

LUNENBURG COUNTY BOARD OF SUPERVISORS
160 COURTHOUSE SQUARE
LUNENBURG COURTS BUILDING, LUNENBURG, VIRGINIA
June 13, 2024 Meeting

1. Call to Order – **6:00PM**
2. Invocation/Pledge of Allegiance: Supervisor Zava
3. Requests for Additions to the Agenda
4. Conflict of Interest Statements & Organizational Matters
5. Citizen Comment Period
6. Consent Agenda
 - A) Minutes – May 9, 2024 Meeting and May 23, 2024 Public Hearing
 - B) Warrants for Approval May 2024
 - C) Treasurer's Report – April 2024
7. **JOINT PUBLIC HEARING with LUNENBURG COUNTY PLANNING COMMISSION:**
 - A) **CUP 11-23: Conditional Use Permit for Virginia Electric and Power Company dba Dominion Energy Virginia to construct and operate a major public utility (230/500kV Electric Transmission "Unity" Substation) on tax parcel 059-0A-0-18A, located Southeast of 251 Dusty Lane, Kenbridge, VA 23944, consisting of 213.45-acres (of which 49.740-acres has been subdivided for purchase and utilization by Virginia Electric and Power Company) in an A-1 Agricultural zone.**
8. Offices and Departments
 - A) Lunenburg County School Board
 - B) VA Department of Transportation
 - C) Enterprise Zone Tax Incentives
 - D) Radiocache Surplus Request
 - E) Treasurer's Office—Surplus
 - F) Sheriff's Office—Vacancy Savings
9. FY202-2025 Budget Discussion and Adoption
10. Meherrin Fireworks Permit
11. County Administration – Monthly Report
 - A) DEQ Notice of Landfill Vertical Expansion
12. County Attorney – Monthly Report
13. Closed Session Items—(if necessary)
14. Other Business (per Board approval)
15. Adjournment

- Advance inquiries about agenda items can be directed to the County Administrator prior to the meeting via e-mail tgee@lunenburgva.gov or phone at 434-696-2142.

-It is the intention of the Lunenburg County Board of Supervisors to comply with the Americans with Disabilities Act. Should you need special accommodations, please contact the County Administrator's Office at 434-696-2142 prior to the meeting date.

-- Tracy M. Gee, County Administrator

Consent Agenda

- A) Minutes – May 9, 2024 Meeting and May 23, 2024 Public Hearing
- B) Warrants for Approval May 2024
- C) Treasurer's Report – April 2024

LUNENBURG COUNTY BOARD OF SUPERVISORS
GENERAL DISTRICT COURTROOM
LUNENBURG COURTS BUILDING
LUNENBURG, VIRGINIA

DRAFT

Minutes of May 9, 2024 Meeting

The regular meeting of the Lunenburg County Board of Supervisors was held on Thursday, May 9, 2024 at 6:00 pm in the General District Courtroom, Lunenburg Courts Building, Lunenburg, Virginia. The following members were present: Supervisors T. Wayne Hoover, Alvester Edmonds, Greg Currin, Frank W. Bacon, Mike Hankins, Robert Zava, Edward Pennington, County Administrator Tracy M. Gee, Deputy County Administrator Nicole Clark, and County Attorney Frank Rennie.

Chairman Edmonds called the regular meeting of the Board of Supervisors to order.

Chairman Edmonds led the Pledge of Allegiance and gave the invocation.

Chairman Edmonds requested additions to the agenda from the Board and the public. There were none.

Chairman Edmonds called for any conflicts of interest from any board members. There were none.

Chairman Edmonds called for any citizens wishing to speak during the citizen comment period.

Mr. Mike Campbell of 10663 Plank Road, Kenbridge, VA requested to speak regarding a nuisance issue with a dog kennel on an adjoining property. He indicated that C.H. Hall operates a dog kennel on the property beside his, which is owned by Mr. Hall's mother, Vicky Hall. The kennel is less than 200 feet from his back porch and houses thirty to forty dogs. Mr. Campbell shared that the dogs bark all hours of the day and night and he and his family can barely hear each other inside the house. Mr. Campbell stated that he believes his neighbor should be required to have some sort of permit from the County to operate. He also believes Mr. Hall is operating as a breeder but has not gotten the proper permitting required. Mr. Campbell shared a video on his cell phone of the noise created by the dogs barking with the Board. He advised that he has contacted the Sheriff's Office, Animal Control and his Board of Supervisor representative. Mr. Campbell is asking the County to help him in any way possible. Chairman Edmonds commented that the kennel is likely in violation of the noise ordinance and if he is a breeder, he should have a conditional use permit. Chairman Edmonds suggested that Administrator Gee and County Attorney Rennie research the issue and provide recommendations to the Board and advise Mr. Campbell.

Supervisor Hankins made motion, seconded by Supervisor Bacon, and unanimously approved, to accept the Consent Agenda to include the minutes of the April 11, 2024 Meeting, the Treasurer's March 2024 reports and the following Warrants for Approval:

April 2024:

Payroll: Direct Deposit	\$ 192,617.72
Payroll Check #2045-48	\$ 3,687.66
Payroll Taxes Federal:	\$ 62,850.57
Payroll Taxes State:	\$ 11,854.05
ACH Payroll Payments:	\$ 46,512.44
ACH AP Payments:	\$ 636.59
Accounts Payable: #84707-867	<u>\$ 617,406.19</u>

Total: \$ 935,565.22

Ms. Jessica Nowlin provided the school report. She advised that the final ADM would be reported as 1,499.6. She shared that the recent pre-registration for kindergarten at both elementary schools went well. She noted that financial reports would be reviewed and approved by the School Board the following week and would be shared with the Board of Supervisors at the next meeting. Supervisor Hoover questioned if the School Board was actively searching

for a Finance Director. Mrs. Nowlin replied that she and Mr. Dalton Ashworth were currently serving in that capacity. Any future plans would be a School Board decision.

Mr. Kevin Smith of VDOT provided the monthly report. He shared that the construction project on Route 635 was upcoming soon and the project would require a road closure. Notice would be posted in advance of the closure. Mr. Smith advised that grass cutting on primary and secondary roads would begin in the next few weeks.

Administrator Gee shared a letter from Treasurer Wanda Barnes requesting a transfer from Comp Board vacancy savings in the amount of \$8,070.25. Treasurer Barnes requests \$2,000 be moved to postage and \$6,075.25 to office supplies.

Supervisor Bacon made motion, seconded by Supervisor Pennington, and unanimously approved, to transfer Comp Board vacancy savings in the amount of \$8,070.25 with \$2,000 going to the Treasurer's Office postage line item and \$6,075.25 to the Treasurer's Office office supplies line item.

Administrator Gee shared Change Order 5 from CTA Consultants regarding General Communications Consulting Services and outlining the billing rates for such services.

Lunenburg County, Virginia
Change Order 5: General Communications Consulting

1

Consulting Agreement
Change Order 5
General Communications Consulting

Lunenburg County requests services and tasks associated with General Communications Consulting in addition to the Consulting Agreement between Lunenburg County and CTA Consultants dated April 30, 2020. The Consultant hereby agrees to provide such Services at the request of the Client upon agreement of services and payment stated in Exhibit A: Billing Rates.

IN WITNESS WHEREOF the Parties have duly affixed their signatures under hand and seal on this _____ day of March 2021.

Tracy Gee, County Administrator

Lunenburg County, Virginia (Client)

Cheryl S. Giggetts

Cheryl S. Giggetts, Principal Consultant

CTA Consultants LLC

EXHIBIT A : BILLING RATES

<u>Category</u>	<u>Billing Rate</u>
Principal Consultant / Project Manager	\$180.00
RF Subject Matter Expert	\$150.00
Sr. Communications Engineer	\$140.00
911 Subject Matter Expert	\$131.00
Deputy Project Manager	\$130.00
Communications Engineer	\$120.00
Jr. Communications Engineer	\$100.00
Project Coordinator	\$ 80.00

Supervisor Hoover made motion, seconded by Supervisor Bacon, and unanimously approved, to approve Change Order 5; General Communications Consulting and the Billing Rates outlined.

Ms. Patricia Harper-Tunley, who represents the County on the STEPS, Inc Board, reminded the Board of STEPS prior request of ARPA funds to support the initiative to construct a regional long-term housing facility for homelessness. They are requesting support from member counties to build a multi-unit complex. Their initial request was \$50,000. They are now requesting \$25,000 to support the initiative due to the Board's request to revisit prior usage by Lunenburg County. Ms. Harper-Tunley commented that, if supported, six housing units would be dedicated to Lunenburg residents. She requested the Board's consideration of the new request. Supervisor Hoover commented that this request is in line with usage and asked which other counties had agreed to participate. Ms. Harper-Tunley stated that Prince Edward has pledged funds and they are still working with other localities regarding the revised request. Supervisor Hoover asked if there would be a transportation component and who would be responsible for the maintenance and upkeep of the facility. Ms. Harper-Tunley replied that transportation would be provided to the facility. She advised that maintenance and upkeep would be supported by annual State and Federal grant funds. The initial investment is a one-time request to get the infrastructure in process.

Supervisor Hankins made motion, seconded by Supervisor Pennington, and unanimously approved, to provide \$25,000 in ARPA funds to STEPS, Inc. to support their initiative to construct a long-term solution for homelessness.

Administrator Gee requested the Board consider increasing the debt service expense and appropriate for FY24 the amount of \$506,600 to complete debt service for the Courthouse. She shared that by completing the debt service nine months early, the County will save \$7,400 in interest. She said that remaining bonded funds from the Radio System project can be used towards the early payment in the amount of \$139,510.22, plus interest accrued to a total of \$224,089.51. She requested the Board authorize payment of debt service for the Courthouse in FY2024 to Benchmark Bank in the amount of \$506,568.22 on May 10th and accept and appropriate use of bond funds in the amount of \$224,089.51 toward debt expense. Supervisor Hoover advised that the Finance Committee fully supported the request and commended Administrator Gee on her forward-thinking in saving County funds.

Supervisor Hankins made motion, seconded by Supervisor Pennington, and unanimously approved, to authorize payment of debt service for the Courthouse in FY2024 to Benchmark Bank in the amount of \$506,568.22 on May 10th and accept and appropriate use of bond funds in the amount of \$224,089.51 toward debt expense.

Administrator Gee reviewed the proposed FY2024-2025 budget. She noted that increases are projected for both Real Estate and Personal Property tax revenue. Additionally, increases were projected in interest income, landfill host fees, and a 3% COLA increase from the Compensation Board for salaries. The proposal includes the use of \$1.2 million in reserve funds. Administrator Gee listed several increases in expenses, to include increases in office expenses and postage, the cost of three elections, additional staff support for the Sheriff's Office and EMS, health insurance costs, utility increases, community partner requests, worker's compensation insurance, and school funding. Capital improvement expenses are increasing for the County facilities, as well as the cost to maintain aging equipment at Solid Waste sites. Administrator Gee noted that the State has yet to finalize their budget, so some figures remain unknown until they return to session on May 17th. Supervisor Hoover commented that the Finance Committee fully supports the proposal.

Supervisor Hoover made motion, seconded by Supervisor Zava, and unanimously approved, to advertise the proposed FY2024-2025 budget and hold a public hearing on May 23, 2024 at 6pm.

County Attorney Rennie provided an update on the opioid abatement settlement funds. He noted that initial amounts coming to the County were much smaller than expected. He added that they finally decided to pay out the remainder of the debt at one time. Lunenburg should receive another \$10,000, bringing the total funds received to about \$30,000. He commented that these funds were to be used to aid in the reduction of opioid addiction through health care providers, court services and educational purposes.

Administrator Gee provided her monthly report. She thanked Commissioner of the Revenue Liz Hamlett and Deputy Administrator Nicole Clark for their work with the Board of Equalization over the past few months. She advised the Commonwealth's Attorney Office has hired an Assistant Commonwealth's Attorney, who would start the first of July. Repairs to the tax building are on hold until after the June tax collection was completed, insurance adjustments are complete, and the rain leaks can be resolved. Administrator Gee advised that Director of Planning/Zoning Administrator Taylor King would be out on extended medical leave for her daughter's premature birth. She has spoken with previous Community Development Director Beverley Hawthorne and indicated she would be willing to serve as the Interim Planning Commission Clerk. Administrator Gee has also spoken with Building Official James Tuck about serving as the Interim Deputy Zoning Administrator in Mrs. King's absence. Mrs. King will continue to review and discuss any zoning requests with Mr. Tuck and prepare information for the Planning Commission.

Supervisor Pennington made motion, seconded by Supervisor Currin, and unanimously approved, to appoint Mrs. Beverley Hawthorne as the Interim Planning Commission Clerk.

Supervisor Zava made motion, seconded by Supervisor Bacon, and unanimously approved, to appoint Mr. James Tuck as the Interim Deputy Zoning Administrator.

Administrator Gee requested the Board hold a joint public hearing with the Planning Commission at the June meeting regarding the Dominion Energy Unity Substation Conditional Use Permit. The Board expressed consent to advertise as such.

Supervisor Hoover made motion, seconded by Supervisor Zava, and unanimously approved, to continue the meeting to May 23, 2024 at 6:00 p.m.



Tracy M. Gee, Clerk
County Administrator

Alvester L. Edmonds, Chairman
Board of Supervisors

LUNENBURG COUNTY BOARD OF SUPERVISORS
GENERAL DISTRICT COURTROOM
LUNENBURG COURTS BUILDING
LUNENBURG, VIRGINIA

DRAFT

Minutes of May 23, 2024 Public Hearing FY2024-2025 Budget

The continued meeting of the Lunenburg County Board of Supervisors was held on Thursday, May 23, 2024 at 6:00 p.m. in the General District Courtroom, Lunenburg Courts Building, Lunenburg, Virginia for the purpose of public hearing for the proposed FY2024-2025 County Budget. The following members were present: Supervisors Frank Bacon, Greg Currin, Alvester Edmonds, T. Wayne Hoover, Edward Pennington, Robert Zava, Mike Hankins, County Administrator Tracy M. Gee and Executive Assistant Gail Gregoric.

Chairman Edmonds called the continued meeting to order.

Supervisor Hoover spoke on behalf of the Finance Committee. He shared the following facts with the Board and the audience regarding the County funds provided to the school system.

- The Required Local Effort is for Standards of Quality mandated funds and the Required Local Match is for all budgeted programs.
- The School Board requested an increase of \$1,120,918, based on Required Local Match, with an ADM of 1,500 and an additional \$100,000 in contingency funds.
- The Board of Supervisors used the State-recommended ADM of 1,483 for Required Local Effort and proposed the School Board budget at \$5,275,000, which is \$176,567 short of Required Local Match.
- The School Board requested the Board of Supervisors allow the use of \$313,715 in carryover funds to be placed in the School Construction Fund to assist with match.
- The updated recommended amount is 100% of the 1,483 ADM for Required Local Match made up of \$640,643 in new local funds (\$5,451,657 plus the carryover of \$313,715 to equal \$5,765,372).

Supervisor Hoover noted the following highlights in the proposed FY2024-2025 budget.

- Includes an early pay-off of debt, which saves \$7,400 in increase.
- Added \$40,000 for match and \$103,000 in DCJS grant funds for two School Resource Officer positions.
- Includes a full year of support for the Sheriff's Department compensation and works toward 24-hour coverage.
- Adds \$500,000 in new support for EMS, with \$250,000 coming from General Fund reserve and \$250,000 from a final use of ARPA funding.
- ARPA will be depleted in FY25.
- One-time solar siting agreement payments are being used to fund Emergency Services Capital, including \$225,000 for fire apparatus.

Supervisor Hoover advised that Real Estate revenue is projected at \$4 million, Personal Property is projected at \$3 million and total school funding would be at \$5,765,372. He added that three quarters of county taxes collected are going to school funding. He advised that in FY2025-2026, the County will not have savings from debt service to rollover or any ARPA funds. To maintain the same funding as the proposed 2024-2025 budget, the real estate tax rate would need to increase by eleven cents per hundred. The Finance Committee believes that not all tax payers would agree to such a large increase. Supervisor Hoover noted that Administrator Gee and the Finance Committee had worked many hours on the proposed budget.

Supervisor Pennington made motion, seconded by Supervisor Hankins and unanimously approved, to enter Public Hearing for the FY2024-25 Budget.

Administrator Gee directed the Board to the proposed FY2024-25 budget. She noted that the updated budget included taking \$250,000 out of ARPA funds for EMS support. It also includes fund 250 \$5,451,657 in funding for the school system, which is \$640,000 over the current budget year amount. Landfill host fee revenues are increased to \$650,000. She noted that \$370,000 had been added to the total proposed budget from the advertised proposed budget, however, changes up to one percent of the total budget are allowed without having to readvertise and hold another public hearing. The updated proposed FY2024-2025 budget will be presented for a decision at the June meeting.

Chairman Edmonds asked if there was anyone from the public to speak. Administrator Gee read the Public Hearing Speaking Resolution for the record.

The following people spoke before the Board in favor of increasing funding to the school system:


Dawn Bacon, 2075 Bacon Fork Road, Kenbridge, VA 23944
Ricky Ramirez, 100 S. Commerce Street, Kenbridge, VA 23944
Geoff Seamster, 112 N. Grace Street, Kenbridge, VA 23944
Elveta Bridgeforth, 820 Dundas Road, Kenbridge, VA 23938
Micheal Bender, 316 E. 5th Avenue, Kenbridge, VA 23944
Patricia Harper-Tunley, Unity Road, Kenbridge, VA 23944
Lucy Hall, 11075 Plank Road, Kenbridge, VA 23944
Catherine Reid, 6373 Longview Drive, Kenbridge, VA 23944

The following people sent emails to the Board in favor of increasing funding to the school system:

Nikole M. Johnson, 247 County Club Road, Blackstone, VA 23824
Trudy Berry, 1662 Bethel Church Road, Green Bay, VA 23942
Kenbridge Town Mayor Wanda Morrison

Supervisor Hoover made motion, seconded by Supervisor Currin and unanimously approved, to exit Public Hearing for the proposed FY2024-25 Budget.

Supervisor Bacon made motion, seconded by Supervisor Pennington and unanimously approved, to adjourn.



Tracy M. Gee, Clerk
County Administrator

Alvester Edmonds, Chairman
Board of Supervisors

BOARD OF SUPERVISORS

Alvester L. Edmonds, CHAIRMAN
Election District 6

Frank W. Bacon, VICE-CHAIRMAN
Election District 3

T. Wayne Hoover
Election District 1

Mike Hankins
Election District 2

Greg Currin
Election District 4

Edward Pennington
Election District 5

Robert G. Zava
Election District 7



Lunenburg County Administration
11413 Courthouse Road
Lunenburg, VA 23952

Tracy M. Gee
County Administrator
tgee@lunenburgva.gov

Telephone: (434) 696-2142
Facsimile: (434) 696-1798

May 31, 2024

Lunenburg County Board of Supervisors
11413 Courthouse Road
Lunenburg, VA 23952

Honorable County Supervisors:

The following warrants, including accounting for all voided checks are listed according to Code of Virginia § 15.2-1243 and § 15.2-1244 requiring your approval:

May 2024:

Payroll: Direct Deposit	\$ 199,318.44
Payroll Check #2049-52	\$ 3,376.79
Payroll Taxes Federal:	\$ 64,131.87
Payroll Taxes State:	\$ 12,171.06
ACH Payroll Payments:	\$ 48,334.19
AP WIRE Payments:	\$ 160,821.25
Accounts Payable: #84868-992	<u>\$ 855,385.49</u>

Total: \$ 1,343,539.09

Sincerely,

Tracy M. Gee
County Administrator

AP100B 5/19/2024 LUNENBURG COUNTY
TIME-11:15:22

A/P CHECK REGISTER
Check Date - 5/17/2024

ActPd - 2024/05

PAGE 1

CHECK#	VEND#	VENDOR	CLASS	DATE	AMOUNT	DISCOUNT
84869	452	ABERNATHY, KEVIN	000	5/17/2024	242.88	.00
84870	1172	ACEWALL SCHOLARS	000	5/17/2024	1,500.00	.00
84871	283	ADAMS PATRICIA M	000	5/17/2024	619.36	.00
84872	1033	ALEXANDER RHONDA	000	5/17/2024	701.63	.00
84873	880	AMAZON CAPITAL SERVICES	000	5/17/2024	6,317.07	.00
84874	102	AMERICAN FEDERAL	000	5/17/2024	165.00	.00
84875	1091	BENCHMARK COM. BANK	000	5/17/2024	875.04	.00
84876	139	BENCHMARK COMMUNITY BANK	000	5/17/2024	6,611.88	.00
84877	1181	BERNHARDT JODI POWERS	000	5/17/2024	416.98	.00
84878	1051	BETTER CABLE SYSTEMS INC.	000	5/17/2024	3,132.00	.00
84879	1183	BLUE 360 MEDIA LLC	000	5/17/2024	1,951.43	.00
84880	8	BMS DIRECT, INC.	000	5/17/2024	2,914.23	.00
84881	10	BRIGHTSPEED	000	5/17/2024	741.00	.00
84882	371	BUG BUSTERS PEST CONT, INC	000	5/17/2024	248.00	.00
84883	746	CANON SOLUTIONS AMERICA	000	5/17/2024	126.62	.00
84884	551	CAS SEVERN, INC.	000	5/17/2024	113.00	.00
84885	1117	CCATT LLC	000	5/17/2024	824.00	.00
84886	785	CHAMPION MIKE	000	5/17/2024	612.77	.00
84887	291	CHUCK'S AUTO TRUCK REPAIR	000	5/17/2024	192.50	.00
84888	293	COMMISSIONER OF THE	000	5/17/2024	35.00	.00
84889	276	COR ASSOCIATION OF VA	000	5/17/2024	275.00	.00
84890	58	COWAN GATES PC	000	5/17/2024	5,828.30	.00
84891	124	CROSSROADS COMMUNITY	000	5/17/2024	14,409.25	.00
84892	446	CURRIN GREG	000	5/17/2024	37.52	.00
84893	119	DATA CARE, INC.	000	5/17/2024	5,213.76	.00
84894	46	DOMINION ENERGY VIRGINIA	000	5/17/2024	5,839.67	.00
84895	642	FARMVILLE NEWSMEDIA	000	5/17/2024	453.25	.00
84896	690	FIELDS, JOSH DBA	000	5/17/2024	125.00	.00
84897	287	FIRE & SAFETY	000	5/17/2024	799.25	.00
84898	1180	FRANCOS ELECTRICAL SERVIC	000	5/17/2024	2,208.46	.00
84899	66	FUEL FREEDOM CARD	000	5/17/2024	4,623.47	.00
84900	467	HAMLETT ELIZABETH Y.	000	5/17/2024	335.02	.00
84901	1045	HANKINS MIKE	000	5/17/2024	52.26	.00
84902	150	HAWTHORNE BEVERLEY P	000	5/17/2024	484.86	.00
84903	807	HHM PORTA TOILET LLC	000	5/17/2024	450.00	.00
84904	294	ID NETWORKS	000	5/17/2024	2,424.00	.00
84905	1126	KEMPSVILLE CENTER	000	5/17/2024	2,970.00	.00
84906	77	KENBRIDGE SUPPLY COMPANY	000	5/17/2024	19.98	.00
84907	75	KENBRIDGE TIRE	000	5/17/2024	5,102.03	.00
84908	286	KEY OFFICE SUPPLY INC	000	5/17/2024	717.79	.00
84909	261	KIES, INC.	000	5/17/2024	1,160.00	.00
84910	996	KINEX TELECOM, INC.	000	5/17/2024	80.74	.00
84911	80	KUSTOM SIGNALS INC	000	5/17/2024	18,620.00	.00
84912	254	LEWIS WELDING &	000	5/17/2024	3,481.17	.00
84913	1119	LIFEPUSH, LLC	000	5/17/2024	9,150.00	.00
84914	407	L3HARRIS TECHNOLOGIES, INC	000	5/17/2024	12,587.40	.00
84915	1015	MOORE CHARLES OR	000	5/17/2024	330.00	.00
84916	1042	NEWTON RODNEY C.	000	5/17/2024	500.00	.00
84917	148	NOTTOWAY PUBLISHING	000	5/17/2024	225.75	.00
84918	1074	NOWLIN'S TOWING &	000	5/17/2024	150.00	.00
84919	1164	PAVION CORP	000	5/17/2024	2,174.28	.00
84920	360	PEGRAM, PHILLIP	000	5/17/2024	200.00	.00

