April 1 – September 30 for the federally listed yellowfin madtom (*Noturus flavipinnis*) and the state listed slippershell mussel (*Alasmidonta viridis*). Is this assumed TOYR sufficient, or are there any other species that need to be considered at this location? Will an approved surveyor for yellowfin madtom need to be present to clear cofferdam areas prior to work? Additionally, VDOT proposes to assume presence of state listed mussel species and conduct a survey/relocation 10 meters upstream and then downstream to the confluence of Copper Creek (~34.5 meters). Is this approach feasible or would it be more prudent to conduct a survey in order to determine presence/absence of federally listed species?

#### **FEDERAL NEXUS**

This project review **IS** needed for a water quality permit from the Army Corps of Engineers for impacts to jurisdictional waters.

The project **IS NOT** eligible for federal funding.

The project **IS NOT** located on federal lands.

The lead agency is **USACOE**.

For additional information, please contact me at the email listed above.

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#### **ENCLOSURES**

- DGIF Coordination Package
- FWS Coordination Package

Thank you,

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Meg Short  
Threatened and Endangered Species Specialist  
VDOT Bristol District  
276.591.0244 cell  
276.696.3446 office

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Meg Short  
Threatened and Endangered Species Specialist  
VDOT Bristol District  
276.591.0244 cell  
276.696.3446 office

From: Meg Short  
Virginia Department of Transportation  
870 Bonham Road  
Bristol, VA 24201  
[margaret.short@vdot.virginia.gov](mailto:margaret.short@vdot.virginia.gov)  
276-591-0244

To: U.S. Fish and Wildlife Service  
Virginia Field Office  
6669 Short Lane  
Gloucester, Virginia 23061

June 5, 2020

Re: Project Review Request, 00678-083-23806022, Consult Code: 05E2VA00-2020-SLI-3630, Russell County, Virginia

We have reviewed the referenced project using the Virginia Field Office's online project review process and have followed all guidance and instructions in completing the review. We completed our review on June 5, 2020 and are submitting our project review package in accordance with the instructions for further review.

The project consists of a phased repair to the Route 678 Bridge (Fed ID No. 016502) located over Moll Creek in Russell County, Virginia. Phase I will consist of repairing the undermining of the entire length of Abutment B by forming and pouring concrete under the existing footer. In addition, the downstream wingwall of Abutment B will be replaced. The wingwall will be formed and poured with concrete for approximately 8 feet in length. To conduct this work in the dry, a sandbag cofferdam will be installed for the entire area along Abutment B (approximately 40 feet in length). Any water seeping behind the cofferdam will be pumped into a filter bag prior to discharge. On the upstream side of Abutment B, Class II riprap will be installed for approximately 25 feet. Phase II will consist of repair work to undermining of the downstream wingwall of Abutment A. The area will be formed and poured with concrete for approximately 10 feet. To conduct this work in the dry, a sandbag cofferdam will be installed for approximately 20 feet. Any water seeping behind the cofferdam will be pumped into a filter bag prior to discharge. Please see the attached sketches and photos for reference.

The project is located at the following coordinates: 36° 45' 57.607"N, 82° 19' 44.229"W. The location of the project and the action area are also included in the enclosed IPaC package.

The project is expected to begin in the fall of 2020 with a duration of 2 weeks.

This is a state funded project with associated USACE water quality permits. This project review is requested to be conducted in conjunction with the Virginia Department of Game and Inland Fisheries in order to determine the correct instream time-of-year restriction (TOYR) for work

and mussel survey/relocation requirements. VDOT will assume a combined TOYR for instream work from April 1 – September 30 for the federally listed yellowfin madtom (*Noturus flavipinnis*) and the state listed slippershell mussel (*Alasmidonta viridis*). Is this assumed TOYR sufficient, or are there any other species that need to be considered at this location? Will an approved surveyor for yellowfin madtom need to be present to clear cofferdam areas prior to work? Additionally, VDOT proposes to assume presence of state listed mussel species and conduct a survey/relocation 10 meters upstream and then downstream to the confluence of Copper Creek (~34.5 meters). Is this approach feasible or would it be more prudent to conduct a survey in order to determine presence/absence of federally listed species?

The enclosed project review package provides the information about the species and critical habitat considered in our review, and the species conclusions table included in the package identifies our determinations for the resources that may be affected by the project.

For additional information, please contact Meg Short at the address listed above.

Sincerely,



Meg Short  
Threatened and Endang. Species Specialist

Enclosures:

- 1) ENTIRE PROJECT REVIEW PACKAGE



## United States Department of the Interior



FISH AND WILDLIFE SERVICE  
Virginia Ecological Services Field Office  
6669 Short Lane  
Gloucester, VA 23061-4410  
Phone: (804) 693-6694 Fax: (804) 693-9032  
<http://www.fws.gov/northeast/virginiafield/>

In Reply Refer To:

May 06, 2020

Consultation Code: 05E2VA00-2020-SLI-3630

Event Code: 05E2VA00-2020-E-10237

Project Name: 00678-083-23806022

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*). Any activity proposed on National Wildlife Refuge lands must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered

species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan ([http://www.fws.gov/windenergy/eagle\\_guidance.html](http://www.fws.gov/windenergy/eagle_guidance.html)). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>; <http://www.towerkill.com>; and <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
  - USFWS National Wildlife Refuges and Fish Hatcheries
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## Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

**Virginia Ecological Services Field Office**

6669 Short Lane

Gloucester, VA 23061-4410

(804) 693-6694

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## Project Summary

Consultation Code: 05E2VA00-2020-SLI-3630

Event Code: 05E2VA00-2020-E-10237

Project Name: 00678-083-23806022

Project Type: BRIDGE CONSTRUCTION / MAINTENANCE

**Project Description:** This is a state funded project with associated USACE water quality permits. This project consists of a phased repair to the Route 678 Bridge (Fed ID No. 016502) located over Moll Creek in Russell County, Virginia. Phase I will consist of repairing the undermining of the entire length of Abutment B by forming and pouring concrete under the existing footer. In addition, the downstream wingwall of Abutment B will be replaced. The wingwall will be formed and poured with concrete for approximately 8 feet in length. To conduct this work in the dry, a sandbag cofferdam will be installed for the entire area along Abutment B (approximately 40 feet in length). Any water seeping behind the cofferdam will be pumped into a filter bag prior to discharge. On the upstream side of Abutment B, Class II riprap will be installed for approximately 25 feet. Phase II will consist of repair work to undermining of the downstream wingwall of Abutment A. The area will be formed and poured with concrete for approximately 10 feet. To conduct this work in the dry, a sandbag cofferdam will be installed for approximately 20 feet. Any water seeping behind the cofferdam will be pumped into a filter bag prior to discharge. No tree removal is required to complete the project.

**Project Location:**

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/place/36.76594275590774N82.3289537017782W>

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Counties: Russell, VA

## Endangered Species Act Species

There is a total of 22 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

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1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

### Mammals

NAME	STATUS
Gray Bat <i>Myotis grisescens</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/6329">https://ecos.fws.gov/ecp/species/6329</a>	Endangered
Indiana Bat <i>Myotis sodalis</i> There is <b>final</b> critical habitat for this species. Your location is outside the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/5949">https://ecos.fws.gov/ecp/species/5949</a>	Endangered
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/9045">https://ecos.fws.gov/ecp/species/9045</a>	Threatened

### Fishes

NAME	STATUS
Yellowfin Madtom <i>Noturus flavipinnis</i> Population: Wherever found, except where listed as an experimental population There is <b>final</b> critical habitat for this species. Your location is outside the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/8565">https://ecos.fws.gov/ecp/species/8565</a>	Threatened

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## Clams

NAME	STATUS
<p>Appalachian Monkeyface (pearlymussel) <i>Quadrula sparsa</i>            No critical habitat has been designated for this species.            Species profile: <a href="https://ecos.fws.gov/ecp/species/7154">https://ecos.fws.gov/ecp/species/7154</a></p>	Endangered
<p>Birdwing Pearlymussel <i>Lemiox rimosus</i>            Population: Wherever found; Except where listed as Experimental Populations            No critical habitat has been designated for this species.            Species profile: <a href="https://ecos.fws.gov/ecp/species/6636">https://ecos.fws.gov/ecp/species/6636</a></p>	Endangered
<p>Cracking Pearlymussel <i>Hemistena lata</i>            Population: Wherever found; Except where listed as Experimental Populations            No critical habitat has been designated for this species.            Species profile: <a href="https://ecos.fws.gov/ecp/species/4130">https://ecos.fws.gov/ecp/species/4130</a></p>	Endangered
<p>Cumberland Bean (pearlymussel) <i>Villosa trabalis</i>            Population: Wherever found; Except where listed as Experimental Populations            No critical habitat has been designated for this species.            Species profile: <a href="https://ecos.fws.gov/ecp/species/6061">https://ecos.fws.gov/ecp/species/6061</a></p>	Endangered
<p>Cumberland Monkeyface (pearlymussel) <i>Quadrula intermedia</i>            Population: Wherever found; Except where listed as Experimental Populations            No critical habitat has been designated for this species.            Species profile: <a href="https://ecos.fws.gov/ecp/species/6999">https://ecos.fws.gov/ecp/species/6999</a></p>	Endangered
<p>Cumberlandian Combshell <i>Epioblasma brevidens</i>            Population: Wherever found; Except where listed as Experimental Populations            There is <b>final</b> critical habitat for this species. Your location is outside the critical habitat.            Species profile: <a href="https://ecos.fws.gov/ecp/species/3119">https://ecos.fws.gov/ecp/species/3119</a></p>	Endangered
<p>Finerayed Pigtoe <i>Fusconaia cuneolus</i>            Population: Wherever found; Except where listed as Experimental Populations            No critical habitat has been designated for this species.            Species profile: <a href="https://ecos.fws.gov/ecp/species/3038">https://ecos.fws.gov/ecp/species/3038</a></p>	Endangered
<p>Fluted Kidneyshell <i>Ptychobranhus subtentum</i>            There is <b>final</b> critical habitat for this species. Your location is outside the critical habitat.            Species profile: <a href="https://ecos.fws.gov/ecp/species/1397">https://ecos.fws.gov/ecp/species/1397</a></p>	Endangered
<p>Littlewing Pearlymussel <i>Pegias fabula</i>            No critical habitat has been designated for this species.            Species profile: <a href="https://ecos.fws.gov/ecp/species/2572">https://ecos.fws.gov/ecp/species/2572</a></p>	Endangered
<p>Oyster Mussel <i>Epioblasma capsaeformis</i>            Population: Wherever found; Except where listed as Experimental Populations            There is <b>final</b> critical habitat for this species. Your location is outside the critical habitat.            Species profile: <a href="https://ecos.fws.gov/ecp/species/2099">https://ecos.fws.gov/ecp/species/2099</a></p>	Endangered

NAME	STATUS
<p>Purple Bean <i>Villosa perpurpurea</i>            There is <b>final</b> critical habitat for this species. Your location is outside the critical habitat.            Species profile: <a href="https://ecos.fws.gov/ecp/species/4125">https://ecos.fws.gov/ecp/species/4125</a></p>	Endangered
<p>Rough Rabbitsfoot <i>Quadrula cylindrica strigillata</i>            There is <b>final</b> critical habitat for this species. Your location is outside the critical habitat.            Species profile: <a href="https://ecos.fws.gov/ecp/species/5629">https://ecos.fws.gov/ecp/species/5629</a></p>	Endangered
<p>Sheepnose Mussel <i>Plethobasus cyphus</i>            No critical habitat has been designated for this species.            Species profile: <a href="https://ecos.fws.gov/ecp/species/6903">https://ecos.fws.gov/ecp/species/6903</a></p>	Endangered
<p>Shiny Pigtoe <i>Fusconaia cor</i>            Population: Wherever found; Except where listed as Experimental Populations            No critical habitat has been designated for this species.            Species profile: <a href="https://ecos.fws.gov/ecp/species/2573">https://ecos.fws.gov/ecp/species/2573</a></p>	Endangered
<p>Slabside Pearlymussel <i>Pleuonaia dolabelloides</i>            There is <b>final</b> critical habitat for this species. Your location is outside the critical habitat.            Species profile: <a href="https://ecos.fws.gov/ecp/species/1518">https://ecos.fws.gov/ecp/species/1518</a></p>	Endangered
<p>Snuffbox Mussel <i>Epioblasma triquetra</i>            No critical habitat has been designated for this species.            Species profile: <a href="https://ecos.fws.gov/ecp/species/4135">https://ecos.fws.gov/ecp/species/4135</a></p>	Endangered
<p>Spectaclecase (mussel) <i>Cumberlandia monodonta</i>            No critical habitat has been designated for this species.            Species profile: <a href="https://ecos.fws.gov/ecp/species/7867">https://ecos.fws.gov/ecp/species/7867</a></p>	Endangered
<p>Tan Riffleshell <i>Epioblasma florentina walkeri</i> (= <i>E. walkeri</i>)            No critical habitat has been designated for this species.            Species profile: <a href="https://ecos.fws.gov/ecp/species/1247">https://ecos.fws.gov/ecp/species/1247</a></p>	Endangered

## Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

# USFWS National Wildlife Refuge Lands And Fish Hatcheries

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

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**Species Conclusions Table**

Name: 00678-083-23806022, Consultation Code: 05E2VA00-2020-SLI-3630

Date: June 5, 2020

Species / Resource Name	Conclusion	ESA Section 7 / Eagle Act Determination	Notes / Documentation
Gray bat - <i>Myotis grisescens</i>	Suitable habitat present, species not present	Not likely to adversely affect	With rare exceptions, lives in caves year-round. In winter hibernates in deep vertical caves & in summer roost in caves scattered along rivers. <b>All E &amp; S requirements will be observed. No caves will be directly impacted by the project. This project is not located within a half mile of any known gray bat use cave buffers. A bridge assessment was performed on 3/27/2019. No indicators of bat usage were observed.</b>
Indiana bat - <i>Myotis sodalis</i>	Suitable habitat present, species not present	Not likely to adversely affect	Uses cave/ occasionally abandoned mine hibernacula. Summer habitat is wooded areas, usually roost under loose tree bark on dead or dying trees. <b>No tree removal is necessary to complete this project. There are no known hibernacula located within 5 miles of the project. A bridge assessment was performed on 3/27/2019. No indicators of bat usage were observed.</b>
Northern long-eared bat - <i>Myotis septentrionalis</i>	Suitable habitat present, species not present	Not likely to adversely affect	Hibernates in caves and mines with large openings and spaces with high humidity and no air movement. Can be found in cracks and crevices with only its nose and ears exposed. Roosts under bark and in cracks and cavities of live and dead trees. Has been known to roost in barns and sheds. <b>No tree removal is necessary to complete this project. There are no known hibernacula located within 5 miles of the project. A bridge assessment was performed on 3/27/2019. No indicators of bat usage were observed.</b>
Yellowfin madtom - <i>Noturus flavipinnis</i>	Species (listed/proposed) present	Not likely to adversely affect	Occurs in unpolluted medium-sized to large creeks to small rivers with moderate to gentle gradient. <b>This project is located on Moll Creek and is approximately 34.5 meters from the confluence with Copper Creek, where this species is known to occur. Moll Creek is approximately 20-25 feet wide at the project location. See attached photos for reference. Due to the close proximity to Copper Creek, an instream TOYR restriction for work will be assumed from April 1 - August 31 of any year. All instream work will be completed in the dry behind non-erodible cofferdams. The cofferdams will be cleared of fish and mussels prior to dewatering by approved surveyors, as required by USFWS and DGIF. Any water within the work area will be pumped and filtered prior to discharge. All applicable E&amp;S control requirements will be observed.</b>

Appalachian monkeyface - <i>Quadrula sparsa</i>	Potential habitat present and no current survey conducted	Not likely to adversely affect	Occurs in shallow fast-water riffles and runs, resides in stable, silt-free areas with substrata of mixed sized ranging from sand to cobble. This project is located on Moll Creek and is approximately 34.5 meters from the confluence with Copper Creek, where this species has been known to occur. Moll Creek is approximately 20-25 feet wide at the project location. See attached photos for reference. Due to the close proximity to Copper Creek, an instream TOYR restriction for work will be assumed for the protection of the state listed slippershell mussel ( <i>Alasmidonta viridis</i> ) from April 15 - June 15 and August 15 - September 30 of any year. This will also afford protection to any federally listed mussels that may occur downstream. All instream work will be completed in the dry behind non-erodible cofferdams. The cofferdams will be cleared of fish and mussels prior to dewatering by approved surveyors, as required by USFWS and DGIF. Any water within the work area will be pumped and filtered prior to discharge. All applicable E&S control requirements will be observed.
Birdwing pearlymussel - <i>Lemiox rimosus</i>	Potential habitat present and no current survey conducted	Not likely to adversely affect	Riffle-dwelling usually occurs in moderate to fast-flowing water of shallow to moderate depth (2.0m). Resides in stable, silt-free substrata of mixed particle sizes ranging from sand to cobble. This project is located on Moll Creek and is approximately 34.5 meters from the confluence with Copper Creek, where this species has been known to occur. Moll Creek is approximately 20-25 feet wide at the project location. See attached photos for reference. Due to the close proximity to Copper Creek, an instream TOYR restriction for work will be assumed for the protection of the state listed slippershell mussel ( <i>Alasmidonta viridis</i> ) from April 15 - June 15 and August 15 - September 30 of any year. This will also afford protection to any federally listed mussels that may occur downstream. All instream work will be completed in the dry behind non-erodible cofferdams. The cofferdams will be cleared of fish and mussels prior to dewatering by approved surveyors, as required by USFWS and DGIF. Any water within the work area will be pumped and filtered prior to discharge. All applicable E&S control requirements will be observed.
Crackling pearlymussel - <i>Hemistena lata</i>	Potential habitat present and no current survey conducted	Not likely to adversely affect	Occurs at fords & shoals with sand & gravel substrata and moderate current velocities. This project is located on Moll Creek and is approximately 34.5 meters from the confluence with Copper Creek, where this species has been known to occur. Moll Creek is approximately 20-25 feet wide at the project location. See attached photos for reference. Due to the close proximity to Copper Creek, an instream TOYR restriction for work will be assumed for the protection of the state listed slippershell mussel ( <i>Alasmidonta viridis</i> ) from April 15 - June 15 and August 15 - September 30 of any year. This will also afford protection to any federally listed mussels that may occur downstream. All instream work will be completed in the dry behind non-erodible cofferdams. The cofferdams will be cleared of fish and mussels prior to dewatering by approved surveyors, as required by USFWS and DGIF. Any water within the work area will be pumped and filtered prior to discharge. All applicable E&S control requirements will be observed.

Cumberland bean - <i>Villosa trabalis</i>	Potential habitat present and no current survey conducted	Not likely to adversely affect	Inhabits small rivers & streams in fast riffles with gravel or sand & gravel substrate. This project is located on Moll Creek and is approximately 34.5 meters from the confluence with Copper Creek, where this species has been known to occur. Moll Creek is approximately 20-25 feet wide at the project location. See attached photos for reference. Due to the close proximity to Copper Creek, an instream TOYR restriction for work will be assumed for the protection of the state listed slippershell mussel ( <i>Alasmidonta viridis</i> ) from April 15 - June 15 and August 15 - September 30 of any year. This will also afford protection to any federally listed mussels that may occur downstream. All instream work will be completed in the dry behind non-erodible cofferdams. The cofferdams will be cleared of fish and mussels prior to dewatering by approved surveyors, as required by USFWS and DGIF. Any water within the work area will be pumped and filtered prior to discharge. All applicable E&S control requirements will be observed.
Cumberland monkeyface - <i>Quadrula intermedia</i>	Potential habitat present and no current survey conducted	Not likely to adversely affect	Occurs in fast waters of riffles and runs of small to mid-sized river. This project is located on Moll Creek and is approximately 34.5 meters from the confluence with Copper Creek, where this species has been known to occur. Moll Creek is approximately 20-25 feet wide at the project location. See attached photos for reference. Due to the close proximity to Copper Creek, an instream TOYR restriction for work will be assumed for the protection of the state listed slippershell mussel ( <i>Alasmidonta viridis</i> ) from April 15 - June 15 and August 15 - September 30 of any year. This will also afford protection to any federally listed mussels that may occur downstream. All instream work will be completed in the dry behind non-erodible cofferdams. The cofferdams will be cleared of fish and mussels prior to dewatering by approved surveyors, as required by USFWS and DGIF. Any water within the work area will be pumped and filtered prior to discharge. All applicable E&S control requirements will be observed.
Cumberlandian combshell - <i>Epioblasma brevidens</i>	Potential habitat present and no current survey conducted	Not likely to adversely affect	Occurs in clean gravel shoals & riffles of medium-sized streams. Is not associated with small stream habitats. This project is located on Moll Creek and is approximately 34.5 meters from the confluence with Copper Creek, where this species has been known to occur. Moll Creek is approximately 20-25 feet wide at the project location. See attached photos for reference. Due to the close proximity to Copper Creek, an instream TOYR restriction for work will be assumed for the protection of the state listed slippershell mussel ( <i>Alasmidonta viridis</i> ) from April 15 - June 15 and August 15 - September 30 of any year. This will also afford protection to any federally listed mussels that may occur downstream. All instream work will be completed in the dry behind non-erodible cofferdams. The cofferdams will be cleared of fish and mussels prior to dewatering by approved surveyors, as required by USFWS and DGIF. Any water within the work area will be pumped and filtered prior to discharge. All applicable E&S control requirements will be observed.



Finerayed pigtoe - <i>Fusconaia cuneolus</i>	Potential habitat present and no current survey conducted	Not likely to adversely affect	Usually inhabits ford and shoal areas of rivers with moderate gradient. This project is located on Moll Creek and is approximately 34.5 meters from the confluence with Copper Creek, where this species has been known to occur. Moll Creek is approximately 20-25 feet wide at the project location. See attached photos for reference. Due to the close proximity to Copper Creek, an instream TOYR restriction for work will be assumed for the protection of the state listed slippershell mussel ( <i>Alasmidonta viridis</i> ) from April 15 - June 15 and August 15 - September 30 of any year. This will also afford protection to any federally listed mussels that may occur downstream. All instream work will be completed in the dry behind non-erodible cofferdams. The cofferdams will be cleared of fish and mussels prior to dewatering by approved surveyors, as required by USFWS and DGIF. Any water within the work area will be pumped and filtered prior to discharge. All applicable E&S control requirements will be observed.
Fluted Kidneyshell - <i>Ptychobranchus subtentum</i>	Potential habitat present and no current survey conducted	Not likely to adversely affect	Inhabits small to medium rivers in areas with swift current or riffles. This project is located on Moll Creek and is approximately 34.5 meters from the confluence with Copper Creek, where this species has been known to occur. Moll Creek is approximately 20-25 feet wide at the project location. See attached photos for reference. Due to the close proximity to Copper Creek, an instream TOYR restriction for work will be assumed for the protection of the state listed slippershell mussel ( <i>Alasmidonta viridis</i> ) from April 15 - June 15 and August 15 - September 30 of any year. This will also afford protection to any federally listed mussels that may occur downstream. All instream work will be completed in the dry behind non-erodible cofferdams. The cofferdams will be cleared of fish and mussels prior to dewatering by approved surveyors, as required by USFWS and DGIF. Any water within the work area will be pumped and filtered prior to discharge. All applicable E&S control requirements will be observed.
Littleneck pearlymussel - <i>Pegias fabula</i>	Potential habitat present and no current survey conducted	Not likely to adversely affect	Found in high-gradient tributary streams. This project is located on Moll Creek and is approximately 34.5 meters from the confluence with Copper Creek, where this species has been known to occur. Moll Creek is approximately 20-25 feet wide at the project location. See attached photos for reference. Due to the close proximity to Copper Creek, an instream TOYR restriction for work will be assumed for the protection of the state listed slippershell mussel ( <i>Alasmidonta viridis</i> ) from April 15 - June 15 and August 15 - September 30 of any year. This will also afford protection to any federally listed mussels that may occur downstream. All instream work will be completed in the dry behind non-erodible cofferdams. The cofferdams will be cleared of fish and mussels prior to dewatering by approved surveyors, as required by USFWS and DGIF. Any water within the work area will be pumped and filtered prior to discharge. All applicable E&S control requirements will be observed.

Oyster mussel - <i>Epioblasma capsaeformis</i>	Potential habitat present and no current survey conducted	Not likely to adversely affect	Inhabits riffle & shoal areas of small to medium sized streams, found in fine to coarse gravel & in pocket of gravel between bedrock ledges in areas of swift-current. <b>This project is located on Moll Creek and is approximately 34.5 meters from the confluence with Copper Creek, where this species has been known to occur. Moll Creek is approximately 20-25 feet wide at the project location. See attached photos for reference. Due to the close proximity to Copper Creek, an instream TOYR restriction for work will be assumed for the protection of the state listed slippershell mussel (<i>Alasmidonta viridis</i>) from April 15 - June 15 and August 15 - September 30 of any year. This will also afford protection to any federally listed mussels that may occur downstream. All instream work will be completed in the dry behind non-erodible cofferdams. The cofferdams will be cleared of fish and mussels prior to dewatering by approved surveyors, as required by USFWS and DGIF. Any water within the work area will be pumped and filtered prior to discharge. All applicable E&amp;S control requirements will be observed.</b>
Purple bean - <i>Villosa perpurpurea</i>	Potential habitat present and no current survey conducted	Not likely to adversely affect	Restricted to headwater streams and found in moderate to fast-flowing water in clean-swept sand, gravel and cobble. <b>This project is located on Moll Creek and is approximately 34.5 meters from the confluence with Copper Creek, where this species has been known to occur. Moll Creek is approximately 20-25 feet wide at the project location. See attached photos for reference. Due to the close proximity to Copper Creek, an instream TOYR restriction for work will be assumed for the protection of the state listed slippershell mussel (<i>Alasmidonta viridis</i>) from April 15 - June 15 and August 15 - September 30 of any year. This will also afford protection to any federally listed mussels that may occur downstream. All instream work will be completed in the dry behind non-erodible cofferdams. The cofferdams will be cleared of fish and mussels prior to dewatering by approved surveyors, as required by USFWS and DGIF. Any water within the work area will be pumped and filtered prior to discharge. All applicable E&amp;S control requirements will be observed.</b>
Rough rabbitsfoot - <i>Quadrula cylindrica strigillata</i>	Potential habitat present and no current survey conducted	Not likely to adversely affect	Occurs in swift streams with gravel bottoms and moderate current. <b>This project is located on Moll Creek and is approximately 34.5 meters from the confluence with Copper Creek, where this species has been known to occur. Moll Creek is approximately 20-25 feet wide at the project location. See attached photos for reference. Due to the close proximity to Copper Creek, an instream TOYR restriction for work will be assumed for the protection of the state listed slippershell mussel (<i>Alasmidonta viridis</i>) from April 15 - June 15 and August 15 - September 30 of any year. This will also afford protection to any federally listed mussels that may occur downstream. All instream work will be completed in the dry behind non-erodible cofferdams. The cofferdams will be cleared of fish and mussels prior to dewatering by approved surveyors, as required by USFWS and DGIF. Any water within the work area will be pumped and filtered prior to discharge. All applicable E&amp;S control requirements will be observed.</b>

Sheepnose mussel - <i>Plethobasus cyphus</i>	Potential habitat present and no current survey conducted	Not likely to adversely affect	Found in large rivers and absent from small tributary streams. This project is located on Moll Creek and is approximately 34.5 meters from the confluence with Copper Creek, where this species has been known to occur. Moll Creek is approximately 20-25 feet wide at the project location. See attached photos for reference. Due to the close proximity to Copper Creek, an instream TOYR restriction for work will be assumed for the protection of the state listed slippershell mussel ( <i>Alasmidonta viridis</i> ) from April 15 - June 15 and August 15 - September 30 of any year. This will also afford protection to any federally listed mussels that may occur downstream. All instream work will be completed in the dry behind non-erodible cofferdams. The cofferdams will be cleared of fish and mussels prior to dewatering by approved surveyors, as required by USFWS and DGIF. Any water within the work area will be pumped and filtered prior to discharge. All applicable E&S control requirements will be observed.
Shiny pigtoe - <i>Fusconaia cor</i>	Potential habitat present and no current survey conducted	Not likely to adversely affect	Occurs at fords, shoals and other relatively shallow areas with moderate to fast currents. This project is located on Moll Creek and is approximately 34.5 meters from the confluence with Copper Creek, where this species has been known to occur. Moll Creek is approximately 20-25 feet wide at the project location. See attached photos for reference. Due to the close proximity to Copper Creek, an instream TOYR restriction for work will be assumed for the protection of the state listed slippershell mussel ( <i>Alasmidonta viridis</i> ) from April 15 - June 15 and August 15 - September 30 of any year. This will also afford protection to any federally listed mussels that may occur downstream. All instream work will be completed in the dry behind non-erodible cofferdams. The cofferdams will be cleared of fish and mussels prior to dewatering by approved surveyors, as required by USFWS and DGIF. Any water within the work area will be pumped and filtered prior to discharge. All applicable E&S control requirements will be observed.
Slabside pearlymussel - <i>Pleuroaia dolabelloides</i>	Potential habitat present and no current survey conducted	Not likely to adversely affect	Resides in shoal and riffle habitats of intermediate-sized streams, characterized by moderate to fast flowing water. This project is located on Moll Creek and is approximately 34.5 meters from the confluence with Copper Creek, where this species has been known to occur. Moll Creek is approximately 20-25 feet wide at the project location. See attached photos for reference. Due to the close proximity to Copper Creek, an instream TOYR restriction for work will be assumed for the protection of the state listed slippershell mussel ( <i>Alasmidonta viridis</i> ) from April 15 - June 15 and August 15 - September 30 of any year. This will also afford protection to any federally listed mussels that may occur downstream. All instream work will be completed in the dry behind non-erodible cofferdams. The cofferdams will be cleared of fish and mussels prior to dewatering by approved surveyors, as required by USFWS and DGIF. Any water within the work area will be pumped and filtered prior to discharge. All applicable E&S control requirements will be observed.

Snuffbox mussel - <i>Epioblasma triquetra</i>	Potential habitat present and no current survey conducted	Not likely to adversely affect	Prefers swiftly flowing water, found in clean gravel shoals & riffles of medium-sized to large streams. Reported in riffles with sandy or stony bottoms, often buried deeply in the sand. <b>This project is located on Moll Creek and is approximately 34.5 meters from the confluence with Copper Creek, where this species has been known to occur. Moll Creek is approximately 20-25 feet wide at the project location. See attached photos for reference. Due to the close proximity to Copper Creek, an instream TOYR restriction for work will be assumed for the protection of the state listed slippershell mussel (<i>Alasmidonta viridis</i>) from April 15 - June 15 and August 15 - September 30 of any year. This will also afford protection to any federally listed mussels that may occur downstream. All instream work will be completed in the dry behind non-erodible cofferdams. The cofferdams will be cleared of fish and mussels prior to dewatering by approved surveyors, as required by USFWS and DGIF. Any water within the work area will be pumped and filtered prior to discharge. All applicable E&amp;S control requirements will be observed.</b>
Spectaclecase - <i>Cumberlandia monodonta</i>	Potential habitat present and no current survey conducted	Not likely to adversely affect	Occurs in clean, free-flowing rivers, often imbedded at the base of large boulders or along cracks in ledges, prefers stable bottom with large cobble or boulders. <b>This project is located on Moll Creek and is approximately 34.5 meters from the confluence with Copper Creek, where this species has been known to occur. Moll Creek is approximately 20-25 feet wide at the project location. See attached photos for reference. Due to the close proximity to Copper Creek, an instream TOYR restriction for work will be assumed for the protection of the state listed slippershell mussel (<i>Alasmidonta viridis</i>) from April 15 - June 15 and August 15 - September 30 of any year. This will also afford protection to any federally listed mussels that may occur downstream. All instream work will be completed in the dry behind non-erodible cofferdams. The cofferdams will be cleared of fish and mussels prior to dewatering by approved surveyors, as required by USFWS and DGIF. Any water within the work area will be pumped and filtered prior to discharge. All applicable E&amp;S control requirements will be observed.</b>
Tan riffleshell - <i>Epioblasma florentina walkeri</i>	Potential habitat present and no current survey conducted	Not likely to adversely affect	Inhabits clean gravel substrate, has been found in riffle & shoal areas of small to medium-sized streams. <b>This project is located on Moll Creek and is approximately 34.5 meters from the confluence with Copper Creek, where this species has been known to occur. Moll Creek is approximately 20-25 feet wide at the project location. See attached photos for reference. Due to the close proximity to Copper Creek, an instream TOYR restriction for work will be assumed for the protection of the state listed slippershell mussel (<i>Alasmidonta viridis</i>) from April 15 - June 15 and August 15 - September 30 of any year. This will also afford protection to any federally listed mussels that may occur downstream. All instream work will be completed in the dry behind non-erodible cofferdams. The cofferdams will be cleared of fish and mussels prior to dewatering by approved surveyors, as required by USFWS and DGIF. Any water within the work area will be pumped and filtered prior to discharge. All applicable E&amp;S control requirements will be observed.</b>
<b>Critical Habitat</b>			

Critical Habitat	Critical habitat present	Not likely to adversely affect	<p>This project is located within USFWS designated critical habitat for Copper Creek FID # 8 for yellowfin madtom. <b>This project is located on Moll Creek and is approximately 34.5 meters from the confluence with Copper Creek, which is listed as USFWS designated Critical Habitat for yellowfin madtom. Moll Creek is approximately 20-25 feet wide at the project location. See attached photos for reference. Due to the close proximity to Copper Creek, an instream TOYR restriction for work will be assumed from April 1 - August 31 of any year, for the protection of the yellowfin madtom. All instream work will be completed in the dry behind non-erodible cofferdams. The cofferdams will be cleared of fish and mussels prior to dewatering by approved surveyors, as required by USFWS and DGIF. Any water within the work area will be pumped and filtered prior to discharge. All applicable E&amp;S control requirements will be observed.</b></p>
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# Looking west along Route 678



# Looking upstream – Moll Creek



# Looking downstream – Moll Creek





# 25 feet of riprap on west bank of Moll Creek



Area of new wingwall – downstream side Abutment B



# Repair scour along wingwall – downstream side Abutment A

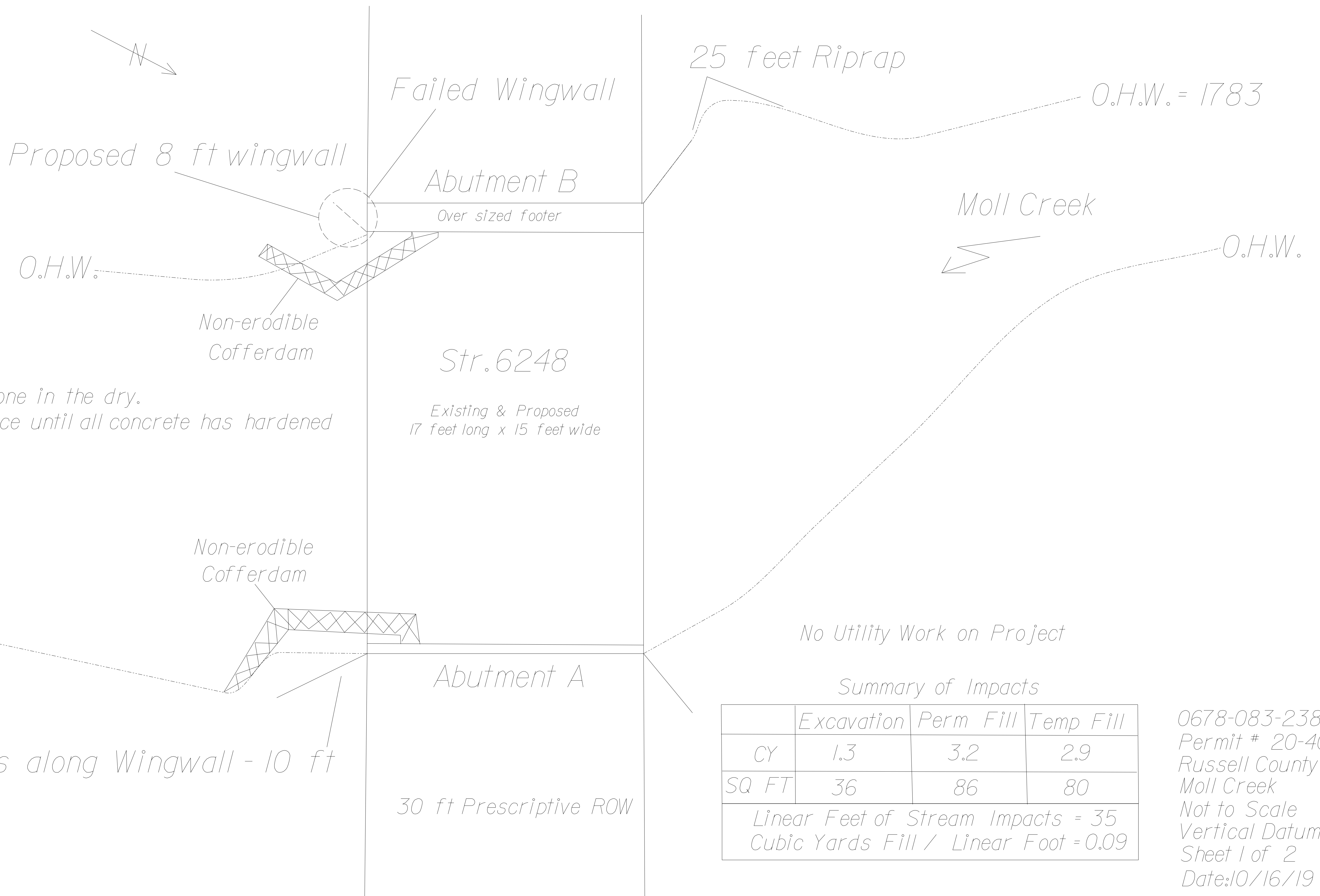


Looking upstream from confluence with Copper Creek



# Confluence of Moll Creek & Copper Creek





All concrete work must be done in the dry.  
 Cofferdams to remain in place until all concrete has hardened

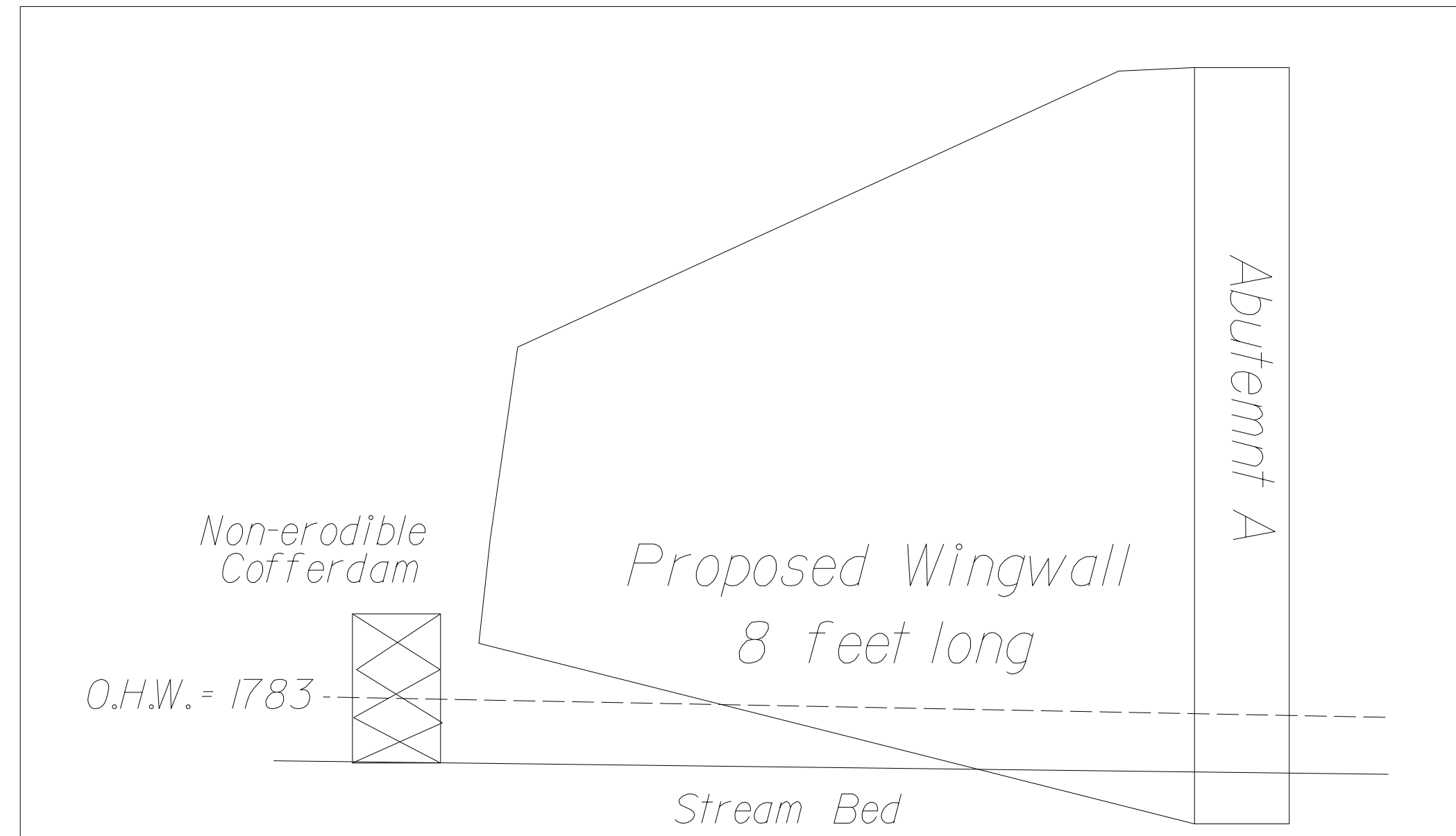
No Utility Work on Project

Summary of Impacts

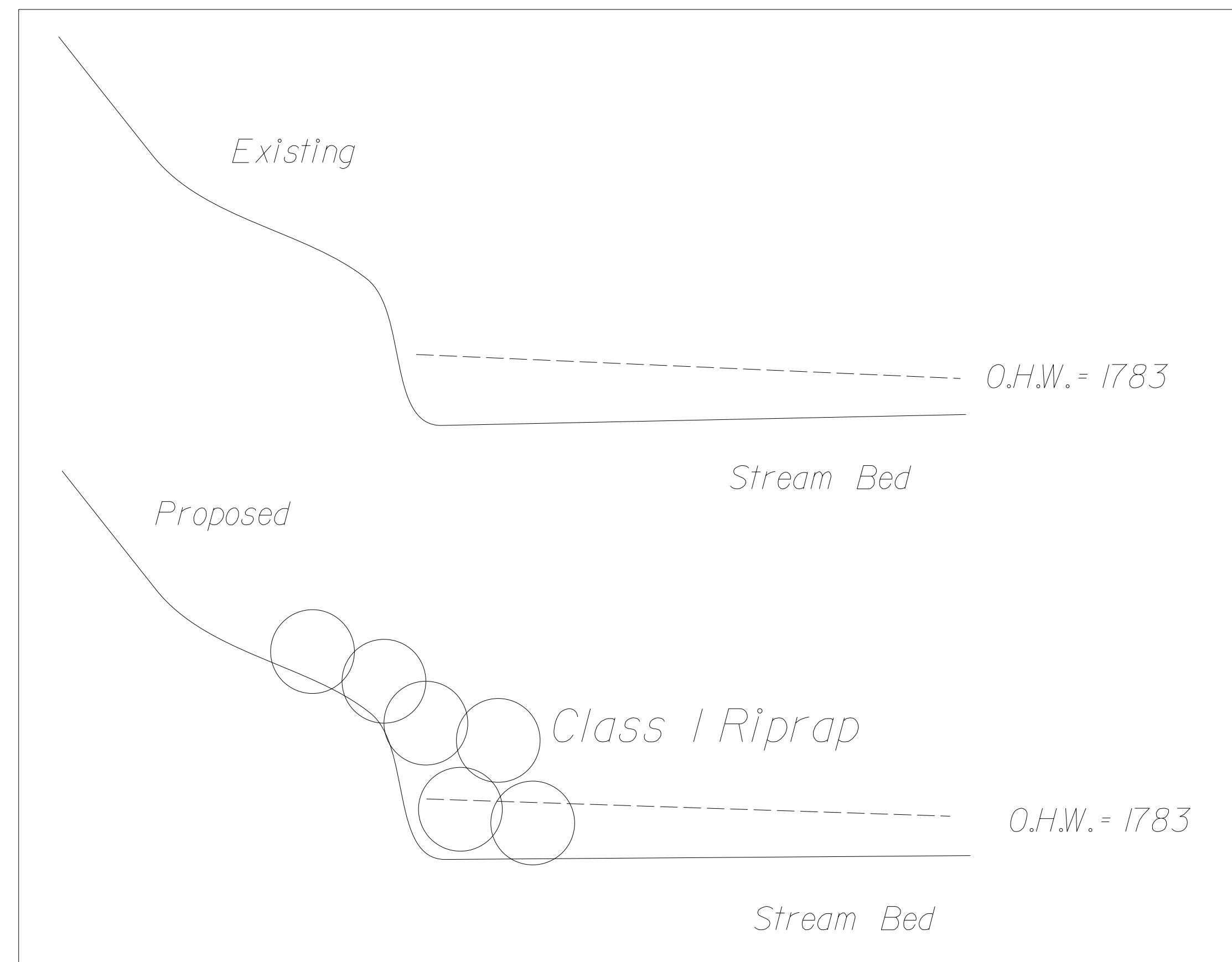
	Excavation	Perm Fill	Temp Fill
CY	1.3	3.2	2.9
SQ FT	36	86	80
Linear Feet of Stream Impacts = 35			
Cubic Yards Fill / Linear Foot = 0.09			

0678-083-23806022  
 Permit # 20-4000  
 Russell County  
 Moll Creek  
 Not to Scale  
 Vertical Datum=NAD27  
 Sheet 1 of 2  
 Date:10/16/19

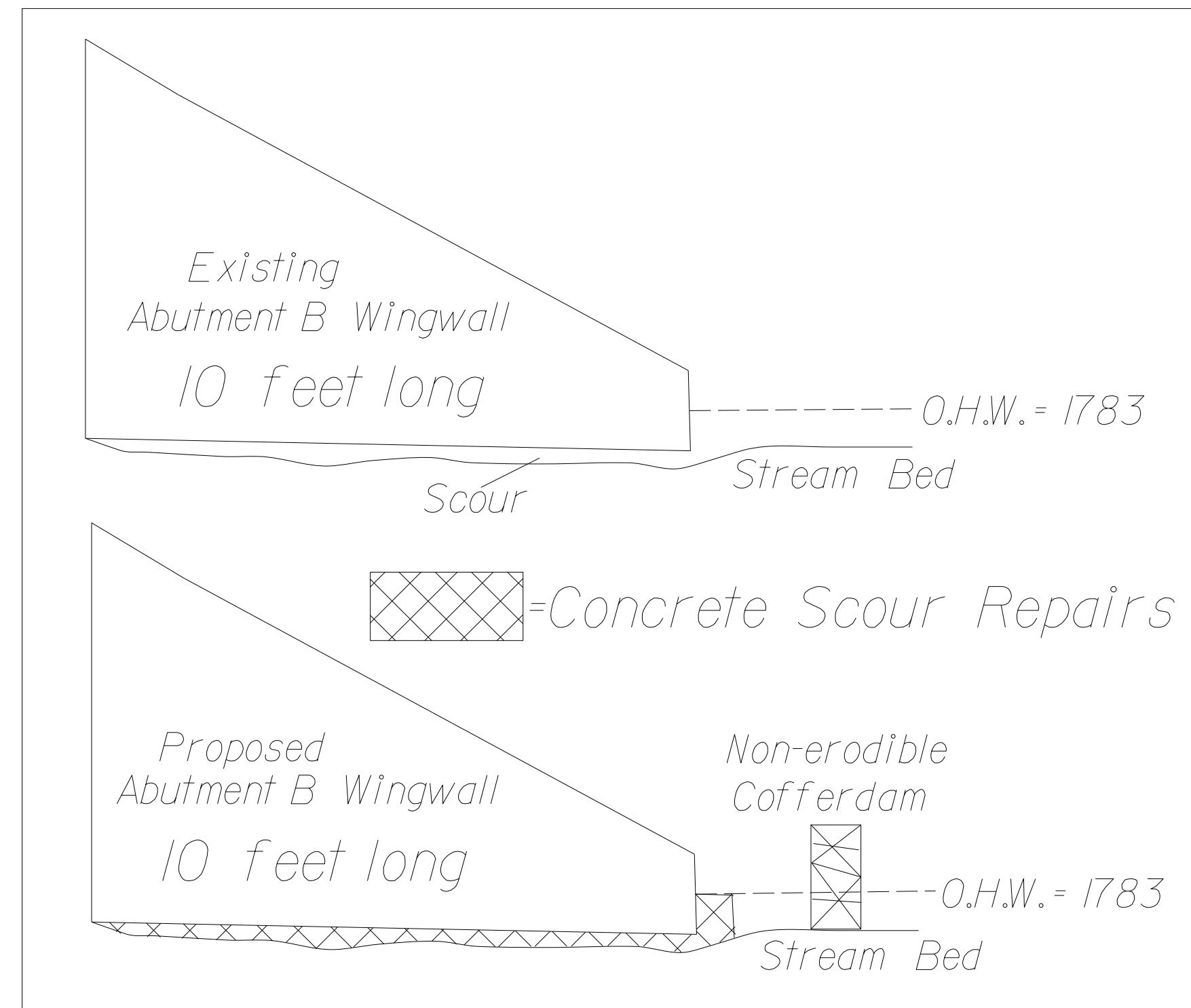
Abutment A Wingwall Replacement



25 feet of Riprap



Abutment B Wingwall Repairs



	Excavation	Perm Fill	Temp Fill
CY	1.3	3.2	2.9
SQ FT	36	86	80
Linear Feet of Stream Impacts = 35			
Cubic Yards Fill / Linear Foot = 0.09			

0678-083-23806022  
 Permit # 20-4000  
 Russell County  
 Moll Creek  
 Not to Scale  
 Vertical Datum=NAD27  
 Sheet 2 of 2  
 Date:10/16/19













# Commonwealth of Virginia Department of Conservation and Recreation MEMORANDUM

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**TO:** Meg Short, VDOT  
**FROM:** Barbara Gregory, DCR-DNH  
**DATE:** June 25, 2020  
**SUBJECT:** 00678-083-23806022  
Due July 5, 2020

The Department of Conservation and Recreation (DCR) has searched its Biotics Data System for occurrences of natural heritage resources from the area outlined on the submitted map. Natural heritage resources are defined as the habitat of rare, threatened, or endangered plant and animal species, unique or exemplary natural communities, and significant geologic formations.

According to the information currently in our files, the Copper Creek – Grassy Creek Stream Conservation Unit (SCU) is located within the project site. SCUs identify stream reaches that contain aquatic natural heritage resources, including 2 miles upstream and 1 mile downstream of documented occurrences, and all tributaries within this reach. SCUs are given a biodiversity significance ranking based on the rarity, quality, and number of element occurrences they contain; on a scale of 1-5, 1 being most significant. The Copper Creek – Grassy Creek SCU has been given a biodiversity significance ranking of B2, which represents a site of very high significance. The natural heritage resources of concern associated with this SCU are:

<i>Alasmidonta viridis</i>	Slippershell mussel	G4G5/S1/NL/LE
<i>Pleuroaia barnesiana</i>	Tennessee pigtoe	G2G3/S2/SOC/NL
<i>Gomphus consanguis</i>	Cherokee clubtail	G3/S2/NL/NL
<i>Percina burtoni</i>	Blotchside logperch	G2G3/S1/SOC/NL
<i>Pleurobema oviforme</i>	Tennessee clubshell	G2G3/S2S3/SOC/NL
<i>Noturus flavipinnis</i>	Yellowfin madtom	G1/S1/LT/LT

To minimize adverse impacts to the aquatic ecosystem as a result of the proposed activities, DCR recommends the implementation of and strict adherence to applicable state and local erosion and sediment control/storm water management laws and regulations. Due to the legal status of some of the species associated with this site, DCR also recommends continued coordination with the United States Fish and Wildlife Service (USFWS) and Virginia's regulatory authority for the management and protection of these species, the VDGIF, to ensure compliance with protected species legislation. Furthermore, DCR recommends allowing the concrete to dry before removing the cofferdams. DCR supports the use of cofferdams and a pump and filter to conduct all work in the dry.

This project is situated on karst-forming carbonate rock and can be characterized by sinkholes, caves, disappearing streams, and large springs. The Virginia DCR karst staff screened this project against the Virginia Speleological Survey (VSS) database and the Virginia DMME sinkhole coverage for documented sensitive karst features and caves. To minimize impacts to karst resources, DCR recommends the stabilization of the soil around the site be prioritized during all the phases of the project and all standard erosion control measures that are appropriate for the site be used.

If karst features such as sinkholes, caves, disappearing streams, and large springs are encountered during

the project, please coordinate with Wil Orndorff (540-230-5960, [Wil.Orndorff@dcr.virginia.gov](mailto:Wil.Orndorff@dcr.virginia.gov)) to document and minimize adverse impacts. Discharge of runoff to sinkholes or sinking streams, filling of sinkholes, and alteration of cave entrances can lead to surface collapse, flooding, erosion and sedimentation, groundwater contamination, and degradation of subterranean habitat for natural heritage resources. If the project involves filling or “improvement” of sinkholes or cave openings, DCR would like detailed location information and copies of the design specifications. In cases where sinkhole improvement is for storm water discharge, copies of VDOT Form EQ-120 will suffice.

There are no State Natural Area Preserves under DCR’s jurisdiction in the project vicinity.

Many invasive plant species are adapted to take advantage of soil disturbances and poor soil conditions. These adaptations are part of what enable certain species to be invasive. Non-native invasive plants are found through Virginia. Therefore, the potential exists for some VDOT projects to further the establishment of invasive species. To minimize the potential for invasive species infestation, projects should be conducted to minimize the area of disturbance, and disturbed sites should be revegetated with desirable species at the earliest opportunity following disturbance. Equally as important, species used for revegetation should not include the highly invasive species that have traditionally been used for revegetating disturbed sites. We recommend VDOT avoid using crown vetch, tall fescue, and autumn olive if at all possible.

For more information on invasive alien plants and native plants, see the DCR-Division of Natural Heritage website <http://www.dcr.virginia.gov/natural-heritage/invspinfo.shtml>. For sources of native plant material, see the Virginia Native Plant Society’s website (<http://vnps.org>) or the U.S. Fish and Wildlife Service nursery list for Virginia (<http://www.fws.gov/ChesapeakeBay/BayScapes/bsresources/bs-nurseries.html>).

Under a Memorandum of Agreement established between the Virginia Department of Agriculture and Consumer Services (VDACS) and the DCR, DCR represents VDACS in comments regarding potential impacts on state-listed threatened and endangered plant and insect species. The current activity will not affect any documented state-listed plants or insects.

New and updated information is continually added to Biotics. Please re-submit project information and map for an update on this natural heritage information if the scope of the project changes and/or six months has passed before it is utilized.

All VDOT projects on state-owned lands must comply with the Virginia Erosion & Sediment Control (ESC) Law and Regulations, the Virginia Stormwater Management (SWM) Law and Regulations, the most current version of the DCR approved VDOT Annual ESC and SWM Specifications and Standards, and the project-specific ESC and SWM plans. [Reference: VESCL §10.1-560, §10.1-564; VESCR §4VAC50-30 et al; VSWML §10.1-603 et al; VSWMR §4VAC-3-20 et al].

The VDGIF maintains a database of wildlife locations, including threatened and endangered species, trout streams, and anadromous fish waters that may contain information not documented in this letter. Their database may be accessed from <http://vafwis.org/fwis>, or contact Ernie Aschenbach at 804-367-2733 or [Ernie.Aschenbach@dgif.virginia.gov](mailto:Ernie.Aschenbach@dgif.virginia.gov).

Thank you for the opportunity to comment on this project.

Cc: Wil Orndorff, DCR-Karst  
Ernie Aschenbach, VDGIF  
Troy Andersen, USFWS

**Buffer On Selected Features**

**Distance: 0 Mile**

**Report Date: 5/6/2020 11:19:20 AM**

Summary Result	Number of features found
Predicted Suitable Habitat Summary:	1

**Selected Features**

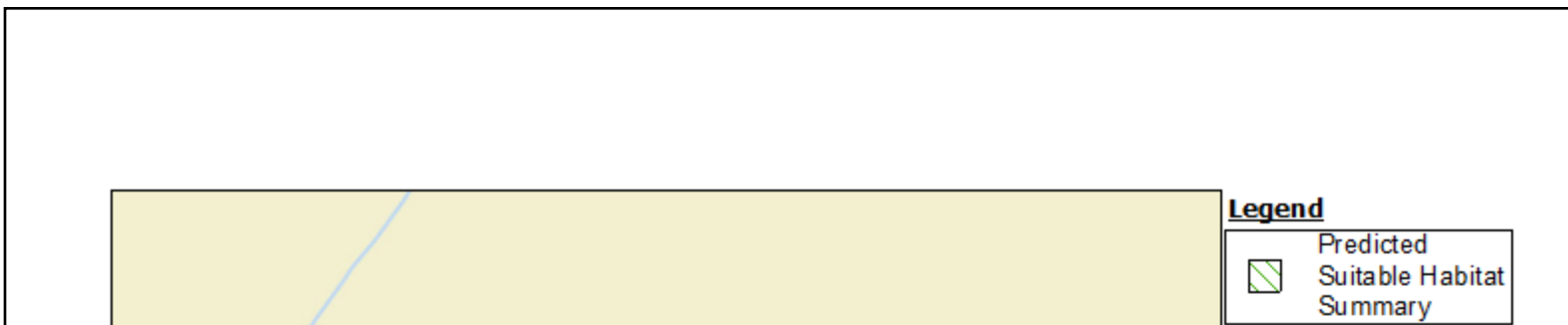
**CEDAR PROJECT**

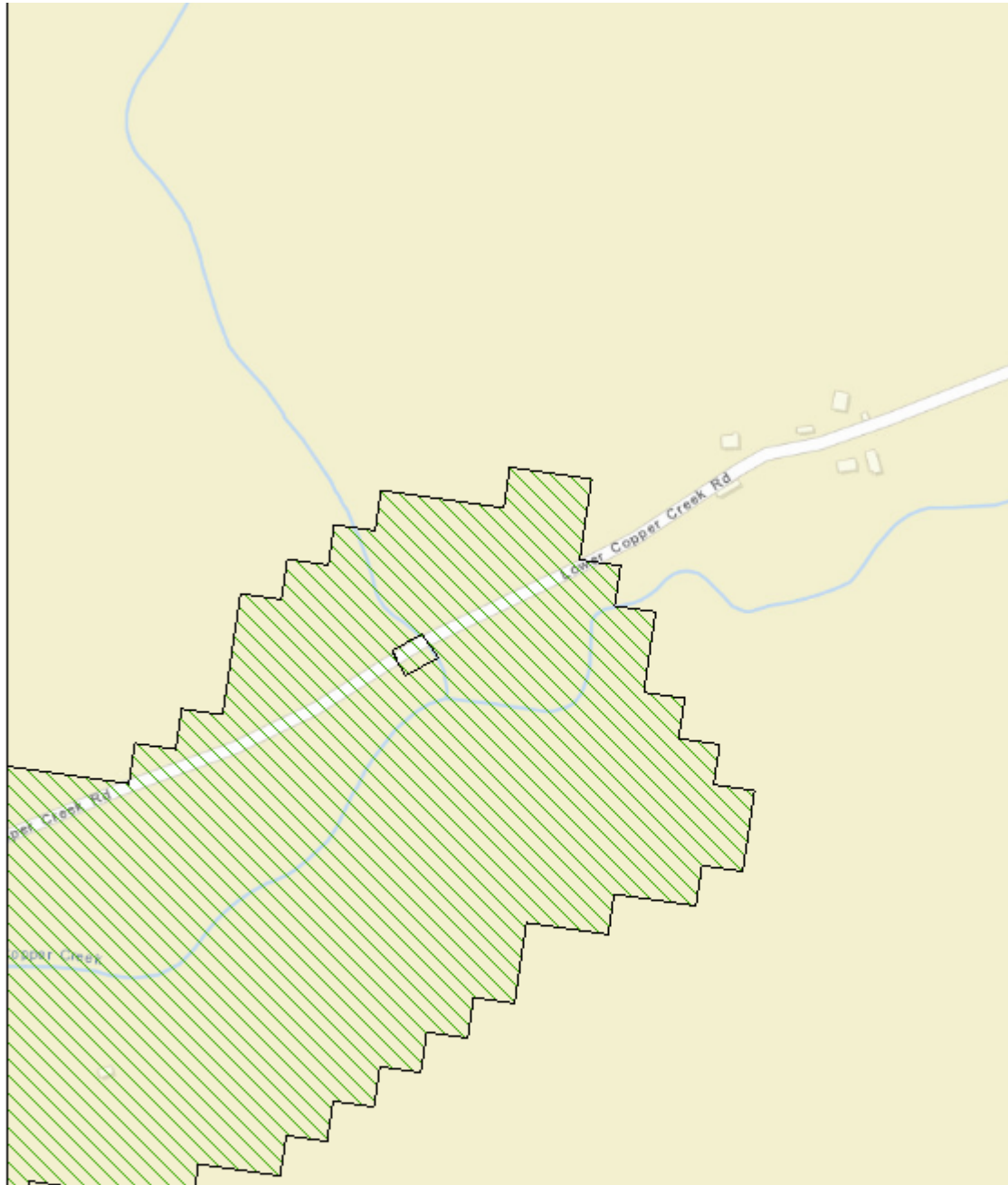
SHAPE.AREA	SHAPE.LEN	PRJ_ID	PRJ_NAME	PRJ_NUM	PRJ_UPC	ROUTE_NUM	PRJ_STATUS		
837.338112695	115.977460868149	23806022	RBC-0678-083-364557-821944-Bridge #6248	00678-083-23806022		678	ACTIVATED		

**Results**

**Predicted Suitable Habitat Summary**

GRIDCODE	SP_COUNT	SP_COMM	SHAPE.AREA	SHAPE.LEN					
1036	1	Yellowfin Madtom	531110.20438353	5479.71951849367					









**Buffer On Selected Features**

**Distance: 100 Feet**

**Report Date: 5/6/2020 11:18:21 AM**

Summary Result	Number of features found
Natural Heritage Sites :	1

**Selected Features**

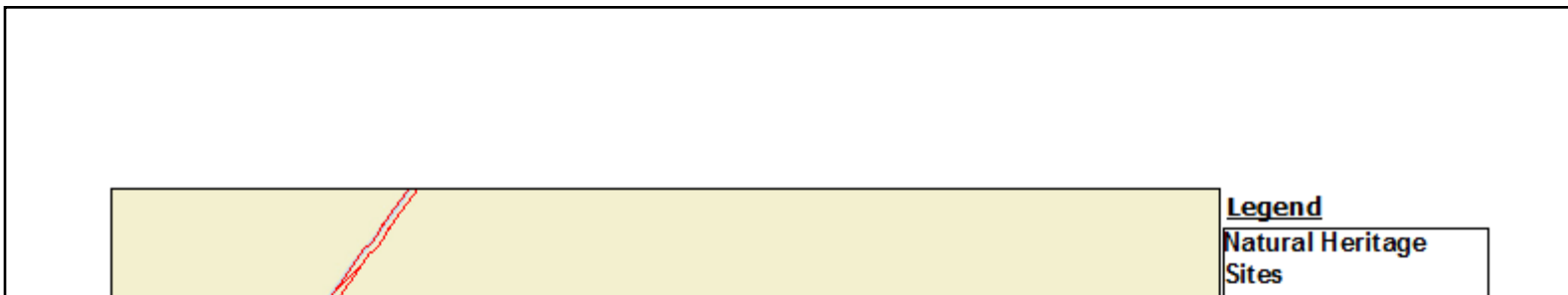
**CEDAR PROJECT**

SHAPE.AREA	SHAPE.LEN	PRJ_ID	PRJ_NAME	PRJ_NUM	PRJ_UPC	ROUTE_NUM	PRJ_STATUS		
837.338112695	115.977460868149	23806022	RBC-0678-083-364557-821944-Bridge #6248	00678-083-23806022		678	ACTIVATED		