CHECK#	VEND#	VENDOR	CLASS	DATE	AMOUNT	DISCOUNT
84921	94	PETTY CASH FUND	000	5/17/2024	8.73	.00
84922	96	PIEDMONT REGIONAL JUV.	000	5/17/2024	2,500.00	.00
84923	136	PITNEY BOWES BANK INC.	000	5/17/2024	800.00	.00
84924	1071	PRECISE DIGITAL	000	5/17/2024	700.00	.00
84925	466	PRINTELECT	000	5/17/2024	2,391.73	.00
84926	1099	RAHMA 2, LLC	000	5/17/2024	200.00	.00
84927	1001	RIVERMONT SCHOOLS	000	5/17/2024	57,898.00	.00
84928	506	ROCKY TOP LOCKSMITH &	000	5/17/2024	177.50	.00
84929	104	SECURE HAVEN	000	5/17/2024	8,370.00	.00
84930	1060	SHI INTERNATIONAL CORP	000	5/17/2024	512.95	.00
84931	511	SOUTHERN OFFICE MACHINES	000	5/17/2024	43.96	.00
84932	135	SOUTHSIDE ELECTRIC COOP, I	000	5/17/2024	995.12	.00
84933	107	STANDBY SYSTEMS INC	000	5/17/2024	3,229.18	.00
84934	337	STEPS, INC.	000	5/17/2024	128.40	.00
84935	530	TIMMONS GROUP	000	5/17/2024	325.00	.00
84936	209	TK ELEVATOR CORP	000	5/17/2024	5,158.48	.00
84937	899	TMDE CALIBRATION LABS, IN	000	5/17/2024	150.00	.00
84938	322	TOWN OF KENBRIDGE	000	5/17/2024	430.00	.00
84939	768	TOWNES TUANA	000	5/17/2024	71.65	.00
84940	172	US POSTAL	000	5/17/2024	272.00	.00
84941	113	VERIZON	000	5/17/2024	54.06	.00
84942	176	VIRGINIA TECH	000	5/17/2024	12,281.01	.00
84943	900	WAY LARRY	000	5/17/2024	400.00	.00
84944	173	WILCO JANITORIAL SUPPLIES	000	5/17/2024	739.22	.00
84945	933	WRIGHT AUTO SUPPLY, INC.	000	5/17/2024	89.98	.00
		CLASS TOTAL			227,295.57	.00
		ACH TOTAL			.00	
		CHECK TOTAL			227,295.57	
		EPY TOTAL			.00	
		FINAL TOTAL			227,295.57	.00

I HEREBY APPROVE THIS REGISTER FOR PAYMENT WITH EXCEPTIONS LISTED BELOW OR PREVIOUSLY DOCUMENTED.
THE TOTAL 227,295.57- EQUALS THE WEEKLY LOG SHEET TOTALS AS ADJUSTED.

5-20-24
DATE

5-20-24

Orangeville
COUNTY ADMINISTRATOR
Albert L. Edmonds

Wire - USB DD-6-1-24

AP040 5/19/2024

LUNENBURG COUNTY

ACCOUNTS PAYABLE EDIT COMPANY #-001 BATCH#- 673 PAGE 3
ACCOUNTING PERIOD - 2024/05

VEND. NO.	VENDOR NAME	* = DUP INVOICE NO.	G/L ACCT. NO.	INVOICE DATE	DUE DATE	GROSS AMOUNT	DESC /CLS	PO. NO.	SEQ. NO.
000692	BENCHMARK WIRING ACCOUNT	USB/2011-2/0624 1099-N USB/2011-2/0624	4420-095310-9100- Debt Service School	5/10/2024	5/17/2024	44625.00	USB/SCHL BD/DDO ACH DEBIT 000		1700
	INVOICE TOTAL					44625.00	.00	44625.00	
001181	BERNHARDT JODI POWERS	APRIL 2024 1099-N APRIL 2024	4132-012320-1711- Board of Equalization Wages	5/10/2024	5/17/2024	416.98	BOE STIPEND 000		350
	INVOICE TOTAL					416.98	.00	416.98	
001051	BETTER CABLE SYSTEMS INC.	24LUNEBRAGG 1099-N 24LUNEBRAGG	4280-053700-9010- CARES Capital Improvements	1/23/2024	5/17/2024	3132.00	911 BRAGG & OLD 000		2010
	INVOICE TOTAL					3132.00	.00	3132.00	
001183	BLUE 360 MEDIA LLC	2404228553 1099-N 2404228553	4100-022100-6001- Office Supplies	4/04/2024	5/17/2024	1951.43	LAW BOOKS 000		1970
	INVOICE TOTAL					1951.43	.00	1951.43	
000008	BMS DIRECT, INC.	205469 1099-N 205469	4100-012410-5210- Postage	4/30/2024	5/17/2024	1124.61	1ST HALF/PP 000		202
	INVOICE TOTAL					1124.61	.00	1124.61	220
000008	BMS DIRECT, INC.	205470 1099-N 205470	4100-012410-5210- Postage	4/30/2024	5/17/2024	1789.62	1ST HALF RE 000		202
	INVOICE TOTAL					1789.62	.00	1789.62	230
000010	BRIGHTSPEED	3294/APR'24 1099-N	4100-031200-5230- Telephone	5/03/2024	5/17/2024	56.07	309573294 SHERI 000		820
000010	BRIGHTSPEED	3294/APR'24 1099-N	4215-031400-5230- Telephone	5/03/2024	5/17/2024	576.48	309573294 000		830
	INVOICE TOTAL					632.55	.00	632.55	
000010	BRIGHTSPEED	6005/APR24 1099-N 6005/APR24	4100-035100-5230- Telephone	4/30/2024	5/17/2024	108.45	6005/APR'24 000		750
	INVOICE TOTAL					108.45	.00	108.45	
000371	BUG BUSTERS PEST CONT, INC	965838 1099-N 965838	4100-043200-3310- Repairs & Maintenance	5/03/2024	5/17/2024	248.00	CH COMPLEX-MAY 000		70
	INVOICE TOTAL					248.00	.00	248.00	
000746	CANON SOLUTIONS AMERICA	4040810372 1099-N 4040810372	4100-021700-3320- Maintenance Contract	4/30/2024	5/17/2024	70.86	4040810372 000		1030
	INVOICE TOTAL					70.86	.00	70.86	
000746	CANON SOLUTIONS AMERICA	4040810373 1099-N 4040810373	4100-021700-3320- Maintenance Contract	4/30/2024	5/17/2024	55.76	4040810373 000		1020
	INVOICE TOTAL					55.76	.00	55.76	
000551	CAS SEVERN, INC.	445092 1099-N 445092	4100-012510-4100- Data Processing Expenses	4/30/2024	5/17/2024	113.00	BAI SYS ASSISTA 000		30
	INVOICE TOTAL					113.00	.00	113.00	
001117	CCATT LLC	#858266/JUNE'24 1099-N #858266/JUNE'24	4215-031400-8209- Capital Lease/Outlay Equip	5/10/2024	5/17/2024	824.00	TOWER LEASE PAY 000		130
	INVOICE TOTAL					824.00	.00	824.00	

5-20-24

5-20-24



Wm. L. Edmond

AP100B 5/31/2024 LUNENBURG COUNTY
TIME-14:33:56

A/P CHECK REGISTER
Check Date - 5/31/2024

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CHECK#	VEND#	VENDOR	CLASS	DATE	AMOUNT	DISCOUNT
84946	1182	A.B. HAIR CARPETS, INC.	000	5/31/2024	2,368.25	.00
84947	179	AFLAC	000	5/31/2024	1,452.99	.00
84948	711	ALLSTATE BENEFITS	000	5/31/2024	262.28	.00
84949	177	ANTHEM BCBS	000	5/31/2024	36,096.00	.00
84950	1140	AT&T MOBILITY (2ND-ADMI	000	5/31/2024	76.48	.00
84951	134	BLACKSTONE AREA BUS SYSTE	000	5/31/2024	593.25	.00
84952	10	BRIGHTSPEED	000	5/31/2024	59.96	.00
84953	999999	CITIZENS BANK & TRUST	000	5/31/2024	43.77	.00
84954	155	COFFEES CUSTOM EMBROIDERY	000	5/31/2024	126.36	.00
84955	496	CONCISE	000	5/31/2024	232.00	.00
84956	124	CROSSROADS COMMUNITY	000	5/31/2024	2,336.55	.00
84957	1144	CRYSTAL SPRINGS	000	5/31/2024	324.56	.00
84958	119	DATA CARE, INC.	000	5/31/2024	3,204.75	.00
84959	191	DEARBORN NATIONAL LIFE	000	5/31/2024	184.59	.00
84960	46	DOMINION ENERGY VIRGINIA	000	5/31/2024	4,478.18	.00
84961	1162	ELK HILL FARM INC.	000	5/31/2024	12,690.00	.00
84962	527	ELLIOTT D. RAY	000	5/31/2024	231.82	.00
84963	30	GRAFTON SCHOOL INC	000	5/31/2024	8,054.45	.00
84964	865	GRANITE TELECOMMUNICATION	000	5/31/2024	674.96	.00
84965	1045	HANKINS MIKE	000	5/31/2024	184.25	.00
84966	751	HEALTH EQUITY	000	5/31/2024	53.10	.00
84967	294	ID NETWORKS	000	5/31/2024	5,000.00	.00
84968	1084	IRVIN'S WELL DRILLING, IN	000	5/31/2024	420.00	.00
84969	77	KENBRIDGE SUPPLY COMPANY	000	5/31/2024	20.29	.00
84970	286	KEY OFFICE SUPPLY INC	000	5/31/2024	51.64	.00
84971	651	LEGALSHIELD	000	5/31/2024	18.95	.00
84972	254	LEWIS WELDING &	000	5/31/2024	919.00	.00
84973	1119	LIFEPUSH, LLC	000	5/31/2024	675.00	.00
84974	1066	MECKLENBURG COUNTY TREASU	000	5/31/2024	155.08	.00
84975	649	MECKLENBURG ELECTRIC	000	5/31/2024	360.61	.00
84976	827	MINNESOTA LIFE INSURANCE	000	5/31/2024	110.60	.00
84977	999999	MORAN JEFF	000	5/31/2024	95.00	.00
84978	1185	NATURE VETERINARY CENTER	000	5/31/2024	103.12	.00
84979	138	PITNEY BOWES	000	5/31/2024	429.91	.00
84980	136	PITNEY BOWES BANK INC.	000	5/31/2024	3,000.00	.00
84981	1184	RICHARDS DICKIE	000	5/31/2024	154.10	.00
84982	221	ROBINSON, FARMER, COX ASSOC	000	5/31/2024	5,500.00	.00
84983	1031	SAVE OUR FUTURE INC.	000	5/31/2024	6,362.25	.00
84984	104	SECURE HAVEN	000	5/31/2024	15,930.00	.00
84985	511	SOUTHERN OFFICE MACHINES	000	5/31/2024	48.37	.00
84986	1186	SOUTHSIDE PLANNING DISTRI	000	5/31/2024	2,400.00	.00
84987	337	STEPS, INC.	000	5/31/2024	26.75	.00
84988	182	TREASURER OF VIRGINIA	000	5/31/2024	761.25	.00
84989	755	TREASURER OF VIRGINIA	000	5/31/2024	346.00	.00
84990	507	VACORP	000	5/31/2024	320.84	.00
84991	183	VALIC	000	5/31/2024	3,760.39	.00
84992	627	VERIZON WIRELESS	000	5/31/2024	824.00	.00
		CLASS TOTAL			121,521.70	.00
		ACH TOTAL			.00	
		CHECK TOTAL			121,521.70	
		EPY TOTAL			.00	
		FINAL TOTAL			121,521.70	.00

I HEREBY APPROVE THIS REGISTER FOR PAYMENT WITH EXCEPTIONS LISTED BELOW OR PREVIOUSLY DOCUMENTED.

(Over)

THE TOTAL 121,521.70- EQUALS THE WEEKLY LOG SHEET TOTALS AS ADJUSTED.

5-31-24
DATE

5-31-24

Dragmosee
COUNTY ADMINISTRATOR

Albert H. Edmonds

AP100B 5/09/2024 LUNENBURG COUNTY
TIME- 9:45:31

A/P CHECK REGISTER
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<u>CHECK#</u>	<u>VEND#</u> <u>VENDOR</u>	<u>CLASS</u>	<u>DATE</u>	<u>AMOUNT</u>	<u>DISCOUNT</u>
84868	999999 BENCHMARK COMMUNITY BANK	000	5/10/2024	506,568.22	.00
	CLASS TOTAL			506,568.22	.00
	ACH TOTAL			.00	
	CHECK TOTAL			506,568.22	
	EPY TOTAL			.00	
	FINAL TOTAL			506,568.22	.00

I HEREBY APPROVE THIS REGISTER FOR PAYMENT WITH EXCEPTIONS LISTED BELOW OR PREVIOUSLY DOCUMENTED.
THE TOTAL 506,568.22- EQUALS THE WEEKLY LOG SHEET TOTALS AS ADJUSTED.

5-10-24
DATE

Oran M. Lee
COUNTY ADMINISTRATOR

5-10-24

Albert H. Edmonds

6/07/24
FUND #-999

GL070
** Treasurer Accountability **

LUNENBURG COUNTY
BALANCE SHEET
4/30/2024

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ACCOUNT NUMBER	ACCOUNT DESCRIPTION	PREVIOUS BALANCE	DEBIT	CREDIT	ENDING BALANCE
** Treasurer Accountability **					
** Assets **					
100-0001	Cash in Office	2,000.00			2,000.00
100-0010	Petty Cash	400.00			400.00
100-0100	Benchmark Checking	11,961,079.47	2,858,753.49	3,240,030.94-	11,579,802.02
100-0102	Caprin Investment - US Bank	1,257,756.68	567.53		1,258,324.21
100-0135	Benchmark-Landfill Mitigation	481,187.84	1,212.24		482,400.08
100-0355	SNAP Account - QSCB Trane				
100-0420	SNAP Account - VPSA Series 2020B				
100-1252	Benchmark - School Food	523,460.75	25,777.01		549,237.76
100-1253	Benchmark - School Textbook				
100-1355	SNAP Account - CHS Addition				
100-1705	Benchmark - IDA	461,560.76	56.75		461,617.51
100-1800	US Bank Series 2021C VPFP Unspent	312,631.73	1,457.78		314,089.51
	** Assets **	15,000,077.23	2,887,824.80	3,240,030.94-	14,647,871.09
	TOTAL ASSETS	15,000,077.23	2,887,824.80	3,240,030.94-	14,647,871.09
** Cash Balances **					
300-0100	General Fund Cash Balance	8,557,255.82-	1,058,607.60	813,565.30-	8,312,213.52-
300-0132	Reassessment Fund Cash Balance	28,786.74	3,444.80	32,231.54-	
300-0135	Solid Waste Mgmt Cash Balance	509,389.43-	28,766.68	16,295.83-	496,918.58-
300-0136	S/W Construction Cash Balance				
300-0137	Landfill Sites Cash Balance	381,808.77-	1,955.26		379,853.51-
300-0213	Law Library Cash Balance	25,996.34-		109.30-	26,105.64-
300-0214	Asset Forfeiture Cash Balance	37,874.62-		4.73-	37,879.35-
300-0215	E911 Cash Balance	134,837.76-	24,036.36	15,768.28-	126,569.68-
300-0220	Cell Tower Cash Balance	25,914.30-			25,914.30-
300-0221	Airport Cash Balance	71,942.76	20,262.24		92,205.00
300-0225	Economic Development Cash Balance	979,819.32-	200.00		979,619.32-
300-0226	Economic Dev Grants Cash Balance	52,958.48-	1,500.00		51,458.48-
300-0250	School Cash Balance		2,165,144.71	2,165,144.71-	
300-0252	School Food Cash Balance	523,460.75-		25,777.01-	549,237.76-
300-0253	School Textbook Cash Balance	645,620.09-		12,937.12-	658,557.21-
300-0260	VPA Cash Balance				
300-0262	CSA Cash Balance		144,442.66	144,442.66-	
300-0280	CARES Act Cash Balance	690,597.78-	115,052.55	115,052.55-	
300-0316	Fire/Rescue Cash Balance	526,247.02-	4,904.61	170.83-	685,864.00-
300-0317	Project Lifesaver Cash Balance	1,761.83-	70,059.26		456,187.76-
300-0319	Voting Machine Cash Balance	4,818.59-		250.00-	2,011.83-
300-0320	Capital Outlay Cash Balance	1,538,968.05-	57,190.80	1,457.78-	4,818.59-
300-0355	School Construction Cash Balance				1,483,235.03-
300-0420	Debt Service Cash Balance				
300-0701	Special Welfare Cash Balance	1,917.02-	489.00	586.00-	2,014.02-
300-0705	IDA Cash Balance	461,560.76-		56.75-	461,617.51-
300-0715	Commonwealth Current Credit Account		16,905.10	16,905.10-	
	** Cash Balances **	15,000,077.23-	3,712,961.63	3,360,755.49-	14,647,871.09-
	TOTAL PRIOR YR FUND BALANCE	15,000,077.23-	3,712,961.63	3,360,755.49-	14,647,871.09-
TOTAL REVENUE					
TOTAL EXPENDITURE					
TOTAL CURRENT FUND BALANCE					

6/07/2024

GL060AA

LUNENBURG COUNTY
REVENUE SUMMARY
7/01/2023 - 4/30/2024

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ACCT#	DESCRIPTION	BUDGET AMOUNT	APPR. AMOUNT	CURRENT AMOUNT	Y-T-D AMOUNT	BALANCE	UNCOLLECTED
FUND #-100 ** General Fund Revenue **							
11011	** RE Taxes **	3,700,000.00	3,700,000.00	127,838.90	1,933,988.45	1,766,011.55	47.73
11020	** Public Service **	250,000.00	250,000.00	162.75-	90,165.77	159,834.23	63.93
11030	** Personal Property **	2,974,000.00	2,974,000.00	102,745.04	1,781,136.03	1,192,863.97	40.10
11040	** Machinery & Tools **	285,000.00	285,000.00	645.84	183,578.33	101,421.67	35.58
11050	** Merchant's Capital (MR) **	80,000.00	80,000.00	167.64	73,883.14	6,116.86	7.64
11060	** Penalties & Interest **	100,000.00	100,000.00	8,021.67	119,230.79	19,230.79-	19.23-
12010	** Local Sales & Use Taxes **	530,000.00	530,000.00	52,906.96	448,145.02	81,854.98	15.44
12020	** Consumer Utility Taxes **	20,000.00	20,000.00	1,968.92	18,166.72	1,833.28	9.16
12070	** Taxes on Recordation & Wills **	70,000.00	70,000.00	17,390.36	85,417.98	15,417.98-	22.02-
13010	** Animal Licenses **	6,000.00	6,000.00	880.00	4,990.00	1,010.00	16.83
13020	** Animal Fines & Kennel Fees **	5,000.00	5,000.00	1,190.00	3,929.75	1,070.25	21.40
13030	** Permits & Other Licenses **	148,000.00	148,000.00	4,729.67	46,593.82	101,406.18	68.51
13033	** Local Landfill Revenue **	525,000.00	525,000.00	222,427.11	533,840.61	8,413.50-	1.68-
14010	** Fines & Forfeitures **	25,000.00	25,000.00	3,905.89	39,322.09	14,322.09-	57.28-
14040	** Processing Fees **	500.00	500.00	67.21	666.53	166.53-	33.30-
15010	** Revenue From Use of Money **	22,000.00	22,000.00	36,614.69	353,107.19	331,107.19-	505.03-
15020	** Revenue From Use of Property **	31,700.00	31,700.00	874.79	25,674.54	6,025.46	19.00
16010	** Court Costs **	2,800.00	2,800.00	204.72	2,693.33	106.67	3.80
16020	** Charges Commonwealth Attorney *	800.00	800.00	59.43	838.83	38.83-	4.85-
18030	** Refunds **	.00	.00	701.63	15,299.16	15,299.16-	100.00-
18990	** Miscellaneous Revenue **	30,000.00	30,000.00	34,965.33	97,029.99	67,029.99-	223.43-
22010	** Non-Categorical Aid **	1,083,500.00	1,083,500.00	179.08	1,034,800.27	48,699.73	4.49
23010	** Commonwealth's Attorney **	320,000.00	320,000.00	18,513.32	198,776.82	121,223.18	37.88
23020	** Sheriff **	920,000.00	920,000.00	80,586.87	681,901.98	238,098.02	25.88
23030	** Commissioner of Revenue **	126,000.00	126,000.00	12,261.97	96,345.62	29,654.38	23.53
23040	** Treasurer **	122,000.00	122,000.00	9,542.49	86,829.07	35,170.93	28.82
23060	** Registrar **	65,000.00	65,000.00	.00	.00	65,000.00	100.00
23070	** Clerk of Circuit Court **	258,000.00	423,284.00	82,350.72	307,937.18	115,346.82	27.25
24010	** Public Safety **	175,800.00	175,800.00	7,630.74	95,191.83	80,608.17	45.85
24020	** Fire and Rescue Services **	48,000.00	48,000.00	.00	40,927.00	7,073.00	14.73
33010	** Public Safety **	386,200.00	386,200.00	.00	413,322.94	27,122.94-	7.02-
41050	** Transfers In **	313,715.00	313,715.00	.00	.00	313,715.00	100.00
49999	** Use of Fund Balance **	1,722,634.00	1,722,634.00	.00	.00	1,722,634.00	100.00
--FUND TOTAL--		14,346,649.00	14,511,933.00	829,208.24	8,813,730.78	5,698,202.22	39.26
FUND #-132 ** Reassessment Revenue **							
41050	** Transfers In **	280,000.00	280,000.00	32,231.54	167,154.78	112,845.22	40.30
--FUND TOTAL--		280,000.00	280,000.00	32,231.54	167,154.78	112,845.22	40.30
FUND #-135 ** S/W Mgmt Revenue **							
12020	** Solid Waste Mgmt **	180,000.00	180,000.00	15,083.59	135,535.95	44,464.05	24.70
24030	** Public Works **	13,000.00	13,000.00	.00	28,903.79	15,903.79-	122.33-
41050	** Transfers In **	119,300.00	119,300.00	.00	.00	119,300.00	100.00
--FUND TOTAL--		312,300.00	312,300.00	15,083.59	164,439.74	147,860.26	47.34