**Results**

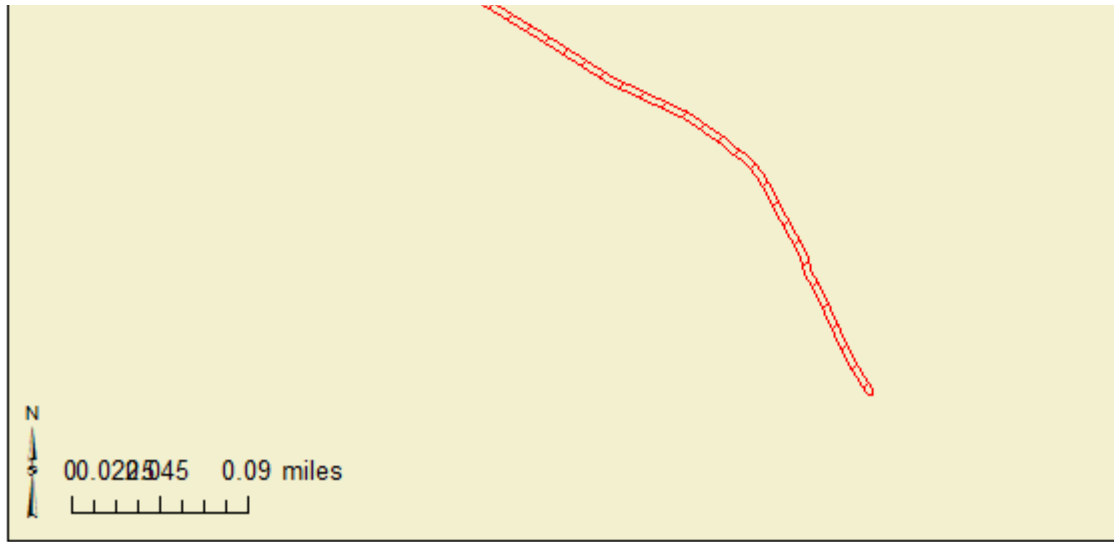
**Natural Heritage Sites**

NM	BIO_DIVERSITY_RNK_CD	LGL_STS	TYPE						
COPPER CREEK - GRASSY CREEK SCU	B2	FL	SCU						





-  Federal Listed
-  State Listed
-  No Listing





Short, Margaret &lt;margaret.short@vdot.virginia.gov&gt;

**Fwd: 00678-083-23806022; FWS Consult Code 05E2VA00-2020-SLI-3630; Review Request; VDOT AGENCY COORDINATION; NOT FEDERALLY ELIGIBLE, State Funded, USACE lead**

1 message

**ProjectReview (DGIF), rr** <projectreview@dwr.virginia.gov>

Mon, Jul 13, 2020 at 2:00 PM

To: "Short, Margaret" &lt;margaret.short@vdot.virginia.gov&gt;, Michael Pinder &lt;mike.pinder@dwr.virginia.gov&gt;, Brian Watson &lt;brian.watson@dwr.virginia.gov&gt;, rr vdotprojects &lt;vdotprojects@dc.virginia.gov&gt;, "Agbalog, Rose E" &lt;rose\_agbalog@fws.gov&gt;

ESSLog 40750; VDOT Rte 00678-083-23806022 instream concrete work in the dry in Moll Creek in Russell County, Virginia

Provided all work adheres to our standard recommendations for instream work, the proposed combined TOYR (from April 1 through September 30 of any given year) protective if the SE slippershell and the FESE yellowfin madtom, all work is performed in the dry, all concrete is allowed to harden prior to coming in contact with the water, and all mussels and fish are relocated from the cofferdam areas prior to dewatering by qualified professional in accordance with <https://dwr.virginia.gov/wp-content/uploads/mussel-guidelines-11-2018.pdf> and <https://dwr.virginia.gov/wp-content/uploads/media/Fish-Relocation-Best-Practices.pdf>, we support the proposed work plan.

Per our phone discussion today, we understand that VDOT will have Dr. Neves perform mussel survey/relocation. According to VDOT, Mike Pinder has agreed that VDOT environmental staff are allowed to relocate fish from the cofferdam areas. We are distributing these recommendations to Brian Watson, DWR Malacologist; and Mike Pinder, DWR Fisheries Biologist for their concurrence. We support any additional recommendations & clarification they may provide.

We recommend contacting the USFWS regarding all federally listed species known from the region. We recommend contacting DCR-DNH regarding resources under their purview known from the region.

Please provide any updated info, as it becomes available. Thank you.

*\*\*Please note as of July 1, 2020 DGIF will become the Department of Wildlife Resources (DWR). Our new email addresses will end in @dwr.virginia.gov\*\**


**Ernie Aschenbach**
*Environmental Services Biologist*

P 804.367.2733

 Email: [Ernie.Aschenbach@dgif.virginia.gov](mailto:Ernie.Aschenbach@dgif.virginia.gov)

 New Email: [Ernie.Aschenbach@dwr.virginia.gov](mailto:Ernie.Aschenbach@dwr.virginia.gov)

Virginia Department of Wildlife Resources

*CONSERVE. CONNECT. PROTECT.*

A 7870 Villa Park Drive, P.O. Box 90778, Henrico, VA 23228-0778

[www.dwr.virginia.gov](http://www.dwr.virginia.gov)

----- Forwarded message -----

 From: **Short, Margaret** <margaret.short@vdot.virginia.gov>

Date: Fri, Jun 5, 2020 at 2:36 PM

Subject: 00678-083-23806022; FWS Consult Code 05E2VA00-2020-SLI-3630; Review Request; VDOT AGENCY COORDINATION; NOT FEDERALLY ELIGIBLE, State Funded, USACE lead

To: Virginia Field Office, FW5 &lt;VirginiaFieldOffice@fws.gov&gt;, rr ProjectReview (DGIF) &lt;ProjectReview@dgif.virginia.gov&gt;, Brian Watson &lt;brian.watson@dgif.virginia.gov&gt;

**00678-083-23806022; FWS Consult Code 05E2VA00-2020-SLI-3630; Review Request; VDOT AGENCY COORDINATION; NOT FEDERALLY ELIGIBLE, State Funded, USACE lead**
 This is an updated review.

 The VDOT project is a NEW project and the project package is submitted for review and concurrence with our effect determinations. The VDOT project number and FWS Consultation Code are referenced above in subject line.

 By copy of this email, we are requesting comment from (check all that apply):

 FWS The referenced project was reviewed on 5/6/2020 using the Virginia Field Office's online project review process, in accordance with all guidance and instructions.

 DNH (This project has not been submitted through Natural Heritage Data Explorer. SHAPEFILE INCLUDED)

 DGIF:

List Species Here: slippershell mussel, Copper Creek (T&amp;E stream)

**PROJECT DESCRIPTION**

This is a state funded project with associated USACE water quality permits. This project consists of a phased repair to the Route 678 Bridge (Fed ID No. 016502) located over Moll Creek in Russell County, Virginia. Phase I will consist of repairing the undermining of the entire length of Abutment B by forming and pouring

concrete under the existing footer. In addition, the downstream wingwall of Abutment B will be replaced. The wingwall will be formed and poured with concrete for approximately 8 feet in length. To conduct this work in the dry, a sandbag cofferdam will be installed for the entire area along Abutment B (approximately 40 feet in length). Any water seeping behind the cofferdam will be pumped into a filter bag prior to discharge. On the upstream side of Abutment B, Class II riprap will be installed for approximately 25 feet. Phase II will consist of repair work to undermining of the downstream wing wall of Abutment A. The area will be formed and poured with concrete for approximately 10 feet. To conduct this work in the dry, a sandbag cofferdam will be installed for approximately 20 feet. Any water seeping behind the cofferdam will be pumped into a filter bag prior to discharge. No tree removal is required to complete the project.

This project review is requested to be conducted in conjunction with the Virginia Department of Game and Inland Fisheries in order to determine the correct instream time-of-year restriction (TOYR) for work and mussel survey/relocation requirements. VDOT will assume a combined TOYR for instream work from April 1 – September 30 for the federally listed yellowfin madtom (*Noturus flavipinnis*) and the state listed slippershell mussel (*Alasmodonta viridis*). Is this assumed TOYR sufficient, or are there any other species that need to be considered at this location? Will an approved surveyor for yellowfin madtom need to be present to clear cofferdam areas prior to work? Additionally, VDOT proposes to assume presence of state listed mussel species and conduct a survey/relocation 10 meters upstream and then downstream to the confluence of Copper Creek (~34.5 meters). Is this approach feasible or would it be more prudent to conduct a survey in order to determine presence/absence of federally listed species?

**FEDERAL NEXUS**

This project review **IS** needed for a water quality permit from the Army Corps of Engineers for impacts to jurisdictional waters.

The project **IS NOT** eligible for federal funding.

The project **IS NOT** located on federal lands.

The lead agency is **USACOE**.

For additional information, please contact me at the email listed above.

---

**ENCLOSURES**

- DGIF Coordination Package
- FWS Coordination Package

Thank you,

--

Meg Short

Threatened and Endangered Species Specialist

VDOT Bristol District

276.591.0244 cell

276.696.3446 office

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**2 attachments**

 **00678-083-23806022\_DGIF\_ReveiwRqst\_PKG\_20200605.pdf**  
3702K

 **00678-083-23806022\_FWS\_ReveiwRqst\_PKG\_20200605.pdf**  
3441K

# Virginia Department of Transportation - PROJECT EARLY NOTIFICATION

Project Name: RBC-0678-083-364557-821944-Bridge  
#6248

IPM ID:	VDOT Project #:	00678-083-23806022
Route: 678	VDOT Charge #:	11163550-11047-72746-167-16502
City/County: Russell	Engineer Point of Contact:	
Zip Code:	Division/District/Residency:	/Bristol/Lebanon
Latitude(DMS): 36°45'57"	Date Submitted To Environmental:	03/19/2019
Longitude(DMS): -82°19'44"	Is local government administering PE, R/W, or Construction?	No

Latitude: 36.765833  
Longitude: -82.328889

**Project Limits(USGS topo map indicated termini required):**  
From: Route 678  
To: Route 678  
Length of Project:

Env Federal Eligibility:	Not Federally Eligible
Federal Eligibility:	
Funding Source:	State
Target Advertisement date:	09/16/2019
SERP Coordinator	

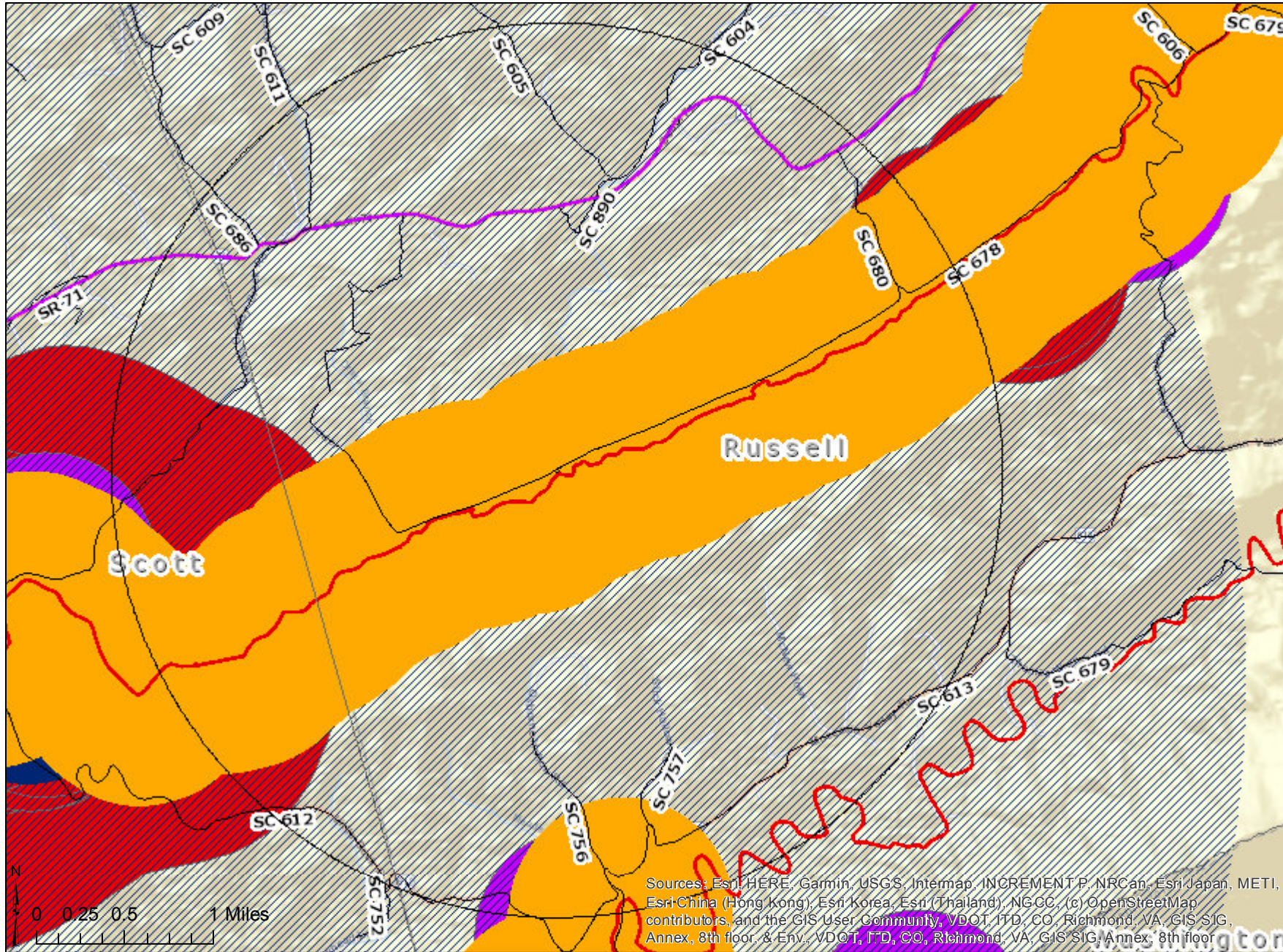
**Project description and comments (be as specific as possible):** The Russell County Bridge Crew plans two phases of repairs to Bridge #6248, located on Rt. 678, along Moll Creek. Phase I will consist of: along Abutment B, several locations of undermining will be repaired by forming and pouring concrete under the existing footer for the entire length of Abutment of B measuring 15' in length. In addition, on Abutment B the downstream wing wall need to be replaced. The wall will be formed and poured with concrete for approx. 8' in length. To conduct this work in the dry, the entire area along Abutment B will be coffered dam with sandbags for approx. 40'. Any water seeping behind the cofferdam will be pumped into a filter bag prior to discharge. On the upstream side of Abutment B, Class II riprap will be installed by placing the rock only for approx. 25' for the purpose of protecting the wing wall located on the upstream side of Abutment B. Phase II will consist of: on the downstream side of Abutment A, repair work will need to be completed along the wing wall that has undermining occurring. The area will be formed and poured with concrete for approx. 10'. To conduct this work in the dry, the work area along the wing wall located on the A Abutment will be coffered dam with sandbags for approx. 20'. Any water seeping behind the cofferdam will be pumped into a filter bag prior to discharge. No tree removal required. Project located in the Moll Creek Quad.

Road Type:	Type of project:	Location of work:
Interstate	Construction	Working within existing corridor X
Primary	Maintenance/Replacement	Changes to existing alignment
Secondary X	Maintenance X	Work on new location
Urban	Railroad	
Other	Roadway work included: No	
	Constructed by:	

Road Conditions	Existing Conditions (must be completed)	Proposed Conditions (must be completed)



Pavement width (ft/m)	15	15
Number of traffic lanes	1	1
Right-of-way width (ft/m)	30	30
<b>Stream Crossing(s)</b>	Name of stream(s) crossed: Moll Creek Drainage Area:	Hydrologic Unit Code:
<b>Existing bridge(s)/drainage structure(s)</b>	Bridge/Structure #: 6248	Date Constructed: 1954
<b>Public park(s)</b>	Name of facility:	Degree of impact (if known):
<b>Recreation area(s)</b>	Name of facility:	Degree of impact (if known):



Notes

Project is located on Moll Creek 7.5' USGS Topographic Map. Orange is USFWS CH. Red and purple circles are federal and state listed T&E species, respectively. Blue hatch is state and federally listed bat 5.5 mile hibernacula buffers. Red line is DGIF federally listed T&E stream.



## Buffer On Selected Features

Distance: 2 Mile

Report Date: 5/6/2020 10:58:11 AM

Summary Result	Number of features found
BAT Hibernacula and Roost Trees:	1
CCB Bald Eagle Nest Locations - 330' Buffer:	No Result Found
CCB Bald Eagle Nest Locations - 660' Buffer:	No Result Found
Cold Water Streams - Trout :	No Result Found
Critical Habitat:	3
T&E Species:	36
T&E Streams:	101

## Selected Features

### CEDAR PROJECT

SHAPE.AREA	SHAPE.LEN	PRJ_ID	PRJ_NAME	PRJ_NUM	PRJ_UPC	ROUTE_NUM	PRJ_STATUS		
837.338112695	115.977460868149	23806022	RBC-0678-083-364557-821944-Bridge #6248	00678-083-23806022		678	ACTIVATED		

## Results

### BAT Hibernacula and Roost Trees

SPPBOVA	GENUS	SPECIES	SUBSPECIES	COMMON_NAME	FEDSTATUS	STATESTATUS	TIER	BUFFER_MI	TYPE
050021	Myotis	grisescens		Bat, gray	Federal Endangered	State Endangered	II	5.5 Mile	Hibernacula

**Critical Habitat**

OBJECTID_1	COMNAME	SCINAME	SPCODE	PUBDATE	LISTING_ST	BUFF_DIST	ORIG_FID		
8	Yellowfin madtom	Noturus flavipinnis	E01Y	19770922	Threatened	0.5	7		
10	Slabside Pearlymussel	Pleuronaia dolabelloides	F01Y	20130926	Endangered	0.5	9		
11	Fluted kidneyshell	Ptychobranthus subtentum	F041	20130926	Endangered	0.5	10		

**T&E Species**

OBSERVATION_DATE	DESCRIPTION	SOURCE_DATABASE_ID	BOVA	GENUS	SPECIES	SUBSPECIES	COMMON_NAME	TE_STATUS	CSCS_TIER
	Caves database		050021	Myotis	grisescens		Bat, gray	FESE	II
8/19/2014 12:00:00 AM	Rick Reynolds Bat Survey Records		050023	Myotis	sodalis		Bat, Indiana	FESE	I
6/17/1992 12:00:00 AM	VDGIF Scientific Collections, TE, and Salvage permit data		050021	Myotis	grisescens		Bat, gray	FESE	II
8/21/2012 12:00:00 AM	Rick Reynolds Bat Survey Records		050021	Myotis	grisescens		Bat, gray	FESE	II
6/17/1992 12:00:00 AM	VDGIF Scientific Collections, TE, and Salvage permit data		050027	Perimyotis	subflavus		Bat, tri-colored	SE	I
10/8/2015 12:00:00 AM	VDGIF Scientific Collections, TE, and Salvage permit data from application		060094	Pegias	fabula		Pearlymussel, littlewing	FESE	I
10/8/2015 12:00:00 AM	VDGIF Scientific Collections, TE, and Salvage permit data from application		060094	Pegias	fabula		Pearlymussel, littlewing	FESE	I
9/10/2009 12:00:00 AM	Rick Reynolds Bat Survey Records		050021	Myotis	grisescens		Bat, gray	FESE	II
6/17/1992 12:00:00 AM	VDGIF Scientific Collections, TE, and Salvage permit data		050020	Myotis	lucifugus		Bat, little brown	SE	I
10/8/2015 12:00:00 AM	VDGIF Scientific Collections, TE, and Salvage permit data from application		060007	Alasmidonta	viridis		Mussel, slippershell	SE	I

4/22/2014 12:00:00 AM	VDGIF Scientific Collections, TE, and Salvage permit data from application		010331	Noturus	flavipinnis		Madtom, yellowfin	FTST	I
9/10/2009 12:00:00 AM	Rick Reynolds Bat Survey Records		050021	Myotis	grisescens		Bat, gray	FESE	II
8/19/2014 12:00:00 AM	Rick Reynolds Bat Survey Records		050021	Myotis	grisescens		Bat, gray	FESE	II
8/19/2014 12:00:00 AM	Rick Reynolds Bat Survey Records		050021	Myotis	grisescens		Bat, gray	FESE	II
8/21/2012 12:00:00 AM	Rick Reynolds Bat Survey Records		050021	Myotis	grisescens		Bat, gray	FESE	II
8/26/2013 12:00:00 AM	Rick Reynolds Bat Survey Records		050021	Myotis	grisescens		Bat, gray	FESE	II
10/21/2015 12:00:00 AM	VDGIF Scientific Collections, TE, and Salvage permit data from application		010331	Noturus	flavipinnis		Madtom, yellowfin	FTST	I
7/9/2002 12:00:00 AM	Rick Reynolds Bat Survey Records		050021	Myotis	grisescens		Bat, gray	FESE	II
9/2/2009 12:00:00 AM	Rick Reynolds Bat Survey Records		050021	Myotis	grisescens		Bat, gray	FESE	II
8/22/2011 12:00:00 AM	Rick Reynolds Bat Survey Records		050027	Perimyotis	subflavus		Bat, tri-colored	SE	I
6/21/2013 12:00:00 AM	VDGIF Scientific Collections, TE, and Salvage permit data from application		010331	Noturus	flavipinnis		Madtom, yellowfin	FTST	I
9/15/1991 12:00:00 AM	VDGIF Scientific Collections, TE, and Salvage permit data		050021	Myotis	grisescens		Bat, gray	FESE	II
9/7/2010 12:00:00 AM	Rick Reynolds Bat Survey Records		050021	Myotis	grisescens		Bat, gray	FESE	II
9/7/2010 12:00:00 AM	Rick Reynolds Bat Survey Records		050021	Myotis	grisescens		Bat, gray	FESE	II
8/24/2010 12:00:00 AM	Rick Reynolds Bat Survey Records		050021	Myotis	grisescens		Bat, gray	FESE	II
9/10/2009 12:00:00 AM	Rick Reynolds Bat Survey Records		050021	Myotis	grisescens		Bat, gray	FESE	II

10/24/2012 12:00:00 AM	VDGIF Scientific Collections, TE, and Salvage permit data from application		010331	Noturus	flavipinnis		Madtom, yellowfin	FTST	I
6/17/1992 12:00:00 AM	VDGIF Scientific Collections, TE, and Salvage permit data		050021	Myotis	grisescens		Bat, gray	FESE	II
9/2/2009 12:00:00 AM	Rick Reynolds Bat Survey Records		050021	Myotis	grisescens		Bat, gray	FESE	II
9/2/2009 12:00:00 AM	Rick Reynolds Bat Survey Records		050021	Myotis	grisescens		Bat, gray	FESE	II
8/24/2010 12:00:00 AM	Rick Reynolds Bat Survey Records		050021	Myotis	grisescens		Bat, gray	FESE	II
8/22/2011 12:00:00 AM	Rick Reynolds Bat Survey Records		050021	Myotis	grisescens		Bat, gray	FESE	II
8/22/2011 12:00:00 AM	Rick Reynolds Bat Survey Records		050021	Myotis	grisescens		Bat, gray	FESE	II
8/22/2011 12:00:00 AM	Rick Reynolds Bat Survey Records		050021	Myotis	grisescens		Bat, gray	FESE	II
10/8/2015 12:00:00 AM	VDGIF Scientific Collections, TE, and Salvage permit data from application		060007	Alasmidonta	viridis		Mussel, slippershell	SE	I
6/28/2012 12:00:00 AM	VDGIF Scientific Collections, TE, and Salvage permit data from application		010331	Noturus	flavipinnis		Madtom, yellowfin	FTST	I

### T&E Streams

COMMON	SPECIES	GENUS	STATE	FED	TIER	NAME			
Heelsplitter, Tennessee	holstonia	Lasmigona	SE		II	Copper Creek			
Darter, sickle	williamsi	Percina	ST		I	Copper Creek			
Mussel, slippershell	viridis	Alasmidonta	SE		I	Copper Creek			
Madtom, yellowfin	flavipinnis	Noturus	ST	FT	I	Copper Creek			
Darter, duskytail	percnum	Etheostoma	SE	FE	I	Copper Creek			
Madtom, yellowfin	flavipinnis	Noturus	ST	FT	I	Copper Creek			
Heelsplitter, Tennessee	holstonia	Lasmigona	SE		II	Copper Creek			

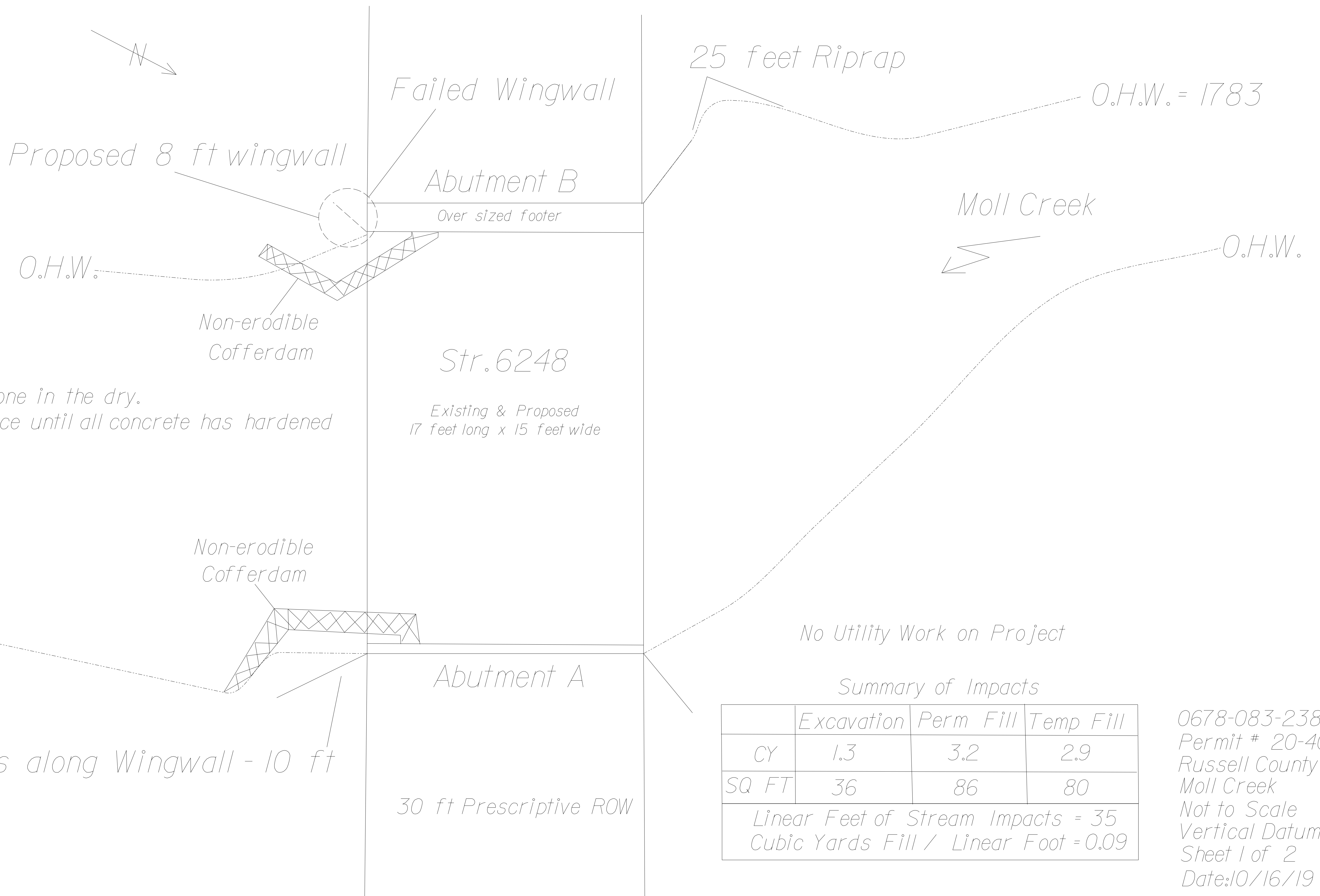
Darter, duskytail	percnumum	Etheostoma	SE	FE	I	Copper Creek			
Madtom, yellowfin	flavipinnis	Noturus	ST	FT	I	Copper Creek			
Pearlymussel, slabside	dolabelloides	Lexingtonia (Pleuroaia)	SE	FE	II	Copper Creek			
Darter, duskytail	percnumum	Etheostoma	SE	FE	I	Copper Creek			
Madtom, yellowfin	flavipinnis	Noturus	ST	FT	I	Copper Creek			
Pearlymussel, slabside	dolabelloides	Lexingtonia (Pleuroaia)	SE	FE	II	Big Moccasin Creek			
Mussel, slippershell	viridis	Alasmidonta	SE		I	Copper Creek			
Darter, duskytail	percnumum	Etheostoma	SE	FE	I	Copper Creek			
Darter, duskytail	percnumum	Etheostoma	SE	FE	I	Copper Creek			
Darter, duskytail	percnumum	Etheostoma	SE	FE	I	Copper Creek			
Pearlymussel, slabside	dolabelloides	Lexingtonia (Pleuroaia)	SE	FE	II	Copper Creek			
Heelsplitter, Tennessee	holstonia	Lasmigona	SE		II	Copper Creek			
Bean, Purple	perpurpurea	Villosa	SE	FE	I	Copper Creek			
Mussel, slippershell	viridis	Alasmidonta	SE		I	Copper Creek			
Mussel, slippershell	viridis	Alasmidonta	SE		I	Big Moccasin Creek			
Mussel, slippershell	viridis	Alasmidonta	SE		I	Big Moccasin Creek			
Mussel, slippershell	viridis	Alasmidonta	SE		I	Copper Creek			
Madtom, yellowfin	flavipinnis	Noturus	ST	FT	I	Copper Creek			
Pearlymussel, slabside	dolabelloides	Lexingtonia (Pleuroaia)	SE	FE	II	Copper Creek			
Heelsplitter, Tennessee	holstonia	Lasmigona	SE		II	Copper Creek			
Pearlymussel, slabside	dolabelloides	Lexingtonia (Pleuroaia)	SE	FE	II	Big Moccasin Creek			
Heelsplitter, Tennessee	holstonia	Lasmigona	SE		II	Copper Creek			
Pearlymussel, slabside	dolabelloides	Lexingtonia (Pleuroaia)	SE	FE	II	Copper Creek			
Pearlymussel, slabside	dolabelloides	Lexingtonia (Pleuroaia)	SE	FE	II	Copper Creek			

Darter, duskytail	percnumum	Etheostoma	SE	FE	I	Copper Creek			
Madtom, yellowfin	flavipinnis	Noturus	ST	FT	I	Copper Creek			
Heelsplitter, Tennessee	holstonia	Lasmigona	SE		II	Copper Creek			
Madtom, yellowfin	flavipinnis	Noturus	ST	FT	I	Copper Creek			
Pearlymussel, slabside	dolabelloides	Lexingtonia (Pleuroaia)	SE	FE	II	Copper Creek			
Mussel, slippershell	viridis	Alasmidonta	SE		I	Big Moccasin Creek			
Darter, duskytail	percnumum	Etheostoma	SE	FE	I	Copper Creek			
Mussel, slippershell	viridis	Alasmidonta	SE		I	Copper Creek			
Darter, duskytail	percnumum	Etheostoma	SE	FE	I	Copper Creek			
Madtom, yellowfin	flavipinnis	Noturus	ST	FT	I	Copper Creek			
Madtom, yellowfin	flavipinnis	Noturus	ST	FT	I	Copper Creek			
Darter, sickle	williamsi	Percina	ST		I	Copper Creek			
Pearlymussel, slabside	dolabelloides	Lexingtonia (Pleuroaia)	SE	FE	II	Copper Creek			
Darter, sickle	williamsi	Percina	ST		I	Copper Creek			
Heelsplitter, Tennessee	holstonia	Lasmigona	SE		II	Copper Creek			
Heelsplitter, Tennessee	holstonia	Lasmigona	SE		II	Copper Creek			
Darter, duskytail	percnumum	Etheostoma	SE	FE	I	Copper Creek			
Madtom, yellowfin	flavipinnis	Noturus	ST	FT	I	Copper Creek			
Heelsplitter, Tennessee	holstonia	Lasmigona	SE		II	Copper Creek			
Pearlymussel, slabside	dolabelloides	Lexingtonia (Pleuroaia)	SE	FE	II	Copper Creek			
Bean, Purple	perpurpurea	Villosa	SE	FE	I	Copper Creek			
Mussel, slippershell	viridis	Alasmidonta	SE		I	Copper Creek			
Heelsplitter, Tennessee	holstonia	Lasmigona	SE		II	Copper Creek			
Bean, Purple	perpurpurea	Villosa	SE	FE	I	Copper Creek			
Mussel, slippershell	viridis	Alasmidonta	SE		I	Copper Creek			

Mussel, slippershell	viridis	Alasmidonta	SE		I	Copper Creek			
Mussel, slippershell	viridis	Alasmidonta	SE		I	Big Moccasin Creek			
Mussel, slippershell	viridis	Alasmidonta	SE		I	Big Moccasin Creek			
Mussel, slippershell	viridis	Alasmidonta	SE		I	Big Moccasin Creek			
Darter, duskytail	percnurum	Etheostoma	SE	FE	I	Copper Creek			
Mussel, slippershell	viridis	Alasmidonta	SE		I	Copper Creek			
Madtom, yellowfin	flavipinnis	Noturus	ST	FT	I	Copper Creek			
Mussel, slippershell	viridis	Alasmidonta	SE		I	Copper Creek			
Darter, duskytail	percnurum	Etheostoma	SE	FE	I	Copper Creek			
Pearlymussel, slabside	dolabelloides	Lexingtonia (Pleuroaia)	SE	FE	II	Copper Creek			
Pearlymussel, slabside	dolabelloides	Lexingtonia (Pleuroaia)	SE	FE	II	Big Moccasin Creek			
Heelsplitter, Tennessee	holstonia	Lasmigona	SE		II	Copper Creek			
Pearlymussel, slabside	dolabelloides	Lexingtonia (Pleuroaia)	SE	FE	II	Big Moccasin Creek			
Heelsplitter, Tennessee	holstonia	Lasmigona	SE		II	Copper Creek			
Mussel, slippershell	viridis	Alasmidonta	SE		I	Copper Creek			
Darter, sickle	williamsi	Percina	ST		I	Copper Creek			
Bean, Purple	perpurpurea	Villosa	SE	FE	I	Copper Creek			
Mussel, slippershell	viridis	Alasmidonta	SE		I	Copper Creek			
Bean, Purple	perpurpurea	Villosa	SE	FE	I	Copper Creek			
Mussel, slippershell	viridis	Alasmidonta	SE		I	Copper Creek			
Bean, Purple	perpurpurea	Villosa	SE	FE	I	Copper Creek			
Darter, duskytail	percnurum	Etheostoma	SE	FE	I	Copper Creek			
Pearlymussel, slabside	dolabelloides	Lexingtonia (Pleuroaia)	SE	FE	II	Big Moccasin Creek			
Bean, Purple	perpurpurea	Villosa	SE	FE	I	Copper Creek			

Heelsplitter, Tennessee	holstonia	Lasmigona	SE		II	Copper Creek			
Mussel, slippershell	viridis	Alasmidonta	SE		I	Copper Creek			
Mussel, slippershell	viridis	Alasmidonta	SE		I	Copper Creek			
Madtom, yellowfin	flavipinnis	Noturus	ST	FT	I	Copper Creek			
Darter, duskytail	percnurum	Etheostoma	SE	FE	I	Copper Creek			
Heelsplitter, Tennessee	holstonia	Lasmigona	SE		II	Copper Creek			
Bean, Purple	perpurpurea	Villosa	SE	FE	I	Copper Creek			
Darter, sickle	williamsi	Percina	ST		I	Copper Creek			
Madtom, yellowfin	flavipinnis	Noturus	ST	FT	I	Copper Creek			
Heelsplitter, Tennessee	holstonia	Lasmigona	SE		II	Copper Creek			
Pearlymussel, slabside	dolabelloides	Lexingtonia (Pleuroaia)	SE	FE	II	Copper Creek			
Madtom, yellowfin	flavipinnis	Noturus	ST	FT	I	Copper Creek			
Darter, duskytail	percnurum	Etheostoma	SE	FE	I	Copper Creek			
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Darter, duskytail	percnurum	Etheostoma	SE	FE	I	Copper Creek			
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Pearlymussel, slabside	dolabelloides	Lexingtonia (Pleuroaia)	SE	FE	II	Big Moccasin Creek			
Madtom, yellowfin	flavipinnis	Noturus	ST	FT	I	Copper Creek			
Madtom, yellowfin	flavipinnis	Noturus	ST	FT	I	Copper Creek			
Mussel, slippershell	viridis	Alasmidonta	SE		I	Copper Creek			
Heelsplitter, Tennessee	holstonia	Lasmigona	SE		II	Copper Creek			





All concrete work must be done in the dry.  
 Cofferdams to remain in place until all concrete has hardened

No Utility Work on Project

Summary of Impacts

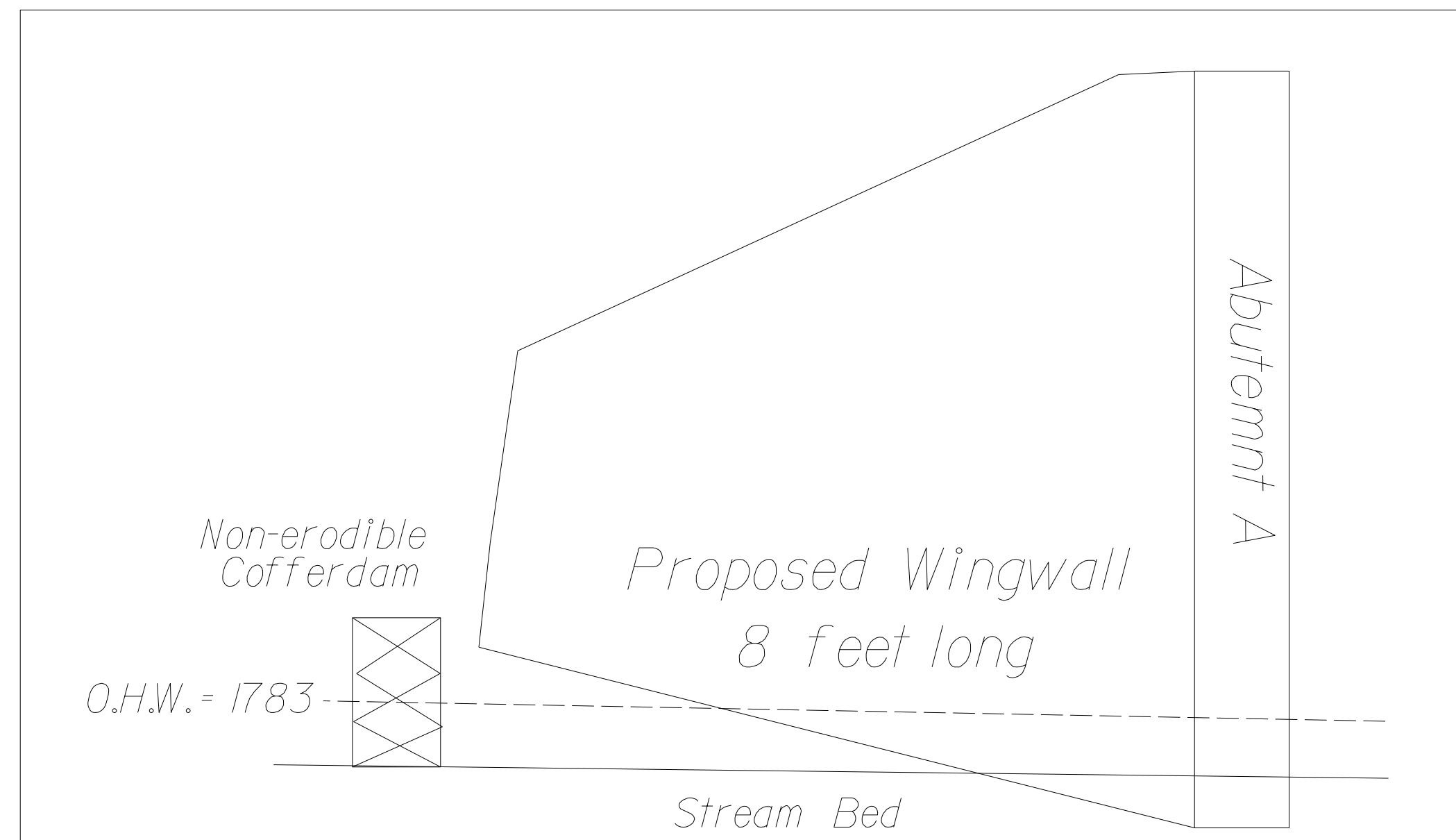
	Excavation	Perm Fill	Temp Fill
CY	1.3	3.2	2.9
SQ FT	36	86	80
Linear Feet of Stream Impacts = 35			
Cubic Yards Fill / Linear Foot = 0.09			

0678-083-23806022  
 Permit # 20-4000  
 Russell County  
 Moll Creek  
 Not to Scale  
 Vertical Datum=NAD27  
 Sheet 1 of 2  
 Date:10/16/19

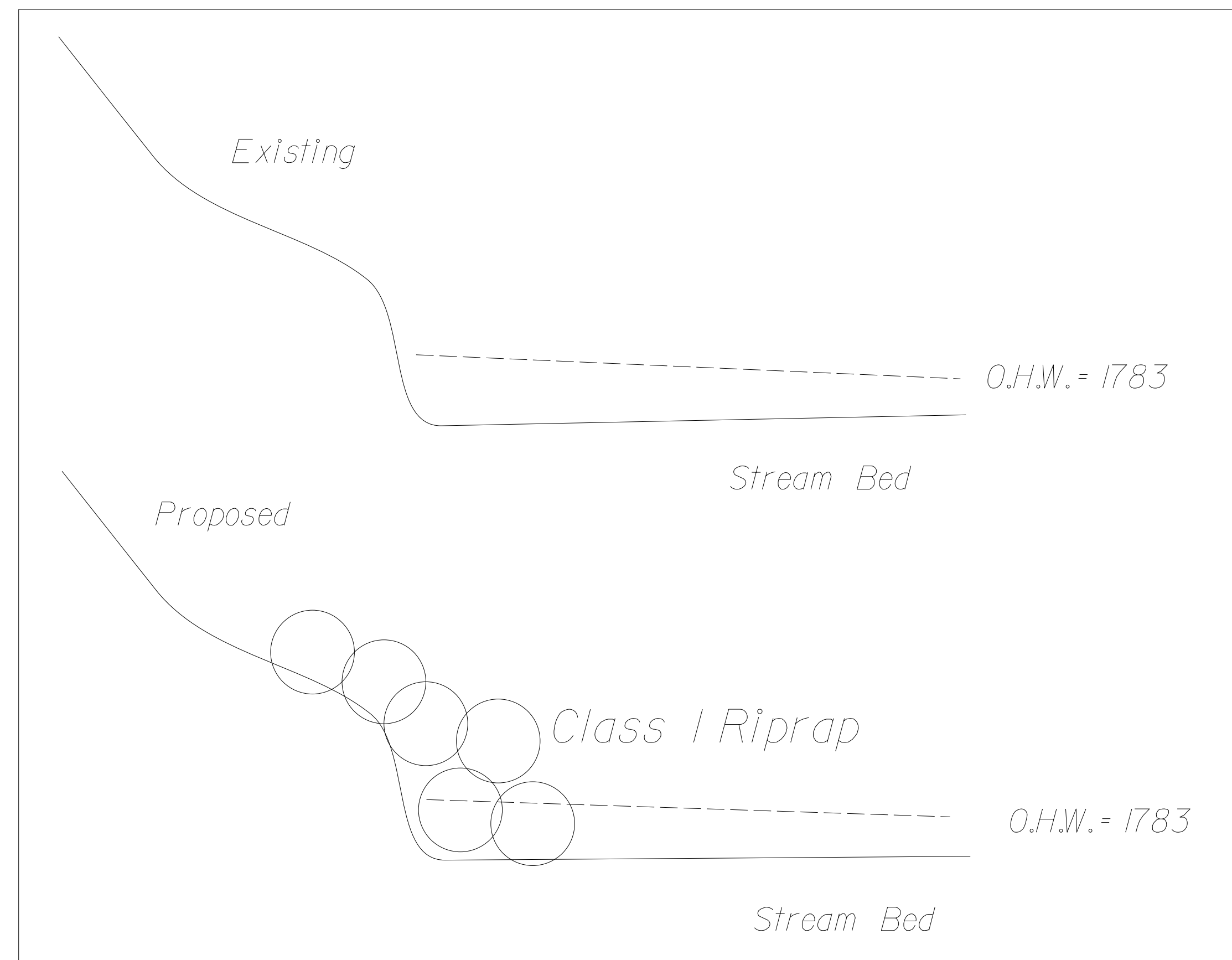
Scour Repairs along Wingwall - 10 ft

30 ft Prescriptive ROW

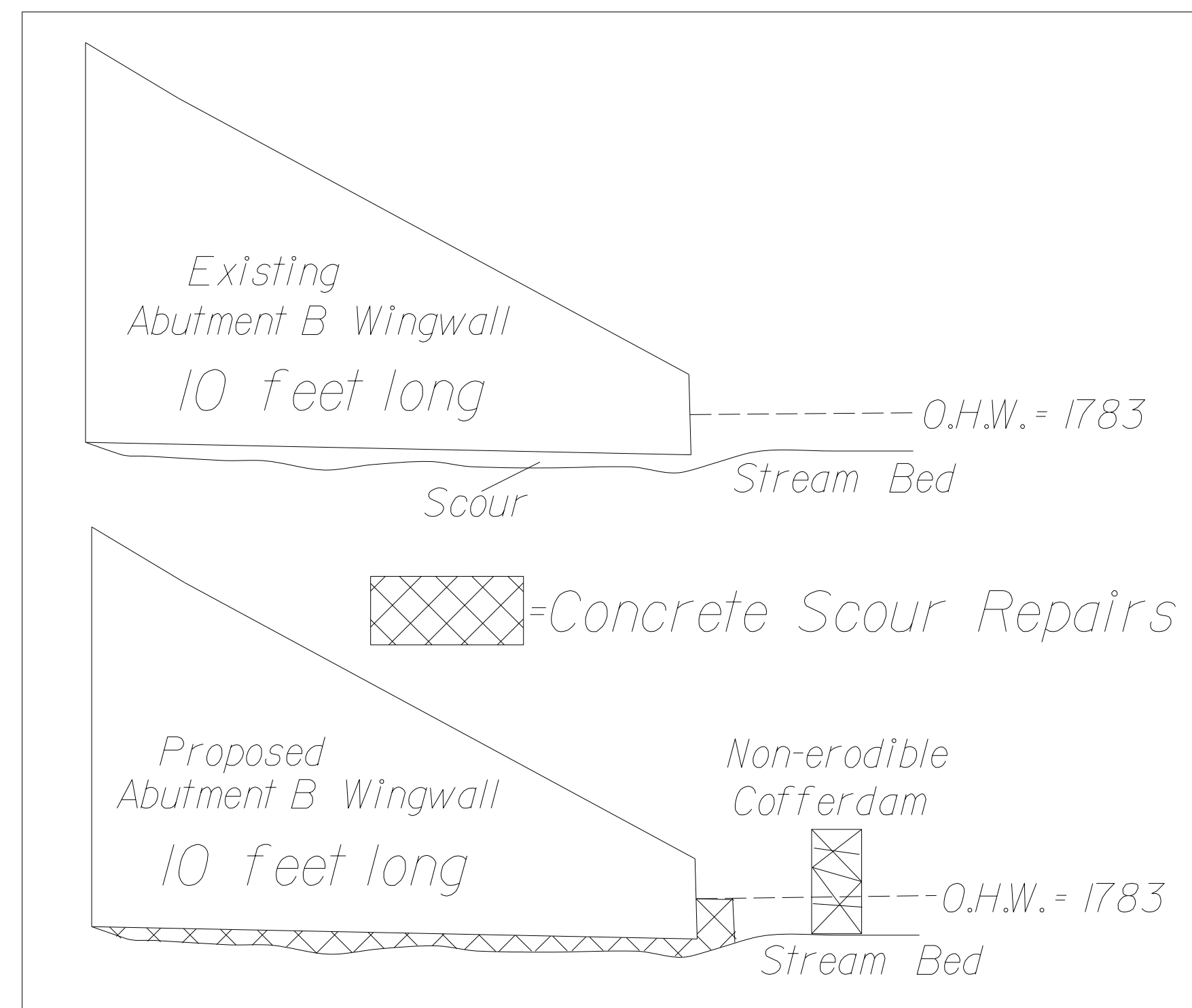
Abutment A Wingwall Replacement



25 feet of Riprap



Abutment B Wingwall Repairs



	Excavation	Perm Fill	Temp Fill
CY	1.3	3.2	2.9
SQ FT	36	86	80
Linear Feet of Stream Impacts = 35			
Cubic Yards Fill / Linear Foot = 0.09			

0678-083-23806022  
 Permit # 20-4000  
 Russell County  
 Moll Creek  
 Not to Scale  
 Vertical Datum=NAD27  
 Sheet 2 of 2  
 Date:10/16/19

# Looking west along Route 678



# Looking upstream – Moll Creek



# Looking downstream – Moll Creek



# 25 feet of riprap on west bank of Moll Creek



Area of new wingwall – downstream side Abutment B



# Repair scour along wingwall – downstream side Abutment A





Looking upstream from confluence with Copper Creek



# Confluence of Moll Creek & Copper Creek













Sanders, Dennis &lt;dennis.sanders@vdot.virginia.gov&gt;

**Rte. 678-083 Moll Creek Survey**

9 messages

**Sanders, Dennis** <dennis.sanders@vdot.virginia.gov>

Mon, Oct 26, 2020 at 9:58 AM

To: Brian Watson &lt;brian.watson@dwr.virginia.gov&gt;, Ernst Aschenbach &lt;ernie.aschenbach@dgif.virginia.gov&gt;

Brian/Erine

Do either of you have any comments on Dr. Neves survey on Moll Creek. I need some type of comment from DWR so the project can be fast-tracked at the Nov IACM.

**Aschenbach, Ernst** <ernie.aschenbach@dwr.virginia.gov>

Mon, Oct 26, 2020 at 11:02 AM

To: "Sanders, Dennis" &lt;dennis.sanders@vdot.virginia.gov&gt;

Cc: Brian Watson &lt;brian.watson@dwr.virginia.gov&gt;, Ernst Aschenbach &lt;ernie.aschenbach@dgif.virginia.gov&gt;, "ProjectReview (DGIF)" &lt;projectreview@dwr.virginia.gov&gt;

I don't remember getting a copy for review. I usually defer to Brian Watson. Keep me posted.

*\*\*Please note as of July 1, 2020 DGIF will become the Department of Wildlife Resources (DWR). Our new email addresses will end in @dwr.virginia.gov\*\**

**Ernie Aschenbach***Environmental Services Biologist*

P 804.367.2733

Email: [Ernie.Aschenbach@dgif.virginia.gov](mailto:Ernie.Aschenbach@dgif.virginia.gov)New Email: [Ernie.Aschenbach@dwr.virginia.gov](mailto:Ernie.Aschenbach@dwr.virginia.gov)

Virginia Department of Wildlife Resources

CONSERVE. CONNECT. PROTECT.

A 7870 Villa Park Drive, P.O. Box 90778, Henrico, VA 23228-0778

[www.dwr.virginia.gov](http://www.dwr.virginia.gov)

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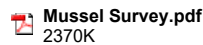
**Sanders, Dennis** <dennis.sanders@vdot.virginia.gov>

Mon, Oct 26, 2020 at 11:07 AM

To: "Aschenbach, Ernst" &lt;ernie.aschenbach@dwr.virginia.gov&gt;

Here is a copy - no mussels found.

[Quoted text hidden]

**Mussel Survey.pdf**  
2370K**Aschenbach, Ernst** <ernie.aschenbach@dwr.virginia.gov>

Mon, Oct 26, 2020 at 5:02 PM

To: Dennis Sanders &lt;dennis.sanders@vdot.virginia.gov&gt;, "Watson, Brian (DGIF)" &lt;brian.watson@dwr.virginia.gov&gt;, "ProjectReview (DGIF)" &lt;projectreview@dwr.virginia.gov&gt;

Dennis:

I found comments, dated July 2020? Is this the same project?

If it is, I defer to Brian Watson to provide any updated comments he may have re: T&E mussels...in response to the mussel survey report.

-Ernie

**ESSLog 40750; VDOT Rte 00678-083-23806022 instream concrete work in the dry in Moll Creek in Russell County, Virginia**

**Description:** Instream concrete work in the dry in Moll Creek approx. 35m upstream of confluence with Copper Creek designated T&E species waters in Russell County, Virginia.

(07/13/2020) Provided all work adheres to our standard recommendations for instream work, the proposed combined TOYR (from April 1 through September 30 of any given year) protective if the SE slippershell and the FESE yellowfin madtom, all work is performed in the dry, all concrete is allowed to harden prior to coming in contact with the water, and all mussels and fish are relocated from the cofferdam areas prior to dewatering by qualified professional in accordance with <https://dwr.virginia.gov/wp-content/uploads/mussel-guidelines-11-2018.pdf> and <https://dwr.virginia.gov/wp-content/uploads/media/Fish-Relocation-Best-Practices.pdf>, we support the proposed work plan. We are distributing these recommendations to Brian Watson, DWR Malacologist; and Mike Pinder, DWR Fisheries Biologist for their concurrence. We support any additional recommendations they may provide. We recommend contacting the USFWS regarding all federally listed species known from the region. We recommend contacting DCR-DNH regarding resources under their purview known from the region.

[Quoted text hidden]



Mussel Survey.pdf  
2370K

---

**Brian Watson** <brian.watson@dwr.virginia.gov>  
To: "Aschenbach, Ernst" <ernie.aschenbach@dwr.virginia.gov>, Dennis Sanders <dennis.sanders@vdot.virginia.gov>, "rr ProjectReview (DGIF)" <projectreview@dwr.virginia.gov>

Mon, Oct 26, 2020 at 5:15 PM

Based on the survey results, no additional work related to freshwater mussels is needed. Given the proximity to Copper Creek, the TOYR should still be followed that Ernie outlined below. All other comments regarding BMPs (e.g., work in the dry, E&S controls, etc.) still apply as well.

Brian



DWR-shield  
only\_Custo  
m

### Brian T. Watson

*Aquatic Resources Biologist/State Malacologist*

P 434.525.7522, x114 / M 434.941.5990 / F 434.525.7720

---

### Virginia Department of Wildlife Resources

*CONSERVE. CONNECT. PROTECT.*

A 1132 Thomas Jefferson Road, Forest, VA 24551

[www.VirginiaWildlife.gov](http://www.VirginiaWildlife.gov)

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*including all attachments.*

[Quoted text hidden]

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**Sanders, Dennis** <dennis.sanders@vdot.virginia.gov>  
To: "Parker, Taylor" <taylor.parker@vdot.virginia.gov>

Mon, Oct 26, 2020 at 8:56 PM

See comments from DWR - Based on the survey results, no additional work related to freshwater mussels is needed.

We are showing the time of year for copper creek in the permit packet.

[Quoted text hidden]

---

**Parker, Taylor** <taylor.parker@vdot.virginia.gov>  
To: "Sanders, Dennis" <dennis.sanders@vdot.virginia.gov>

Tue, Oct 27, 2020 at 6:37 AM

Thank you for forwarding the info! Can you add that coordination to the permit application, update the T&E form, and resave the application? I can forward this info to Luke and have him upload the updated version of the application and revise the agenda to reflect that this project won't be presented once you update it.

Thank you!

Taylor Parker  
Environmental Specialist  
VDOT Natural Resources  
1201 E Broad Street  
Richmond, VA 232819  
Office (804) 786-0733

[Quoted text hidden]

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**Sanders, Dennis** <dennis.sanders@vdot.virginia.gov>  
To: "Parker, Taylor" <taylor.parker@vdot.virginia.gov>

Tue, Oct 27, 2020 at 7:10 AM

Done and resaved, I did not hit the review button, let me know if that needs to be done.

[Quoted text hidden]

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**Parker, Taylor** <taylor.parker@vdot.virginia.gov>

Tue, Oct 27, 2020 at 7:19 AM



# Attachment G

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Photographs

0678-083-23806022

Permit # 20-4143

Russell County

Moll Creek

# Looking west along Rte. 678



0678-083-23806022

Permit # 20-4143

Russell County

Moll Creek

# Looking Upstream



0678-083-23806022

Permit # 20-4143

Russell County

Moll Creek

# Looking Downstream



0678-083-23806022

Permit # 20-4143

Russell County

Moll Creek

# 25 feet of Riprap



0678-083-23806022

Permit # 20-4143

Russell County

Moll Creek

# Area of new Wingwall



0678-083-23806022

Permit # 20-4143

Russell County

Moll Creek

# Repair scour along Wingwall



# Looking upstream from confluence with Copper Creek

0678-083-23806022

Permit # 20-4143

Russell County

Moll Creek





0678-083-23806022

Permit # 20-4143

# Confluence of Moll Creek & Copper Creek

Russell County

Moll Creek



# RUSSELL COUNTY

## BOARD OF SUPERVISOR'S BUDGET MEETINGS

Russell County Governmental Center  
Lebanon, Virginia 24266



### RUSSELL COUNTY BOARD OF SUPERVISORS FISCAL YEAR 2021/2022 BUDGET MEETING SCHEDULE

<b>Date</b>	<b>Activity</b>
01/27/21	Letter of Budget Requests to Departments, Offices, & Agencies
02/17/21	Dead-line for Departmental Budget Requests
03/12/21	Budget Expenditures Compiled
03/12/21	Revenue Projections Compiled
03/18/21	Budget Committee Workshop
03/25/21	Budget Committee Workshop
04/05/21	Full Board of Supervisors Budget Work Session
04/13/21	Advertise Public Hearing for Budget and Tax Rates
04/17/21	Advertise Public Hearing for Budget and Tax Rates
05/03/21	Hold Public Hearing on FY 2021/2022 Budget and Tax Rates
06/07/21	Approve Budget at Regular June Meeting

contracts, development agreements, and other relevant documents. The staff responsible for implementing and monitoring mitigation measures should be clearly identified in the mitigation plan.

Law, Authority, or Factor	Mitigation Measure


**Determination:**

**Finding of No Significant Impact** [24 CFR 58.40(g)(1); 40 CFR 1508.27]

The project will not result in a significant impact on the quality of the human environment.

**Finding of Significant Impact** [24 CFR 58.40(g)(2); 40 CFR 1508.27]

The project may significantly affect the quality of the human environment.

Preparer Signature:  Date: 1-29-21

Name/Title/Organization: \_\_\_\_\_

Certifying Officer Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Name/Title: \_\_\_\_\_

This original, signed document and related supporting material must be retained on file by the Responsible Entity in an Environmental Review Record (ERR) for the activity/project (ref: 24 CFR Part 58.38) and in accordance with recordkeeping requirements for the HUD program(s).

**DETERMINATION:**

- O **Box "A" has been checked for all authorities.** For Categorically Excluded actions pursuant to §58.35(a) [Does not apply to EA or EIS level of review which can never convert to Exempt], the project can convert to Exempt, per §58.34(a) (12), since the project does not require any compliance measures (e.g., consultation, mitigation, permit or approval) with respect to any law or authority cited at §58.5. The project is now made Exempt and **a contract may be issued by DHCD; OR**
  
- X **Box "B" has been checked for one or more authority.** For Categorically Excluded actions pursuant to §58.35(a), the project cannot convert to Exempt since one or more authority requires compliance, including but not limited to consultation with or approval from an oversight agency, performance of a study or analysis, completion of remediation or mitigation measure, or obtaining of license or permit. **Complete pertinent compliance requirement(s), publish NOI/RROF, request release of funds (HUD-7105.15), and wait for DHCD to issue a formal contract before committing funds; OR**
  
- O This project is not a Categorically Excluded action pursuant to §58.35(a), or may result in a significant environmental impact to the environment, and requires preparation of an Environmental Assessment (EA). Prepare the EA according to 24 CFR Part 58 Subpart E.

**MITIGATION MEASURES AND CONDITIONS FOR PROJECT APPROVAL:** *(If Box B is checked, provide details regarding further consultation, mitigation, permit requirements or approvals required to be incorporated into public notices and project requirements such as contracts, grants, loan conditions, etc. as described in the Statutory Worksheet). Ensure required measures are included in 7015.15 Project Description Section.*

PREPARER: Debbie Milton 1-29-21  
Preparer's Signature Date

Debbie Milton - Senior Planner  
Preparer's Name (printed) Title (printed)

**AUTHORIZED RESPONSIBLE ENTITY OFFICIAL:**

\_\_\_\_\_  
Authorized Responsible Entity Signature Date

\_\_\_\_\_  
Authorized Responsible Entity Name (printed) Title (printed)

**Combined Notice—Finding of No  
Significant Impact (FONSI/NOI-RR0F)**

PUBLICATION REQUIREMENT FOR PROJECTS  
REQUIRING AN ENVIRONMENTAL ASSESSMENT

Based on 15-day public comment period and 15-day State objection period

**COMBINED NOTICE: FINDING OF NO SIGNIFICANT IMPACT/INTENT TO  
REQUEST RELEASE OF FUNDS**

Date of Publication: February 8, 2021

Russell County Board of Supervisors  
137 Highland Drive  
Lebanon, VA 24266

(276) 889-8000 / Virginia Relay Center 711

TO ALL INTERESTED AGENCIES, GROUPS AND PERSONS:

On or about February 28, 2021 the above-named County will request the Virginia Department of Housing and Community Development (DHCD) to release Federal funds under Title I of the Housing and Community Development Act of 1974 (PL 93-383) to be used for the following project:

Belfast Waterline Extension Project, Phase III  
(Project Title)

Water Line Installation  
(Purpose or Nature of Project)

Belfast area of northern Russell County, Virginia  
(Location)

\$900,000  
(Estimated Cost of Project)

## FINDING OF NO SIGNIFICANT IMPACT

It has been determined that such request for release of funds will not constitute an action significantly affecting the quality of the human environment and, accordingly, the above-named County has decided not to prepare an Environmental Impact Statement under the National Policy Act of 1969 (PL 91-190).