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LUNENBURG COUNTY
REVENUE SUMMARY
7/01/2023 - 4/30/2024

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ACCT#	DESCRIPTION	BUDGET AMOUNT	APPR. AMOUNT	CURRENT AMOUNT	Y-T-D AMOUNT	BALANCE	% UNCOLLECTED
FUND #-137 ** Landfill Sites Revenue **							
41050	** Transfers In **	114,000.00	114,000.00	.00	.00	114,000.00	100.00
	--FUND TOTAL--	114,000.00	114,000.00	.00	.00	114,000.00	100.00
FUND #-213 ** Law Library Revenue **							
16010	** Court Costs **	1,000.00	1,000.00	109.30	668.30	331.70	33.17
	--FUND TOTAL--	1,000.00	1,000.00	109.30	668.30	331.70	33.17
FUND #-214 ** Asset Forfeiture Revenue **							
15010	** Interest **	.00	.00	4.73	47.58	47.58	100.00-
24010	** Asset Forfeiture - State **	.00	.00	.00	1,205.90	1,205.90	100.00-
	--FUND TOTAL--	.00	.00	4.73	1,253.48	1,253.48	100.00-
FUND #-215 ** E911 Fund Revenue **							
22013	** Communications Tax **	193,000.00	193,000.00	15,768.28	125,443.65	67,556.35	35.00
41050	** Transfers In **	190,000.00	190,000.00	.00	.00	190,000.00	100.00
	--FUND TOTAL--	383,000.00	383,000.00	15,768.28	125,443.65	257,556.35	67.24
FUND #-221 ** Airport Fund Revenue **							
15020	** Revenue from Use of Property **	2,600.00	2,600.00	.00	2,911.78	311.78	11.99-
18990	** Miscellaneous Revenue **	25,000.00	25,000.00	.00	.00	25,000.00	100.00
24090	** Airport Grant **	872,700.00	872,700.00	.00	863,556.46	9,143.54	1.04
41050	** Transfers In **	77,100.00	77,100.00	.00	77,100.00	.00	.00
	--FUND TOTAL--	977,400.00	977,400.00	.00	943,568.24	33,831.76	3.46
FUND #-225 ** Econ Dev Revenue **							
18990	** Local Revenue **	1,573,000.00	1,573,000.00	.00	1,176,997.36	396,002.64	25.17
	--FUND TOTAL--	1,573,000.00	1,573,000.00	.00	1,176,997.36	396,002.64	25.17
FUND #-226 ** Economic Dev Grants Fund Rev **							
24090	** Tobacco Grants **	.00	.00	.00	25,000.00	25,000.00	100.00-
	--FUND TOTAL--	.00	.00	.00	25,000.00	25,000.00	100.00-
FUND #-250 ** School Fund Revenue **							
16180	** Charges for Education **	216,822.00	216,822.00	5,900.07	46,820.28	170,001.72	78.40

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GL060AA

LUNENBURG COUNTY
REVENUE SUMMARY
7/01/2023 - 4/30/2024

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ACCT#	DESCRIPTION	BUDGET AMOUNT	APPR. AMOUNT	CURRENT AMOUNT	Y-T-D AMOUNT	BALANCE	% UNCOLLECTED
24100	** Education-State **	16,495,841.00	16,495,841.00	1,674,901.06	13,278,352.81	3,217,488.19	19.50
33080	** Education-Federal **	4,468,663.00	4,468,663.00	.00	719,084.86	3,749,578.14	83.90
41050	** Transfers In **	4,811,014.00	4,811,014.00	337,268.67	5,035,501.00	224,487.00-	4.66-
	--FUND TOTAL--	25,992,340.00	25,992,340.00	2,018,069.80	19,079,758.95	6,912,581.05	26.59
FUND #-252 ** School Food Fund Revenue **							
15010	** Revenue from Use of Money **	.00	.00	1,319.05	10,994.93	10,994.93-	100.00-
16180	** Charges for Education **	.00	.00	4,215.31	74,271.58	74,271.58-	100.00-
24100	School Food State	.00	.00	1,881.60	17,034.79	17,034.79-	100.00-
33080	School Food Federal	.00	.00	145,193.31	1,030,543.29	1,030,543.29-	100.00-
	--FUND TOTAL--	.00	.00	152,609.27	1,132,844.59	1,132,844.59-	100.00-
FUND #-253 ** School Textbook Fund Revenue **							
24020	** Education-State **	.00	.00	12,937.12	120,664.74	120,664.74-	100.00-
	--FUND TOTAL--	.00	.00	12,937.12	120,664.74	120,664.74-	100.00-
FUND #-260 ** VPA Fund Revenue **							
16110	** Charges for Welfare/Soc Serv **	.00	.00	.00	574.18-	574.18	100.00-
24060	** Welfare & Social Serv-State **	588,000.00	588,000.00	43,569.92	397,403.45	190,596.55	32.41
33010	** Welfare & Social Serv - Fed **	800,000.00	800,000.00	64,027.85	598,689.98	201,310.02	25.16
41050	** Transfers In **	217,000.00	217,000.00	36,844.89	195,305.60	21,694.40	9.99
	--FUND TOTAL--	1,605,000.00	1,605,000.00	144,442.66	1,190,824.85	414,175.15	25.80
FUND #-262 ** CSA Fund Revenue **							
16110	** CSA - Local **	.00	.00	.00	970.00	970.00-	100.00-
24060	** CSA - State **	908,000.00	908,000.00	82,646.13	316,800.40	591,199.60	65.11
41050	** Transfers In **	224,000.00	224,000.00	32,406.42	126,767.45	97,232.55	43.40
	--FUND TOTAL--	1,132,000.00	1,132,000.00	115,052.55	444,537.85	687,462.15	60.72
FUND #-280 ** CARES-ARPA Fund Revenue **							
15010	Interest on Checking	.00	.00	170.83	2,201.41	2,201.41-	100.00-
33030	** CARES Act - Federal **	15,000.00	15,000.00	.00	.00	15,000.00	100.00
41050	** Transfers In **	1,127,000.00	1,127,000.00	.00	.00	1,127,000.00	100.00
	--FUND TOTAL--	1,142,000.00	1,142,000.00	170.83	2,201.41	1,139,798.59	99.80
FUND #-316 ** Revenue Emerg Services Capital**							
18990	** Miscellaneous Revenue 316 **	50,000.00	50,000.00	.00	.00	50,000.00	100.00

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ACCT#	DESCRIPTION	BUDGET AMOUNT	APPR. AMOUNT	CURRENT AMOUNT	Y-T-D AMOUNT	BALANCE	% UNCOLLECTED
41050	** Transfers In **	410,000.00	410,000.00	.00	.00	410,000.00	100.00
	--FUND TOTAL--	460,000.00	460,000.00	.00	.00	460,000.00	100.00
FUND #-317 ** Project Lifesaver Revenue **							
18990	Project Lifesaver	800.00	800.00	250.00	1,050.00	250.00-	31.25-
	--FUND TOTAL--	800.00	800.00	250.00	1,050.00	250.00-	31.25-
FUND #-319 ** Voting Machine Fund Revenue **							
41050	** Transfers In **	5,000.00	5,000.00	.00	.00	5,000.00	100.00
	--FUND TOTAL--	5,000.00	5,000.00	.00	.00	5,000.00	100.00
FUND #-320 ** Capital Outlay Revenue **							
15010	** Interest Income Bond 2021C **	.00	.00	1,457.78	53,831.45	53,831.45-	100.00-
24100	** School CIP Funds **	.00	.00	.00	1,439,108.00	1,439,108.00-	100.00-
41010	** Bond Proceeds **	1,200,000.00	1,200,000.00	.00	.00	1,200,000.00	100.00
41050	** Transfers In **	1,827,823.00	1,827,823.00	.00	.00	1,827,823.00	100.00
	--FUND TOTAL--	3,027,823.00	3,027,823.00	1,457.78	1,492,939.45	1,534,883.55	50.69
FUND #-420 ** Revenue Debt Service Fund **							
33080	** Education **	143,000.00	143,000.00	.00	71,921.35	71,078.65	49.70
41050	** Transfers In **	1,504,000.00	1,504,000.00	.00	1,014,323.44	489,676.56	32.55
	--FUND TOTAL--	1,647,000.00	1,647,000.00	.00	1,086,244.79	560,755.21	34.04
FUND #-701 ** Special Welfare Revenue **							
18030	** Charges for Social Services **	.00	.00	586.00	5,053.00	5,053.00-	100.00-
	--FUND TOTAL--	.00	.00	586.00	5,053.00	5,053.00-	100.00-
FUND #-705 ** IDA Revenue **							
15010	** Revenue from Use of Money **	.00	.00	56.75	564.98	564.98-	100.00-
	--FUND TOTAL--	.00	.00	56.75	564.98	564.98-	100.00-
FUND #-715 ** Commonwealth Fund Revenue **							
18990	** Sheriff Fees **	.00	.00	612.10	13,477.75	13,477.75-	100.00-
24000	** Estimated Taxes **	.00	.00	13,088.00	48,540.00	48,540.00-	100.00-

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ACCT#	DESCRIPTION	BUDGET AMOUNT	APPR. AMOUNT	CURRENT AMOUNT	Y-T-D AMOUNT	BALANCE	% UNCOLLECTED
25000	** State Income Taxes **	.00	.00	3,205.00	4,931.00	4,931.00-	100.00-
	--FUND TOTAL--	.00	.00	16,905.10	66,948.75	66,948.75-	100.00-
	--FINAL TOTAL--	52,999,312.00	53,164,596.00	3,354,943.54	36,041,889.69	17,122,706.31	32.20

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ACCT#	DESCRIPTION	BUDGET AMOUNT	APPR. AMOUNT	CURRENT AMOUNT	Y-T-D AMOUNT	ENCUMBRANCE AMOUNT	UNENCUMBERED BALANCE	% REMAINING
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FUND #-100 ** General Fund Expense **								
11100	** Board of Supervisors **	55,070.00	55,070.00	4,092.54	46,641.05	.00	8,428.95	15.30
12100	** County Administration **	325,000.00	325,000.00	27,059.89	267,592.58	.00	57,407.42	17.66
12210	** Professional Services **	130,000.00	130,000.00	6,389.50	146,501.74	.00	16,501.74	12.69
12310	** Commissioner of Revenue **	254,100.00	254,100.00	22,016.99	221,988.54	.00	32,111.46	12.63
12410	** Treasurer **	271,000.00	271,000.00	20,576.52	227,146.07	.00	43,853.93	16.18
12510	** Data Processing **	82,000.00	82,000.00	3,292.22	135,205.60	.00	53,205.60	64.88
13100	** Electoral Board **	72,100.00	72,100.00	2,352.92	93,432.92	.00	21,332.92	29.58
13200	** Registrar **	157,750.00	157,750.00	13,889.16	152,066.69	.00	5,683.31	3.60
21100	** Circuit Court **	12,000.00	12,000.00	165.50	835.58	.00	11,164.42	93.03
21200	** General District Court **	2,500.00	2,500.00	286.51	2,018.02	.00	481.98	19.27
21300	** Magistrate **	1,550.00	1,550.00	150.36	1,215.16	.00	334.84	21.60
21600	** Juvenile/Domestic Court **	108,550.00	108,550.00	8,320.36	86,694.61	.00	21,855.39	20.13
21700	** Clerk of Circuit Court **	361,000.00	361,000.00	29,464.02	303,570.09	.00	57,429.91	15.90
21710	** Library of VA Grant **	.00	54,558.00	.00	54,558.00	.00	.00	.00
21752	** Clerk Technology Trust Funds **	.00	110,726.00	14,180.80	81,497.16	.00	29,228.84	26.39
21800	** Courthouse Security **	21,600.00	21,600.00	2,354.64	15,861.14	.00	5,738.86	26.56
21910	** Victim/Witness Coordinator **	69,350.00	69,350.00	6,549.11	58,842.35	.00	10,507.65	15.15
22100	** Commonwealth Attorney **	406,600.00	406,600.00	23,092.36	264,668.95	.00	141,931.05	34.90
31200	** Sheriff & Law Enforcement **	1,986,800.00	1,986,800.00	142,766.67	1,570,634.60	.00	416,165.40	20.94
32400	** Fire & Rescue Appropriations **	332,100.00	332,100.00	48,125.00	263,670.26	.00	68,429.74	20.60
33200	** Piedmont Regional Jail **	897,000.00	897,000.00	121,188.80	893,868.54	.00	3,131.46	.34
34000	** Building Official **	109,220.00	109,220.00	8,978.15	90,114.79	.00	19,105.21	17.49
35100	** Animal Control **	156,770.00	156,770.00	11,842.63	140,772.25	.00	15,997.75	10.20
43200	** Buildings & Grounds	256,700.00	256,700.00	17,569.25	222,373.59	.00	34,326.41	13.37
51200	** Health Dept Appropriation **	98,500.00	98,500.00	.00	85,066.00	.00	13,434.00	13.63
51500	** Medical Examiner **	200.00	200.00	20.00	100.00	.00	100.00	50.00
52500	** Crossroads CSB Appropriation **	57,700.00	57,700.00	.00	43,227.75	.00	14,472.25	25.08
53600	** Madeline's House **	3,000.00	3,000.00	.00	3,000.00	.00	.00	.00
81100	** Planning **	35,700.00	35,700.00	6,457.17	42,215.43	.00	6,515.43	18.25
81110	** Conditional Use Permits **	5,000.00	5,000.00	772.10	4,784.65	.00	215.35	4.30
81200	** Community Development **	302,230.00	302,230.00	55,309.18	305,763.40	.00	3,533.40	1.16
81500	** Econ/Community Development **	93,220.00	93,220.00	7,060.72	75,832.22	.00	17,387.78	18.65
81600	** Industrial Dev. Authority **	50,000.00	50,000.00	.00	.00	.00	50,000.00	100.00
83000	** Cooperative Extension **	55,510.00	55,510.00	430.00	22,983.31	.00	32,526.69	58.59
91001	** Fringe Benefits **	77,000.00	77,000.00	520.70	77,007.50	.00	7.50	.00
91489	** DMV Stops Expense **	25,000.00	25,000.00	3,900.00	27,275.00	.00	2,275.00	9.10
94000	** Capital Improvements **	155,000.00	155,000.00	.00	2,300.90	.00	152,699.10	98.51
99000	** Transfers To Other Funds **	7,319,829.00	7,319,829.00	438,751.52	6,616,152.27	.00	703,676.73	9.61
--FUND TOTAL--		14,346,649.00	14,511,933.00	1,047,925.29	12,647,478.71	.00	1,864,454.29	12.84
FUND #-132 ** Reassessment Expense **								
12320	Board of Equalization Wages	280,000.00	280,000.00	3,444.80	270,815.60	.00	9,184.40	3.28
--FUND TOTAL--		280,000.00	280,000.00	3,444.80	270,815.60	.00	9,184.40	3.28

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ACCT#	DESCRIPTION	BUDGET AMOUNT	APPR. AMOUNT	CURRENT AMOUNT	Y-T-D AMOUNT	ENCUMBRANCE AMOUNT	UNENCUMBERED BALANCE	% REMAINING
FUND #-135 ** S/W Mgmt Expense **								
40423	** Solid Waste Collection **	312,300.00	312,300.00	28,689.92	282,535.62	.00	29,764.38	9.53
	--FUND TOTAL--	312,300.00	312,300.00	28,689.92	282,535.62	.00	29,764.38	9.53
FUND #-137 ** Landfill Expenses **								
40427	** Landfill Sites Expense **	114,000.00	114,000.00	1,955.26	20,439.50	.00	93,560.50	82.07
	--FUND TOTAL--	114,000.00	114,000.00	1,955.26	20,439.50	.00	93,560.50	82.07
FUND #-213 ** Law Library Expense **								
21900	** Expenses **	1,000.00	1,000.00	.00	.00	.00	1,000.00	100.00
	--FUND TOTAL--	1,000.00	1,000.00	.00	.00	.00	1,000.00	100.00
FUND #-214 ** Asset Forfeiture Expense **								
91400	** Asset Forfeiture **	.00	.00	.00	3,333.00	.00	3,333.00-	100.00-
	--FUND TOTAL--	.00	.00	.00	3,333.00	.00	3,333.00-	100.00-
FUND #-215 ** 911 & E911 Expense **								
31400	** 911 & E911 Expenditures **	155,000.00	155,000.00	24,025.16	138,587.97	.00	16,412.03	10.58
31410	Radio System - LUIS	228,000.00	228,000.00	.00	.00	.00	228,000.00	100.00
	--FUND TOTAL--	383,000.00	383,000.00	24,025.16	138,587.97	.00	244,412.03	63.81
FUND #-220 ** Cell Tower Expense **								
81110	Wireless Ecrow Expense	.00	.00	.00	2,500.00	.00	2,500.00-	100.00-
	--FUND TOTAL--	.00	.00	.00	2,500.00	.00	2,500.00-	100.00-
FUND #-221 ** Airport Fund Expense **								
40740	** Airport **	977,400.00	977,400.00	20,230.29	1,035,172.72	.00	57,772.72-	5.91-
	--FUND TOTAL--	977,400.00	977,400.00	20,230.29	1,035,172.72	.00	57,772.72-	5.91-
FUND #-225 ** Economic Dev Expenses **								
81000	** Econ Dev Expense Local **	1,023,000.00	1,023,000.00	200.00	198,531.50	.00	824,468.50	80.59
81110	** Solar Escrow - Expense **	450,000.00	450,000.00	.00	.00	.00	450,000.00	100.00
99000	** Transfers To Other Funds **	100,000.00	100,000.00	.00	.00	.00	100,000.00	100.00
	--FUND TOTAL--	1,573,000.00	1,573,000.00	200.00	198,531.50	.00	1,374,468.50	87.37

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FUND #-226 ** Econ Dev Grants Expenditures **								
81543	Sitework - C2C TROF	.00	.00	.00	25,000.00	.00	25,000.00-	100.00-
81553	** Tourism Funds **	.00	.00	1,500.00	1,750.00	.00	1,750.00-	100.00-
81570	** State Grants-Other **	.00	.00	.00	8,682.21	.00	8,682.21-	100.00-
--FUND TOTAL--		.00	.00	1,500.00	35,432.21	.00	35,432.21-	100.00-
FUND #-250 ** School Expenses **								
61000	Instruction	17,909,319.00	17,909,319.00	1,553,835.84	12,747,012.40	.00	5,162,306.60	28.82
62000	Administration	1,169,169.00	1,169,169.00	116,994.82	1,115,784.08	.00	53,384.92	4.56
63000	Transportation	1,483,556.00	1,483,556.00	162,375.54	1,155,510.13	.00	328,045.87	22.11
64000	Operations & Maintenance	3,109,921.00	3,109,921.00	138,210.54	1,546,735.34	.00	1,563,185.66	50.26
68000	School Technology	968,292.00	968,292.00	46,653.06	676,684.20	.00	291,607.80	30.11
99000	** Transfers to Other Funds **	1,352,083.00	1,352,083.00	.00	.00	.00	1,352,083.00	100.00
--FUND TOTAL--		25,992,340.00	25,992,340.00	2,018,069.80	17,241,726.15	.00	8,750,613.85	33.66
FUND #-252 ** School Food Fund Expense **								
65100	School Food Expenditures	.00	.00	126,832.26	1,224,765.54	.00	1,224,765.54-	100.00-
--FUND TOTAL--		.00	.00	126,832.26	1,224,765.54	.00	1,224,765.54-	100.00-
FUND #-260 ** VPA Expenses **								
11000	Disbursements-State & Federal	527,000.00	527,000.00	66,284.24	456,284.38	.00	70,715.62	13.41
50000	** BASE **	1,078,000.00	1,078,000.00	78,178.19	842,925.08	.00	235,074.92	21.80
--FUND TOTAL--		1,605,000.00	1,605,000.00	144,462.43	1,299,209.46	.00	305,790.54	19.05
FUND #-262 ** CSA Expenses **								
53500	** CSA Fund Expense **	1,120,000.00	1,120,000.00	115,052.55	800,924.55	.00	319,075.45	28.48
99000	** Transfers To Other Funds **	12,000.00	12,000.00	.00	.00	.00	12,000.00	100.00
--FUND TOTAL--		1,132,000.00	1,132,000.00	115,052.55	800,924.55	.00	331,075.45	29.24
FUND #-280 ** CARES-ARPA Fund **								
53900	** ARPA Fund Expenses **	1,142,000.00	1,142,000.00	4,904.61	410,200.43	.00	731,799.57	64.08
--FUND TOTAL--		1,142,000.00	1,142,000.00	4,904.61	410,200.43	.00	731,799.57	64.08
FUND #-316 ** Emerg Services CapitalExpense **								
32400	** Emerg Services Capital Fund **	460,000.00	460,000.00	70,059.26	342,325.28	.00	117,674.72	25.58
--FUND TOTAL--		460,000.00	460,000.00	70,059.26	342,325.28	.00	117,674.72	25.58