The reasons for such decision not to prepare such Statement are as follows:

- a) No historic structures and/or archaeologically significant areas will be affected by this project.
- b) Installation of water lines into an existing neighborhood area is consistent with the zoning of the area to be served, the comprehensive plans of Russell County and will not affect the present character of the area.
- c) Short periods characterized by some dust and noise pollution generated by construction activities will be the only adverse environmental condition generated by this project.
- d) Erosion control, restoration of disturbed areas of grasslands and existing pavement will be accomplished in accordance with acceptable engineering criteria.
- e) Construction will generally be done in VDOT right-of-way where practical and only limited clearing of existing trees, grass, etc., will be required.

An Environmental Review Record respecting the Belfast Waterline Extension, Phase III has been made by Russell which documents the environmental review of the project and more fully sets forth the reasons why such Statement is not required. This Environmental Review Record is on file at the above address and is available for public examination and copying, upon request, at the Russell County Board Office between the hours of 9:00 a.m. and 4:00 p.m.

No further environmental review of such project is proposed to be conducted, prior to the request for release of Federal funds.

All interested agencies, groups and persons disagreeing with this decision are invited to submit written comments for consideration by the County to the office of the undersigned. Such written comments should be received at the address specified on or before February 16, 2021. All such comments so received will be considered and the County will not request the release of Federal funds or take any administrative action on the within project prior to (specific date sixteen days from date of publication). Comments should specify which aspect of the environmental review they are addressing.

## INTENT TO REQUEST RELEASE OF FUNDS

Russell County will undertake the project described above with Block Grant funds from the Virginia Department of Housing and Community Development, under Title I of the Housing and Community Development Act of 1974. Russell County is certifying to DHCD that Russell County and Lonzo Lester in his official capacity as County Administrator, consent to accept the jurisdiction of the Federal Courts if an action is brought to enforce responsibilities in relation to environmental reviews, decision making, and action; and that these responsibilities have been satisfied. The legal effect of the certification is that upon its approval, Russell County may use the Community Development Block Grant funds, and DHCD will have satisfied its responsibilities under the National Environmental Policy Act of 1969 and related laws and authorities. DHCD will accept an objection to its approval of the Release of Funds and acceptance of the County's Certification for a period of fifteen days following the anticipated submission date or DHCD's actual receipt of the request (whichever is later) only if it is on one of the following bases: (a) that the certification was not in fact executed by the chief executive officer or other officer of applicant approved by DHCD; (b) that applicant's Environmental Review Record for the project indicates omission of a required decision, finding, or step applicable to the project in the environmental review process; (c) the grant recipient has committed funds or incurred costs not authorized by 24 CFR Part 58 before approval of a release of funds by HUD/State; (d) another Federal agency acting pursuant to 40 CFR Part 1504 has submitted a written finding that the project is unsatisfactory from the standpoint of environmental quality.

Objections must be prepared and submitted in accordance with the required procedure (24 CFR Part 58, Sec. 58.76), and may be addressed to:

DIRECTOR  
VIRGINIA DEPARTMENT OF HOUSING  
AND COMMUNITY DEVELOPMENT  
ATTN: PROGRAM ADMINISTRATION AND ASSISTANCE OFFICE  
600 East Main Street, Suite 300  
RICHMOND, VIRGINIA 23219-1321

Lonzo Lester/County Administrator/Certifying Officer  
Russell County Board of Supervisors  
137 Highlands Drive  
Lebanon Virginia 24266

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# Russell County Virginia

“The Heart of Southwest Virginia”

Oris Christian  
At-Large

Lou Ann Wallace  
District 2

Carl Rhea  
District 3

Rebecca Dye, Chairperson  
District 6

Tim Lovelace, Vice-Chairman  
District 1

David Eaton  
District 4

Steve Breeding  
District 5

Lonzo Lester  
County Administrator

---

January 25, 2021

Ms. Tamarah Holmes  
ARC Program Manager  
VA Department of Housing &  
Community Development  
Main Street Center  
600 East Main Street, Suite 300  
Richmond, VA 23219

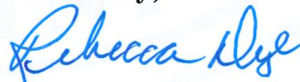
Dear Ms. Holmes:

Please be advised that the Russell County Board of Supervisors, in partnership with the Russell County Public Service Authority, intends to apply to the CDBG program in April, 2021 for \$2,500,000 for the Dante Regional Sewer Line Extension Project. This is a very important project for the County in that it will address serious water quality problems in Lick Creek, a tributary of the Clinch River. The project takes on added significance in light of the current development of the Clinch River State Park.

It also will provide a cost-effective solution to the growing problems at the aging Dante Sewage Treatment Plant. The project will moth ball the Dante Plant and take wastewater from the Dante Community to the St. Paul Sewage Treatment Plant, picking up sewage from two unserved communities where straight-piping is prevalent. The County is currently purchasing capacity at the St. Paul plant which is going largely unused.

This ARC application is critical to the County's efforts to insure that the water quality of the Clinch River, the nation's most bio-diverse river, is improved. Thank you for consideration of this application.

Sincerely,



Rebecca Dye, Chairperson  
County of Russell Virginia



# Application to DHCD Submitted through CAMS

County of Russell, Virginia

Dante Regional Sewer Line Extension Project

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**Application ID:** 82301062021142032  
**Application Status:** Pending  
**Program Name:** ARC Area Development (Construction) 2021  
**Organization Name:** County of Russell, Virginia  
**Organization Address:** 137 Highland Dr.  
Lebanon, VA 24266-7169  
**Profile Manager Name:** Vicki Porter  
**Profile Manager Phone:** (276) 889-8000  
**Profile Manager Email:** vicki.porter@russellcountyva.us

**Project Name:** Dante Regional Sewer Line Extension Project  
**Project Contact Name:** Lonzo Lester  
**Project Contact Phone:** (276) 889-8000  
**Project Contact Email:** lonzo.lester@russellcountyva.us  
**Project Location:** 137 Highlands Drive  
Lebanon, VA 24266-7169  
**Project Service Area:** Russell County

**Total Requested Amount:** \$299,750.00  
**Required Annual Audit Status:** Accepted

2/2/2021 3:01:01 PM

Pages: 1 of 2

# Application to DHCD Submitted through CAMS

County of Russell, Virginia

Dante Regional Sewer Line Extension Project

## Budget Information:

Cost/Activity Category	DHCD Request	Other Funding	Total
<b>Administration</b>	<b>\$0.00</b>	<b>\$80,000.00</b>	<b>\$80,000.00</b>
Administration	\$0.00	\$80,000.00	\$80,000.00
<b>Land, Structures, Right of Way, Appraisals, etc...</b>	<b>\$0.00</b>	<b>\$20,000.00</b>	<b>\$20,000.00</b>
Land, Structures, Right of Way, Appraisals, etc...	\$0.00	\$20,000.00	\$20,000.00
<b>Relocation Expenses and Payments</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>
<b>Architectural and Engineering Fees</b>	<b>\$0.00</b>	<b>\$383,000.00</b>	<b>\$383,000.00</b>
Architectural and Engineering Fees	\$0.00	\$383,000.00	\$383,000.00
<b>Site Work</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>
<b>Clearance and Demolition</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>
<b>Equipment</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>
<b>Contingencies</b>	<b>\$0.00</b>	<b>\$210,000.00</b>	<b>\$210,000.00</b>
Contingencies	\$0.00	\$210,000.00	\$210,000.00
<b>Personnel</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>
<b>Fringe Benefits</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>
<b>Travel</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>
<b>Supplies</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>
<b>Contract Services</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>
<b>Indirect Costs</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>
<b>Construction</b>	<b>\$299,750.00</b>	<b>\$1,807,000.00</b>	<b>\$2,106,750.00</b>
Construction	\$299,750.00	\$1,807,000.00	\$2,106,750.00
<b>Other</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>
<b>Total:</b>	<b>\$299,750.00</b>	<b>\$2,500,000.00</b>	<b>\$2,799,750.00</b>

### Budget Narrative:

Russell County intends to apply for a Regional CDBG Competitive Grant on April 1, 2021 for \$2,500,000. See commitment letter from the Russell County Board of Supervisors in the Attachments.

## Questions and Responses:

- NOTE ALL questions must be answered before the application is complete. You may save and exit then continue at a later point, but keep in mind all text boxes must have a response before you will be allowed to SUBMIT. For questions which are not relevant, enter "N/A". Remember to SAVE frequently. The system will time out after periods of inactivity, so remember to save often!

### Goals and Strategies

- Indicate which of the following five ARC Goals the proposed project will address. Select only ONE goal the proposed project will primarily address:
  - Economic Opportunities
  - Ready Workforce
  - Critical Infrastructure
  - Natural and Cultural Assets
  - Leadership and Community Capacity

### Answer:

C. Critical Infrastructure

- Indicate the State Objective to be addressed by the project. Select only ONE State objectives based on your ARC goal.
  - Promote regional partnerships that support regional economic development, encourage activities that diversify the economic base, enhance entrepreneurial activities, and provide training and technical assistance to agents engaged in economic development.
  - Develop a world class and highly skilled, competitive workforce that is well educated and appropriately trained for the job market, as well as provide adequate health care services throughout the Region.
  - Assist communities to develop, expand, and upgrade infrastructure, including broadband to allow for greater access to resources and opportunities for increased economic growth and improve the quality of life.
  - Natural and Cultural Assets: Assist communities in the preservation, development and promotion of natural and cultural assets for local economies and improve quality of life.

e. Leadership and Community Capacity: Strengthen current and next generation local and regional leadership capacity to innovate, enhance collaborative and community based skills to improve quality of life in Appalachia Virginia.

**Answer:**

C. Assist communities to develop, expand and upgrade infrastructure, including broadband, to allow for greater access to resources and opportunities for increased economic growth and improve the quality of life.

3. Indicate the specific State Strategy based on Virginia ARC Objective selected in Question 2 for the proposed project. Please list the strategies by number and write out the strategy description that best fits the proposed project (do not just provide the number). Consult page 8 of the 2020 ARC Program Guidelines for additional information on the Goals and Virginia's ARC Objectives and Strategies. You can find this document on the DHCD website.

**Answer:**

3.1 Support the deployment of regional solutions to address water/wastewater infrastructure needs

**4. Project Description**

Provide a one sentence statement describing the primary purpose of the proposed project, project activities and expected outcomes of the project. List all major activities such as construction, facility expansion, water or sewer service, etc.

**Answer:**

Extension of a sewerline from Dante, Virginia to the Town of St. Paul STP providing a regional approach to serve 220 existing customers and 21 new customers to eliminate straight piping and failed septic systems that are adversely impacting water quality in Lick Creek, a major tributary of the Clinch River, North America's most biodiverse river, and the site of the State's first bluewater state park.

5. Discuss the proposed beneficiaries. Applicants must provide letters and other documentation which provide confirmation that the project will benefit the number of individuals it is targeting. Identify any individuals expressing an interest in participating as a project beneficiary, providing, also, their names and telephone numbers. Applicants are strongly encouraged to solicit letters from proposed beneficiaries and include in the ATTACHMENTS section.

**Answer:**

The proposed beneficiaries of this project are the residents of the 241 households served. The number of households to be served is documented in the PER and revised cost estimate which are attached. Letters from beneficiaries are also attached.

6. Describe how the project addresses the priorities of local or regional community or economic development strategy or plans, and describe efforts to coordinate the project with other area economic development activities.

**Answer:**

This project supports the water quality priorities of Russell County and several community and regional groups, including the Dante Community Association, the Clinch River Valley Initiative (CRVI), as well as state agencies such as DEQ and the Clinch River State Park. By addressing the water quality issues in Lick Creek and the Clinch River, Russell County's and CRVI's economic development strategy will be strengthened. Letters from CRVI and the State Park Manager are attached.

7. Provide a detailed work plan, listing projects activities (what will be done, who will complete each activity) and timeline during the course of the project. Explain how this project is ready to proceed. Why is now the appropriate time to undertake this effort? (Note: Projects should be approved by ARC by October 1, 2021.) The start date should be projected to be no earlier than October 1, 2021. What steps have been taken to get the applicant and its proposed beneficiaries ready for this project? What is the level of energy and degree of will among the organization and its partners to see this effort through? **Complete the Performance Target Table template in the ATTACHMENTS tab.**

**Answer:**

The general Work Plan for this project is as follows:

- Pre-Contract activities, i.e. environmental review, CDBG application preparation, public hearings, etc. - The responsible entity is the Cumberland Plateau Planning District Commission and will be completed by April 2021.
- Project Design activities, i.e. Final Design, DEQ review., bid documents, Bid Opening, etc. - The responsible party will be Thompson and Litton Engineering and will be initiated after all funding is secured.
- Project Construction activities, including project inspection and construction oversight will be completed by T & L and the Russell County PSA. Labor Standards and other grant requirements will be completed by the CPPDC in coordination with contractors and the grantee. Construction is expected to be completed in 18 months.

A more detailed Performance Target Table can be found in Attachments.

This project is definitely ready to proceed when all funding is acquired. Planning began in 2013 under the direction of the Castlewood Water and Sewage Authority which procured Crossroads Engineering to prepare a PER for the project. Because of the high cost estimated to construct the project, the Authority and County couldn't proceed because of the high rates that would have to be levied on households in this distressed area to cover debt required. (See PSA Letter in attachments). The fiscal frailty of the Authority was also a factor.

Since 2016, the Board of Supervisors has worked to consolidate the Castlewood Authority and the Russell County PSA, and now the RCPSA is in a better position to tackle this project. The PSA has looked to a two-phased approach that will

not only serve unserved communities, but also bring wastewater from the aging Dante STP to the St. Paul STP. The County is already paying for capacity at the St. Paul Plant that it is not using. (See Attachments.) Since the St. Paul Plant is newly renovated and expanded, bringing wastewater from Dante and the communities of Sun and Hanging Rick to the St. Paul STP makes economic sense and will better address water quality issues in Lick Creek and the Clinch River.

The citizens in the service area are engaged and supportive of the project now that a solution has been settled on. The County has held several Community meetings, PSA meetings and Public Hearings regarding the project, the dates of which are as follows: Public Hearings - 09/30/2020, 10/14/2020; PSA Meetings - 08/18/2020, 10/20/2020, 12/29/2020 and 01/19/2021.

8. Detail why ARC funding is needed at this time. In addressing the need for ARC resources, discuss why ARC funding is being sought in lieu of other funding.

**Answer:**

This project will primarily serve existing customers, address water quality issues in Lick Creek and the Clinch River and assist in providing more cost efficient and quality treatment of wastewater generated by this project. The County PSA has been recently consolidated. DEQ is urging the County to take action regarding the water quality problems that straight piping is imposing on the project area and the Clinch River, and the County Board of Supervisors is promoting this regional approach. The County will be applying for a regional CDBG grant of \$2.5 million in April, 2021 so this ARC grant is needed to complete the funding package. This grant package is the only way to construct the project and maintain reasonable rates for this distressed community. The PSA projects that even a 0 percent loan for 30 years would increase average sewer bills from \$43.25/mo. to \$48.25/mo. This would result in combined water and sewer bills of \$91.50/mo. in this ARC Area of Distress.

9. **For Construction Projects Only**

Identify the organization or agency that will own the improvements and provide maintenance for the completed project (where applicable). Enter "N/A" if this does not apply.

**Answer:**

The Russell County PSA will own and operate the completed sewer line extension project. The PSA has purchased sufficient capacity at the St. Paul Sewage Treatment Plant to treat the sewage generated by this project. The Town of St. Paul owns and operates that St. Paul STP.

10. Describe any plans for leasing or transferring ownership. Enter "N/A" if this does not apply.

**Answer:**

N/A

11. Discuss efforts that have been made to improve the energy-efficiency and green-building practices of the project. For industrial sites or community facilities, describe approaches to marketing the project to potential users and beneficiaries, including strategic sectors to be pursued and an explanation of who will be responsible for marketing activities.

**Answer:**

N/A

12. **Telecommunication Project Only**

Discuss in detail which of the two eligible telecommunications project types this proposal addresses:

- . Planning and Design
- . Deployment

**Answer:**

N/A

13. **Telecommunication Project Only**

Discuss in detail how the proposed effort addresses one of the following ARC Telecommunications Focus Areas:

- . Access to Infrastructure
- . Education, Training, and Workforce Development
- . E-Commerce Readiness
- . Technology Sector Employment

**Answer:**

N/A

14. **Performance Measures and Benefits**

(Please note that if your project has jobs created/retention or leverage private investment attach letters documenting private-sector funding or job commitments, if available).

Describe proposed performance measures for each project activity. Please note that the proposed performance measures and project activities must be measurable.

Outputs-Selecting an Output measure from Appendix F, please describe in detail the proposed project activities that will

be implemented to achieve the associated output measures (quantifiable) to be accomplished. Please note that additional outputs not included in Appendix F may be included as well. Outputs **MUST** be specific, measurable, attainable, relative and time-bound. Percentages may also be used to supplement the application. *For example: construction of 4 classrooms and one collaborative workspace for approximately 20 entrepreneurs.*

**Answer:**

The proposed paired output measure for this project is households served. The project activities that will be implemented to achieve this output measure of new or improved wastewater services to 241 households are: construction of approximately 32,000 L.F. of sewer line, 1 pump station, 16 manholes, 600 L.F. of stream, road and railroad crossings, 21 sewer connections and appurtenances.

## 15. List the expected outcomes:

Selecting an Outcome measure from Appendix F, please describe the overall desired goal or outcome measurement (including long-term benefit), specific ARC goal, specific state objective to be accomplished. The goal or outcome measure needs to be specific, measurable, attainable, relative and time-bound. Diversification of the local economy and reduction of out-commuting are examples of possible outcomes of a project that includes utility extensions to help an industry locate in a particular market. Consult *Appendix F* for examples of project Outcomes.

**Answer:**

The proposed paired outcome measure for this project is households improved. When completed, 241 households will have been provided the critical infrastructure at a more reasonable cost to improve their quality of life through a regional wastewater project that addresses water quality as per ARC Goal C and State Objective III.

## 16. Describe additional project benefits likely to result from the project (e.e., positive impact of future economic development activity in the area).

**Answer:**

The project, which is strongly supported by DEQ and VDH, will improve water quality in Lick Creek by eliminating straight-piping from 21 households. This will improve water quality in the Clinch River. Since Lick Creek empties into the Clinch just above St. Paul, this will support St. Paul's efforts to maximize tourism benefits anticipated from the Clinch River State Park. Numerous enterprises in support of this effort, such as the Wetlands Estonia Learning Center and the Clinch River Ecological Education Center at Oxbow, will bring more economic opportunities to the area.

## 17. If the proposed project is a continuation or expansion of an ongoing program (whether or not the program received ARC funding), describe the program's outputs and outcomes to date, as well as other project milestones reached. Describe any evaluation tools or methods that were used to measure the accomplishment and progress.

**Answer:**

This project builds on the huge Dante Comprehensive CDBG project completed in the mid-1990s. That project provided public sewer and other services to over 300 households in Dante. By taking the wastewater from this community to the St. Paul STP, the community will have a more cost effective sewer system and 21 unserved households will be able to eliminate straight-piping into Lick Creek and ultimately the Clinch River. The County plans to apply for a second phase to serve about 100 households in Hamlin and Honey Branch communities when this main line is built.

18. **Project Location**

Please describe the locality (or localities) where the project will be located and the project's service area by locality (or localities) (i.e. place name, boundaries, building, etc.) Please note to include (a) the geographic area for services and benefits for residents that are in relatively close proximity, or (b) the service area when residents are scattered over a wide area.

**Answer:**

The project is located in western Russell County along St. Rt. 63 from the Dante Community south to St. Paul. The service area includes the entire community of Dante, a historic coal camp, and the communities of Sun and Hanging Rock. This project will greatly improve health and quality of life for all residents.

## 19. Provide a list of all census tracts in the service area and a map in the ATTACHMENTS of the project service area with census information overlaid. ARC tracks activities and benefits in "areas of distress" within Distressed, At-Risk, Transitional, and Competitive Counties.

**Answer:**

The census tract for the service area is 302, an Area of Distress in Russell County, an ARC At-Risk County. A very small portion of Census Tract 306 is impacted. A service area map with Census information overlaid is attached.

## 20. Attach maps(s) to illustrate the project's location and service area, as well as proximity to distressed areas. Projects providing site improvements, a site map must show proposed improvements, including affected or proposed buildings or facilities, water and sewer lines, water storage tanks, treatment plants, drainage improvements, access roads, location of assisted industry(ies) on site plan, etc. The map(s) should show at least a 10-mile radius, clearly showing roads, appropriate service area, and significant landmarks.

**Answer:**

Project location and service area maps showing census information, proposed project improvements and roads and landmarks are attached.

21. Describe why the location and service areas were selected.

**Answer:**

The service area was chosen because of the water quality issues in Lick Creek identified by DEQ and Russell County and the need to provide adequate public sewer collection and treatment services to that service area.

22. Identify those individuals and organizations, including names and telephone numbers, which have committed to support this project. Provide information on the type and level of support provided (in-kind and financial resources). Identify any individuals expressing an interest in participating as a project beneficiary, providing, also, their names and telephone numbers. Be prepared to provide letters from these individuals and entities documenting their role in the project upon request in the ATTACHMENTS tab.

**Answer:**

Several Organizations and individuals are committed to in-kind or financial support to this project. (Letters documenting their roles are found in the Attachments.) They are:

- Russell County Board of Supervisors, specifically Lou Ann Wallace, (276)608-0642, Board Member representing the service area, and Lonzo Lester, County Administrator (276)889-8000.
- Russell County PSA, specifically Harvey Hart, Director (276)701-2000, and Carter McGlothlin, PSA Board Chair (276)971-5073.
- Town of St. Paul, specifically Mayor, Kenneth Holbrook, (276)762-5297, and Public Works Director, Earl Carter (276)762-5297.
- VDH, specifically Brian Stanley, Environmental Health Manager, Senior, (276)415-3370, and Karen Shelton, M.D., Interim District Health Director, (276)415-3381.
- DEQ, specifically Bill Spencer and Stephanie Kreps, Abingdon Field Office (276)676-4800.
- Dante Community Association, specifically Pat Gibson, (276)791-0026.
- Sun Community Residents, specifically Brandon Helbert, (276)762-0332.
- Clinch River Valley Initiative, specifically Idalina Walker, staff for Friends of SWVA, (540)239-3311.
- Wetlands Estuaries Learning Center, specifically Terry Vencil, Director (276)393-2024.
- UVA's College at Wise, specifically Shannon Blevins, Vice Chancellor, Office of Economic Development and Strategic Initiatives (276)328-0162, and Donna Henry, Chancellor.
- Nature Conservancy, specifically Steve Lindeman, Clinch Valley Program (276)676-2209.
- Clinch River State Park, specifically Scott Bowen, State Park Manager (276)254-5487.
- Cumberland Plateau, specifically Jim Baldwin, Executive Director & Debbie Milton, Planner, (276)889-1778.

23. **Project Rationale**

Indicate the NEED and DEMAND for the project. Describe problems and opportunities that the project will address and explain how they impact the community. Explain how the proposed project represents progress towards addressing a regional strategy will fill a void in current services or programs.

This section should address the extent to which there is a need and demand for your proposed project. In addressing project need and demand, discuss any relevant data (include sources) derived from plans, studies, statistics, customer data, or engineering reports to support these claims. The sources of such data should be cited (title, date, page numbers) and include documentation in the ATTACHMENTS tab but remember to summarize all key elements in your narrative. There must be a direct and substantial relationship between the proposed project, ARC goal and state objective, and documented community need.

**Answer:**

The need for this project was first documented in the Southwest Virginia Wastewater Study completed in 2005. That study identified 116 centralized sewer projects in PDCs 1, 2 and 3 and the Castlewood Project, a portion of which includes this project, was ranked #6 in need. A copy of that priority list is included in the Attachments. Later in 2010, the project was identified as a future sewer project in the Russell County Comprehensive Plan on page V-34. A copy is included in the Attachments.

This project was initiated in 2013 with a PER prepared by Crossroads Engineering in response to VDH and DEQ concerns about straight-piping and septic system failures along Lick Creek and its impact on water quality of the Clinch River. The water quality issues were outlined on page 4 of the PER which was completed 07/19/13 and is attached. DEQ reviewed that PER and some plans have been developed. The County's two historic water and sewer providers, Russell County PSA and Castlewood Water and Sewage Authority, consolidated in 2018, and the Russell County PSA has taken on this regional sewer project. The major decision in the County's approach is the permanent abandonment of the aging Dante STP due to the high costs of operation after the loss of over 100 customers over the past 25 years. With the County already purchasing capacity at the St. Paul STP (See Attached Agreement), it makes sense to close the Dante Facility and extend service to several unserved communities on the way from Dante to St. Paul that will address the water quality concerns in Lick Creek. Residents of the service area and the Dante Community Association support the project. (See recent letters documenting this support in the Attachments).

Both DEQ and VDH have long been advocating for a sewer project to address water quality issues in the service area. DEQ, in a letter of 01/26/2021, forcefully asserts that the reason Lick Creek violates the state bacteria standard is "straight pipe discharges and/or improperly operating on-site disposal systems". In a letter of January 28, 2021, the VDH Cumberland Plateau Health District Interim Director acknowledges the E-coli impairment of Lick Creek, outlines the number of homes in violation, and states that their "office has recently issued or will be issuing Alleged Notice of Violations for illegal direct discharging of sewage into streams and/or onto the ground". Between this project (21) and the second phase (100), approximately 121 households will have access to public sewage facilities for the first time. This project will enable Russell County to continue working with Wise County on additional extensions off this main line into the Honey Branch and Hamlin Communities. This next phase of the regional project will provide public sewer services to approximately 100 households, bringing the total to the 121 households outlined in the VDH

24. Describe any partnerships or collaborations with other local community, state, and regional agencies in the development of the project proposal. Provide letters of support in the ATTACHMENTS tab.

**Answer:**

The RCPSA has an agreement in place with the Town of St. Paul to purchase sewage treatment capacity that will serve this project. A copy is found in the Attachments.

In addition, the 220 households in Dante on the Dante Sewer system will have more efficient treatment services by abandonment of the aging Dante STP and transmission of sewage to the newly renovated and expanded St. Paul sewage treatment plant. This will prevent any major rate increases due to rising maintenance costs at the old Dante STP.

**25. Sustainability and Grantee Capacity**Note to Nonprofits

Nonprofit organizations applying for ARC funding must provide the following. Be sure to include these items in the ATTACHMENTS tab. -- *A copy of their current designation as a 501(c)3 nonprofit organization.*

Indicate the organization type (i.e. local government, educational institution, nonprofit, etc.). Provide a statement of the other business conducted by this organization and the relationship of this project to this other business.

**Answer:**

The Russell County Public Service Authority operates all county water and sewer systems, sometimes in partnership with towns and adjoining counties. Those partnerships involve purchase of services and joint delivery of services where circumstances call for cooperative agreements for geographic and economic reasons. This is the case with this project as it involves the purchase by Russell County of treatment capacity at the Town of St. Paul's STP in Wise County.

26. Briefly describe your capacity to undertake the proposed activity by describing previous experience with relevant activities. Provide the name, description, performance targets, and outcome of two of the most similar and recent projects implemented by this organization.

**Answer:**

The two most recent utility infrastructure projects implemented by the Russell County PSA are the Belfast Phase 1 and Belfast Phase 2 Water Projects. The PSA completed the Belfast Phase 1 project satisfactorily and in compliance with a VDH grant award. The Belfast Phase 2 project is still under construction and came in within budget. It was a CDBG project funded with other local and regional funding provided by the Cumberland Plateau Southwest Water and Wastewater Construction Fund and the Coalfield Water Development Fund. The PSA and CPPDC successfully managed these two projects and met all grant requirements of the funding agencies for the benefit of new public water service to over 100 households.

27. Describe your experience in managing local, state and federal grant awards. *A detailed synopsis of similar projects managed and implemented by the organization within the last three years.*

**Answer:**

As summarized in Question 26, PSA, County and the CPPDC worked to successfully complete the Belfast Phase 1 and Phase 2 projects that involved VDH, CDBG, CWDF and Southwest Water and Wastewater Construction Fund grants. The same partners assisted the Town of Cleveland in addressing the Town's emergency sewage treatment plant situation caused by flooding of the Clinch River in February, 2020. The County, PSA and PDC worked with the Town, DEQ, VDH and other organizations to assist the Town in addressing this catastrophic event. PDC funding from Southwest monies allowed the Town to contract with a pump and haul firm to keep raw sewage from entering the Clinch River until the Town was able to obtain insurance funds to complete a more permanent solution. The Russell County Board of Supervisors applied for and received a CDBG Planning Grant to prepare a PER for a long-term regional solution for the Cleveland area. That project was successfully completed in August, 2020.

28. Provide the names and describe the qualifications (i.e. the skills, knowledge, and attributes each individual possesses and the value they provide to the overall project effort) of key individuals who will be responsible for managing and or carrying out implementation.

**Answer:**

The names, titles, roles and responsibilities of the key individuals responsible for this project:

Lonzo Lester – Mr. Lester is County Administrator for Russell County. He will act as certifying officer for the project. He has performed in this capacity for 5 years for the county. The County will execute an agreement with the Russell County PSA to administer this project on behalf of the County should it be funded.

Harvey Hart – Mr. Hart is the Operations Manager of the Russell County Public Service Authority. Mr. Hart will have overall responsibility for seeing this project through to completion and Russell County PSA will provide operation and maintenance of the system once completed. Mr. Hart has completed 10 CDBG funded projects and also has much experience constructing projects using force account.

Earl Carter - Mr. Carter is the Town of St. Paul Public Works Director. He will oversee the operation of the St. Paul STP.

Rhonda Lester – Ms. Lester has worked for the PSA over 10 years as the Construction Administrator of the Russell County Public Service Authority and has been the financial administrator for every grant water project. Ms. Lester will have overall financial responsibilities, including maintaining a general ledger, cash receipts journal, cash disbursements journal and a general journal. She will be responsible for seeing that all grant funds are appropriately deposited, posting cash receipts and setting up a computerized system to monitor the project along with the grant administrator.

Debbie Milton – Mrs. Milton, Senior Planner for the Cumberland Plateau Planning District Commission, has over 15

years' experience in water project development. Her responsibilities for this project will be serving as the grant administrator and will include the day-to-day grant management of this project, including maintaining all project files, processing of all drawdowns, and contract compliance management. She will be the local liaison with all funding agencies. Mrs. Milton will have primary responsibility for labor standards and EEO compliance.

Thompson and Litton – The final plans and specifications for this project will be submitted to the Virginia Department of Environmental Quality for review, 2021. Thompson and Litton has completed over 30 water and sewer projects in Russell County and currently has several other Russell County projects in the planning stages. Mr. James Baker, Project Engineer with T & L's Wise office, is responsible for the engineering and design for this Russell County PSA project. He has many years of experience with design and construction oversight with similar sewer projects. He will be assisted by Rita Baker, Project Manager. Their duties will include monitoring construction methods, maintaining a construction diary, verifying quantities, maintaining as-built drawings, verifying materials stored, and monitor system testing, interpreting plans and working with contractors, inspectors and the PSA.

Dante Community Association - This community development organization has completed numerous projects for their community, including renovation of the historic Dante Depot, the Dante Campground, the renovation of the Arty Lee School and other significant projects. Pat Gibson, Association President, and other members will assist the PSA and consultants in implementing this project as intermediaries with the community's residents.

29. If your project involves the procurement of any consultant(s), describe the process that will be used to select this consultant. Will the consultant be solicited through a Request for Proposal (RFP)? Who will be responsible for evaluating and selecting the best response? What criteria will be used to determine the most suitable responses? Describe proposed qualifications for all consultants and subcontractors, and describe the competitive procedures used to select them.

**Answer:**

The Russell County PSA has procured the services of Thompson & Litton for design and construction management of this project. An RFP was advertised 03/18/20 and 03/25/20 and T & L selected in accordance with the Selection Criteria set forth which included experience of staff in similar projects with the PSA, proximity of offices to Russell County, and adequate available staffing to complete the work. T & L is a 70-year old firm with extensive experience in sewer project design and implementation in Southwest Virginia.

30. Describe your strategy for ensuring the project's long term sustainability once ARC funds are no longer available, and your capacity to manage long-term operations. Discuss the plans for continuation of the project following initial ARC funding (once ARC funds have been expended). **For projects involving construction or renovation of a community facility, tourism facility, hospital, business incubator, commercial kitchen, or similar facilities include 5-year pro forma financial projections to demonstrate sustainability.** Projections should be prepared by a third party.

**Answer:**

The RCPSA will operate this system once constructed using system revenues that are based on rates sufficient to manage the project long-term. An Operations and Maintenance Plan will be prepared by T & L.

31. **Budget Information and Supporting Materials**

**Complete the ARC BUDGET template in the ATTACHMENTS tab.** In completing this template be sure to list the specific project activities and the proposed funding to support each activity; it is critical to provide a high level of detail to illustrate exactly which activities will be supported with ARC funds. Be sure to accurately document the source of cost information. **Complete budget form and upload any applicable letters of commitment from each funding source, citing the specific amount of funds committed, in the ATTACHMENTS tab.** Please indicate if the budget includes personnel or contractual expenses (cash or in-kind resources), estimate the number of hours/days and hourly rate (or portion of FTE and salary) for the time that is expected to be spent on the proposed activity by key personnel, contractors, or consultants. After grant is awarded, all time should be tracked by actual hours worked for each individual.

**Complete the FUNDING SOURCES TABLE template in the ATTACHMENTS tab.** In completing this template, list all other funding sources (private, local, state, federal, etc.), please state if source is a grant or loan, and the status of the funds (i.e. pending, committed, application submit, etc.). If the project is contingent on these funds, please provide an explanation as to how the project will be implemented without these funds (i.e. scaled back, reduced beneficiaries or participants, etc.). Provide descriptions of specific in-kind resources committed, including the methods used to determine their value.

**Complete the ARC MATCH CALCULATIONS FORM template in the ATTACHMENTS tab.** In completing this template, list each locality your project will serve and the economic status of each. If your project will serve multiple localities with the same economic designation, see page 2 of the Program Guidelines to determine the ARC match rate for your project. If your project will serve more than one locality, and the localities have different ARC economic designations, contact your state ARC program manager to identify the match rate for you project.

Provide a detailed budget narrative explaining anticipated expenditures by the line item listed on the Budget Form.

**Answer:**

The ARC Budget Funding Sources and Match Calculation templates are included in the Attachments.

The County PSA has worked with Crossroads Engineering and, more recently, with Thompson and Litton in developing a project budget for this project. The high cost of attacking the entire project set forth in Crossroads original PER delayed any action for several years. Since the consolidation of the Castletown and Russell County PSAs in 2018, the



County has worked with T & L to approach the project in two phases to maximize potential grant funding since the PSA cannot take on any sizeable debt that would significantly increase sewer rates for the customers which are already high.

A revised budget for this project was prepared by T & L that focuses on a 32,000 L.F. main sewage transmission line, one (1) pump station, 16 manholes, 600 L.F. of stream, road and railroad crossings, 21 new residential sewer connections and appurtenances, as well as one connection to the Dante STP. That revised budget is in the PER Attachment.

32. Leveraged Private Investment: Identify private sector commitments that follow as a result of the completion of this project. Leveraged private investment is different from the funds that leverage the ARC request and are a part of the project budget, and not all proposals will include leveraged private investment. Estimates for the leveraged private investment and associated job impacts for a three-year period following the completion of this project should be included. Letters of commitments by private companies should be available.

For example: Amount of private funds invested in relocating to the project area by Business X as a result of the installation of and access to telecommunications/fiber optics.

**Answer:**

N/A

**Attachments:**

Letters of Commitment

LettersofCommitment22202111953.pdf

Letters of Support

LettersofSupportDanteSewer22202115813.pdf

PER/PAR/Master Plan

PERRevisedCostEstimate21202120203.pdf

Table of Contents

TABLEOFCONTENTSDanteSewer22202112514.docx

(Optional)

LettersfromBeneficiariesDanteSewer22202115958.pdf

(Optional) || Capacity Agreement

CapacityAgreement21202120713.pdf

Maps

Maps21202120321.pdf

(Optional) || Project Need Documentation

ProjectNeedDocumentation21202120531.pdf

Application Summary

ARC2PageSummaryFormatDanteSewer21202120104.docx

Performance Target Table

715532PerformanceTargetTableDatneSewer21202120810.docx

Funding Sources Table

ARCSourcesTableDanteSewer21202120948.docx

ARC Match Calculation Form

ARCMatchRateCalculationFormDanteRegionalSewer21202121028.xlsx

2/2/2021 3:01:43 PM

Pages: 2 of 2

January 27, 2021

Ms. Tamarah Holmes  
ARC Program Manager  
Virginia Department of Housing &  
Community Development  
Main Street Center  
600 East Main Street, Suite 300  
Richmond, VA 23219

Re: Support for the Russell County PSA Dante Regional Sewer Line Extension Project

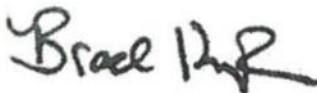
Dear Ms. Holmes:

I am writing to express The Nature Conservancy's strong support for Russell County's \$2,500,000 application to the CDBG program for the Dante Regional Sewer Line Extension Project. This is an important project for the County that will help address serious water quality problems affecting people and nature in Lick Creek. Lick Creek is a major tributary of the Clinch River that Virginia DEQ lists as impaired with excessive bacteria levels and depressed aquatic benthic invertebrate populations. As you may know, the Clinch River is a crown-jewel containing one of the highest concentrations of rare aquatic species in North America, including more than 20 federally endangered freshwater mussel species. The Clinch is also the setting for Virginia's newest state park- which is currently under development along the Clinch from Cleveland, VA downstream to St. Paul, VA. Lick Creek enters the Clinch River just upstream of St. Paul.

Inadequate sewage treatment is a major issue in Lick Creek and has a very negative effect on the both the creek itself and the Clinch River. The project proposed to the CDBG program will provide a cost-effective solution to the growing problems at the aging Dante Sewage Treatment Plant. The project will allow the existing Dante treatment plant to be closed with wastewater from the Dante community rerouted to the St. Paul Sewage Treatment Plant, along with sewage from two other currently unserved communities where "straight-piping" into Lick Creek is prevalent. This will be a huge improvement from the current situation. It is our understanding Russell County is currently purchasing additional capacity at the St. Paul treatment plant to facilitate this opportunity to connect Dante into the St. Paul system.

This application and project is critical to Russell County's efforts to protect water quality and public health for its citizens, and insure that the Clinch River, one of the most biodiverse rivers in the nation, is improved. Thank you for consideration of this application. The Nature Conservancy is in full support of this effort!

Sincerely,



---

Brad Kreps  
Clinch Valley Program Director  
The Nature Conservancy  
[bkreps@tnc.org](mailto:bkreps@tnc.org)

# Town of St. Paul

**Mayor:**  
**Kenneth Holbrook**  
**Treasurer:**  
**Debora Baca**  
**Attorney:**  
**Julie Hensley**



## Council Members

**Greg Bailey**  
**Tim Boardwine**  
**Matt Jordan**  
**Josh Sawyers**  
**Monty Salyer**  
**Geoffrey Hensley**

P.O. Box 66  
St. Paul, Virginia 24283  
Phone: 276.762.5297 Fax: 276.762.0479  
[www.stpaulva.org](http://www.stpaulva.org)

February 1, 2021

Lonzo Lester  
Russell County Administrator  
137 Highland Drive  
Lebanon, Virginia 24266

Dear Mr. Lester:

I would like to take this opportunity to express support from the Town of St. Paul for the Dante Regional Sewer Line Extension Project.

The Town of St. Paul entered into an Inter-Municipal Agreement with Russell County and Wise County, wherein Russell County owns 30% of the capacity of our Regional Wastewater Treatment Plant. In accordance with that agreement, the Town of St. Paul would accept domestic sewer from the Dante Project.

If we can provide any additional information that would assist Russell County or funding agencies in moving this project forward, please feel free to contact my office.

Sincerely,

Kenneth R. Holbrook  
Mayor



# RUSSELL COUNTY SHERIFF'S OFFICE

Steven L. Dye, Sheriff  
75 Rogers Avenue, P.O. Box 338 Lebanon, Virginia 24266  
Phone: (276) 889-8033 Fax: (276) 889-0753

January 27, 2021

Lonzo Lester  
Russell County Administrator  
PO Box 1208  
Lebanon, VA 24266

Re: Fleet Management Enterprise Proposal

To Whom It May Concern:

This letter is in reference to an Enterprise Fleet Management Proposal that Russell County Sheriff's Office would like to adopt. Russell County Sheriff's Office, is currently leasing the following vehicles:

CAR #	Year	Make	Model	VIN
3	2019	DODGE	DODGE RAM CREW CAB BLACK	3C6RR7KT0KG704699
10	2019	DODGE	DODGE RAM CREW CAB SILVER	3C6RR7KT3KG704700
15	2019	NISSAN	CREW CAB FRONTIER BLACK	1N6AD0EV9KN721532

These three vehicles are currently used in criminal investigations and are unmarked with sensitive license plates. Due to the nature of investigations, vehicles used by our Criminal Investigation Division/Narcotics are often times identified by persons committing various offences. In order to maintain anonymity during certain operations it is imperative that officers remain inconspicuous to ensure officer safety. These three vehicles are currently under the approved lease through Enterprise Fleet Management. The new amended proposed lease would not be extended, it would just alter the term of the lease for these three vehicles: to rotating these vehicles every twelve months, thus saving the county \$10,270.08 from the current lease payments.

All additional work needed for the vehicles would be performed in house, as far as the transferring of equipment from the old vehicles to the new, as well as all existing equipment will be reused nullifying the need to purchase any new additional equipment for these vehicles.

Enterprise Fleet Management suggested this program for our Criminal Investigation Division as it is currently being used by several other localities throughout the Commonwealth.

Attached you will find documentation to support the proposed changes to the leasing program. I appreciate your attention to this matter. If there are any questions, please contact me at 276-889-8033 or 276-889-8034. Thank you for your time and assistance in this matter.

Thank you,

Steve Dye  
Sheriff

SLD/tnk

**Russell County Virginia**  
"The Heart of Southwest Virginia"

Oris Christian  
At-Large

David Eaton  
District 4

Lou Ann Wallace  
District 2

Rebecca Dye, Chairperson  
District 6

Steve Breeding  
District 5

Carl Rhea  
District 3

Tim Lovelace, Vice-Chairman  
District 1

Lonzo Lester  
County Administrator

**RESOLUTION**

**APPROVAL OF SECONDARY HIGHWAY SIX-YEAR PLAN (2019/20 THROUGH 2025/26)  
AND CONSTRUCTION PRIORITY LIST (2019/20)  
RUSSELL COUNTY, VIRGINIA**

WHEREAS, Sections 33.1-23 and 33.1-23.4 of the 1950 Code of Virginia, as amended, provides the opportunity for each county to work with the Virginia Department of Transportation in developing a Secondary Six-year Road Plan, and

WHEREAS, this Board had previously agreed to assist in the preparation of this Plan. in accordance with the Virginia Department of Transportation policies and procedures and participated in a public hearing on the proposed Plan (2018/19 through 2024/25) as well as the Construction Priority List (2019/20) on January 4, 2020, after duly advertised so that all citizens of the County had the opportunity to participate in said hearing and to make comments and recommendations concerning the proposed Plan and Priority List, and

WHEREAS, Jeff Buchanan, Assistant Residency Administrator, Virginia Department of Transportation, appeared before the Board and recommended approval of the Six-year Plan for Secondary Roads FY 2021 through FY 2026 and the Construction Priority List (2019/20) for Russell County, Virginia.

NOW, THEREFORE, BE IT RESOLVED by the Board of Supervisors of Russell County, Virginia that since said Plan appears to be in the best interests of the Secondary Road System in Russell County and of the citizens residing on the Secondary System, said Secondary Six-year Plan (2020/21 through 2025/26) and Construction Priority List (2020/21) are hereby approved as presented at the public hearing.

DONE this the \_\_\_ day of \_\_\_\_, 2021.

Recorded Vote Moved By: \_\_\_\_\_

Seconded By: Yeas: \_\_\_\_\_

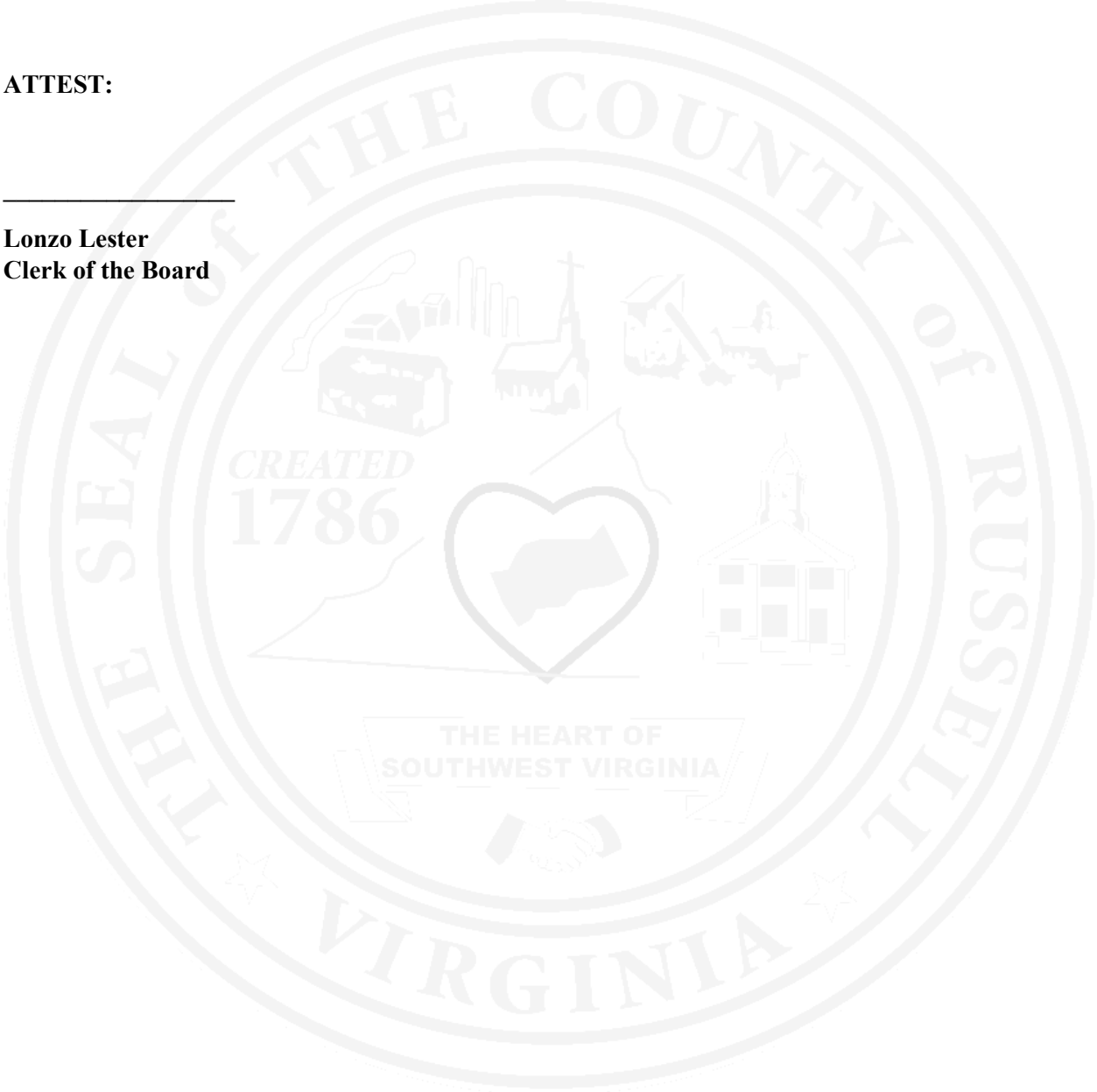
Nays: \_\_\_\_\_

**RUSSELL COUNTY BOARD OF SUPERVISORS**

\_\_\_\_\_  
**REBECCA DYE**  
**Chairperson**

**ATTEST:**

\_\_\_\_\_  
**Lonzo Lester**  
**Clerk of the Board**



District: Bristol  
 County: Russell County

## SECONDARY SYSTEM CONSTRUCTION PROGRAM (in dollars)

Board Approval Date:

2020-21 through 2024-25

Route	Road Name	Estimated Cost	Previous Funding	Additional Funding Required	PROJECTED FISCAL YEAR ALLOCATIONS						Balance to complete
					2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	
PPMS ID	Project #										
Accomplishment	Description										
Type of Funds	FROM		SSYP Funding								
Type of Project	TO		Other Funding								
Priority #	Length	Ad Date	Total								
Rt.9999		PE	\$0								
-11498	9999961463	RW	\$0	\$837,834	\$0	\$0	\$0	\$0	\$0	\$0	
NOT APPLICABLE	District Closeout Balance Entry - Bristol	CON	\$0	\$592,935	\$0	\$0	\$0	\$0	\$0	\$0	
		Total	\$0	\$1,430,769	(\$1,430,769)	\$0	\$0	\$0	\$0	\$0	(\$1,430,769)
9999.99	0.0										
Rt.0834	Jackie Dye Road	PE	\$0								
109168	0834083967	RW	\$0	\$260,840	\$0	\$0	\$0	\$0	\$0	\$0	
STATE FORCES/HIRED EQUIPMENT S	RTE. 834 - Blade, Ditch and Surface-treat	CON	\$320,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
	Rte. 632	Total	\$190,000	\$245,446	\$74,554	\$74,554	\$0	\$0	\$0	\$0	\$0
State forces/Hired equip CN Only 9999.99	End State Maint.										
	0.7	8/1/2023									
Rt.0779	Davis Hankins Lane	PE	\$0								
109170	0779083968	RW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
STATE FORCES/HIRED EQUIPMENT S	RTE. 779 - Blade, Ditch and Surface-treat	CON	\$160,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
	Rte. 603	Total	\$160,000	\$45,958	\$89,042	\$89,042	\$0	\$0	\$0	\$0	\$0
State forces/Hired equip CN Only 9999.99	End State Maint.										
	0.3	8/1/2023									
Rt.0679	Thomas Warner Bridge Rd	PE	\$0								
110904	0679083P72	RW	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
STATE FORCES/HIRED EQUIPMENT	Rte. 679 (Thomas Warner Bridge Rd) Rural Rustic.	CON	\$585,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
	1.50 Miles West Rte. 613	Total	\$585,000	\$0	\$575,000	\$263,240	\$321,760	\$0	\$0	\$0	\$0
State forces/Hired equip CN Only 9999.99	Rte. 613										
	1.5	8/25/2023									



Rt.0679	Tumbez Hollow Rd.	PE	\$0										
113035	0679083976	RW	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
STATE FORCES/HIRED EQUIPMENT	Rte. 679 (Tumbez Hollow Rd) Rural Rustic	CON	\$595,000	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	613	Total	\$595,000	\$0	\$595,000	\$0	\$115,415	\$413,879	\$65,706	\$0	\$0	\$0	\$0
State forces/Hired equip CN Only 9999.99	824 0.9												
Rt.0606	Blanch Davis	PE	\$0										
115383	0606083979	RW	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
STATE FORCES/HIRED EQUIPMENT	Rte. 606 - Blade, Ditch and pave	CON	\$500,000	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Rte. 609	Total	\$595,000	\$0	\$595,000	\$0	\$0	\$0	\$322,767	\$272,233	\$0	\$0	\$0
State forces/Hired equip CN Only 9999.99	1.3 Mi. S. Rte. 609 1.3												
Rt.0678	Lower Copper Creek	PE	\$0										
115384	0678083980	RW	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
STATE FORCES/HIRED EQUIPMENT	Rte. 678 - Blade, Ditch and pave	CON	\$300,000	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Rte. 606	Total	\$582,658	\$0	\$582,658	\$0	\$0	\$0	\$0	\$116,240	\$466,418	\$0	\$0
State forces/Hired equip CN Only 9999.99	1 Mi. E. Rte. 606 1.0												
TBD	TBD	PE											
Next Priority - TBD	Next Priority - TBD	RW		\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		CON		\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		Total		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

## MONTHLY BANK BALANCES

December 31, 2020

Regular Account	3,854,214.35
Employee Insurance	4,377,520.31
Employee Claims Account	1,000.00
Non-Judicial Reals Estate Sales	3,145.09
Russell Co. Housing Fund	4,424.36
School Textbook	9,145.23
Sheriff Domestic Violence	1,526.49
Petty Cash Treasurer	217.80
Sheriff Seized Assets	55,227.13
Sheriff Restitution	11,489.34
Sheriff Forfeited Assets	33.70
Comm Attorney Forfeited Assets	31,707.59
Sheriff Federal Forfeited Assets	7,524.89
Comm Attorney Fed Justice Forfeited Assets	136,734.21
Commonwealth Attorney Abandoned Property	500.00
Sheriff Federal Justice Forfeited Assets	7,917.34
Sheriff Calendar Fund	857.31
Sheriff Special Projects	40,503.83
SSI Recipients	2,691.00
First Sentinel Bank	3,347.08
Bank of Honaker	43,019.48
New Peoples Bank	271,332.86
Certificates of Deposit General	49,575.00
Treasurer's Money Market	2,574,326.86
Certificate of Deposit Library Donations	24,788.80
<b>Total Cash In Bank</b>	<b>11,512,770.05</b>
<b>Cash In Office</b>	<b>1,600.00</b>
<b>Petty Cash</b>	<b>100.00</b>
<b>TOTAL CASH</b>	<b>11,514,470.05</b>

ACCOUNT	DATE	December 31, 2020
	DEBIT	CREDIT
Cash in Office	1,600.00	
Cash in Bank	11,512,770.05	
Petty Cash	100.00	
General Fund		6,438,779.08
Non-Judicial Real Estate Sales		3,145.09
Sheriff In State Trip		30,861.95
Sheriff Dare Fund		100.00
Sheriff Seized Assets		55,227.13
Sheriff Restitution		11,489.34
Sheriff Forfeited Assets		33.70
Comm Attorney Forfeited Assets		31,707.59
Honaker Library Donations		24,783.87
Russell County Housing Fund		4,424.36
Sheriff Federal Forfeited Assets		7,524.89
Sheriff Domestic Violence		1,526.49
Comm Attorney Abandoned Prop		500.00
Comm Attorney Fed Justice		136,734.21
Sheriff Fed Justice Forfeited		7,917.34
Sheriff Calendar Fund		857.31
Sheriff's Special Projects		40,503.83
Social Services		(392,275.50)
Swva ASAP		(6,133.33)
Coal Road Improvement		417,674.64
CSA		(495,037.68)
School Fund		(872,611.03)
School Food		711,390.77
School Textbook		9,145.23
Regional Adult Education		252,927.44
Petty Cash Treasurer		217.80
COVID 19		499,632.53
Litter Fund Trash Pickup		(17,463.66)
Current Credit		(0.79)
Current Debit		14.44
Title XX		11,321.05
SSI Recipients		2,691.00
Damage Stamp Fund		2,823.98
Valley Heights		72,152.60
Dante Sewer		49,575.00
Employee Health Insurance		4,377,520.31
Employee Insurance Claims		1,000.00
Law Library		57,404.85
Special Welfare		49,446.45
Housing Fund #2		7,700.00
Russell Co Health & Fitness		132,865.92
Cannery		(163,679.90)
WIB		10,051.75
<b>Total</b>	<b>11,514,470.05</b>	<b>11,514,470.05</b>

## MINUTES OF THE MONTHLY BOARD OF DIRECTORS' MEETING

**MINUTES OF THE MONTHLY MEETING OF DIRECTORS** of The Russell County Public Service Authority held at held at 137 Highland Drive Lebanon, VA 24266 on this 19th day of January 2021 at 6:00 PM.

1. The following members were present, constituting a quorum (4):  
Carter McGlothlin, Chairman;  
Cuba Porter, Vice Chairman;  
Donnie Christian, Treasurer;  
Chris Dye;  
Clifford Hess;  
David Edmonds, Jr.;  
Joe Huff; and  
Rhonda Lester, Secretary.
2. Also present:  
Harvey Hart, RCPSA Director  
James Baker, T&L;  
Rita Baker, T&L;  
Lonzo Lester, Russell County Administrator  
Rebecca Dye, RCBOS Chairperson and  
Katie Patton, Legal Counsel
3. All the above directors of The Russell County Public Service Authority being present, formal notice calling the meeting was dispensed with, and the meeting declared to be regularly called.
4. Carter McGlothlin acted as Chairperson of the meeting and Rhonda Lester as Secretary of the meeting.
5. Donnie Christian opened the meeting with the Pledge of Allegiance followed by a prayer led by Cuba Porter.
6. Approve Agenda -  
Motion to approve the agenda as read made by Cuba Porter, seconded by Donnie Christian, and unanimously adopted.
7. Minutes of the last meeting dated December 9, 2020 were reviewed and, motion to approve as read made by Clifford Hess, seconded by Joe Huff, and unanimously adopted.
8. Public Comments: None
9. Harvey Hart, RCPSA Director, presented to the meeting:
  - Bank Activity and Account Balances Reports
  - Profit and Loss Reports
  - Outstanding Construction Receivables Report

Motion to adopt financial reports as presented made by Clifford Hess, seconded by Donnie Christian, and unanimously adopted.

10. Rita Baker with Thompson & Litton presented to the meeting the following project updates from December 9, 2020 to date:

- BELFAST PH II

Installed 502 LF of 6-inch line. A progress/management team meeting is scheduled for 01/21/2021 at 10:00 AM.

- LAKE BONAVENTURE TO SOUTH CLINCHFIELD

This reporting period, 1,460 LF of 8-inch water line and one hydrant was installed. Tie-in and pressure testing has been done. This project has been completed and is in service.

- BELFAST SEWER PROJECT

An ARC Application in the amount of \$299,750 and a DHCD Application in the amount of \$2,500,000 is currently being prepared for funding of the project.

11. Old Business to Discuss: None

12. New Business to Discuss:

a) Motion to approve (Rural Development Required) Loan Agreement w/ RCBOS in relation to the (6) new service trucks, upon any changes and final approval of legal counsel made by Chris Dye, seconded by Clifford Hess, and unanimously adopted.

b) Motion to approve Resolution to Approve Final Transfer Agreement and all attachments thereto made by Donnie Christian, seconded by Clifford Hess, and unanimously adopted.

c) Motion to approve the Chairman to sign any necessary closing documents relating to the Glade Hollow/Glade Hill Water Project and the Consolidation of Russell County Public Service Authority and Castlewood Water and Sewage Authority made by Cuba Porter, seconded by Chris Dye, and unanimously adopted.

d) Discussed VRA Payment Deferral Plan and will revisit at a later date.

e) Discussed A/R Debt Collection Process and Procedures and will revisit upon Legal Counsel's review and suggested options.

f) Motion to go into executive session pursuant to VA code 2.2-3711 (A) (1) and (8) Consultation with legal counsel regarding revising the Employee Handbook to include employee disciplinary action and employee performance review policy and procedures made by Donnie Christian, seconded by Cuba Porter, and unanimously adopted.

13. Motion made by Donnie Christian seconded by Cuba Porter, and duly approved by the Board of Directors to return to regular session.

Pursuant to § 2.2-3712(D) of the Code of Virginia 1950, as amended each member of the Board of Directors upon the Roll Call certifies that to the best of their knowledge (I) only public business matters lawfully exempted from the open meeting requirements under the Virginia Freedom of Information Act and (ii) only such public business matters that were identified in the motion(s) by which the closed meeting was convened were heard, discussed or considered in the meeting by the Board of Directors.

Any member of the Board of Directors who believes that there was a departure from the requirements of clauses (I) and (ii) above shall so state prior to the vote, indicating the substance of the departure that, in his or her judgment, has taken place.

Are there any who believe a departure has taken place? Seeing none, if you agree that the matters heard, discussed, or considered during the closed meeting were pursuant only to the motion(s) by which the closed meeting was convened, please signify by saying aye or yes.

A roll call vote was taken.

Carter McGlothlin: Yes

Clifford Hess: Yes

Cuba Porter: Yes

Chris Dye: Yes

Joe Huff: Yes

Donnie Christian: Yes

David Edmonds, Jr.: Yes

Yes: 7

No: 0

By a majority vote, motion to return to regular session was approved.

14. Matters presented by the Board: None

15. There being no further business to come before the meeting, a motion to adjourn at 7:30 PM was made by Clifford Hess, seconded by Chris Dye, and unanimously adopted.

The next meeting is scheduled for February 16, 2021 at 6:00 PM.

Dated in the Commonwealth of Virginia on  
the 19th day of January 2021.

  
\_\_\_\_\_  
(Signature)

Secretary Name: Rhonda Lester

ETW 11/19/2020

RUSSELL COUNTY PUBLIC SERVICE AUTHORITY  
P. O. BOX 3219  
LEBANON, VIRGINIA 24266

276-883-4030

Fax 276-889-2196

e-mail: [rcpsa@bvu.net](mailto:rcpsa@bvu.net)

November 19, 2020

Mr. Jim Baldwin  
Cumberland Plateau Planning District Commission  
P. O. Box 548  
Lebanon, Virginia 24266

Re: Belfast Ph II Water Line Extension Project

Dear Mr. Baldwin:

Attached, please find draw down request #4 for the above noted project in the amount of \$16,444.99.

As always, we are truly grateful for the funding assistance. Should you have questions in relation to this matter, please feel free to contact me at your convenience.