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FUND #-317 ** Project Lifesaver Expenses **								
35700	Equipment Project Lifesaver	800.00	800.00	.00	1,084.26	.00	284.26-	35.53-
	--FUND TOTAL--	800.00	800.00	.00	1,084.26	.00	284.26-	35.53-
FUND #-319 ** Voting Machine Fund Expenses **								
94440	** Voting Machine Fund **	5,000.00	5,000.00	.00	.00	.00	5,000.00	100.00
	--FUND TOTAL--	5,000.00	5,000.00	.00	.00	.00	5,000.00	100.00
FUND #-320 ** Capital Outlay Courthouse **								
94370	** Capital Outlay Courthouse **	1,752,823.00	1,752,823.00	.00	.00	.00	1,752,823.00	100.00
94372	** Capital Outlay Radio System **	1,275,000.00	1,275,000.00	57,190.80	1,799,497.48	.00	524,497.48-	41.13-
	--FUND TOTAL--	3,027,823.00	3,027,823.00	57,190.80	1,799,497.48	.00	1,228,325.52	40.56
FUND #-420 ** Debt Service Fund **								
95300	** Debt Service County **	662,600.00	662,600.00	.00	513,501.36	.00	149,098.64	22.50
95310	** Debt Service School **	984,400.00	984,400.00	.00	972,743.43	.00	11,656.57	1.18
	--FUND TOTAL--	1,647,000.00	1,647,000.00	.00	1,486,244.79	.00	160,755.21	9.76
FUND #-701 ** Special Welfare Expenses **								
10000	** Special Welfare Expenses **	.00	.00	489.00	8,790.00	.00	8,790.00-	100.00-
	--FUND TOTAL--	.00	.00	489.00	8,790.00	.00	8,790.00-	100.00-
FUND #-705 ** IDA Fund Expense **								
81600	** Industrial Dev Authority **	.00	.00	.00	1,456.00	.00	1,456.00-	100.00-
	--FUND TOTAL--	.00	.00	.00	1,456.00	.00	1,456.00-	100.00-
FUND #-715 ** Commonwealth Fund Expense **								
91900	** Remittances to Commonwealth **	.00	.00	16,905.10	66,948.75	.00	66,948.75-	100.00-
	--FUND TOTAL--	.00	.00	16,905.10	66,948.75	.00	66,948.75-	100.00-
	--FINAL TOTAL--	52,999,312.00	53,164,596.00	3,681,936.53	39,317,999.52	.00	13,846,596.48	26.04

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DEPT	H CLS	TAXES	PPTRA	ABATEMENTS	NET TAX	PAYMENTS	OTHER ADJS	NET PAYMENTS	NET A/R	%COLLECTED
RE2011	1	3179753.87		3800.96-	3175952.91	3129494.34-	44417.73-	3173912.07-	2040.84	99.94
	1 RE	32.40			32.40	32.40-		32.40-		100.00
HALF	TOTALS=	3179786.27		3800.96-	3175985.31	3129526.74-	44417.73-	3173944.47-	2040.84	99.94
DEPT	TOTALS=	3179786.27		3800.96-	3175985.31	3129526.74-	44417.73-	3173944.47-	2040.84	99.94
RE2012	1 RE	1600051.66		3723.20-	1596328.46	1586326.91-	9145.60-	1595472.51-	855.95	99.95
HALF	TOTALS=	1600051.66		3723.20-	1596328.46	1586326.91-	9145.60-	1595472.51-	855.95	99.95
	2 R2	1604714.92		7058.53-	1597656.39	1596110.59-	664.60-	1596775.19-	881.20	99.94
HALF	TOTALS=	1604714.92		7058.53-	1597656.39	1596110.59-	664.60-	1596775.19-	881.20	99.94
DEPT	TOTALS=	3204766.58		10781.73-	3193984.85	3182437.50-	9810.20-	3192247.70-	1737.15	99.95
RE2013	1 RE	1615975.85		7699.54-	1608276.31	1592621.81-	14772.52-	1607394.33-	881.98	99.95
HALF	TOTALS=	1615975.85		7699.54-	1608276.31	1592621.81-	14772.52-	1607394.33-	881.98	99.95
	2 R2	1615710.67		8946.15-	1606764.52	1604225.37-	1657.17-	1605882.54-	881.98	99.95
HALF	TOTALS=	1615710.67		8946.15-	1606764.52	1604225.37-	1657.17-	1605882.54-	881.98	99.95
DEPT	TOTALS=	3231686.52		16645.69-	3215040.83	3196847.18-	16429.69-	3213276.87-	1763.96	99.95
RE2014	1 RE	1621662.15		5116.59-	1616545.56	1603414.94-	12248.64-	1615663.58-	881.98	99.95
HALF	TOTALS=	1621662.15		5116.59-	1616545.56	1603414.94-	12248.64-	1615663.58-	881.98	99.95
	2 R2	1617319.15		6554.45-	1610764.70	1608608.40-	1274.32-	1609882.72-	881.98	99.95
HALF	TOTALS=	1617319.15		6554.45-	1610764.70	1608608.40-	1274.32-	1609882.72-	881.98	99.95
DEPT	TOTALS=	3238981.30		11671.04-	3227310.26	3212023.34-	13522.96-	3225546.30-	1763.96	99.95
RE2015	1 RE	1632536.00		4215.42-	1628320.58	1615478.21-	11916.69-	1627394.90-	925.68	99.94
HALF	TOTALS=	1632536.00		4215.42-	1628320.58	1615478.21-	11916.69-	1627394.90-	925.68	99.94
	2 R2	1624504.36		4838.43-	1619665.93	1616581.01-	2122.45-	1618703.46-	962.47	99.94
HALF	TOTALS=	1624504.36		4838.43-	1619665.93	1616581.01-	2122.45-	1618703.46-	962.47	99.94
DEPT	TOTALS=	3257040.36		9053.85-	3247986.51	3232059.22-	14039.14-	3246098.36-	1888.15	99.94
RE2016	1 RE	1639263.91		5470.26-	1633793.65	1617591.18-	15226.44-	1632817.62-	976.03	99.94
HALF	TOTALS=	1639263.91		5470.26-	1633793.65	1617591.18-	15226.44-	1632817.62-	976.03	99.94
	2 R2	1630250.23		6521.55-	1623728.68	1620218.48-	2534.17-	1622752.65-	976.03	99.94
HALF	TOTALS=	1630250.23		6521.55-	1623728.68	1620218.48-	2534.17-	1622752.65-	976.03	99.94
DEPT	TOTALS=	3269514.14		11991.81-	3257522.33	3237809.66-	17760.61-	3255570.27-	1952.06	99.94
RE2017	1 RE	1643831.43		3776.88-	1640054.55	1626266.22-	12773.17-	1639039.39-	1015.16	99.94
HALF	TOTALS=	1643831.43		3776.88-	1640054.55	1626266.22-	12773.17-	1639039.39-	1015.16	99.94
	2 R2	1643267.95		5328.57-	1637939.38	1635062.22-	1852.30-	1636914.52-	1024.86	99.94
HALF	TOTALS=	1643267.95		5328.57-	1637939.38	1635062.22-	1852.30-	1636914.52-	1024.86	99.94
DEPT	TOTALS=	3287099.38		9105.45-	3277993.93	3261328.44-	14625.47-	3275953.91-	2040.02	99.94

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DEPT	H CLS	TAXES	PPTRA	ABATEMENTS	NET TAX	PAYMENTS	OTHER ADJS	NET PAYMENTS	NET A/R	%COLLECTED	
RE2018 1 RE		1753438.49		4763.99-	1748674.50	1737727.45-	9659.96-	1747387.41-	1287.09	99.93	
HALF TOTALS=		1753438.49		4763.99-	1748674.50	1737727.45-	9659.96-	1747387.41-	1287.09	99.93	
2 R2		1746313.47		6741.25-	1739572.22	1735524.03-	2737.57-	1738261.60-	1310.62	99.92	
HALF TOTALS=		1746313.47		6741.25-	1739572.22	1735524.03-	2737.57-	1738261.60-	1310.62	99.92	
DEPT TOTALS=		3499751.96		11505.24-	3488246.72	3473251.48-	12397.53-	3485649.01-	2597.71	99.93	
RE2019 1 RE		1759888.01		2476.79-	1757411.22	1743837.43-	11932.76-	1755770.19-	1641.03	99.91	
HALF TOTALS=		1759888.01		2476.79-	1757411.22	1743837.43-	11932.76-	1755770.19-	1641.03	99.91	
2 R2		1748764.37		3984.63-	1744779.74	1740326.47-	2590.88-	1742917.35-	1862.39	99.89	
HALF TOTALS=		1748764.37		3984.63-	1744779.74	1740326.47-	2590.88-	1742917.35-	1862.39	99.89	
DEPT TOTALS=		3508652.38		6461.42-	3502190.96	3484163.90-	14523.64-	3498687.54-	3503.42	99.90	
RE2020 1 RE		1767805.92		2178.66-	1765627.26	1745611.65-	16937.40-	1762549.05-	3078.21	99.83	
HALF TOTALS=		1767805.92		2178.66-	1765627.26	1745611.65-	16937.40-	1762549.05-	3078.21	99.83	
2 R2		1762276.34		3120.86-	1759155.48	1752987.37-	2902.20-	1755889.57-	3265.91	99.81	
HALF TOTALS=		1762276.34		3120.86-	1759155.48	1752987.37-	2902.20-	1755889.57-	3265.91	99.81	
DEPT TOTALS=		3530082.26		5299.52-	3524782.74	3498599.02-	19839.60-	3518438.62-	6344.12	99.82	
RE2021 1 RE		1788877.00		1683.36-	1787193.64	1767584.54-	14747.55-	1782332.09-	4861.55	99.73	
HALF TOTALS=		1788877.00		1683.36-	1787193.64	1767584.54-	14747.55-	1782332.09-	4861.55	99.73	
2 R2		1773150.70		1692.90-	1771457.80	1761720.78-	4148.41-	1765869.19-	5588.61	99.68	
HALF TOTALS=		1773150.70		1692.90-	1771457.80	1761720.78-	4148.41-	1765869.19-	5588.61	99.68	
DEPT TOTALS=		3562027.70		3376.26-	3558651.44	3529305.32-	18895.96-	3548201.28-	10450.16	99.71	
RE2022 1 RE		1800051.28		1867.99-	1798183.29	1775711.33-	13744.39-	1789455.72-	8727.57	99.51	
HALF TOTALS=		1800051.28		1867.99-	1798183.29	1775711.33-	13744.39-	1789455.72-	8727.57	99.51	
2 R2		1792704.36		4085.09-	1788619.27	1773377.48-	2960.45-	1776337.93-	12281.34	99.31	
HALF TOTALS=		1792704.36		4085.09-	1788619.27	1773377.48-	2960.45-	1776337.93-	12281.34	99.31	
DEPT TOTALS=		3592755.64		5953.08-	3586802.56	3549088.81-	16704.84-	3565793.65-	21008.91	99.41	
RE2023 1											
1 RE		1806101.06		3912.79-	1802188.27	1758320.85-	19362.12-	1777682.97-	24505.30	98.64	
HALF TOTALS=		1806101.06		3912.79-	1802188.27	1758320.85-	19362.12-	1777682.97-	24505.30	98.64	
2 R2		1804407.96		5736.02-	1798671.94	1755310.23-	4958.33-	1760268.56-	38403.38	97.86	
HALF TOTALS=		1804407.96		5736.02-	1798671.94	1755310.23-	4958.33-	1760268.56-	38403.38	97.86	
DEPT TOTALS=		3610509.02		9648.81-	3600860.21	3513631.08-	24320.45-	3537951.53-	62908.68	98.25	
RE2024 1 RE		1983889.84		2352.29-	1981537.55	1173591.31-	15924.23-	1189515.54-	792022.01	60.03	
HALF TOTALS=		1983889.84		2352.29-	1981537.55	1173591.31-	15924.23-	1189515.54-	792022.01	60.03	
2 R2		1983889.84		2483.09-	1981406.75	155035.68-	4013.16-	159048.84-	1822357.91	8.03	
HALF TOTALS=		1983889.84		2483.09-	1981406.75	155035.68-	4013.16-	159048.84-	1822357.91	8.03	
DEPT TOTALS=		3967779.68		4835.38-	3962944.30	1328626.99-	19937.39-	1348564.38-	2614379.92	34.03	
RE TOTALS =		47940433.19		120130.24-	47820302.95	44828698.68-	257225.21-	45085923.89-	2734379.06	94.28	

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DEPT	H	CLS	TAXES	PPTRA	ABATEMENTS	NET TAX	PAYMENTS	OTHER ADJS	NET PAYMENTS	NET A/R	%COLLECTED
COMP TOTALS=			47940433.19		120130.24-	47820302.95	44828698.68-	257225.21-	45085923.89-	2734379.06	94.28

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DEPT	H	CLS	TAXES	PPTRA	ABATEMENTS	NET TAX	PAYMENTS	OTHER ADJS	NET PAYMENTS	NET A/R	*COLLECTED
PP2019	1	MH	11713.18		62.36-	11650.82	11381.84-	104.75-	11486.59-	164.23	98.59
	1	MR	84830.33		20138.00-	64692.33	62197.11-	26.49-	62223.60-	2468.73	96.18
	1	MT	206262.74		12297.51-	193965.23	183207.52-	50.01-	183257.53-	10707.70	94.48
	1	PP	1817878.69	528545.97-	109783.61-	1179549.11	1155390.25-	6419.54-	1161809.79-	17739.32	98.50
	1	VL	252145.00		15490.00-	236655.00	232688.40-	688.28-	233376.68-	3278.32	98.61
	1	XX	511.35		128.10-	383.25	383.25-		383.25-		100.00
HALF TOTALS=			2373341.29	528545.97-	157899.58-	1686895.74	1645248.37-	7289.07-	1652537.44-	34358.30	97.96
	2	H2	11687.90		62.36-	11625.54	11448.31-	11.10-	11459.41-	166.13	98.57
	2	P2	1789666.93	521429.10-	108249.77-	1159988.06	1140196.55-	974.34-	1141170.89-	18817.17	98.38
	2	R2	44973.25		101.48-	44871.77	42379.05-		42379.05-	2492.72	94.44
	2	T2	166085.20		12297.49-	153787.71	143080.03-		143080.03-	10707.68	93.04
	2	X2	511.35		128.10-	383.25	383.25-		383.25-		100.00
HALF TOTALS=			2012924.63	521429.10-	120839.20-	1370656.33	1337487.19-	985.44-	1338472.63-	32183.70	97.65
DEPT TOTALS=			4386265.92	1049975.07-	278738.78-	3057552.07	2982735.56-	8274.51-	2991010.07-	66542.00	97.82
PP2020	1	MH	11631.06		36.29-	11594.77	11324.49-	94.84-	11419.33-	175.44	98.49
	1	MR	49968.66		418.45-	49550.21	49496.50-	41.71-	49538.21-	12.00	99.98
	1	MT	176473.48		4726.09-	171747.39	169672.96-	456.17-	170129.13-	1618.26	99.06
	1	PP	1781827.49	530343.90-	50626.23-	1200857.36	1174968.23-	9590.84-	1184559.07-	16298.29	98.64
	1	VL	260855.00		18300.00-	242555.00	238657.56-	302.90-	238960.46-	3594.54	98.52
	1	XX	14327.25		13944.00-	383.25	383.25-		383.25-		100.00
HALF TOTALS=			2295082.94	530343.90-	88051.06-	1676687.98	1644502.99-	10486.46-	1654989.45-	21698.53	98.71
	2	H2	11630.86		36.29-	11594.57	11384.18-	28.55-	11412.73-	181.84	98.43
	2	P2	1748453.22	524329.43-	44916.12-	1179207.67	1157541.94-	4237.24-	1161779.18-	17428.49	98.52
	2	R2	49872.42		473.17-	49399.25	49345.56-	41.69-	49387.25-	12.00	99.98
	2	T2	126685.04		4726.08-	121958.96	120328.56-	12.15-	120340.71-	1618.25	98.67
	2	X2	383.25			383.25	383.25-		383.25-		100.00
HALF TOTALS=			1937024.79	524329.43-	50151.66-	1362543.70	1338983.49-	4319.63-	1343303.12-	19240.58	98.59
DEPT TOTALS=			4232107.73	1054673.33-	138202.72-	3039231.68	2983486.48-	14806.09-	2998292.57-	40939.11	98.65
PP2021	1	MH	11671.68		19.57-	11652.11	10957.79-	414.38-	11372.17-	279.94	97.60
	1	MR	49485.22		184.09-	49301.13	49236.30-	64.23-	49300.53-	.60	100.00
	1	MT	207826.04		11907.83-	195918.21	185496.24-	9139.23-	194635.47-	1282.74	99.35
	1	PP	1946268.85	540773.76-	34798.27-	1370696.82	1337661.66-	12396.47-	1350058.13-	20638.69	98.49
	1	VL	220695.00		2755.00-	217940.00	213689.17-	1647.79-	215336.96-	2603.04	98.81
	1	XX	13996.50		13944.00-	52.50	52.50-		52.50-		100.00
HALF TOTALS=			2449943.29	540773.76-	63608.76-	1845560.77	1797093.66-	23662.10-	1820755.76-	24805.01	98.66
	2	H2	11671.48		19.57-	11651.91	11289.37-	67.97-	11357.34-	294.57	97.47
	2	P2	1902125.05	534137.45-	30135.37-	1337852.23	1309227.41-	1625.46-	1310852.87-	26999.36	97.98
	2	R2	49449.06		184.09-	49264.97	49240.18-	24.00-	49264.18-	.79	100.00
	2	T2	180933.59		11907.83-	169025.76	168854.51-	1111.48	167743.03-	1282.73	99.24
	2	X2	52.50			52.50	52.50-		52.50-		100.00
HALF TOTALS=			2144231.68	534137.45-	42246.86-	1567847.37	1538663.97-	605.95-	1539269.92-	28577.45	98.18
DEPT TOTALS=			4594174.97	1074911.21-	105855.62-	3413408.14	3335757.63-	24268.05-	3360025.68-	53382.46	98.44
PP2022	1	LE	44481.26			44481.26	44481.26-		44481.26-		100.00
	1	MH	11955.20		44.27-	11910.93	11448.68-	137.42-	11586.10-	324.83	97.27
	1	MR	77929.66		79.73-	77849.93	77745.34-	28.99-	77774.33-	75.60	99.90

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DEPT	H CLS	TAXES	PPTRA	ABATEMENTS	NET TAX	PAYMENTS	OTHER ADJS	NET PAYMENTS	NET A/R	%COLLECTED
PP2022	1 MT	146948.32		5700.94-	141247.38	139233.82-	399.72-	139633.54-	1613.84	98.86
	1 PP	2128707.23	554329.02-	57480.23-	1516897.98	1474370.69-	4929.21-	1479299.90-	37598.08	97.52
	1 VL	223055.00		2550.00-	220505.00	216144.90-	364.08-	216508.98-	3996.02	98.19
	1 XX	7607.25		7213.50-	393.75	183.75-		183.75-	210.00	46.67
HALF	TOTALS=	2640683.92	554329.02-	73068.67-	2013286.23	1963608.44-	5859.42-	1969467.86-	43818.37	97.82
	2 H2	11940.56		44.27-	11896.29	11507.69-	62.80-	11570.49-	325.80	97.26
	2 L2	29441.77			29441.77	29212.62-		29212.62-	229.15	99.22
	2 P2	2097738.58	549308.39-	58312.54-	1490117.65	1443914.74-	3381.82-	1447296.56-	42821.09	97.13
	2 R2	52945.54		79.73-	52865.81	52727.10-	28.99-	52756.09-	109.72	99.79
	2 T2	143729.64		5700.94-	138028.70	136400.47-		136400.47-	1628.23	98.82
	2 X2	7607.25		7213.50-	393.75	183.75-		183.75-	210.00	46.67
HALF	TOTALS=	2343403.34	549308.39-	71350.98-	1722743.97	1673946.37-	3473.61-	1677419.98-	45323.99	97.37
DEPT	TOTALS=	4984087.26	1103637.41-	144419.65-	3736030.20	3637554.81-	9333.03-	3646887.84-	89142.36	97.61
PP2023	1 LE	20420.35			20420.35	19924.23-		19924.23-	496.12	97.57
	1 MH	12100.93		21.85-	12079.08	11397.06-	103.20-	11500.26-	578.82	95.21
	1 MR	72581.74		17.12-	72564.62	71496.61-	1028.22-	72524.83-	39.79	99.95
	1 MT	140366.49		4287.85-	136078.64	134202.82-	951.07-	135153.89-	924.75	99.32
	1 PP	2189570.70	529591.37-	51579.43-	1608399.90	1534079.19-	9432.02-	1543511.21-	64888.69	95.97
	1 VL	218910.00		2225.00-	216685.00	208924.86-	779.68-	209704.54-	6980.46	96.78
	1 XX	52.50			52.50	52.50-		52.50-		100.00
HALF	TOTALS=	2654002.71	529591.37-	58131.25-	2066280.09	1980077.27-	12294.19-	1992371.46-	73908.63	96.42
	2 H2	12100.69		21.85-	12078.84	11213.64-	22.99-	11236.63-	842.21	93.03
	2 L2	20420.30			20420.30	19924.18-		19924.18-	496.12	97.57
	2 P2	2175793.23	526341.27-	52565.44-	1596886.52	1494092.84-	2346.81-	1496439.65-	100446.87	93.71
	2 R2	72557.54		17.12-	72540.42	71817.27-	146.96-	71964.23-	576.19	99.21
	2 T2	140366.22		4287.85-	136078.37	135134.23-		135134.23-	944.14	99.31
	2 X2	52.50			52.50	52.50-		52.50-		100.00
HALF	TOTALS=	2421290.48	526341.27-	56892.26-	1838056.95	1732234.66-	2516.76-	1734751.42-	103305.53	94.38
DEPT	TOTALS=	5075293.19	1055932.64-	115023.51-	3904337.04	3712311.93-	14810.95-	3727122.88-	177214.16	95.46
PP2024	1 MH	11304.16		12.28-	11291.88	5936.23-	69.15-	6005.38-	5286.50	53.18
	1 MR	74481.70		3.00-	74478.70	48153.53-	24.84-	48178.37-	26300.33	64.69
	1 MT	142388.69		299.54-	142089.15	27946.27-	552.73-	28499.00-	113590.15	20.06
	1 PP	2119378.03	527662.62-	13309.76-	1578405.65	632779.62-	11889.00-	644668.62-	933737.03	40.84
	1 VL	223165.00		990.00-	222175.00	92755.85-	751.68-	93507.53-	128667.47	42.09
	1 XX	52.50			52.50	52.50-		52.50-		100.00
HALF	TOTALS=	2570770.08	527662.62-	14614.58-	2028492.88	807624.00-	13287.40-	820911.40-	1207581.48	40.47
	2 H2	11300.64		12.27-	11288.37	1437.57-		1437.57-	9850.80	12.73
	2 P2	2119280.54	527623.87-	13321.83-	1578334.84	108500.11-		108500.11-	1469834.73	6.87
	2 R2	74481.55		3.00-	74478.55	2442.78-		2442.78-	72035.77	3.28
	2 T2	142388.56		299.54-	142089.02	1257.66-		1257.66-	140831.36	.89
	2 X2	52.50			52.50	52.50-		52.50-		100.00
HALF	TOTALS=	2347503.79	527623.87-	13636.64-	1806243.28	113690.62-		113690.62-	1692552.66	6.29
DEPT	TOTALS=	4918273.87	1055286.49-	28251.22-	3834736.16	921314.62-	13287.40-	934602.02-	2900134.14	24.37
PP	TOTALS =	28190202.94	6394416.15-	810491.50-	20985295.29	17573161.03-	84780.03-	17657941.06-	3327354.23	84.14

6/07/2024
8:07:32

-TREASURER TAX COLLECTION RATE SCHEDULE REPORT-
THRU 5/31/2024

PAGE 3
TR712

DEPT	H	CLS	TAXES	PPTRA	ABATEMENTS	NET TAX	PAYMENTS	OTHER ADJS	NET PAYMENTS	NET A/R	%COLLECTED
COMP TOTALS=			28190202.94	6394416.15-	810491.50-	20985295.29	17573161.03-	84780.03-	17657941.06-	3327354.23	84.14

Public Hearing

LUNENBURG COUNTY -PUBLIC NOTICE

The **Lunenburg County Planning Commission and Board of Supervisors** will hold a **Joint** public hearing on **Thursday, June 13, 2024**, beginning at **6:00 PM** in the 2nd floor Courtroom; Lunenburg Courts Building, Lunenburg, VA 23952 for public input on the following:

CUP 11-23: Conditional Use Permit for Virginia Electric and Power Company dba Dominion Energy Virginia to construct and operate a major public utility (230/500kV Electric Transmission “Unity” Substation) on tax parcel 059-0A-0-18A, located Southeast of 251 Dusty Lane, Kenbridge, VA 23944, consisting of 213.45-acres (of which 49.740-acres has been subdivided for purchase and utilization by Virginia Electric and Power Company) in an A-1 Agricultural zone..