Sincerely,

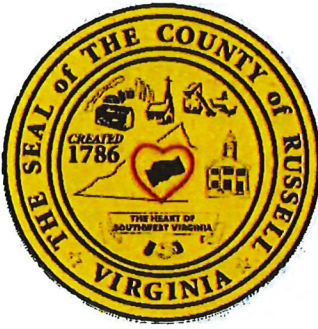


Harvey Hart  
Director

cc: Rita Baker, T&L

PROJECT BUDGET STATUS REPORT						8/11/20 for May-20 to 20-Aug	9/14/20 for Aug-20	11/12/20 For Sept-20	11/19/20 For Oct-20
Belfast Ph II		DHCD BUDGET	TOTAL BUDGETED	Total Expended	Total Remaining	PA 1	PA 2	PA 3	PA 4
			Construction			DHCD	DHCD	DHCD	DHCD
CONSTRUCTION COST:									
MATERIALS	\$140,000	\$140,000	\$106,468.49	\$33,531.51	\$101,994.07	\$0.00	\$0.00	\$4,474.42	
LABOR	\$191,250	\$191,250	\$36,533.90	\$154,716.10	\$17,185.41	\$0.00	\$13,295.61	\$6,052.88	
EQUIPMENT	\$191,250	\$191,250	\$12,649.71	\$178,600.29	\$7,614.70	\$0.00	\$3,743.03	\$1,291.98	
SUPPLIES & MISCELLANEOUS	\$50,000	\$50,000	\$29,302.73	\$20,697.27	\$7,254.89	\$14,172.13	\$3,250.00	\$4,625.71	
FORCE ACCOUNT COSTS	\$572,500	\$572,500	\$184,954.83	\$387,545.17	\$134,049.07	\$14,172.13	\$20,288.64	\$16,444.99	
CONSTRUCTION CONTINGENCY (10%)	\$0	\$0	\$0.00	\$0.00	\$0.00				
TOTAL CONSTRUCTION COST	\$572,500	\$572,500	\$184,954.83	\$387,545.17	\$134,049.07	\$14,172.13	\$20,288.64	\$16,444.99	
RELATED COSTS:			Related						
LAND AND RIGHTS	\$0	\$0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
LEGAL/BOND COUNSEL	\$7,500	\$7,500	\$0.00	\$7,500.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
ADMINISTRATION (CDBG)	\$50,000	\$50,000	\$10,000.00	\$40,000.00	\$10,000.00	\$0.00	\$0.00	\$0.00	\$0.00
ADVERTISEMENTS/BONDS/FEEES	\$0	\$0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
BASIC ENGINEERING			\$0.00						
DESIGN	\$0	\$0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
BIDDING ASSISTANCE	\$0	\$0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
CONSTRUCTION ADMINISTRATION	\$0	\$0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
ADDITIONAL ENGINEERING			\$0.00						
PERMITS	\$0	\$0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
SURVEYING/MAPPING/EASEMENTS	\$0	\$0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
RECORD DRAWINGS/AS BUILTS	\$0	\$0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
PERIODIC INSPECTION SERVICES			\$0.00						
PERIODIC SERVICES	\$0	\$0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
TOTAL RELATED COST:	\$57,500	\$57,500	\$10,000.00	\$47,500.00	\$10,000.00	\$0.00	\$0.00	\$0.00	\$0.00
TOTAL PROJECT COSTS:	\$630,000	\$630,000	\$194,954.83	\$435,045.17	\$144,049.07	\$14,172.13	\$20,288.64	\$16,444.99	





**Russell County Tourism Advisory Committee (T.A.C.)  
Committee Meeting Minutes  
October 20, 2020; Lebanon Firehall Meeting Room, 6:00 P.M.**

**Committee Members**

Jim Lyttle, Chair  
Jennifer Chumbley, Secretary/Treasurer  
Alice Meade Vice Chair  
Victoria Gent  
Jamie Ball  
Maddie Gordon  
Danny Altizer- not present

**Ex-Officio:**

Heather Powers, RC County Tourism Coordinator

**Staff**

N/A

**Attendance from the Public:**

**Call Meeting to Order:** Jim Lyttle called the October 20, 2020 Russell County Tourism Advisory Committee Meeting to order at 6:00 pm.

**Approval of Minutes:**

A motion was made to strike Oris Christian name from attendance on the August 18, 2020 minutes by Victoria Gent, and properly seconded by Alice Meade and motion carried.

A motion was made by Alice Meade to approve the meeting minutes from August 18, 2020 meeting. The motion was properly seconded by Victoria Gent and the motion carried.

**Additions to the Agenda/Open Comments:**

A motion was made by Jennifer Chumbley to approve the agenda. The motion was properly seconded by Alice Meade and the motion carried.

**OLD BUSINESS:**

**TREASURER'S REPORT:**

Jennifer Chumbley advised committee currently has \$1084.00 in donations including items sold, and there is an outstanding invoice in the amount of \$272.00 for glasses, so that leaves \$812.00 in donations. The TAC has currently paid \$25 for Facebook Advertising and \$240.00 for RC Pictures from



Preston Ball, which leaves \$2213.39 remaining in advertising and \$3000.00 remaining in marketing. In addition, we have the remaining \$812.00 donations.

#### **CALENDAR:**

Jennifer Chumbley advised the TAC that the Fundraising Subcommittee had decided to create a 14-month calendar with pictures from the county. It was originally suggested by Jennifer that the subcommittee create a Russell County Local Hero Calendar, but due to constraints with budgeting, it was not an option this year. The fund-raising subcommittee can use pictures that have already been purchased for rack cards. Clinch Valley Printing will be printing the calendars and they will be sold at a starting price of \$15 or \$20 and then we can always flash sell them for a lower price if needed. In addition, the printer can print envelopes to use for shipping. There are some details and pictures that need to be touched up and the markup must be to the printer no later than November 1, 2020 to have them complete before Christmas. Committee discussed purchasing 100 calendars vs 50 since the pricing is lower for 100 and sell them for \$15 each will net a profit of \$1032.00 if all calendars sell as the cost would be \$468.00 for printing calendars.

#### **MEETING TIMES**

The next regular scheduled meeting will be in December, so the committee discussed having a lunch or dinner for Christmas. Jim also advised that in November, per bylaws we are to elect officers. Jim advised we could elect officers tonight so that a special meeting would not be needed in November.

#### **OFFICERS ELECTION**

A motion was made by Victoria Gent to elect officers in the current meeting with term beginning January 1, 2021. The motion was properly seconded by Jamie Ball and the motion carried.

Jim Lyttle opened the floor for nominations of Chairperson. Alice Meade nominated Jim Lyttle for Chair of TAC.

A roll call vote was conducted, Jim Lyttle abstained.

Jennifer – Aye, Alice – Aye, Maddie – Aye, Victoria- Aye, Jamie- Aye.

Jim Lyttle is appointed to TAC Chair.

Jim Lyttle opened the floor for nominations of Vice-Chair. Jennifer Chumbley nominated Alice Meade for Vice-Chair.

A roll call vote was conducted, Alice Meade abstained.

Jennifer- Aye, Maddie-Aye, Victoria-Aye, Jamie-Aye, Jim-Aye

Alice Meade is appointed to TAC Vice-Chair

Jim Lyttle opened the floor for nominations of Secretary. Alice Meade nominated Jennifer Chumbley for Secretary.

A roll call vote was conducted, Jennifer Chumbley abstained.

Alice-Aye, Maddie-Aye, Victoria-Aye, Jamie-Aye, Jim-Aye

Jennifer Chumbley is appointed to TAC Secretary.



Jim Lyttle opened the floor for nominations of Treasurer. Jim Lyttle nominated Victoria Gent for Treasurer.

A roll call vote was conducted, Victoria Gent abstained.  
Alice-Aye, Maddie-Aye, Jennifer-Aye, Jamie-Aye, Jim-Aye  
Victoria Gent is appointed to TAC Treasurer.

### **Subcommittee Reports**

Due to COVID19 many subcommittees have not been able to meet. Fundraising Committee is creating calendar.

### **AGRITOURISM**

Jim Lyttle advised that in Russell County we have 2<sup>nd</sup> most Century Farms (37) in Southwest Virginia and (3) Bi-centennial Farms, and it would be nice to figure out how to recognize these farms, such as announcing at the County Fair.

### **Fund Raising**

Jim Lyttle showed the committee the current items we have for sale, such as wine glasses and mugs. Jim Lyttle Renee Hodges will be donating a 16x20 Russell County stretched canvas picture we can use and could possibly have a silent auction. Middle Fork Clay can make coffee mugs with Experience Russell for wholesale pricing, which would be \$13 to sell. Jim checked on name badges with logo from namebadge.com which would be \$9.25 each plus shipping for metal badges if we ordered 10 badges. These could be worn during events and fundraisers and would-be professional looking. Alice Meade made a motion to purchase badges. The motion was properly seconded by Maddie Gordon and motion carried.

### **New Business:**

#### **Rack Cards & Brochures:**

There are only a few cases of brochures remaining. The committee discussed ordering more brochures because Jeff Hess will be putting together bags at the airport with tourism items when people fly in and we may need to send them another case. We also have brochures at Rocky Gap, Fancy Gap, and Bristol Welcome Centers for yearly rental. The Vietnam Veterans Association has agreed to fund 500 rack cards to recognize businesses that give veterans discount or are owned by veterans. The committee discussed how to determine locally owned businesses that do give discounts or businesses owned by veterans.

#### **Christmas Parades:**

Committee discussed designing a float to enter in the local county Christmas Parades. Currently that would be Lebanon and Cleveland as Honaker has cancelled their parade and St. Paul may also be having their parade.



**Christmas Tree:**

Heather advised we could decorate the Christmas Tree again for tourism at Lebanon Middle School. Committee can meet at the tree to decorate when it becomes available.

**Scholarships:**

The condition of the donations to cover startup costs for items we are selling is that the first \$500 will go back into the scholarship fund which will be awarded to a Russell County student this year using a scoresheet. Currently, we only have one \$500 scholarship for the entire county and hopefully we can increase those in the future. There will need to be at least three volunteers for the scholarship subcommittee. Jim, Jamie, and Alice volunteered.

**Videos:**

The committee owns videos which were purchased from Brad Deel and Preston Ball; therefore, when we post or utilize these videos, we need to use the videos with our TAC Logo.

**Art Gallery:**

Committee discussed having a mini art gallery opening after the social distancing is over.

**Community Meetings:**

Committee discussed local community meetings to show our videos in Lebanon at the High School or at the Russell County Government Center. Maddie Gordon suggested an outside screen and will check for location in St. Paul that will fit local guidelines for social distancing.

**Highlands Association:**

Jim Lyttle talked to the committee about possibly hosting a Scottish Festival.

**Tours:**

Jim Lyttle spoke to committee about tours or trips for groups such as After School next year to different locations in the county.

**Dates to Remember:**

Next regular TAC meeting will be December 15, 2021 at 6:00 PM location TBA

**Adjourn:**

Jennifer Chumbley made a motion to adjourn at 7:15PM and the motion was properly seconded by Alice Meade and approved by TAC.



**Russell County Tourism Advisory Committee (T.A.C.)  
Committee Meeting Minutes  
October 20, 2020; Lebanon Firehall Meeting Room, 6:30 P.M.**

X  
Chair Signature

Prepared By:  
Jennifer Chumbley  
Tourism Advisory Committee Secretary



P.O Box 1208  
137 Highland Drive  
Lebanon, VA 24266

office: 276-889-8000  
cell: 276-254-0014  
email: heather.powers@russellcountyva.us

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## January highlights

- Met with TAC Chair on upcoming projects for the year and regular TAC meeting information (Jan. 19).
- Reviewed documents for Heart of Appalachia, completed necessary paperwork for new year with HOA and set up with bank to be check-signer for HOA.
- Attended CRVI meeting.
- Worked on necessary paperwork for county administrator regarding tourism department.
- Working on updating tourism meeting minutes on county website.
- Working on switching Experience Russell website over to county operated website due to technical problems and numerous updates that need to be completed on current one.
- Continued to work on grant funded projects.
- Had fundraising items that needed mailed out completed.
- Social media posts.
- Met with artists interested in having artwork in gallery at Government Center.
- Worked on getting an ad prepared for menu advertising at local tourist stop Pat's Diner in Lebanon.
- Facilitated regular TAC meeting with chair. Highlights from meeting included:
  - Each committee member will be helping to gather information for different rack card categories.
  - Entire committee will participate in reviewing 2<sup>nd</sup> annual tourism scholarship for local high school senior entering into outdoor recreation/tourism related field. Committee wants to offer \$1,000 and will take \$500 from donation account and several other members donated an extra \$500 towards the scholarship. Applications will be available in all county high schools.
  - Decided to send out letter of thanks with a calendar to each donor that contributed to the gift basket raffle held in December.
  - Wanted to do some local advertising where visitors frequent...decided to take an advertisement in Pat's Kountry Diner menu since many visitors go there and many brochures are picked up from here.
  - There will be a separate historical tourism site offered that was set up with the assistance of local historians as a project Shiloh Lyttle did for her college class.
  - Next regular meeting is set for March 16 at 5 p.m. at Pat's Diner meeting room.

# Russell County Planning Commission

## January 18, 2021

The Russell County Planning Commission met on Monday, January 18, 2021 by Zoom and in the Board of Supervisors' Meeting Room at the Russell County Government Center, 133 Highland Dr. Lebanon VA.

### Members Present

Chairman Kirby Meadows

Jack Compton

Charlie Edmonds

Wayne Young

Dustin Keith

John Mason

Roger Sword

Mark Mitchell

### Members Absent

Andy Smith

Oris Christian

### Others Present

Kevin Tiller Esq.

Crystal White

Chairman Meadow Called the meeting to order at 6:30 p. m. Invocation and pledge were given. Motion by Charlie Edmonds seconded by Jack Compton to approve the agenda, motion carried.

December 21, 2020 meetings minutes were presented for approval. Motion by Jack Compton seconded by Roger Sword to approve minutes, motion carried.

Plats/transactions from December 22, 2020 Thru January 18, 2021 were presented for review.

Roger Sword reported from IDA of a potential prospect. Mr. Sword also updated the Commission of the whiskey barrell/staves project in St. Paul. Dustin Keith told the Commission that the Virginia city Power Plant could possibly close within 5 years.

Crystal White advised the Commission that after the Commissioner of Revenue Office staff had been vaccinated that plans to reopen were in place.

Chairman Meadows expressed condolences to the loss of Steve Banner and Senator Ben Chafin. Fond memories of both men were expressed by members of the Planning Commission.

Crystal White update everyone about Randy Williams health.

Dustin Keith gave update about the GIS portal from the Board of Supervisors.

Chairman Meadows advised that the joint meeting with the Board of Supervisors will be held off until pandemic conditions improve.

There being nothing further to consider motion to adjourn was made by Charlie Edmonds, seconded by Wayne Young, motion carried.

\_\_\_\_\_ Kirby Meadows, Chairman \_\_\_\_\_ Mark Mitchell, Secretary



# RUSSELL COUNTY CONFERENCE CENTER

January 1, 2021

The following is a list of the Russell County Conference Center events for the month of January.

Date	Event	Event Type	Space
01/02/21	Wedding Reception Suzanne Lark Canceled Due To COVID-19 Virus	Individual Event	Full \$0
01/04/21	Russell County Board of Supervisor Board Meeting Lonzo Lester	Community Event	Full \$0
01/09/21	Lonesome Pine Race Way Banquet Bernice Hill Canceled Due To Covid-19 Virus	Individual Event	Full \$0
01/11/21	Health Department Vaccines Shots Brian Stanley	Community Event	Full \$0
01/12/21	Health Department Vaccines Shot Brian Stanley	Community Event	Full \$0
01/13/21	Health Department Vaccines Shot Brian Stanley	Community Event	Full \$0

01/18/21	Health Department Vaccines Shot Brian Stanley	Community Event	Full \$0
01/19/21	Health Department Vaccines Shot Brian Stanley	Community Event	Full \$0
01/20/21	Health Department Vaccines Shot Brian Stanley	Community Event	Full \$0
01/25/21	Health Department Vaccines Shot Brian Stanley	Community Event	Full \$0
01/26/21	Health Department Vaccines Shot Brian Stanley	Community Event	Full \$0
01/27/21	Health Department Vaccines Shot Brian Stanley	Community Event	Full \$0

(Total: \$0.00)

- \$0.00

**Final Total = \$ 0.00**

**Due to the COVID-19 Virus Pandemic we had to cancel all 2 events for the month. The grand total would have been \$250.00. We Have hosted the Russell County Department of Health Vaccines Shots Every Monday, Tuesday and Wednesday.**

# RUSSELL COUNTY CONFERENCE CENTER

## 2020 Yearly Report

• January.....	\$1,070.00
• February.....	\$1,275.00
• March.....	\$510.00
• April.....	\$0.00
• May.....	\$0.00
• June.....	\$450.00
• July.....	\$715.00
• August.....	\$655.00
• September.....	\$1,000.00
• October.....	\$1,590.00
• November.....	\$425.00
• December.....	\$0.00

Total = \$7,690.00

Due to the COVID-19 virus we had to canceled 58 events. The grand total for year would have been \$15,505

THE RUSSELL COUNTY TRANSPORTATION AND SAFETY COMMISSION MET AT THE BONANZA RESTAURANT IN LEBANON VIRGINIA ON JANUARY 12<sup>TH</sup> 2021

### **MEMBERS & GUEST PRESENT**

EUGENE FERGUSON Linda Cross Mike O'Quinn Gary Dotson HENRY STINSON  
BARBARA COX TIM LOVELACE CARL RHEA HENRY KINCER (VIRTUAL)

### **GUARD RAILS**

- 1-GUARD RAILS REPLACED AS DAMAGED
- 2-RT 58E JUST BEYOND QUARRY ROAD A SECTION OF GUARD RAIL DAMAGED FROM A FALLEN TREE
- 3-RT 657 NEEDS GUARD RAIL REPLACED 1/8 MILE SOUTH OF RT. 658 FIRST BRICK HOUSE ON THE LEFT CAUSED BY A WRECK
- 4-RT 80 DON STEVENS DR. GUARD RAIL DAMAGED
- 5-RT 58/19 intersection at the signal lights guard rail damaged by a wreck

### **SHOULDER REPAIR AND POT HOLE**

1-Rt 613/58 just off Rt. 58 at parking lot ASPHALT has broken off causing vehicle problems. Gravel has been pulled up against pavement. **WILL PAVE IN THE SPRING**

2Rt 19S/949 needs signs warning of an intersection or/and watch vehicle turn. **GIVEN TO BRISTOL DEPT. TRAFFIC**

3-635 BRIDGE ST. HONAKER ON THE RUSSELL COUNTY SIDE A PIPE STOPPED UP AND WASHING ONTO THE SWORDS CREEK HIGHWAY - NEAR ELBOW CURVE

4-Rt 620 one mile up out of Finney pavement broken off needs pipe and filled

5- RT 846 MARVIN HESS RD BRUSH COMING OUT INTO ROADWAY **WILL BE SCHEDULED**

6-Rt, 615 near 870 intersection tree hanging over the wall. REQUEST GUARD RAIL TO BE INSTALLED WHICH WOULD PREVENT WRECKS INTO THE CREEK **-talked to road crew to remove TREE**

7-Rt 615 Back Valley cracker neck area dips IN THE ROAD has been patched will fix better in the spring. Getting worse

8-RT 82 EAST OF MTN. ROAD RUFF AREA IN RIGHT LANE BELOW CLATTERBUCK PAVING. NO REPAIRS SCHEDULED PSA DAMAGED

9-RT. 682 DEAD TREES HANGING OVER THE ROAD HALF MILE FROM RT 609 AND BRUSH FROM FALLEN TREES LAYING ALONG THE ROADWAY NEED TO BE REMOVED - **will put on schedule to remove**

- 10- Rt. 600 Wilder Hollow large pot hole near the POND 400YDS. FROM THE DICKENSON COUNTY LINE. **WILL REPAIR**
- 11-RT 71N COMING ONTO 58E A LARGE SINK HOLE IN THE MEDIA RAMP. **WILL TALK TO OZZIE ABOUT GETTING FIBER OPTIC LID REPLACED**
- 12-Rt 665 past the ball park road falling in just pass 600 intersection **WILL MONITOR**
- 13-RT. 662 OFF RT 82 NEEDS BRUSH CUT AND SHOULDER WORK. **WILL SCHEDULE LABOR FOR BRUSH TO BE CUT**
- 14- RT 657/857 near Henry Kiser house a large pot hole. **WILL PUT ON SCHEDULE FOR REPAIR**
- 15-RT 651 Hubbard Town Rd. new pipe has been installed road sinking all the way across the highway. **THIS IS A PSA WATER LINE –PSA WILL BE CONTACTED FOR REPAIR**
- 16-RT 637 Wysor Valley Road narrow needs rip rap and widened. **WILL REVIEW AREA FOR POSSIBLE REPAIR**
- 17 RT 613 ¼ mile from Rt. 58 needs delineator's in the straight stretch. **WILL REPORT TO SIGN CREW FOR EVALUATION**
- 18-RT 63 Dante Mtn. just before water tank road sinking in the north lane potential for a slide. **WILL MONITOR**
- 19-RT. 58 E NEAR MILE MARKER 72.0 LARGE POT HOLE
- 20-RT. 677 SEVEN SPRINS ROAD HUGE MUD HOLE COMING OUT ONTO HIGHWAY
- 21- RT 58 E NEAR QUARRY ROAD IN CASTLEWOOD LARGE POT HOLE
- 22-RT. 19 /58 SOUTH POT HAS GOTTEN WORSE

### **SCHOOL BUS SAFETY AND OTHER CONCERNS**

1- Rt.19 N / RT 80 INTERSECTION LINES NOT VISIBLE FOR TRAFFIC LANES-**HANDLED IN BRISTOL**

2-Rt 71N request speed limit signs need to be moved back near Fincastle Subdivision to slow down oncoming traffic **LOOKING TO INSTALL CAUTION TRAFFIC ENTERING HIGHWAY**

3-Rt 80 Blackford Bridge ruff possibility dropping down GETTING WORSE-**BRIDGE CREW MADE AWARE WILL PASS ON TO BRISTOL**

4-Rt. 816 & 819 road narrow need delineator's installed **WILL GIVE TO SIGN CREW FOR EVALUATION**

5-RT. 609 HIGH POINT ROAD NEEDS SPEED LIMIT SIGNS INSTALLED. BOARD TO DO A RESOLUTION

### **ITEMS REPORTED CORRECTED**

- 1- RT. 19 NORTH NEAR GASFIELD SERVICES THE LINE OF SITE HAS BEEN IMPROVED
- 2- RT- 640 CLIFTON FARM ROAD THE DOWNED SCHOOL BUS SIGN HAS BEEN REPAIRED

**FUTURE MAJOR SAFETY PROJECT**

1-RT 627 DANTE SAWMILL HOLLOW CURVE NEEDS WIDENED AT THE UPPER END NEAR THE BALLFIELD and also the one lane road near the R.R tracks TO HANDLE ANTICIPATED HEAVY TRAFFIC TO A CAMP SITE. COUNTY WORKING WITH VDOT A RIGHT OF WAY PROBLEM

2-58W CASTLEWOOD AT THE TRAFFIC LIGHTS ROAD HOOVES UP THAT COULD CAUSE A POTENTIAL HAZARD CONDITION. PAVING SCHEDULED IN 2021 WILL BE FIXED THE

3-Rt. 71s / 604 Molls Creek INTERSECTION needs bank scaled back for visibility instead a stop bar will be installed and brush to be keep trimmed –WILL KEEP

**BANK SCALED BACK**

4-Rt. 80 from the doubles to Rt. 19 needs a passing lane installed

5-Rt. 645 New Garden Road water undercutting road one mile East of Nash’s Ford Bridge GETTING WORSE

6-Rt. 19N ramp onto Rt. 80at Elk Garden School is ruff and tilted IN THE WORKS

7-Rt. 19 south exit 1 coal tipple hollow ramp needs to be extended

**UNDER LINED AND BOLDED COMMENTS WERE REPORTED FROM HENRY KINCER**

**COMMISSION MEMBER INFROMATION**

Barbara COX	971 1502	JOHNNY JESSEE	889 1563
LINDA CROSS	794 7618	TIM LOVELACE	971 0367
GARY DOTSON	7 62 9803	TONY MAXFIELD	254 2492
EUGENE FERGUSON	210 8504	MIKE O’QUINN	701 7086
CARL RHEA	2543810	HENRY STINSON	873 4905
HENRY KINCER	889 7601		

**NEXT MEETING WILL BE FEBRUARY 9<sup>TH</sup> 2021 WE THANK ALL WHO ARE INVOLVED IN KEEPING OUR ROADWAYS SAFE AND OUR GUEST PARTICAPTION**

**SAFETY IS A COMMITMENT!!!!!!!!!!!!!!PREPARED BY GARY DOTSON**

**Cannery Revenue Report FY 2020/2021**

**C a s t l e w o o d**

Month	Resident Customers	OutofCounty Customers	Combined Revenues	Resident Customers	Cans Used	Glass Jars	Non-Resident Customers	Cans Used	Glass Jars
July	17	7	\$ 375.06	\$ 156.81	0	928	\$ 218.25	0	648
August	25	16	\$ 970.85	\$ 346.60	0	1900	\$ 624.25	0	1745
September	16	12	\$ 879.25	\$ 248.85	0	1333	\$ 630.40	0	1780
October	11	17	\$ 774.05	\$ 258.65	0	1573	\$ 515.40	0	1691
November	4	11	\$ 549.55	\$ 36.40	0	163	\$ 513.15	0	991
December	9	5	\$ 637.85	\$ 142.50	0	459	\$ 495.35	0	1248
January	0	0	\$ -	\$ -	0	0	\$ -	0	0
Total	82	68	\$ 4,186.61	\$ 1,189.81	0	6356	\$ 2,996.80	0	8103

**H o n a k e r**

Month	Resident Customers	OutofCounty Customers	Combined Revenues	Resident Customers	Cans Used	Glass Jars	Non-Resident Customers	Cans Used	Glass Jars
July	11	1	\$ 130.70	\$ 83.95	0	586	\$ 46.75	0	143
August	35	2	\$ 402.10	\$ 349.50	0	1823	\$ 52.60	0	140
September	18	5	\$ 318.20	\$ 196.10	0	1071	\$ 122.10	0	327
October	15	7	\$ 386.00	\$ 162.55	0	846	\$ 223.45	0	455
November	9	2	\$ 204.55	\$ 190.20	0	837	\$ 14.35	0	41
December	11	2	\$ 269.25	\$ 198.55	0	556	\$ 70.70	0	211
January	4	0	\$ 51.45	\$ 51.45	0	298	\$ -	0	0
Total	103	19	\$ 1,762.25	\$ 1,232.30	0	6017	\$ 529.95	0	1317

**Season Totals**

Combined Revenues	\$ 5,948.86	Total Resident	\$ 2,422.11	Total Cans	0	Total Jars	12373	Total Non-Resident	\$ 3,526.75	Total Cans	0	Total Jars	9420
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Total Cans : 0

Total Glass Jars: 21,793



**Loretta Vance**

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**From:** josh@rcso-va.net  
**Sent:** Wednesday, January 27, 2021 9:06 AM  
**To:** Loretta Vance  
**Subject:** Animal Shelter Report

ANIMAL CONTROL ANSWERED 140 CALLS FOR SERVICE DOGS ADOPTED-2 DOGS OWNER RECLAIMED-13 DOGS TRANSFERRED TO RESCUE-35 ALSO THE VDACS YEARLY REPORT WAS SUBMITTED TO VDACS

# Library Board of Trustees Meeting



Members Present			Members Absent
Judy Ashbrook*	Yvonne Dye*	Ann Monk	Sherry Lyttle
Susan Breeding	Karen Herndon*	Sharon Sargent*	
Karen Davis*		Sharon Van Dyke*	

Chair Karen Herndon called the meeting to order 15 December 2020 at 5:09 pm.

**Minutes:** Susan Breeding made and Ann Monk seconded a motion to approve the November minutes as distributed; motion passed.

**Communications:**

**Financial:** Sharon Sargent made and Yvonne seconded a motion to approve the bills; motion passed.

**Staff Reports:** Kelly McBride Delph reviewed the Programs and Director’s Reports.

**Unfinished Business:**

**New Business:** Sharon Sargent made and Karen Davis seconded a motion to reduce library service hours (below) and provide curbside only service effective end of business Sunday, Dec, 20. New hours and curbside only begin Monday, Dec. 21 and reviewed on Jan 19, 2021, at the Trustee’s meeting.

HCL Sun 2-5, Wed 2-6	= 7 hrs
Leb Mon-Th 10-6, Fri 10-5:30, Sa 10-3	= 44.5 hrs

**Review and Summary:**

Susan made and Sharon Van Dyke seconded a motion to adjourn.

Respectfully submitted,      Kelly McBride Delph

\*by phone/Zoom

**CUMBERLAND PLATEAU RWMA:**

Mr. Toby F. Edwards, Executive Director

**BUCHANAN COUNTY:**

Mr. Jeff Cooper  
Mr. Tim Hess



**DICKENSON COUNTY:**

Mr. Damon Rasnick  
Mr. Ronald Peters

**RUSSELL COUNTY:**

Mr. Carl Rhea  
Mr. Tim Lovelace

## Agenda

**I. January 21, 2021 CPRWMA Board of Directors Roll Call for Quorum.**

**II. a) Approval of Minutes of the December 17, 2020 meeting.....1**

Motion: \_\_\_\_\_ Seconded: \_\_\_\_\_

**III. Administrative Business**

- a) Review CPRWMA Waste Stream Report December 2020.....5
- b) Approval of the Treasurer's Report for the month of December 2020.....13
- c) CPRWMA Attorney's Report for December 2020.....Report
- d) Litter and Recycling Report.....Toby

**IV. Old Business**

- a) Motion: \_\_\_\_\_ Seconded: \_\_\_\_\_

**V. New Business**

- a) Review of the current 2020-2021 Operating Budget.....Toby
- b) "Draft" 2021-2022 CPRWMA Operating Budget.....Toby

Motion: \_\_\_\_\_ Seconded: \_\_\_\_\_

**VI. Correspondence**

**VII. Adjournment and Next Meeting.**

Chair or Vice Chair conducting the meeting: \_\_\_\_\_

Motion: \_\_\_\_\_ Seconded: \_\_\_\_\_

Minutes submitted by: Tim Lovelace and Sandra Honaker

137 Highland Drive / P. O. Box 386 Lebanon, VA 24266  
Phone 276-833-5403 Email tobyedwards@bvva.net  
www.cprwma.com



RECYCLED PAPER

**CUMBERLAND PLATEAU RWMA:**

Mr. Toby F. Edwards, Executive Director

**BUCHANAN COUNTY:**

Mr. Jeff Cooper  
Mr. Tim Hess



**DICKENSON COUNTY:**

Mr. Damon Rasnick  
Mr. Ronald Peters

**RUSSELL COUNTY:**

Mr. Carl Rhea  
Mr. Tim Lovelace

**Cumberland Plateau Regional Waste Management Authority  
Monthly Board Meeting Minutes  
December 17, 2020**

**Members Present:**

Damon Rasnick, Chairman  
Jeff Cooper  
Carl Rhea  
Tim Lovelace  
Ronald E Peters  
Tim Hess

**Others Present:**

Toby Edwards, Director  
R.J. Thornbury, Legal Counsel  
Saundra Honaker, Finance Officer

**CALL TO ORDER:** Chairman, Damon Rasnick, called the December 17, 2020 meeting of the Board of Directors. A telephonic conference meeting of the CPRWMA was called to order at 5:00 PM. Due to the CoVid-19 declared state of emergency and consistent with Amendment 28 to HB29 (budget Bill for 2018-2020) and the applicable provisions of Code of Virginia Section 2.2-3708.2 (Freedom of Information Act), the Authority convened an electronic meeting to consider such business matters necessary to continue operations and to discharge its lawful purposes, duties, and responsibilities

**QUORUM:** A quorum was established by roll call attendance. A motion was made by Jeff Hess and seconded by Tim Hess to approve this current Covid-19 pandemic is an emergency and it is unsafe and impractical to assemble in a single location. Motion was ratified, roll call vote as follows:

Tim Hess – Aye	Carl Rhea – Aye
Tim Lovelace– Aye	Jeff Cooper – Aye
Ron Peters – Aye	Damon Rasnick - Aye

**APPROVAL OF MINUTES:** The minutes of the November 18, 2020, 2020 monthly meeting of the Board of Directors were presented for

**137 Highland Drive / P. O. Box 386 Lebanon, VA 24266  
Phone 276-833-5403 Email tobyedwards@bvu.net  
www.cprwma.com**



RECYCLED PAPER

consideration. A motion was made by Jeff Cooper to approve the minutes and seconded by Tim Hess. Motion was ratified, roll call vote as follows:

Tim Hess – Aye	Carl Rhea – Aye
Tim Lovelace– Aye	Jeff Cooper – Aye
Ron Peters – Aye	Damon Rasnick - Aye

### **ADMINISTRATIVE BUSINESS**

WASTE STREAM REPORTS – November 2020: Toby Edwards reported the November tonnage amounts showing a slight increase. He also reported the year-to-date tonnage since the annual reporting period is December 16, 2019 to December 15, 2020.

TREASURER'S REPORT – November 2020: Tim Lovelace presented the CPRWMA Treasurer's Report for the month of November 2020, reporting the total in the bank was \$558,709.13 at the end of November. A motion to approve the report was made by Tim Lovelace and seconded by Jeff Cooper. Ron Peters questioned the extra check to Jeff Cooper for the August meeting he was unable to attend due to illness. Rebecca Thornbury recommended the Board address payment to members at the next meeting at which time the Board can review the By-laws and clarify the issue. Motion was amended by Tim Lovelace and seconded by Jeff Cooper to state that Treasurer's Report is approved excepting the August payment to Mr. Cooper and pending clarification. Motion was ratified, roll call vote as follows:

Tim Hess – Aye	Carl Rhea – Aye
Tim Lovelace– Aye	Jeff Cooper – Aye
Ron Peters – Aye	Damon Rasnick - Aye

CPRWMA ATTORNEY'S REPORT FOR NOVEMBER 2020: Rebecca Thornbury had no issues to report at this time. Ron Peters questioned legality of electronic meetings and missing meetings. Rebecca reported that members can be absent from meetings for two times per year for personal matters. However, it appears there is no limit for medical reasons or during the pandemic

LITTER AND RECYCLING REPORT: All counties have postponed their cleanup until spring due to the Covid-19 surge. A motion was made by Ron Peters and seconded by Carl Rhea to approve the Litter and Recycling Report. Motion was ratified, roll call vote as follows:

Tim Hess – Aye  
Tim Lovelace– Aye  
Ron Peters – Aye

Carl Rhea – Aye  
Jeff Cooper – Aye  
Damon Rasnick - Aye

### **OLD BUSINESS**

WV TIRE LETTER AND ARRIVAL OF DICKENSON CO. TIRE MACHINE: Toby Edwards reported that he has received no response from WV Tire Disposal – neither from the letter that was sent or to the various e-mails that he has sent. Ron Peters suggested that Toby keep a record of all attempts to contact them and asked the attorney if we should take further action. Toby stated that he would try to call WV Tire again on Friday. A motion was made by Ron Peters and seconded by Carl Rhea to authorize R. Thornbury to draft a letter addressing the issue as relates to the contract, should WVA Tire continue to be non-responsive. Motion was ratified, roll call vote as follows:

Tim Hess – Aye  
Tim Lovelace– Aye  
Ron Peters – Aye

Carl Rhea – Aye  
Jeff Cooper – Aye  
Damon Rasnick - Aye

The tire machine is on the truck and scheduled for delivery on Monday, December 28<sup>th</sup>.

### **NEW BUSINESS**

Toby stated that a preliminary budget will be presented at the next meeting. He will contact the Auditor to check on the status of the audit.

### **CORRESPONDENCE**

No correspondence presented.

### **ADJOURNMENT AND NEXT MEETING**

A motion was made by Jeff Cooper and seconded by Tim Hess that the next meeting be held at 5:00 PM on Thursday, January 21, 2021, electronically due to CoVid-19. Motion was ratified, roll call vote as follows:

Tim Hess – Aye  
Tim Lovelace– Aye  
Ron Peters – Aye

Carl Rhea – Aye  
Jeff Cooper – Aye  
Damon Rasnick - Aye

Cumberland Plateau Regional Waste Management Authority  
Monthly Board Meeting Minutes  
December 17, 2020

Page 4

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A motion was made by Tim Lovelace and seconded by Tim Hess to adjourn the meeting at 5:41 PM.

Tim Hess – Aye  
Tim Lovelace– Aye  
Ron Peters – Aye

Carl Rhea – Aye  
Jeff Cooper – Aye  
Damon Rasnick - Aye

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Secretary/Treasurer

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Date







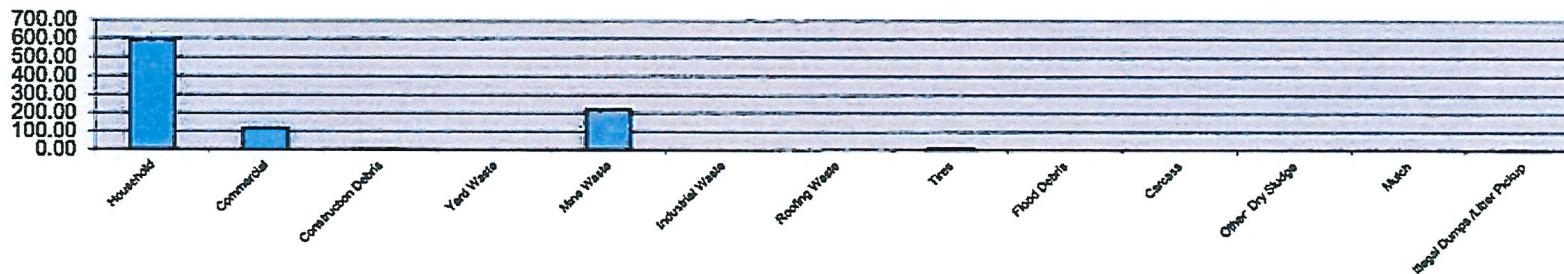




Cumberland Plateau Waste Stream Analysis Report

Dickenson County Waste Stream Analysis																
Period: December 16th, 2020 to January 15, 2021																
Name of Waste Material	This Month (Tons)	Last Month (Tons)	2019 (Tons)	2018 (Tons)	2017 (Tons)	2016 (Tons)	2015 (Tons)	2014 (Tons)	2013 (Tons)	2011 (Tons)	2010 (Tons)	2009 (Tons)	2008 (Tons)	2007 (Tons)	2006 (Tons)	2005 (Tons)
Household	597.15	616.42	643.47	618.15	521.58	553.32	598.49	566.53	615.80	619.22	611.62	631.96	736.52	715.28	693.13	676.92
Commercial	118.85	255.62	124.27	103.55	66.87	8.49	39.87	95.85	52.88	18.02	26.36	150.14	140.84	70.82	5.06	1.17
Construction Debris	4.12	7.72	12.13	81.39	0.35	1.53	1.65	6.56	7.85	11.37	7.59	4.25	25.88	27.20	43.16	17.28
Yard Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.48	8.84	28.54	17.27
Mine Waste	220.80	211.51	194.73	159.62	126.59	111.05	119.61	158.63	267.53	244.83	175.82	0.00	94.31	138.14	89.55	40.09
Industrial Waste	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
Roofing Waste	0.00	0.00	7.61	0.00	0.00	1.29	0.37	0.13	0.70	0.00	0.35	0.00	0.00	0.00	2.01	1.02
Tires	13.49	17.69	6.87	10.35	7.41	13.42	10.96	9.87	9.55	14.05	11.26	5.64	17.67	11.00	18.68	11.12
Flood Debris	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
Carcass	0.00	0.66	0.13	0.43	0.58	0.32	1.11	0.39	0.50	1.25	1.35	0.81	1.42	1.51	1.19	1.48
Other Dry Sludge	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
Mulch	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Illegal Dumps / Litter Pickup	4.41	1.85	2.36	0.00	0.00	0.00	0.00	0.89	0.00	0.54	0.00	0.00	0.00			
	<b>958.62</b>	<b>1,111.47</b>	<b>991.57</b>	<b>953.49</b>	<b>723.38</b>	<b>689.42</b>	<b>772.06</b>	<b>838.85</b>	<b>974.81</b>	<b>909.28</b>	<b>834.35</b>	<b>792.80</b>	<b>1,021.12</b>	<b>972.79</b>	<b>879.32</b>	<b>766.35</b>

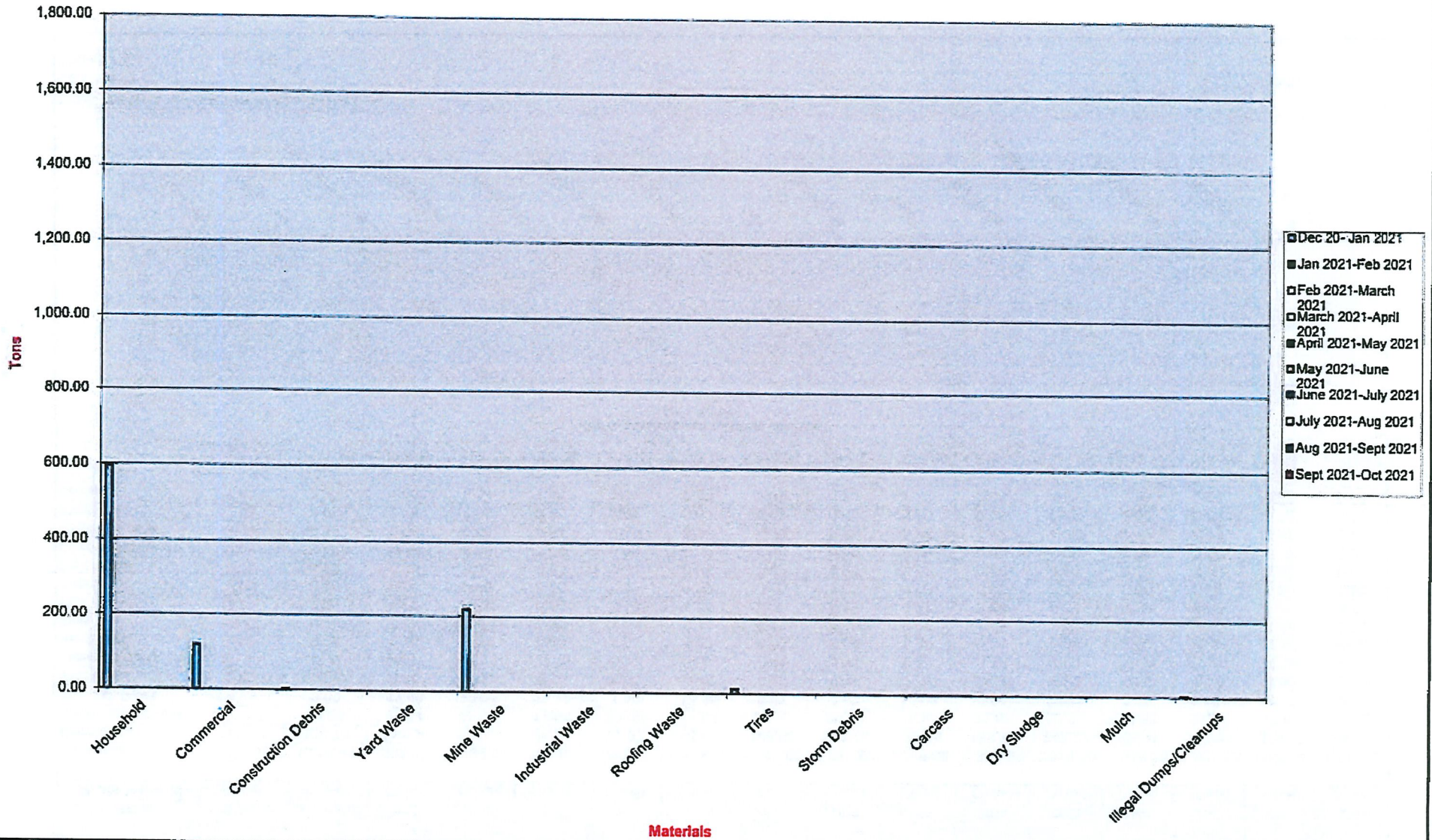
Dickenson County Waste Stream Analysis (This Month)



Total Tonnage includes the following towns:  
Town of Clintwood 0.00

b

### Dickenson County 2020-2021



01





Cumberland Plateau Regional Waste  
Management Authority

**Cash Flow Statement**

December 2020

Cash Balance - November 30, 2020 285,899.13

**Cash Received - Tipping Fees:**

Buchanan (Nov)	78,225.03	
Dickenson (Dec)	56,219.42	
		134,444.45
Interest		116.43

**Cash Expenditures**

Cash Expenditures - December 2020 (181,662.47)

Cash Balance - December 31, 2020 238,797.54

*Fund Balances:*

Capital Equip Replacement Fund	247,810
DEQ C/D	25,000

Total in Bank	511,607.54
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**Cumberland Plateau Regional  
Check Register  
For the Period From Dec 1, 2020 to Dec 31, 2020**

Filter Criteria Includes: Report order is by Check Number.

Check #	Date	Payee	Amount
	12/1/20	Anthem HealthKeepers, Inc.	797.19 Toby Health/Dental/Vision
	12/15/20	Caterpillar Financial Services Corp	6,218.75 Loan Payment
	12/16/20	TAG Resources, LLC	204.17 Employee 401k
	12/2/20	TAG Resources, LLC	204.17 Employee 401k
1.15.21	12/31/20	United States Treasury	1,409.18 Federal P/R Taxes
1.25.21	12/31/20	VA Dept of Taxation	274.58 State P/R Taxes
13092	12/1/20	Verizon	68.01 BC Phone
13093	12/1/20	Toby Edwards	84.99 Reimbursement Norton Antivirus
13094	12/1/20	Honaker Solutions, LLC	200.00 Christmas Bonus
13095	12/1/20	Innovative Technology Solutions	187.50 IT Support
13096	12/1/20	BrickFlats Storage	1,900.00 DC Tire Recycling
13097	12/1/20	Point Broadband	175.55 Office \$89.82 DC Phone \$85.93
13099	12/1/20	Pump House Supply	377.12 DC Tire Machine
13099	12/1/20	Sony's	12.00 BC Fuel
13100	12/1/20	Cleekwood Lumber and Supply Co., Inc.	486.66 DC Tire Machine
13101	12/1/20	Dominion Office Products, Inc.	46.24 DC Supplies
13102	12/1/20	Alderson Construction	325.00 DC Maint
13103	12/1/20	Appalachian Power Company	291.83 BC Electric
13104	12/1/20	Buchanan County PSA	177.35 BC Utility
13105	12/1/20	WV Tire Disposal, Inc.	683.88 DC Tire Disposal
13106	12/1/20	Michael Shields	66.70 Travel to RC to help with Exam
13107	12/1/20	Pump House Supply	239.48 DC Tire Machine
13108	12/1/20	Fields Restaurants, LLC	243.52 Board Meeting 11-18-20
13109	12/1/20	Void	
13110	12/15/20	Justice Law Office	911.80 Legal
13111	12/15/20	Unifirst Corporation	352.74 Uniforms
13112	12/15/20	WV Tire Disposal, Inc.	685.05 DC Tire Disposal
13113	12/15/20	Crystal Springs	14.50 RC Supplies
13114	12/15/20	Appalachian Power Company	373.98 RC Electric
13115	12/15/20	Appalachian Power Company	543.62 DC Electric
13116	12/15/20	BrickFlats Storage	1,900.00 DC Tire Disposal
13117	12/15/20	Pest Control Plus, Inc.	120.00 BC/DC/RC Pest Control
13118	12/15/20	Alderson Construction	670.00 DC Tire Machine
13119	12/15/20	Industrial Development Authority	200.00 Office Rent Jan/21
13120	12/15/20	Honaker Solutions, LLC	750.00 Accounting Dec/20
13121	12/15/20	Skyline Fabricating, Inc.	13,935.98 BC Tire Shearer
13122	12/15/20	Central Scale, Inc.	1,200.00 BC Inspection \$600 DC Inspection \$600
13123	12/15/20	Lebanon Block & Supply	64.31 DC Supplies \$51.43 Office Supplies \$12.88
13124	12/15/20	Dominion Office Products, Inc.	161.63 DC Supplies \$55.93 Office \$3.71 BC Supplies \$101.99
13125	12/15/20	Advance Auto	86.68 BC Supplies
13126	12/15/20	Void	
13127	12/15/20	Mansfield Oil Company	48.50 Vehicle Fuel
13128	12/15/20	Carter Machinery Company, Inc.	34.79 BC Fuel
13128	12/15/20	Dickenson Co Public Service Authority	796.00 DC Utility \$40 Leachale \$756
13130	12/15/20	Advanced Disposal Services	130,583.70 BC Tipping/Haul \$47,465.47 DC Tipping/Haul \$37,703.24 RC Tipping/Haul \$45,324.99
13131	12/15/20	Overhead Door Co of JC	480.00 BC Maint
13132	12/15/20	Northern Tool & Equipment	287.45 BC Gloves \$95.81 DC Gloves \$95.82 RC Gloves \$95.82
13133	12/15/20	National Domains LLC	224.00 Website Maintenance
13134	12/15/20	Postmaster	110.00 2 rolls stamps
13135	12/28/20	Central Scale, Inc.	600.00 RC Inspection
13136	12/28/20	Verizon	40.20 RC Phone
13137	12/28/20	Point Broadband	175.55 Office Phone \$89.82 DC Phone \$85.93
13138	12/28/20	Appalachian Power Company	466.92 BC Electric
13139	12/28/20	Verizon	81.99 BC Phone
13140	12/28/20	Mansfield Oil Company	80.00 Vehicle Fuel
13141	12/28/20	Carter Machinery Company, Inc.	5,270.51 RC Equip Maint \$3,664.29 BC Equip Maint \$3,107.14 DC Equip Maint -\$1,750.82 BC Fuel \$18 DC Fuel \$18 RC Fuel \$213.70
PR12120	12/1/20	Ronald E. Peters	184.70 Director's Compensation
PR12120	12/1/20	Damon Resnick	184.70 Director's Compensation
PR12120	12/1/20	Tim Lovelace	184.70 Director's Compensation
PR12120	12/1/20	Carl Rhea	184.70 Director's Compensation
PR12120	12/1/20	Jeffery S. Cooper	184.70 Director's Compensation
PR12120	12/1/20	Timothy W. Hass	184.70 Director's Compensation
PR121520	12/15/20	Toby F. Edwards	2,389.72 Salary 1st half
PR123120	12/31/20	Toby F. Edwards	2,389.72 Salary 2nd half
<b>Total</b>			<b>181,602.47</b>

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**CUMBERLAND PLATEAU REGIONAL WASTE MANAGEMENT AUTHORITY  
FY 2020 - OPERATING BUDGET & EXPENSE REPORT**

	Expenditures Thru 12/31/2020	FY 2020-21 Budget	
<b>Direct Expenses:</b>			
Transport/Disposal	865,966.48	1,482,992.00	
Tire Recycling	22,013.75	45,000.00	
HHW Event	11,996.65	-	
Other Reimbursed Expenses	1,656.00	-	
	901,632.88	1,527,992.00	
<b>Overhead Expenses:</b>			
Debt Service - Loaders	37,312.50	75,000.00	50%
Other Disposal	-	2,000.00	0%
<b>Utilities:</b>			
Buchanan	2,735.34	5,100.00	54%
Dickenson	2,058.23	4,500.00	46%
Russell	1,640.81	4,500.00	36%
<b>Supplies:</b>			
Buchanan	1,748.20	2,500.00	70%
Dickenson	1,045.96	2,500.00	42%
Russell	819.79	3,000.00	27%
<b>Fuel:</b>			
Buchanan	2,808.74	6,000.00	47%
Dickenson	2,396.16	4,000.00	60%
Russell	2,288.16	7,000.00	33%
<b>Telephone:</b>			
Buchanan	815.61	1,500.00	54%
Dickenson	835.89	1,100.00	76%
Russell	771.55	1,500.00	51%
<b>Station Maintenance/Improvements:</b>			
Buchanan	15,355.48	30,000.00	51%
Dickenson	18,318.43	30,000.00	61%
Russell	12,009.97	30,000.00	40%
<b>Loader/Equip Maintenance:</b>			
Buchanan	7,585.77	16,500.00	46%
Dickenson	21,056.15	16,500.00	128%
Russell	23,085.03	16,500.00	140%
<b>Transfer Station Permits and Manag</b>			
Station Permits	19,566.00	19,000.00	103%
VACO Insurance	17,236.00	14,000.00	123%
Management & Fringe	45,968.05	90,000.00	51%
Finance Manager	4,700.00	9,000.00	52%
Legal	7,232.03	12,000.00	60%
IT Support	2,635.16	4,000.00	66%
Office Rental/Internet/Cell/Office Supplies	2,406.13	6,000.00	40%
Directors Comp & PR Tax	7,735.50	18,100.00	43%
Professional Fees (Audit)	-	4,000.00	0%
Meeting Expense	2,024.77	3,000.00	67%
Travel	227.13	1,000.00	23%
Supplies:	474.56	1,000.00	47%
Dues/Licenses	-	410.00	0%
Vehicle Expense	1,356.73	2,500.00	54%
Uniform Rentals	2,468.81	4,000.00	62%
Advertising	616.23	2,500.00	25%
Reserves/Equip/ Fund	-	2,000.00	0%
Tire Machines/Shearer	35,014.04	-	
<b>OVERHEAD SUBTOTAL</b>	<b>304,348.91</b>	<b>452,210.00</b>	

*Management Breakdown	
Toby Health	4556.93
Toby Salary	36119.63
401K Cost/Contribution	2528.41
Taxes	2769.08
	45968.05
Directors Comp & Taxes	7184.7
	550.8
	7735.5
Office Breakdown	
Phone/int	533.14
Rent	1200
Postage	219.7
Office Sup	453.29
	2406.13

<b>TOTAL EXPENSES</b>	<b>1,205,981.79</b>	<b>\$1,980,202.00</b>
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Rate begins July 1st  
12,561.39

\*\*Overhead Rate per County

CUMBERLAND PLATEAU REGIONAL WASTE MANAGEMENT AUTHORITY				
FY 2020 2021- OPERATING BUDGET				
<b>Direct Expenses:</b>				
Transport/Disposal	\$ 865,966.48	1,482,992.00	1,966,147.00	Increase in Tonnage
Tire Recycling	22,013.75	45,000.00	20,000.00	Decrease because of T
HHW Events	11,996.65		12,000.00	Increase
Other Reimbursed Expenses	1,656.00			
	901,632.88	1,527,992.00	1,998,147.00	
<b>Overhead Expenses:</b>				
Debt Service - Loaders	\$ 37,312.50	75,000.00	75,000.00	
Other Disposal	-	2,000.00	2,000.00	
<b>Utilities:</b>				
Buchanan	2,735.34	5,100.00	5,100.00	Same
Dickenson	2,058.23	4,500.00	4,500.00	Same
Russell	1,640.81	4,500.00	4,500.00	Same
<b>Supplies:</b>				
Buchanan	1,748.20	2,500.00	3,000.00	Increase
Dickenson	1,045.96	2,500.00	3,000.00	Increase
Russell	819.79	3,000.00	3,000.00	Same
<b>Fuel:</b>				
Buchanan	2,808.74	6,000.00	7,000.00	Up
Dickenson	2,396.16	4,000.00	4,500.00	Up
Russell	2,288.16	7,000.00	7,000.00	same
<b>Telephone:</b>				
Buchanan	815.61	1,500.00	1,500.00	same
Dickenson	835.89	1,100.00	1,100.00	same
Russell	771.55	1,500.00	1,500.00	same
<b>Station Maintenance/Improvements:</b>				
Buchanan	15,355.48	30,000.00	30,000.00	same
Dickenson	18,318.43	30,000.00	30,000.00	same
Russell	12,009.97	30,000.00	30,000.00	same
<b>Loader/Equip Maintenance:</b>				
Buchanan	7,585.77	16,500.00	25,000.00	Increase
Dickenson	21,056.15	16,500.00	25,000.00	Increase
Russell	23,085.03	16,500.00	25,000.00	Increase
<b>Transfer Station Permits and Management:</b>				
Station Permits	19,566.00	19,000.00	20,000.00	Increase
VACO Insurance	17,236.00	14,000.00	18,000.00	Increase
Management and Fringe	45,968.05	90,000.00	90,000.00	same
Finance Manager	4,700.00	9,000.00	9,000.00	same
Legal	7,232.03	12,000.00	12,000.00	same
IT Support	2,635.16	4,000.00	4,000.00	same
<b>Office Rental/Internet/Cell/Office Supplies</b>				
Supplies	2,406.13	6,000.00	6,000.00	same
Directors Comp & PR Tax	7,735.50	18,100.00	18,100.00	same
Professional Fees (Aud t)	-	4,000.00	5,000.00	Increase
Meeting Expenses	2,024.77	3,000.00	3,000.00	same
Travel	227.13	1,000.00	1,000.00	same
Supplies:	474.56	1,000.00	1,000.00	same
Dues/licenses	-	410.00	400.00	decrease
Vehicle Expense	1,356.73	2,500.00	2,500.00	same
Uniform Rentals	2,468.81	4,000.00	4,000.00	same
Advertising	616.23	2,500.00	2,000.00	decrease
Projects-Tire Shear DC&RC	35,014.04		27,900.00	new
Reserves/Equip/				
Emergency Fund	-	2,000.00	2,000.00	same
<b>OVERHEAD SUBTOTAL</b>	** 304,348.91	452,210.00	513,600.00	increase
<b>TOTAL EXPENSES</b>	\$ 1,205,981.79	\$1,980,202.00	2,511,747.00	
		Rate begins July 1st	Rate begins July 1st	
**Overhead Rate per		12,561.39	14,266.67	
County per month				

Draft Attachment



RUSSELL COUNTY SITE TONNAGE REPORT FOR 2021															
	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL	Month Avg	%
LEBANON	113.16												113.16	113.16	19.30%
RADIO STATION	51.12												51.12	51.12	8.72%
HAMLIN	77.64												77.64	77.64	13.25%
MOCASSIN	37.71												37.71	37.71	6.43%
DOGTOWN	45.78												45.78	45.78	7.81%
BELFAST	56.07												56.07	56.07	9.57%
BLACKFORD	27.89												27.89	27.89	4.76%
CLEVELAND	26.62												26.62	26.62	4.54%
FLATROCK	62.67												62.67	62.67	10.69%
FINNEY	24.48												24.48	24.48	4.18%
SWORDSCREEK	63.03												63.03	63.03	10.75%
<b>Total Tons</b>	<b>586.17</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>586.17</b>	<b>48.85</b>	
<b>2020 Tons</b>	<b>737.34</b>	<b>637.51</b>	<b>973.65</b>	<b>1208.01</b>	<b>1119.86</b>	<b>1134.88</b>	<b>1109.97</b>	<b>1036.26</b>	<b>987.48</b>	<b>877.46</b>	<b>806.23</b>	<b>812.77</b>	<b>11441.42</b>	<b>953.45</b>	
<b>2019 Tons</b>	<b>752.92</b>	<b>661.84</b>	<b>740.69</b>	<b>856.36</b>	<b>841.97</b>	<b>779.48</b>	<b>882.57</b>	<b>774.21</b>	<b>733.39</b>	<b>801.41</b>	<b>649.21</b>	<b>815.94</b>	<b>9289.99</b>	<b>774.17</b>	
<b>2018 Tons</b>	<b>684.04</b>	<b>622.46</b>	<b>730.93</b>	<b>789.20</b>	<b>865.32</b>	<b>783.50</b>	<b>811.93</b>	<b>851.50</b>	<b>703.08</b>	<b>785.71</b>	<b>758.04</b>	<b>688.06</b>	<b>9073.77</b>	<b>756.15</b>	
<b>2017 Tons</b>	<b>656.45</b>	<b>616.84</b>	<b>740.53</b>	<b>682.00</b>	<b>836.71</b>	<b>789.31</b>	<b>755.54</b>	<b>812.25</b>	<b>714.43</b>	<b>714.43</b>	<b>722.52</b>	<b>649.91</b>	<b>8690.92</b>	<b>724.24</b>	
<b>2016 Tons</b>	<b>606.64</b>	<b>690.79</b>	<b>871.51</b>	<b>789.44</b>	<b>826.49</b>	<b>821.73</b>	<b>716.31</b>	<b>839.51</b>	<b>714.30</b>	<b>755.01</b>	<b>639.35</b>	<b>747.31</b>	<b>9018.39</b>	<b>751.53</b>	
<b>2015 Tons</b>	<b>671.00</b>	<b>546.05</b>	<b>875.74</b>	<b>915.91</b>	<b>868.90</b>	<b>833.09</b>	<b>970.82</b>	<b>839.73</b>	<b>835.15</b>	<b>729.42</b>	<b>694.49</b>	<b>850.12</b>	<b>9630.42</b>	<b>802.54</b>	

RUSSELL COUNTY SITE TONNAGE REPORT FOR 2020															
	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL	Month Avg	%
LEBANON	121.37	119.25	166.82	177.61	166.55	161.45	184.48	159.98	157.08	148.55	147.76	135.26	1846.16	153.85	16.14%
RADIO STATION	53.01	50.78	51.06	88.91	91.71	82.23	98.81	97.31	84.18	67.59	73.33	76.31	915.23	76.27	8.00%
HAMLIN	65.15	64.78	132.81	157.45	135.04	155.75	149.40	140.38	135.99	117.10	106.82	120.33	1481.00	123.42	12.94%
MOCASSIN	48.59	42.02	51.31	53.25	51.94	47.01	45.77	54.16	38.18	35.83	40.22	42.24	550.52	45.88	4.81%
DOGTOWN	60.37	73.68	78.48	111.22	85.61	90.36	88.85	92.59	78.99	87.10	72.91	86.42	1006.58	83.88	8.80%
BELFAST	93.39	51.04	92.85	106.55	115.92	115.71	105.59	93.92	110.74	96.85	80.71	79.92	1143.19	95.27	9.99%
BLACKFORD	48.27	28.95	54.20	81.83	59.57	62.43	76.25	56.65	66.57	51.91	43.13	50.51	680.27	56.69	5.95%
CARBO	40.48	40.33	90.01	102.68	105.82	103.46	19.36						502.14	71.73	4.39%
CLEVELAND							24.47	37.36	45.69	38.55	28.41	39.72	214.20	35.70	1.87%
FLATROCK	100.27	79.90	127.85	177.20	168.09	166.25	165.72	147.98	144.95	113.33	99.49	84.44	1575.47	131.29	13.77%
FINNEY	32.97	29.05	34.18	35.26	37.27	34.74	35.20	45.94	33.89	24.06	25.62	22.33	390.51	32.54	3.41%
SWORDSCREEK	73.47	57.73	94.08	116.05	102.34	115.49	116.07	109.99	91.22	96.59	87.83	75.29	1136.15	94.68	9.93%
<b>Total Tons</b>	<b>737.34</b>	<b>637.51</b>	<b>973.65</b>	<b>1208.01</b>	<b>1119.86</b>	<b>1134.88</b>	<b>1109.97</b>	<b>1036.26</b>	<b>987.48</b>	<b>877.46</b>	<b>806.23</b>	<b>812.77</b>	<b>11441.42</b>	<b>953.45</b>	

**LEACHATE TOTAL (GALLONS) 2020**

	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total	%
Location														
1-Tripples	21,500	20,500	17,500	19,500	46,000	15,150	2,500	14,000	9,000	12,500	14,000	11,500	203,650	9.06%
2-Bulk	72,500	96,000	78,500	77,500	97,500	37,000	25,000	37,750	31,800	40,500	58,000	75,000	727,050	32.36%
3-Side Road	53,500	73,500	52,500	56,000	57,500	20,850	5,750	13,750	4,200	19,500	26,000	40,500	423,550	18.85%
4-Pond	108,000	103,000	101,000	88,500	52,000	71,250	51,750	42,500	69,500	49,500	37,500	28,500	803,000	35.74%
5-Transfer	7,000	15,500	5,500	8,000	7,000	8,250	7,500	13,500	5,500	8,000	2,000	2,000	89,750	3.99%
Total Gallons	262,500	308,500	255,000	249,500	260,000	152,500	92,500	121,500	120,000	130,000	137,500	157,500	2,247,000	
Total Loads (2500 Gallons)	105	123	102	100	104	61	37	49	48	52	55	63	899	
3000 Gallons	88	103	85	83	87	51	31	41	40	43	46	53	749	
Contractors Work Days Hauled	15	16	13	17	19	16	14	14	14	14	19	16	187	
County Work Days	20	19	21	22	20	23	22	21	21	21	18	18	246	
Days In Month	31	28	31	30	31	30	31	31	30	31	30	31	365	

Gallons Per Day	8,468	11,018	8,226	8,317	8,387	5,083	2,984	3,919	4,000	4,194	4,583	5,081		
Contractor Gallons Hauled Per Day	17,500	19,281	19,615	14,676	13,684	9,531	6,607	8,679	8,571	9,286	7,237	9,844		
Contractor Loads Per Day	7	8	8	6	5	4	3	3	3	4	3	4		