It is the intention of the Lunenburg County Planning Commission to comply with the Americans with Disabilities Act. Should you need special Accommodations, please contact the County Administration office at 434-696-2142 prior to the meeting date.

The full applications are available for review at:

www.lunenburgva.gov/government/planning_commission/pending_conditional_use_permit_applications.php (select the “2023 Pending Conditional Use Permit Applications”). Written comments will be appreciated, in lieu of oral presentations. Please send comments to taylor@lunenburgva.gov or Lunenburg County, Department of Planning and Economic Development, 11413 Courthouse Road, Lunenburg, VA 23952.

Unity Substation

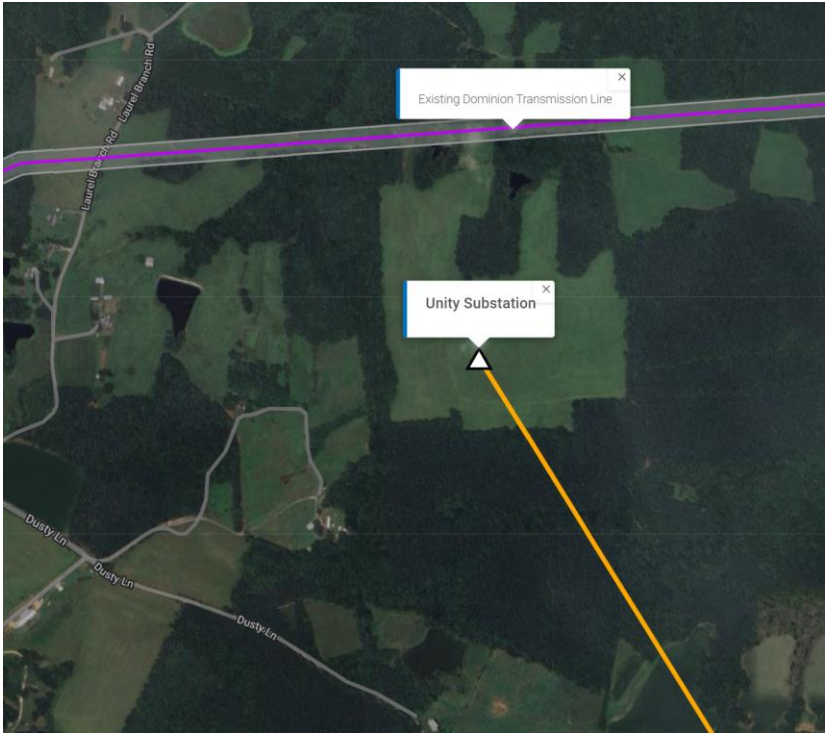
**CUP Application
Lunenburg County
June 13, 2024**



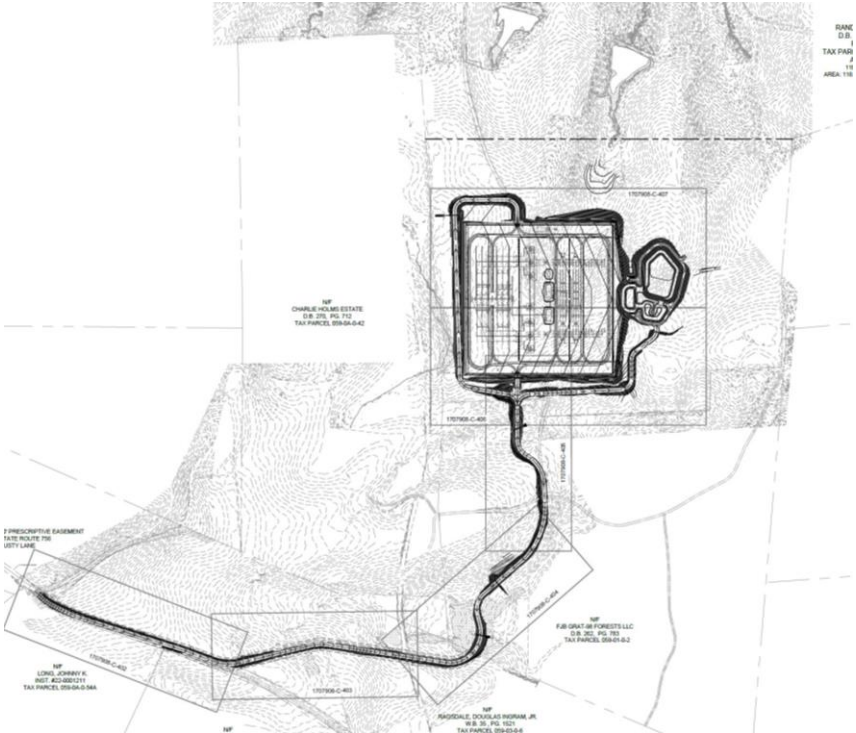
**Dominion
Energy[®]**

Project Location

Project Location



Site Plan Overview



Project Scope

Representative Substation



Project Scope

Overview

- Build new 500 kV – 230 kV electric transmission substation to connect an existing 500 kV line to a new 230 kV transmission line in Lunenburg County

Details

- Substation size: 11.73 acres
- 20' tall, double mesh fence
- Interface between 230 kV and 500 kV line

Project Drivers

- Serves new load sources in the area

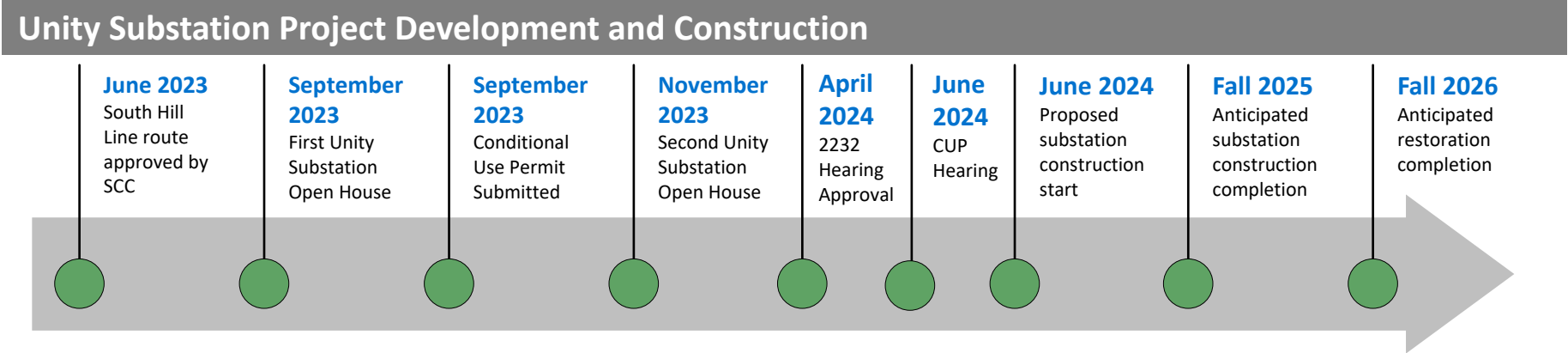
Benefits

- Improves system reliability
- Creates grid redundancy

Impacts

- Temporary traffic increase during construction

Project Timeline



Design and Development Considerations

The Unity Substation project is a proposed facility designed with consideration of Lunenburg County's comprehensive plan and zoning requirements.

- **Meets growing power demand in the area.**
- **Zoning code allows for major public utility infrastructure (electric substation) with a Conditional Use Permit.**
- **Project has 100' setbacks which meet and exceed A-1 (Agricultural) zoning setback requirements.**
- **Substation located off private road surrounded by existing vegetation buffers.**
- **No traffic increases to surrounding road networks once construction is complete.**
- **Substation will be unmanned with periodic maintenance only.**
- **No additional impacts on local services such as schools, public water, and sewer facilities.**

Questions?



Generic Location - Not Site Specific


CUP 11-23: Unity Substation

Lunenburg Planning Office
Application for Conditional Use Permit for Solar Facilities
Case Number: _____ (Office Use Only)

Section 1

Applicant Name: Virginia Electric and Power Company dba Dominion Energy Virginia

Owner Name: Kevin L. Fields - Authorized Representative

Owner Signature: 

Contact Name for Application: Chuck Weil


Physical and Mailing Address: 5000 Dominion BLVD, 3rd Floor, Glen Allen, VA 23060

Phone Number: (804) 239-6450

Email Address: Charles.H.Weil@Dominionenergy.com

Fax Number (if applicable): _____

Power of Attorney Name: Kevin L Fields

Power of Attorney Signature: 

As owner or authorized agent of this property, I certify that this application is complete and accurate to the best of my knowledge, and I authorize the Lunenburg County representative(s) entry on the property for purposes of reviewing this application.

Section 2
Property Information

Parcel Number(s): 059-0A-0-18A (SITE)

059-01-0-2 (ACCESS ROAD)

059-03-0-6 (ACCESS ROAD)

Area (ac./sq. ft.): 059-0A-0-18A (213.45 ac / 9297882 sq. ft.)

Magisterial District: COLUMBIAN GROVE

Address: 3832 LAUREL BRANCH ROAD, LUNENBURG COUNTY, VA

Existing Zoning: A-1 : Agriculture

Requested Use: Electrical Substation

Does this property have a historical designation? If yes, describe: NO

Parcel number(s), acreage, magisterial district and existing zoning can be located at:
<https://lunenburggis.timmons.com/#/mw>. The address can be typed into the "By Parcel Address" search bar followed by selecting search. This will pull up the information pertaining to the parcel.

The application deadline is the **1st of the month proceeding the month** in which the public hearing by the Planning Commission is to be held. The Planning Commission meeting is held on the 1st Thursday of the month at 7:00 p.m. Applications must be submitted in completed form a minimum of forty-five (45) days prior to scheduling a public hearing by the Planning Commission. Notice of incomplete applications will be sent to the applicant at the listed address in Section 1.

The site plan must be submitted as described in the site plan requirements at the time of the application.

Application fee is \$2,500.00, which must be paid at the time of application submission. The applicant will be invoiced for any costs incurred, including but not limited to advertising, postage, legal fees, third-party consulting fees, etc.

****Incomplete applications will be returned to the applicant and not docketed for a public hearing****

Section 3

Certification of Adjoining Property Owners, Board of Supervisors, and Planning Commissioners

Applicants Certification:

I certify that I have notified all adjacent property owners, to the property which is the subject of this application request, that this application is being filed. Notifications were sent via first class mail.

Adjacent property includes all property touching the project parcel, across roadways, watercourses, railroads, and/or municipal boundaries.

I further certify that the names and addresses below are those of the adjacent property owners as listed in the tax records of the Commissioner of Revenue of Lunenburg County.

Applicant's Signature: _____

State of: _____.

County of: _____.

Before me, _____, on this _____ day of _____

Name of Notary Public

_____, 20____, _____, personally appeared, and

Applicant(s) Name

provided verification to be the person(s) whose name(s) is/are subscribed to the foregoing instrument and acknowledged to me that he/she/they executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office this _____ day of _____, 20____.

Notary Public's Signature

Location of Commission

Registration #: _____

Commission Expiration: _____

Verification of Identity

☐ Driver's License or Govt./State Identification Card:

State: _____

Number: _____

☐ U. S. Passport:

Number: _____

☐ U. S. Military ID Card

☐ Social Security Card

☐ Birth Certificate

☐ Other: _____

(Seal)

Adjacent Parcel (Property) Owners		
Parcel Number	Name(s)	Address
059-01-0-2	FBJ GRAT-98 FORESTS LLC,	PO BOX 1288
		MOBILE AL 36633
059-01-0-3	FBJ GRAT-98 FORESTS LLC,	PO BOX 1288
		MOBILE AL 36633
059-02-0-1	LONG RANDALL S	3173 BRICKLAND ROAD
		SOUTH HILL VA 23970
059-02-0-2A	LONG JOHNNY K	3502 LAUREL BRANCH ROAD
		KENBRIDGE VA 23944
059-03-0-5	RAGSDALE DOUGLAS INGRAM JR,	12113 CREEKWOOD TERRACE
		KNOXVILLE TN 37934
059-03-0-6	RAGSDALE DOUGLAS INGRAM JR,	12113 CREEKWOOD TERRACE
		KNOXVILLE TN 37934
059-03-0-9	LONG RANDALL S,	3173 BRICKLAND ROAD
		SOUTH HILL VA 23970
059-04-0-3	ARD CHRISTOPHER P	3899 LAUREL BRANCH ROAD
		KENBRIDGE VA 23944
059-04-0-4	CURLEY GEORGE W & SARA L	3899 LAUREL BRANCH ROAD
		KENBRIDGE VA 23944
059-0A-0-18A	LONG RANDALL S,	3173 BRICKLAND ROAD
		SOUTH HILL VA 23970
059-0A-0-39	YEATTS CLAUDE WESLEY & JAMES WILEY & JAMES ELLIOTT NASH & MELINDA CLAY NASH	4525 BRICKLAND ROAD
		KENBRIDGE VA 23944
059-0A-0-41	HARVILICZ RONALD M OR PATRICIA I	3963 LAUREL BRANCH ROAD
		KENBRIDGE VA 23944
059-0A-0-41A	BOAZ DAVID A,	3832 LAUREL BRANCH ROAD
		KENBRIDGE VA 23944
059-0A-0-41B	CURLEY SARA L OR GEORGE W CURLEY	3883 LAUREL BRANCH ROAD
		KENBRIDGE VA 23944
059-0A-0-41C	REESE MARK S SR OR CONNIE W,	8507 CRAIG MILL ROAD
		KENBRIDGE VA 23944
059-0A-0-41D	LONG JOHNNY K	3502 LAUREL BRANCH ROAD
		KENBRIDGE VA 23944
059-0A-0-42	HOLMES CHARLIE ESTATE	251 DUSTY LANE
		KENBRIDGE VA 23944
059-0A-0-43	REESE MARK S SR OR CONNIE W,	8507 CRAIG MILL ROAD
		KENBRIDGE VA 23944
059-0A-0-43A	BOAZ DAVID A	3832 LAUREL BRANCH ROAD
		KENBRIDGE VA 23944
059-0A-0-44	LONG RONALD E OR PATRICIA A	3589 LAUREL BRANCH ROAD
		KENBRIDGE VA 23944
059-0A-0-44A	LONG RONALD E OR PATRICIA A	3589 LAUREL BRANCH ROAD
		KENBRIDGE VA 23944

*If there are additional adjacent property owners, please include them on a separate sheet. Also, the letter that follows can be completed and mailed to adjacent property owners.

Adjacent Parcel (Property) Owners		
Parcel Number	Name(s)	Address
059-0A-0-44A1	REESE MARK S SR OR CONNIE W	8507 CRAIG MILL ROAD KENBRIDGE VA 23944
059-0A-0-44B1	REESE MARK S SR OR CONNIE W	8507 CRAIG MILL ROAD KENBRIDGE VA 23944
059-0A-0-44C	NOBLIN AMANDA R	3441 LAUREL BRANCH ROAD KENBRIDGE VA 23944
059-0A-0-44C1	REESE MARK S SR OR CONNIE W,	8507 CRAIG MILL ROAD KENBRIDGE VA 23944
059-0A-0-46	HERRINGTON BRENDA REESE ET A	603 WINDSOR AVE LAWRENCEVILLE VA 23868
059-0A-0-53A	LONG JOHNNIE K,	3502 LAUREL BRANCH ROAD KENBRIDGE VA 23944
059-0A-0-54	RAGSDALE DOUGLAS INGRAM JR,	12113 CREEKWOOD TERRACE KNOXVILLE TN 37934
059-0A-0-54A	LONG JOHNNY K OR LUCILLE S,	3502 LAUREL BRANCH ROAD KENBRIDGE VA 23944
059-0A-0-55	CEMETERY	
071-0A-0-9	YANCEY ROSA LEE OR CARSON W & GINGER LEE & JEAN ELIZABETH YANCEY	3653 BRICKLAND ROAD SOUTH HILL VA 23970
059-01-0-3	FBJ GRAT-98 FORESTS LLC,	PO BOX 1288 MOBILE AL 36633
059-02-0-1	LONG RANDALL S	3173 BRICKLAND ROAD SOUTH HILL VA 23970
059-02-0-2A	LONG JOHNNY K,	3502 LAUREL BRANCH ROAD KENBRIDGE VA 23944
059-03-0-5	RAGSDALE DOUGLAS INGRAM JR,	12113 CREEKWOOD TERRACE KNOXVILLE TN 37934
059-03-0-9	LONG RANDALL S	3173 BRICKLAND ROAD SOUTH HILL VA 23970
059-0A-0-18	MOORE ANN D,	351 RUBIN LANE KENBRIDGE VA 23944
059-0A-0-19	MARTIN DOROTHY S	13301 KINGSMILL ROAD MIDLOTHIAN VA 2311

*If there are additional adjacent property owners, please include them on a separate sheet. Also, the letter that follows can be completed and mailed to adjacent property owners.

Notification of Application Submittal to Adjacent Property Owners

To: Adjacent Property Owner of Parcel(s) _____

From: Dominion Energy Virginia _____

Date: _____

The following application will be submitted for review to the Lunenburg County Planning Office:

☐ Rezoning

☒ Conditional Use Permit

☐ Special Exception

Requested Use or Exception:

This application is for a Conditional Use Permit to construct a 230/500kV Electric Transmission Substation (a major public utility) on a parcel that is zoned A-1 Agricultural.

The application will be available for viewing at the Lunenburg County Planning Office. The Planning Office shall notify all adjacent property owner(s) of the time, day, and location of the public hearing(s) to be held on this application. Should you have questions and/or comments, please contact the Planning Office at 434.696.2142 or taylor@lunenburgva.gov.

Section 4
Applicant's Report
Section 8.3(b) of Lunenburg Zoning Ordinance

Every application for a Conditional Use Permit shall be accompanied by a report from the applicant describing the proposed Conditional Use and explaining the manner which it complies with the requirements and standards of this article.

The following questions address the basic issues. The Planning Commission and/or Board of Supervisors may request additional information.

- 1.) What type of use is being requested?

The construction and operation of A Dominion Energy 500/230KV substation.

- 2.) Describe how you plan to develop the property for the proposed use and any associated uses.

The site will be cleared and graded for the installation of the substation and associate electrical equipment. A wet pond will be constructed to address stormwater management. An access road will be constructed from Laurel Branch Road to the substation.

- 3.) Describe why the proposed use is desirable and appropriate for the area. What measures will be taken to assure that the proposed use will not have a negative impact on the surrounding vicinity?

The construction of the electrical utility substation will help meet growing power demands.

The regulations of all local, state, or federal governmental bodies having jurisdiction over the project shall be observed at all times.

Also, address the following:

- a. Details of Operations: The substation will be unmanned with personnel on site only when needed.
-

- b. Hours of Operation: 24/7
-

- c. Traffic: Because the substation is unmanned there will be no increase in traffic and will only have personnel on site when maintenance is needed.
-

- d. Noise: We always work to design a new substation to meet the sound ordinance requirements of the locality where the substation resides which is typically specified as a specific "A" weighted sound level measured at the substation property line.
-

- e. Dust/Smoke: There will be no generation of dust or smoke from the proposed substation once constructed.
-

- f. Runoff: This project was analyzed for the 1-year and 10-year storm events to show compliance with VA DEQ IIB Stormwater Management Water Quantity Requirements. There is one wet pond on site.
-

- g. Intensity of Use: The substation will have be low intensity due to it being an unmanned station.
-

- h. Hazardous Materials: SF6 is the medium for the installed circuit breakers in the substation and has been listed as a hazardous material by OSHA but will not be a danger to the surrounding community.
-

- i. Outside Storage: N/A
-

- 4.) Is the use location on a floodplain, wetland area, or dam break inundation zone? No
-

- 5.) Are there any deed restrictions concerning the type of use proposed? If so, provide the date the said restrictions expire. No
-

- Has a business plan been established? If so, please provide it with application submittal. N/A
- Describe how the proposed project complies or refutes the goals and objectives noted in the Kenbridge-Victoria-Lunenburg Comprehensive Plan. This can be located the Lunenburg County, Virginia website. The construction of the electrical utility substation will help meet growing power demands. This complies with goals such as "Promote the expansion of a diversified economy"

Section 5

Construction Traffic Haul Routes

- Identify the routes to be used to transport supplies to the construction site. The plan shall begin at a VDOT maintained primary route and include all secondary routes to be used to access the site.
- The plan shall, also, include any truck routes that may be used to dispose of excess materials, clearing and grubbing debris, timber harvesting, or other activities that generate truck traffic leaving the site.

Roadway Condition Survey

- The applicant shall document by either photos, videos, or other method acceptable to VDOT and the County, the condition of the secondary roadways identified as haul routes. This condition survey will be utilized to identify areas damaged by the construction traffic that will be required to be repaired to the pre-existing conditions or better.

On-Site Storage, Unloading, and Turn-Around Areas

- The applicant shall demonstrate that they have adequate areas available on-site to unload trucks, store the materials on-site, and provide an area where trucks can turn around on-site prior to entering the VDOT roadway.

On-Site Parking Areas for Construction Employees

- The applicant shall provide an estimated number of employees to be on-site during construction and demonstrate that adequate on-site parking areas are available for the anticipated employees. Employees will not be allowed to park along roadways or within VDOT Right-of-Way (ROW) adjacent to the construction areas.

Dominion Energy Virginia
Dominion Energy North Carolina
Electric Transmission
5000 Dominion Boulevard
Glen Allen, VA 23060
DominionEnergy.com



Sept. 20, 2023

Unity Substation Project (Part of the South Hill Electric Transmission Project)

Dear Neighbor:

At Dominion Energy, we are committed to keeping the communities we serve up-to-date on projects in their area.

To meet the increased energy demand of Lunenburg and surrounding counties, we are planning to build a new substation and related electric transmission infrastructure. This substation is part of a larger project, known as the South Hill Electric Transmission Line and Substation Project, which received approval from the Virginia State Corporation Commission (SCC) in June 2023. This project will allow Dominion Energy to continue providing secure and reliable electric service to the area.

You are receiving this letter because we are applying for a Conditional Use Permit and the substation is located in your area. Enclosed, you will find more information about the application. Pending all necessary approvals, construction is scheduled to begin in early 2024. We will continue to update you as activities progress. Thank you for your patience and understanding as we work to complete this important project.

Sincerely,

The Electric Transmission Project Team

Notification of Application Submittal to Adjacent Property Owners

To: Adjacent Property Owner of Parcel(s):

FBJ GRAT-98 FORESTS LLC 059-01-0-2 059-01-0-3

From: Dominion Energy Virginia

Date: _____

The following application will be submitted for review to the Lunenburg County Planning Office:

- ☐ Rezoning
- ☒ Conditional Use Permit
- ☐ Special Exception

Requested Use or Exception:

This application is for a Conditional Use Permit to construct a 230/500kV Electric Transmission Substation (a major public utility) on a parcel that is zoned A-1 Agricultural.

The application will be available for viewing at the Lunenburg County Planning Office. The Planning Office shall notify all adjacent property owner(s) of the time, day, and location of the public hearing(s) to be held on this application. Should you have questions and/or comments, please contact the Planning Office at 434.696.2142 or taylor@lunenburgva.gov.

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DETAILS
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C-901 DRAINAGE CALCULATIONS
C-902 DRAINAGE CALCULATIONS

Project Contact Information

OWNER
DOMINION ENERGY VIRGINIA d/b/a
DOMINION ENERGY
KEVIN FIELDS
DIRECTOR-ELECTRIC TRANSMISSION
PROJECT MANAGEMENT
PO BOX 26666
RICHMOND, VA 23261
(804) 771-3769
kevin.i.fields@dominionenergy.com

APPLICANT
DOMINION ENERGY
CHUCK WEIL
SITE PERMITTING SPECIALIST
500 DOMINIONI BLVD. 3RD FLOOR
GLEN ALLEN, VA 23060
(804)-239-6450
CHARLES.H.WEIL@DOMINIONENERGY.COM

CIVIL ENGINEER
DEWBERRY ENGINEERS INC.
DEREK MARSHALL
4805 LAKE BROOK DR., SUITE 200
GLEN ALLEN, VA 23060
(804) 205-3337
dmarshall@dewberry.com

Site Statistics

SITE ADDRESS: TBD, LUNENBURG COUNTY, VA
SITE LAT/LONG: 36.887696 / -78.141171
EXISTING USE: AGRICULTURAL
PROPOSED USE: ELECTRICAL SUBSTATION
SITE AREA: 213.45 AC
PARKING REQUIRED: N/A (UNMANNED FACILITY)
PARKING PROVIDED:
HANDICAP REQUIRED/PROVIDED: N/A (UNMANNED FACILITY)
TOTAL IMPERVIOUS/% TOTAL: 15.98 AC/61%
TOTAL PERVIOUS/% TOTAL: 10.27 AC/39%
TOTAL DISTURBED AREA: 26.25 AC

ZONING: A-1: AGRICULTURE
TAX MAP/GPIN NO.: 059-0A-0-18A
059-01-0-2
059-03-0-6

PROJECT DESCRIPTION:
THIS PROJECT IS FOR THE PROPOSED CONSTRUCTION OF DOMINION ENERGY 'S NEW 500/230KV SUBSTATION IN LUNENBURG COUNTY, VA.

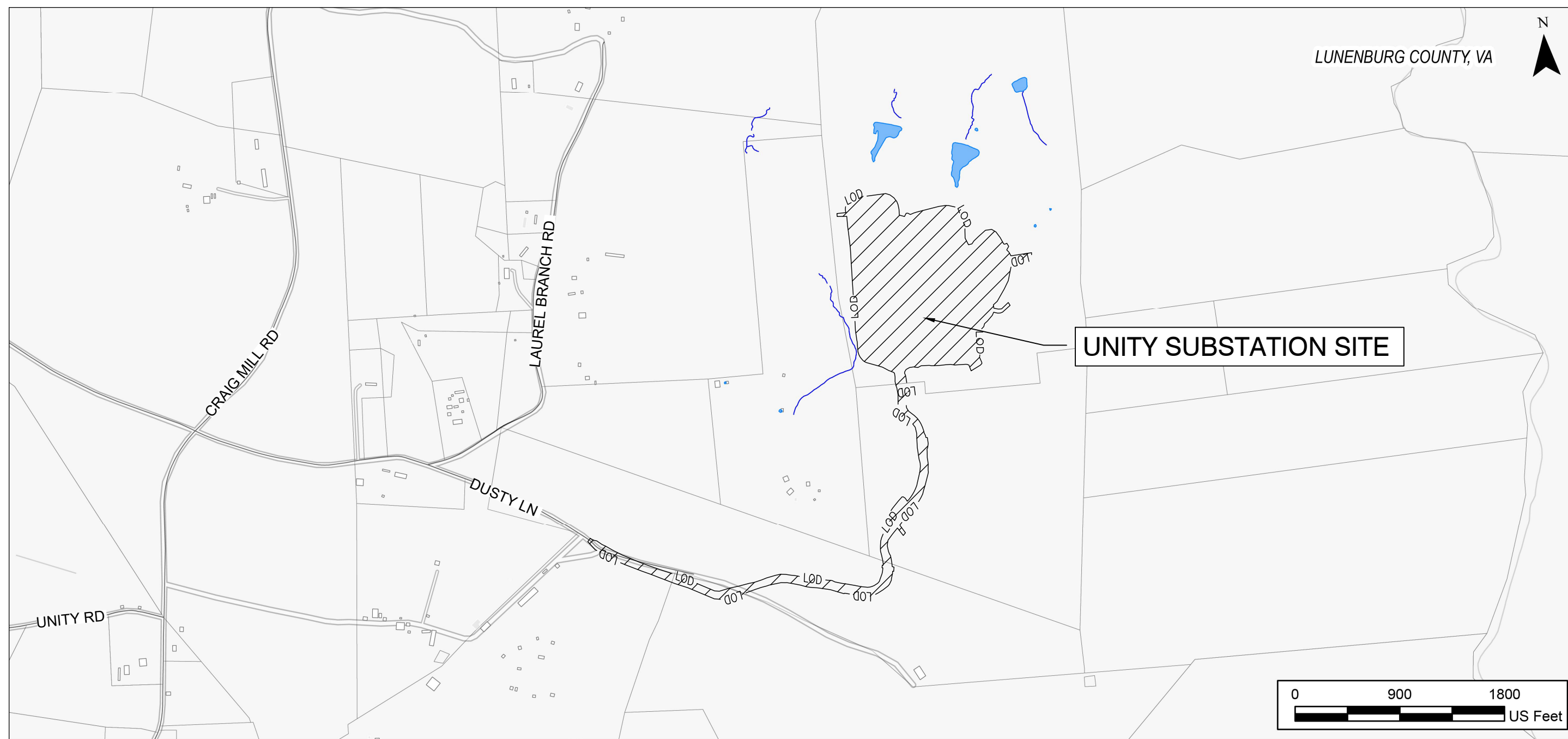
THIS PLAN SET IS THE SITE PLAN FOR THE NEW SUBSTATION, TO BE KNOWN AS UNITY SUBSTATION.

RESPONSIBLE LAND DISTURBER

THE DEWBERRY ENGINEERS INC. SEALING ENGINEER SHALL BE THE RESPONSIBLE LAND DISTURBER (RLD) FOR THIS PROJECT FOR APPROVAL PURPOSES ONLY. ONCE THE PROJECT HAS BEEN AWARDED, THE CONTRACTOR SHALL PROVIDE AN RLD AS NOTED ON PLAN SHEET 1707908-C-201.

IMPORTANT GRADING NOTE

ALL EXISTING AND PROPOSED GRADES SHOWN ON THE SITE PLAN ARE DIRT GRADES.

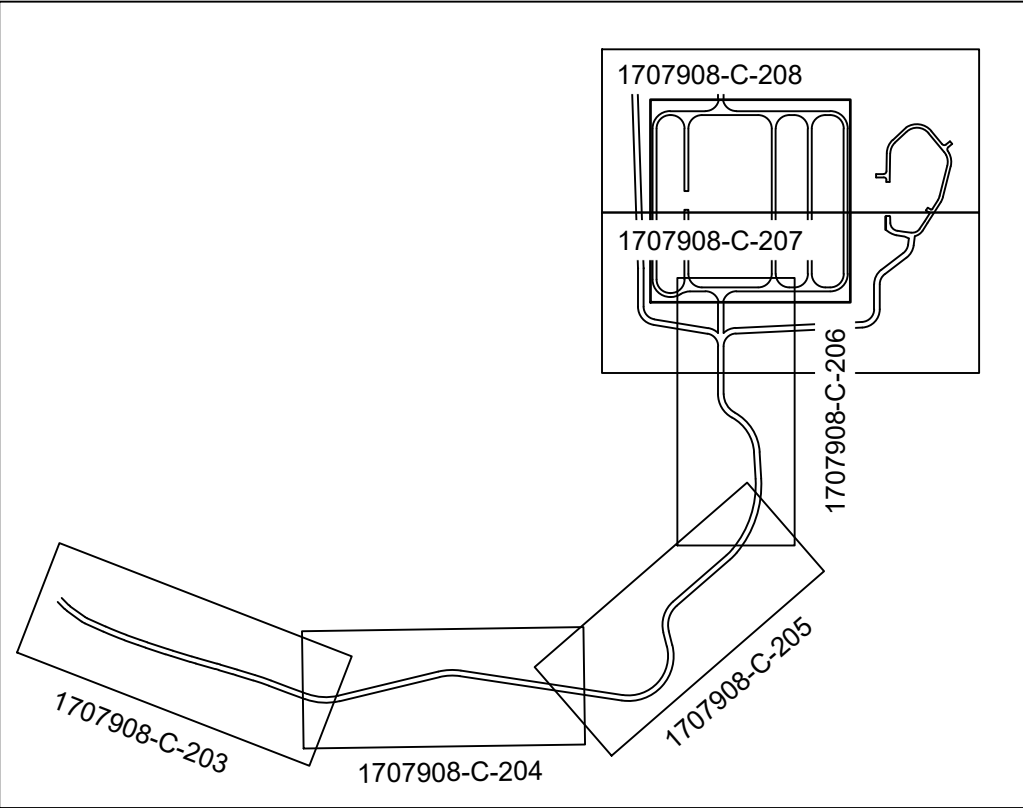
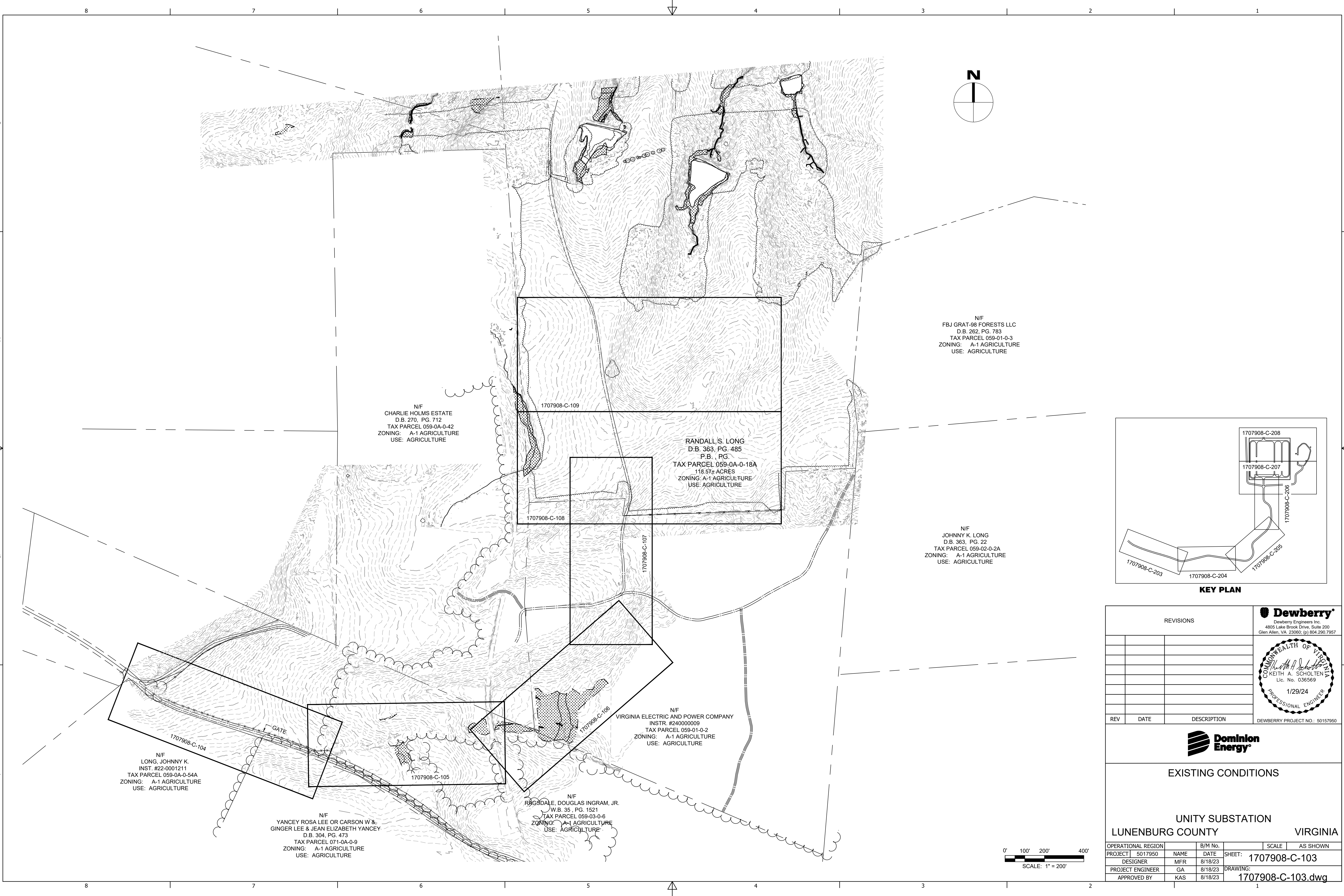


Unity Substation

Lunenburg County, VA

SITE PLAN Permit Submission

REVISIONS				Dewberry Dewberry Engineers Inc. 4805 Lake Brook Drive, Suite 200 Glen Allen, VA 23060; (p) 804.290.7957	
REV	DATE	DESCRIPTION	DEWBERRY PROJECT NO.: 50157950		
COVER SHEET					
UNITY SUBSTATION LUNENBURG COUNTY VIRGINIA					
OPERATIONAL REGION		B/M No.		SCALE	AS SHOWN
PROJECT	5017950	NAME	DATE	SHEET: 1707908-C-101	
DESIGNER	MFR	GA	8/18/23	DRAWING:	
PROJECT ENGINEER	KAS	8/18/23	1707908-C-101.dwg		
APPROVED BY					



KEY PLAN

REVISIONS			<div><div><div><div><div><div></div><div>Dewberry</div></div></div><div><div><div><div><div><div></div><div>Dewberry Engineers Inc.</div><div>4805 Lake Brook Drive, Suite 200</div><div>Glen Allen, VA 23060</div><div>(p) 804.290.7957</div></div></div></div><div><div><div><div><div><div></div><div>COMMONWEALTH OF VIRGINIA</div><div><i>Keith A. Scholten</i></div><div>KEITH A. SCHOLTEN</div><div>Lic. No. 036569</div><div>1/29/24</div><div>PROFESSIONAL ENGINEER</div></div></div></div></div></div><div>Dewberry Project No.: 50157950</div></div></div></div></div></div>
REV	DATE	DESCRIPTION	



EXISTING CONDITIONS

UNITY SUBSTATION
LUNENBURG COUNTY VIRGINIA

OPERATIONAL REGION	NAME	B/M No.	DATE	SCALE	AS SHOWN
PROJECT	5017950	NAME	DATE	SHEET:	1707908-C-103
DESIGNER	MFR	GA	8/18/23	DRAWING:	1707908-C-103.dwg
PROJECT ENGINEER	KAS	8/18/23			
APPROVED BY					

MINIMUM STANDARDS (9VAC25-840-40)

A VESCP must be consistent with the following criteria, techniques and methods:

- Permanent or temporary soil stabilization shall be applied to denuded areas within seven days after final grade is reached on any portion of the site. Temporary soil stabilization shall be applied within seven days to denuded areas that may not be at final grade but will remain dormant for longer than 14 days. Permanent stabilization shall be applied to areas that are to be left dormant for more than one year.
- During construction of the project, soil stock piles and borrow areas shall be stabilized or protected with sediment trapping measures. The applicant is responsible for the temporary protection and permanent stabilization of all soil stockpiles on site as well as borrow areas and soil intentionally transported from the project site.
- A permanent vegetative cover shall be established on denuded areas not otherwise permanently stabilized. Permanent vegetation shall not be considered established until a ground cover is achieved that is uniform, mature enough to survive and will inhibit erosion.
- Sediment basins and traps, perimeter dikes, sediment barriers and other measures intended to trap sediment shall be constructed as a first step in any land-disturbing activity and shall be made functional before upslope land disturbance takes place.
- Stabilization measures shall be applied to earthen structures such as dams, dikes and diversions immediately after installation.
- Sediment traps and sediment basins shall be designed and constructed based upon the total drainage area to be served by the trap or basin.
 - The minimum storage capacity of a sediment trap shall be 134 cubic yards per acre of drainage area and the trap shall only control drainage areas less than three acres.
 - Surface runoff from disturbed areas that is comprised of flow from drainage areas greater than or equal to three acres shall be controlled by a sediment basin. The minimum storage capacity of a sediment basin shall be 134 cubic yards per acre of drainage area. The outfall system shall, at a minimum, maintain the structural integrity of the basin during a 25-year storm of 24-hour duration. Runoff coefficients used in runoff calculations shall correspond to a bare earth condition or those conditions expected to exist while the sediment basin is utilized.
- Cut and fill slopes shall be designed and constructed in a manner that will minimize erosion. Slopes that are found to be eroding excessively within one year of permanent stabilization shall be provided with additional slope stabilizing measures until the problem is corrected.
- Concentrated runoff shall not flow down cut or fill slopes unless contained within an adequate temporary or permanent channel, flume or slope drain structure.
- Whenever water seeps from a slope face, adequate drainage or other protection shall be provided.
- All storm sewer inlets that are made operable during construction shall be protected so that sediment-laden water cannot enter the conveyance system without first being filtered or otherwise treated to remove sediment.
- Before newly constructed stormwater conveyance channels or pipes are made operational, adequate outlet protection and any required temporary or permanent channel lining shall be installed in both the conveyance channel and receiving channel.
- When work in a live watercourse is performed, precautions shall be taken to minimize encroachment, control sediment transport and stabilize the work area to the greatest extent possible during construction. Nonerodible material shall be used for the construction of causeways and cofferdams. Earthen fill may be used for these structures if armored by nonerodible cover materials.
- When a live watercourse must be crossed by construction vehicles more than twice in any six-month period, a temporary vehicular stream crossing constructed of nonerodible material shall be provided.
- All applicable federal, state and local requirements pertaining to working in or crossing live watercourses shall be met.
- The bed and banks of a watercourse shall be stabilized immediately after work in the watercourse is completed.
- Underground utility lines shall be installed in accordance with the following standards in addition to other applicable criteria:
 - More than 500 linear feet of trench may be opened at one time.
 - Excavated material shall be placed on the uphill side of trenches.
 - Effluent from dewatering operations shall be filtered or passed through an approved sediment trapping device, or both, and discharged in a manner that does not adversely affect flowing streams or off-site property.
 - Material used for backfilling trenches shall be properly compacted in order to minimize erosion and promote stabilization.
 - Restabilization shall be accomplished in accordance with this chapter.
 - Applicable safety requirements shall be complied with.
- Where construction vehicle access routes intersect paved or public roads, provisions shall be made to minimize the transport of sediment by vehicular tracking onto the paved surface. When sediment is transported onto a paved or public road surface, the road surface shall be cleaned thoroughly at the end of each day. Sediment shall be removed from the roads by shoveling or sweeping and transported to a sediment control disposal area. Street washing shall be allowed only after sediment is removed in this manner. This provision shall apply to individual development lots as well as to larger land-disturbing activities.
- All temporary erosion and sediment control measures shall be removed within 30 days after final site stabilization or after the temporary measures are no longer needed, unless otherwise authorized by the VESCP authority. Trapped sediment and the disturbed soil areas resulting from the disposition of temporary measures shall be permanently stabilized to prevent further erosion and sedimentation.
- Properties and waterways downstream from development sites shall be protected from sediment deposition, erosion and damage due to increases in volume, velocity and peak flow rate of stormwater runoff for the stated frequency storm of 24-hour duration in accordance with the following standards and criteria. Stream restoration and relocation projects that incorporate natural channel design concepts are not man-made channels and shall be exempt from any flow rate capacity and velocity requirements for natural or man-made channels:
 - Concentrated stormwater runoff leaving a development site shall be discharged directly into an adequate natural or man-made receiving channel, pipe or storm sewer system. For those sites where runoff is discharged into a pipe or pipe system, downstream stability analyses at the outfall of the pipe or pipe system shall be performed.
 - Adequacy of all channels and pipes shall be verified in the following manner:
 - (1) The applicant shall demonstrate that the total drainage area to the point of analysis within the channel is one hundred times greater than the contributing drainage area of the project in question; or
 - (2a) Natural channels shall be analyzed by the use of a two-year storm to verify that stormwater will not overtop channel banks nor cause erosion of channel bed or banks.
 - (2b) All previously constructed man-made channels shall be analyzed by the use of a 10-year storm to verify that stormwater will not overtop its banks and by the use of a two-year storm to demonstrate that stormwater will not cause erosion of channel bed or banks; and
 - (2c) Pipes and storm sewer systems shall be analyzed by the use of a 10-year storm to verify that stormwater will be contained within the pipe or system.
 - If existing natural receiving channels or previously constructed man-made channels or pipes are not adequate, the applicant shall:
 - Improve the channels to a condition where a 10-year storm will not overtop the banks and a two-year storm will not cause erosion to the channel, the bed, or the banks; or
 - Improve the pipe or pipe system to a condition where the 10-year storm is contained within the appurtenances;
 - Develop a site design that will not cause the pre-development peak runoff rate from a two-year storm to increase when runoff outfalls into a natural channel or will not cause the pre-development peak runoff rate from a 10-year storm to increase when runoff outfalls into a man-made channel; or
 - Provide a combination of channel improvement, stormwater detention or other measures which is satisfactory to the VESCP authority to prevent downstream erosion.
 - The applicant shall provide evidence of permission to make the improvements.
 - All hydrologic analyses shall be based on the existing watershed characteristics and the ultimate development condition of the subject project.
 - If the applicant chooses an option that includes stormwater detention, he shall obtain approval from the VESCP of a plan for maintenance of the detention facilities. The plan shall set forth the maintenance requirements of the facility and the person responsible for performing the maintenance.
 - Outfall from a detention facility shall be discharged to a receiving channel, and energy dissipators shall be placed at the outfall of all detention facilities as necessary to provide a stabilized transition from the facility to the receiving channel.
 - All on-site channels must be verified to be adequate.
 - Increased volumes of sheet flows that may cause erosion or sedimentation on adjacent property shall be diverted to a stable outlet, adequate channel, pipe or pipe system, or to a detention facility.
 - In applying these stormwater management criteria, individual lots or parcels in a residential, commercial or industrial development shall not be considered to be separate development projects. Instead, the development, as a whole, shall be considered to be a single development project. Hydrologic parameters that reflect the ultimate development condition shall be used in all engineering calculations.
 - All measures used to protect properties and waterways shall be employed in a manner which minimizes impacts on the physical, chemical and biological integrity of rivers, streams and other waters of the state.
 - Any plan approved prior to July 1, 2014, that provides for stormwater management that addresses any flow rate capacity and velocity requirements for natural or man-made channels shall satisfy the flow rate capacity and velocity requirements for natural or man-made channels if the practices are designed to (i) detain the water quality volume and to release it over 48 hours; (ii) detain and release over a 24-hour period the expected rainfall resulting from the one year, 24-hour storm; and (iii) reduce the allowable peak flow rate resulting from the 1.5, 2, and 10-year, 24-hour storms to a level that is less than or equal to the peak flow rate from the site assuming it was in a good forested condition, achieved through multiplication of the forested peak flow rate by a reduction factor that is equal to the runoff volume from the site when it was in a good forested condition divided by the runoff volume from the site in its proposed condition, and shall be exempt from any flow rate capacity and velocity requirements for natural or man-made channels as defined in any regulations promulgated pursuant to § 62.1-44.15.54 or 62.1-44.15.65 of the Act.

EROSION & SEDIMENT CONTROL NOTES

ES-1: Unless otherwise indicated, all vegetative and structural erosion and sediment control practices will be constructed and maintained according to minimum standards and specifications of the Virginia Erosion and Sediment Control Handbook and Virginia Regulations (9VAC25-840).

ES-2: The plan approving authority must be notified one week prior to the pre-construction conference, one week prior to the commencement of land disturbing activity, and one week prior to final inspection.

ES-3: All erosion and sediment control measures are to be placed prior to or as the first step in clearing.

ES-4: A copy of the approved erosion and sediment control plan shall be maintained on the site at all times


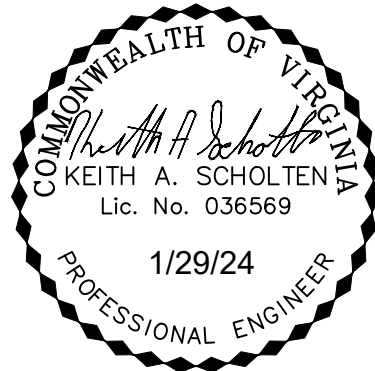

ES-5: Prior to commencing land disturbing activities in areas other than indicated on these plans (including, but not limited to, off-site borrow or waste areas), the contractor shall submit a supplementary erosion control plan to the owner for review and approval by the plan approving authority.

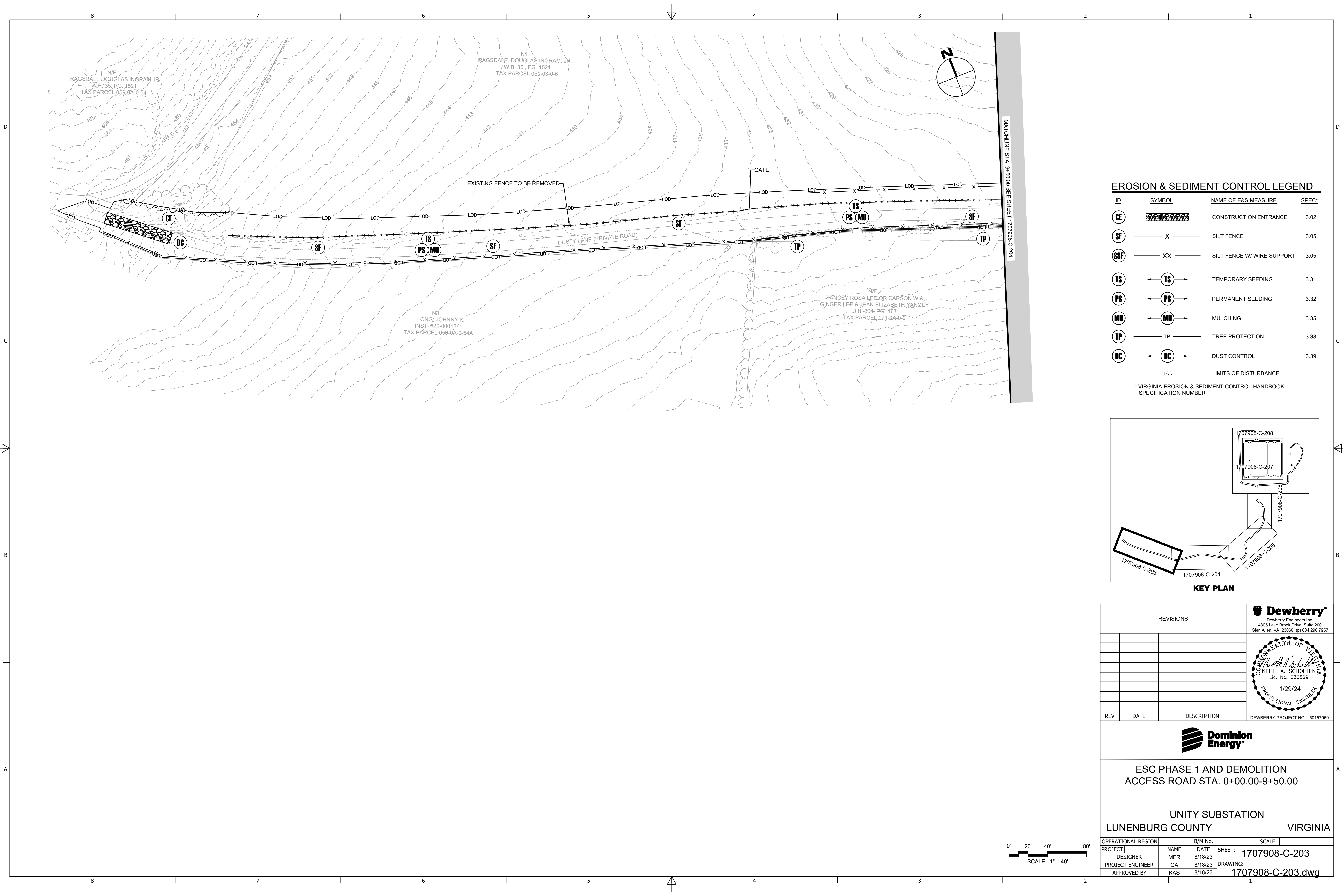
ES-6: The contractor is responsible for installation of any additional erosion control measures necessary to prevent erosion and sedimentation as determined by the plan approving authority.

ES-7: All disturbed areas are to drain to approved sediment control measures at all times during land disturbing activities and during site development until final stabilization is achieved.

ES-8: During dewatering operations, water shall be pumped into an approved filtering device.

ES-9: The contractor shall inspect all erosion control measures periodically after each runoff-producing rainfall event. Any necessary repairs or cleanup to maintain the effectiveness of the erosion control devices shall be made immediately.

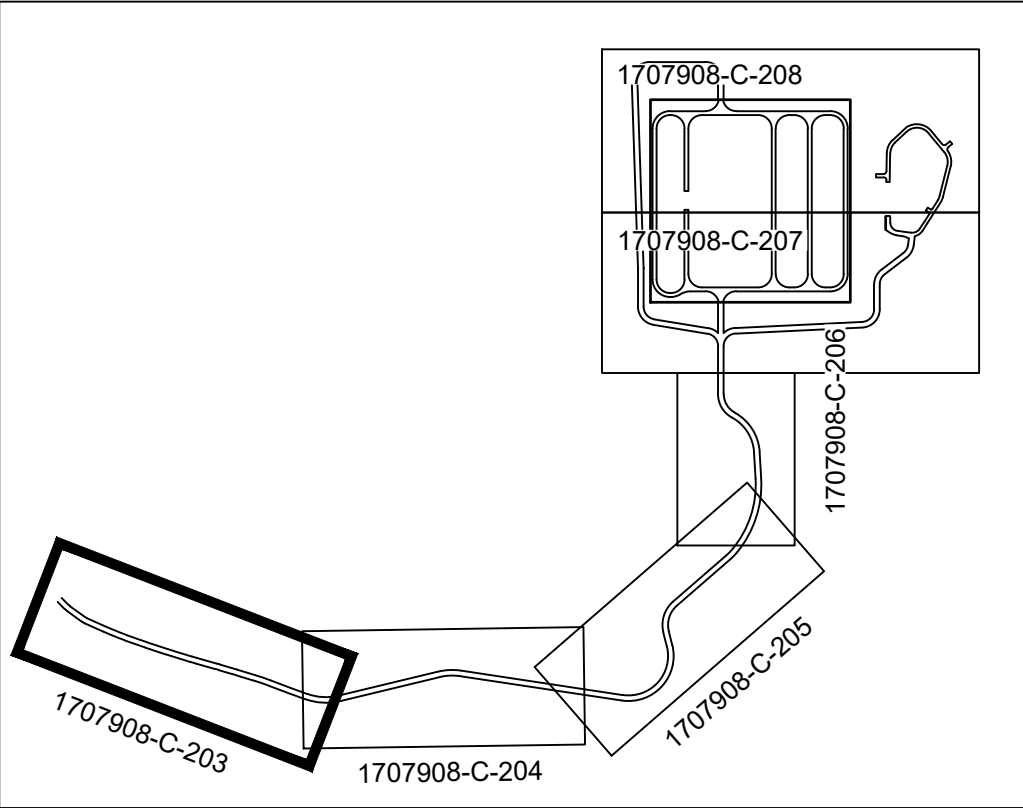
REVISIONS				 Dewberry® Dewberry Engineers Inc. 4805 Lake Brook Drive, Suite 200 Glen Allen, VA, 23060 (p) 804.234.7657	
					
REV	DATE	DESCRIPTION		DEWBERRY PROJECT NO.: 50157950	
 Dominion Energy®					
ESC NARRATIVE II					
UNITY SUBSTATION LUNENBURG COUNTY VIRGINIA					
OPERATIONAL REGION		B/M No.		SCALE	AS SHOWN
PROJECT	5017950	NAME	DATE	SHEET: 1707908-C-202	
DESIGNER		MFR	8/18/23		
PROJECT ENGINEER		GA	8/18/23	DRAWING: 1707908-C-202.dwg	
APPROVED BY		KAS	8/18/23		



EROSION & SEDIMENT CONTROL LEGEND

ID	SYMBOL	NAME OF E&S MEASURE	SPEC*
CE		CONSTRUCTION ENTRANCE	3.02
SF		SILT FENCE	3.05
SSF		SILT FENCE W/ WIRE SUPPORT	3.05
TS		TEMPORARY SEEDING	3.31
PS		PERMANENT SEEDING	3.32
MU		MULCHING	3.35
TP		TREE PROTECTION	3.38
DC		DUST CONTROL	3.39
		LIMITS OF DISTURBANCE	

* VIRGINIA EROSION & SEDIMENT CONTROL HANDBOOK SPECIFICATION NUMBER



KEY PLAN

REVISIONS

REV	DATE	DESCRIPTION

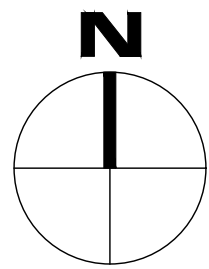
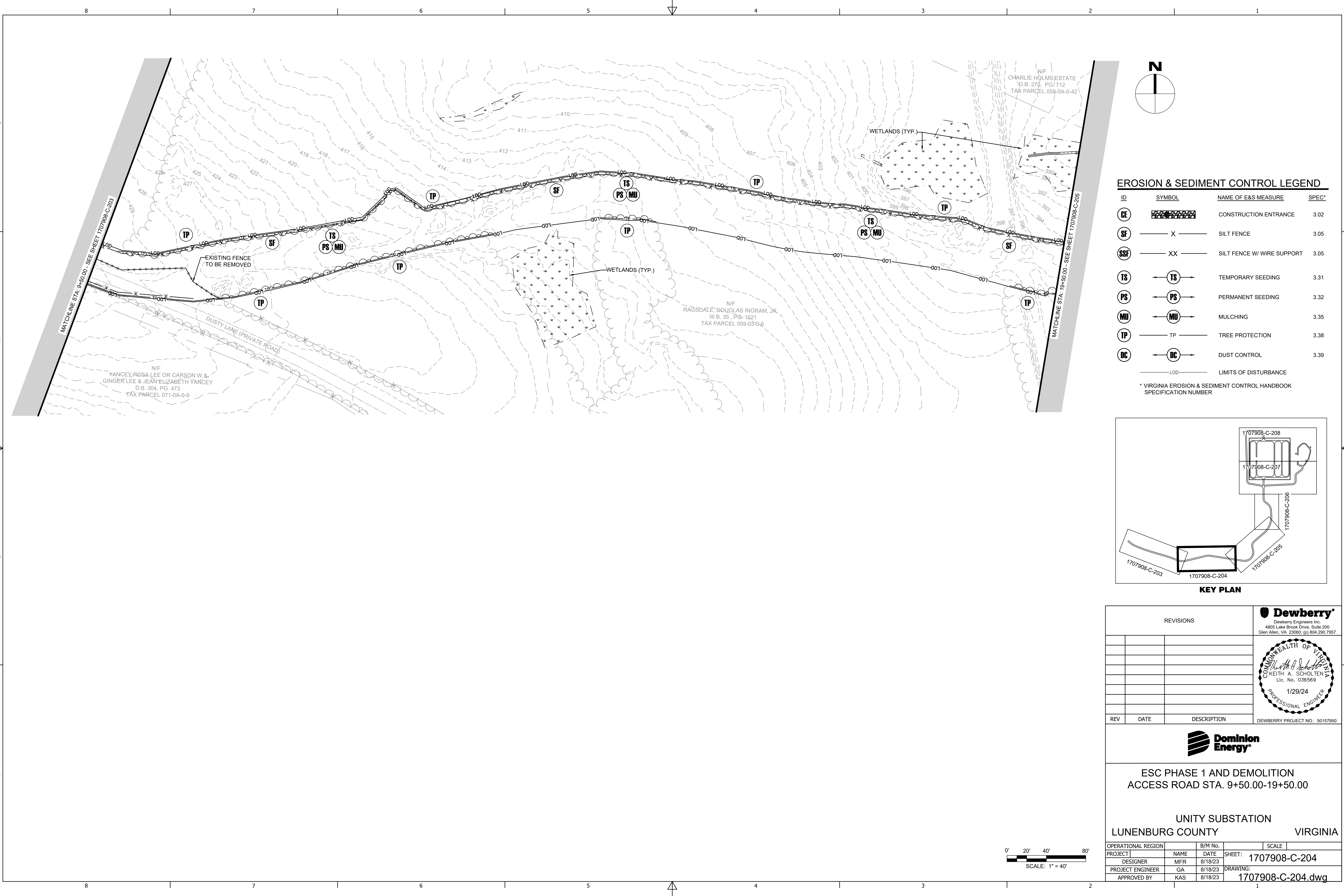
Dewberry Engineers Inc.
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Glen Allen, VA 23060 (p) 804.290.7957

KEITH A. SCHOLTEN
Lic. No. 036569
1/29/24
PROFESSIONAL ENGINEER

ESC PHASE 1 AND DEMOLITION
ACCESS ROAD STA. 0+00.00-9+50.00

UNITY SUBSTATION
LUNENBURG COUNTY VIRGINIA

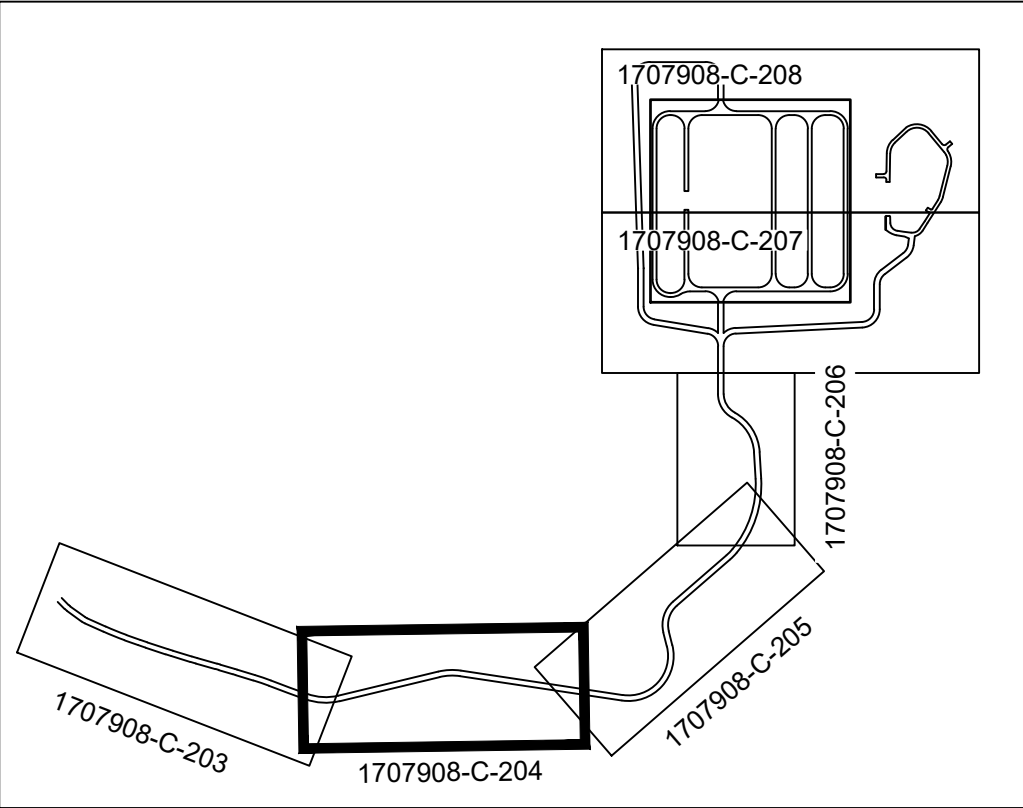
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PROJECT	DESIGNER	MFR	GA	1707908-C-203	
PROJECT ENGINEER	APPROVED BY	KAS	8/18/23	DRAWING:	
				1707908-C-203.dwg	



EROSION & SEDIMENT CONTROL LEGEND

ID	SYMBOL	NAME OF E&S MEASURE	SPEC*
CE		CONSTRUCTION ENTRANCE	3.02
SF		SILT FENCE	3.05
SSF		SILT FENCE W/ WIRE SUPPORT	3.05
TS		TEMPORARY SEEDING	3.31
PS		PERMANENT SEEDING	3.32
MU		MULCHING	3.35
TP		TREE PROTECTION	3.38
DC		DUST CONTROL	3.39
		LIMITS OF DISTURBANCE	

* VIRGINIA EROSION & SEDIMENT CONTROL HANDBOOK SPECIFICATION NUMBER



KEY PLAN

REVISIONS

REV	DATE	DESCRIPTION

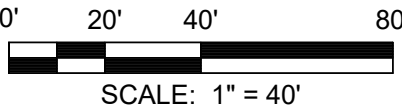
Dewberry Engineers Inc.
4805 Lake Brook Drive, Suite 200
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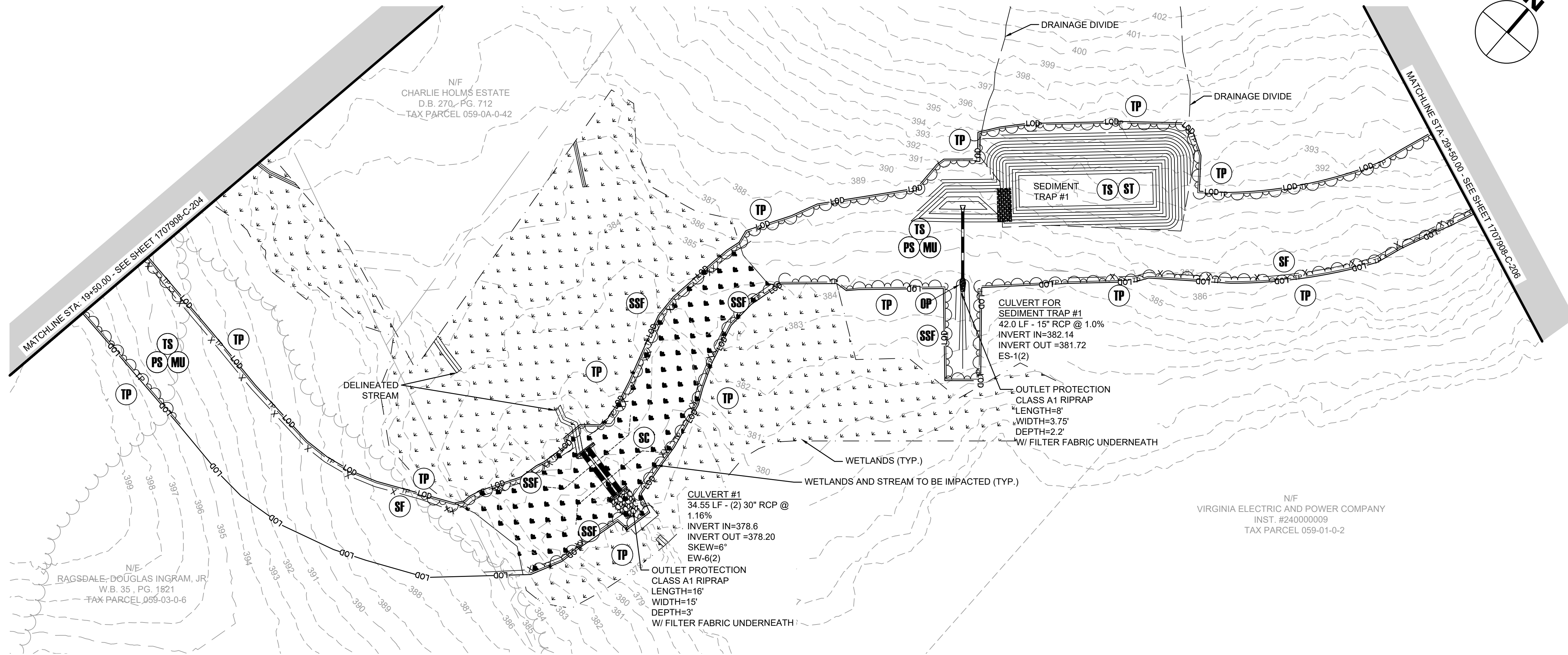
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ESC PHASE 1 AND DEMOLITION
ACCESS ROAD STA. 9+50.00-19+50.00

UNITY SUBSTATION
LUNENBURG COUNTY VIRGINIA

OPERATIONAL REGION	NAME	B/M No.	DATE	SHEET:	SCALE
PROJECT	DESIGNER	MFR	8/18/23	1707908-C-204	
PROJECT ENGINEER	GA	8/18/23	DRAWING:		
APPROVED BY	KAS	8/18/23	1707908-C-204.dwg		

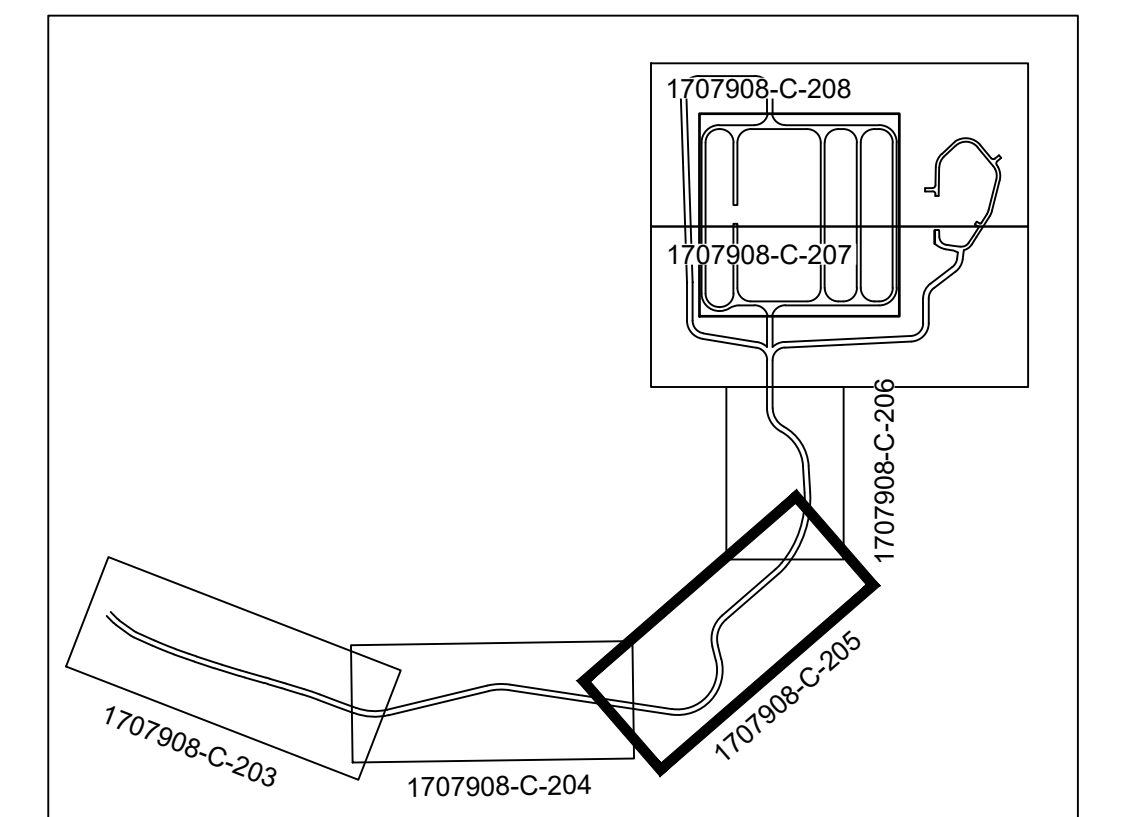




EROSION & SEDIMENT CONTROL LEGEND

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SF		SILT FENCE	3.05
SSF		SILT FENCE W/ WIRE SUPPORT	3.05
TS		TEMPORARY SEEDING	3.31
PS		PERMANENT SEEDING	3.32
MU		MULCHING	3.35
TP		TREE PROTECTION	3.38
DC		DUST CONTROL	3.39
SC		VEHICULAR STREAM CROSSING	3.24
		LIMITS OF DISTURBANCE	

* VIRGINIA EROSION & SEDIMENT CONTROL HANDBOOK SPECIFICATION NUMBER

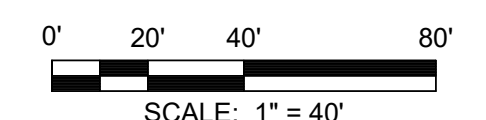


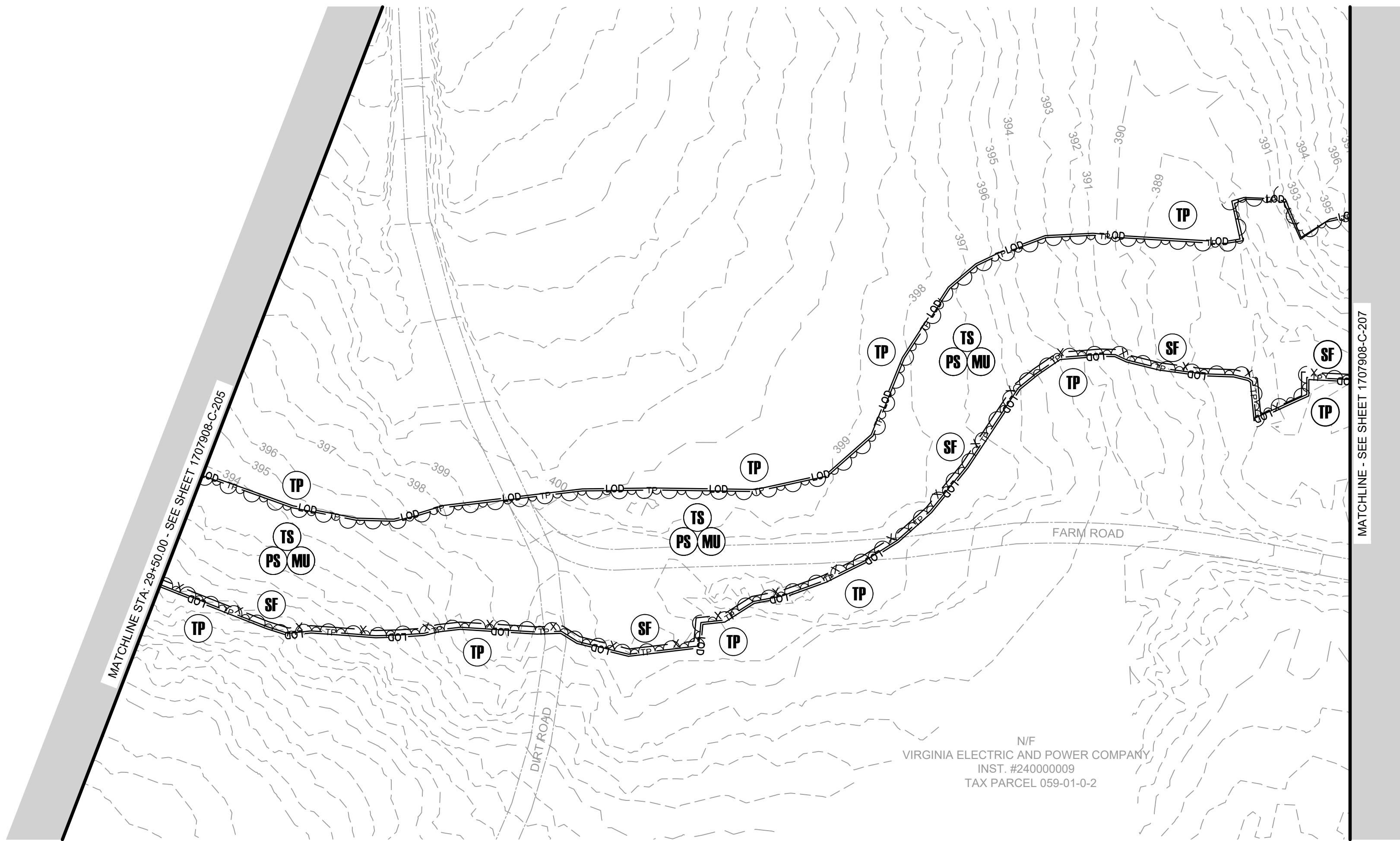
REVISIONS			 Dewberry Engineers Inc. 4805 Lake Brook Drive, Suite 200 Glen Allen, VA 23060 (p) 804.290.7957
REV	DATE	DESCRIPTION	
			DEWBERRY PROJECT NO.: 50157950

ESC PHASE 1 AND DEMOLITION
ACCESS ROAD STA. 19+50.00-29+50.00

UNITY SUBSTATION
LUNENBURG COUNTY VIRGINIA

OPERATIONAL REGION	NAME	B/M No.	DATE	SHEET:	SCALE
PROJECT	DESIGNER	MFR	8/18/23	1707908-C-205	
PROJECT ENGINEER	GA	8/18/23	DRAWING:		
APPROVED BY	KAS	8/18/23	1707908-C-205.dwg		

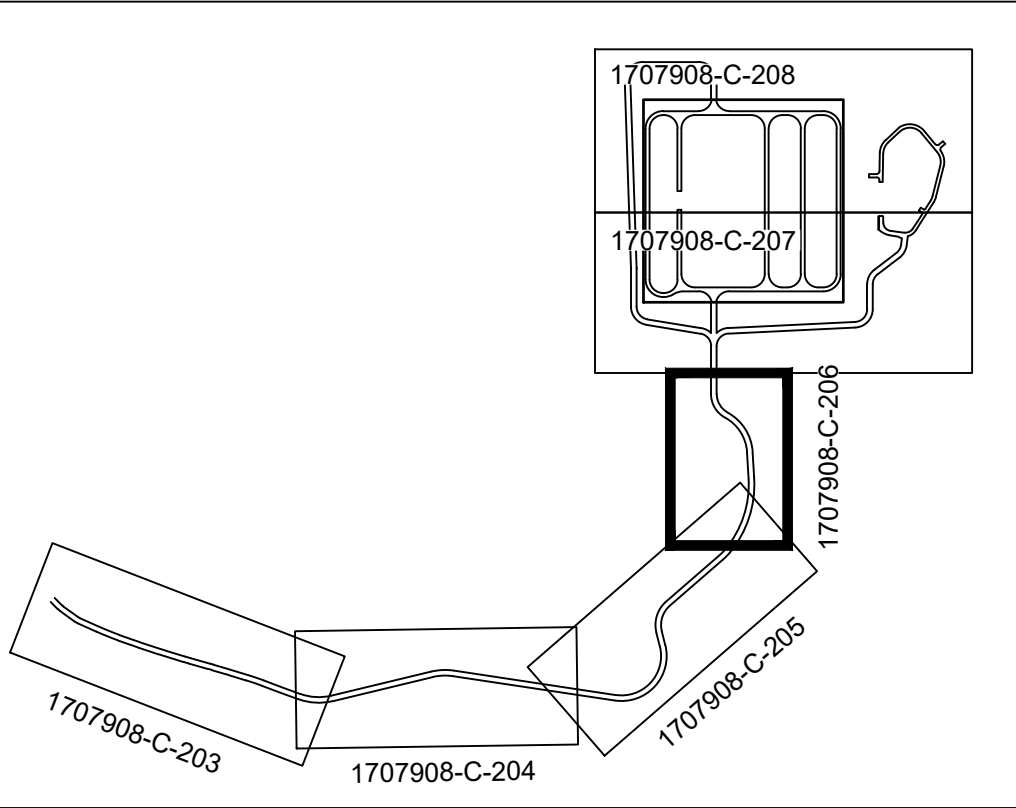




EROSION & SEDIMENT CONTROL LEGEND

ID	SYMBOL	NAME OF E&S MEASURE	SPEC*
CE		CONSTRUCTION ENTRANCE	3.02
SF		SILT FENCE	3.05
SSF		SILT FENCE W/ WIRE SUPPORT	3.05
TS		TEMPORARY SEEDING	3.31
PS		PERMANENT SEEDING	3.32
MU		MULCHING	3.35
TP		TREE PROTECTION	3.38
DC		DUST CONTROL	3.39
		LIMITS OF DISTURBANCE	

* VIRGINIA EROSION & SEDIMENT CONTROL HANDBOOK
SPECIFICATION NUMBER



KEY PLAN

REVISIONS

REV	DATE	DESCRIPTION

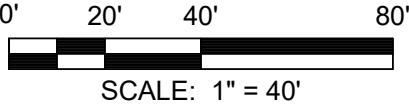
Dewberry Engineers Inc.
4805 Lake Brook Drive, Suite 200
Glen Allen, VA 23060 (p) 804.290.7957

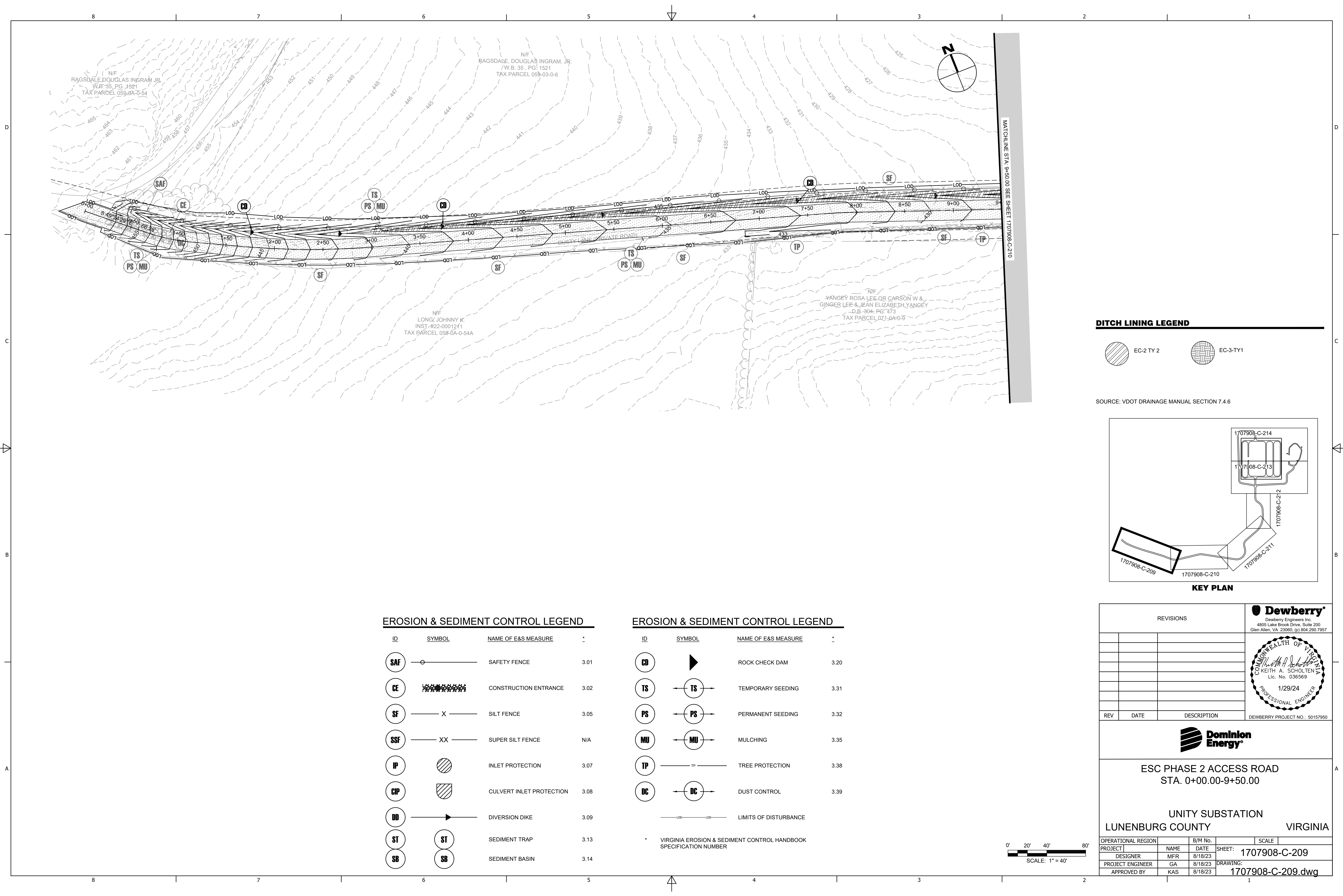
KEITH A. SCHOLTEN
Lic. No. 036569
1/29/24
PROFESSIONAL ENGINEER

ESC PHASE 1 AND DEMOLITION
ACCESS ROAD STA. 29+50.00-38+50.00

UNITY SUBSTATION
LUNENBURG COUNTY VIRGINIA

OPERATIONAL REGION	NAME	B/M No.	DATE	SHEET:	SCALE
PROJECT	DESIGNER	MFR	8/18/23	1707908-C-206	
PROJECT ENGINEER	GA	8/18/23	DRAWING:		
APPROVED BY	KAS	8/18/23	1707908-C-206.dwg		

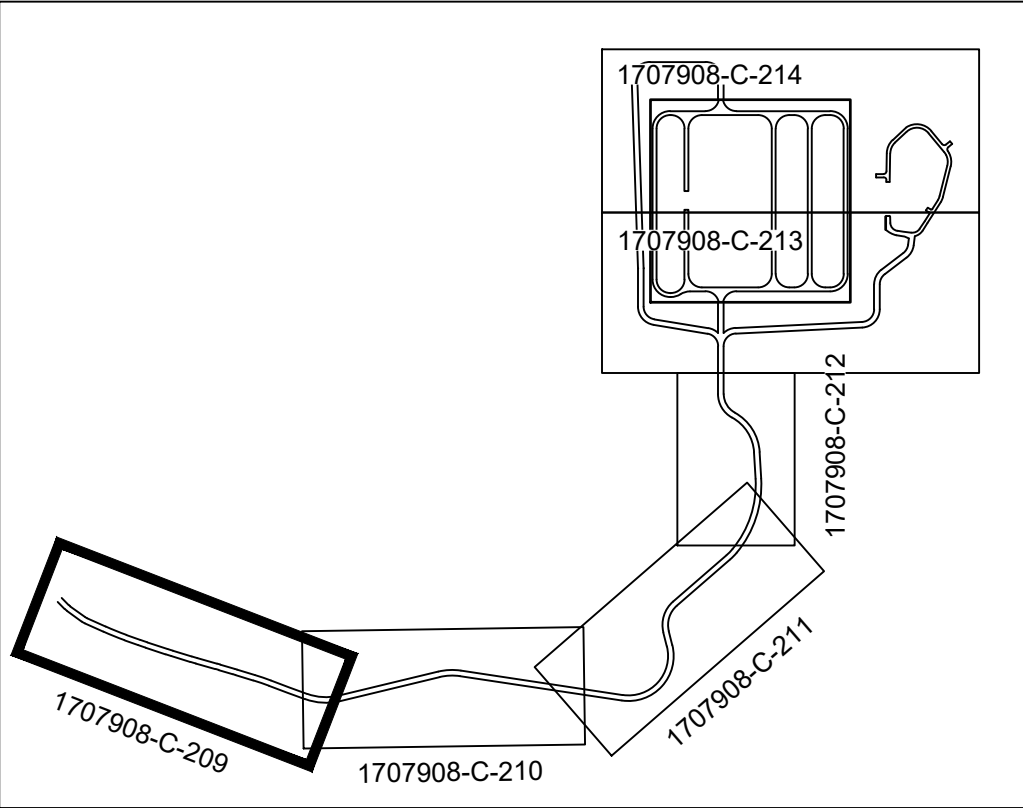




DITCH LINING LEGEND



SOURCE: VDOT DRAINAGE MANUAL SECTION 7.4.6



KEY PLAN

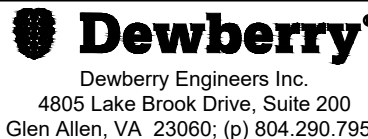
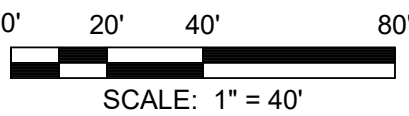
EROSION & SEDIMENT CONTROL LEGEND

ID	SYMBOL	NAME OF E&S MEASURE	1
SAF		SAFETY FENCE	3.01
CE		CONSTRUCTION ENTRANCE	3.02
SF		SILT FENCE	3.05
SSF		SUPER SILT FENCE	N/A
IP		INLET PROTECTION	3.07
CIP		CULVERT INLET PROTECTION	3.08
DD		DIVERSION DIKE	3.09
ST		SEDIMENT TRAP	3.13
SB		SEDIMENT BASIN	3.14

EROSION & SEDIMENT CONTROL LEGEND

ID	SYMBOL	NAME OF E&S MEASURE	1
CD		ROCK CHECK DAM	3.20
TS		TEMPORARY SEEDING	3.31
PS		PERMANENT SEEDING	3.32
MU		MULCHING	3.35
TP		TREE PROTECTION	3.38
DC		DUST CONTROL	3.39
		LIMITS OF DISTURBANCE	

* VIRGINIA EROSION & SEDIMENT CONTROL HANDBOOK SPECIFICATION NUMBER



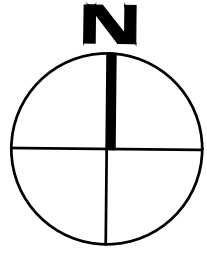
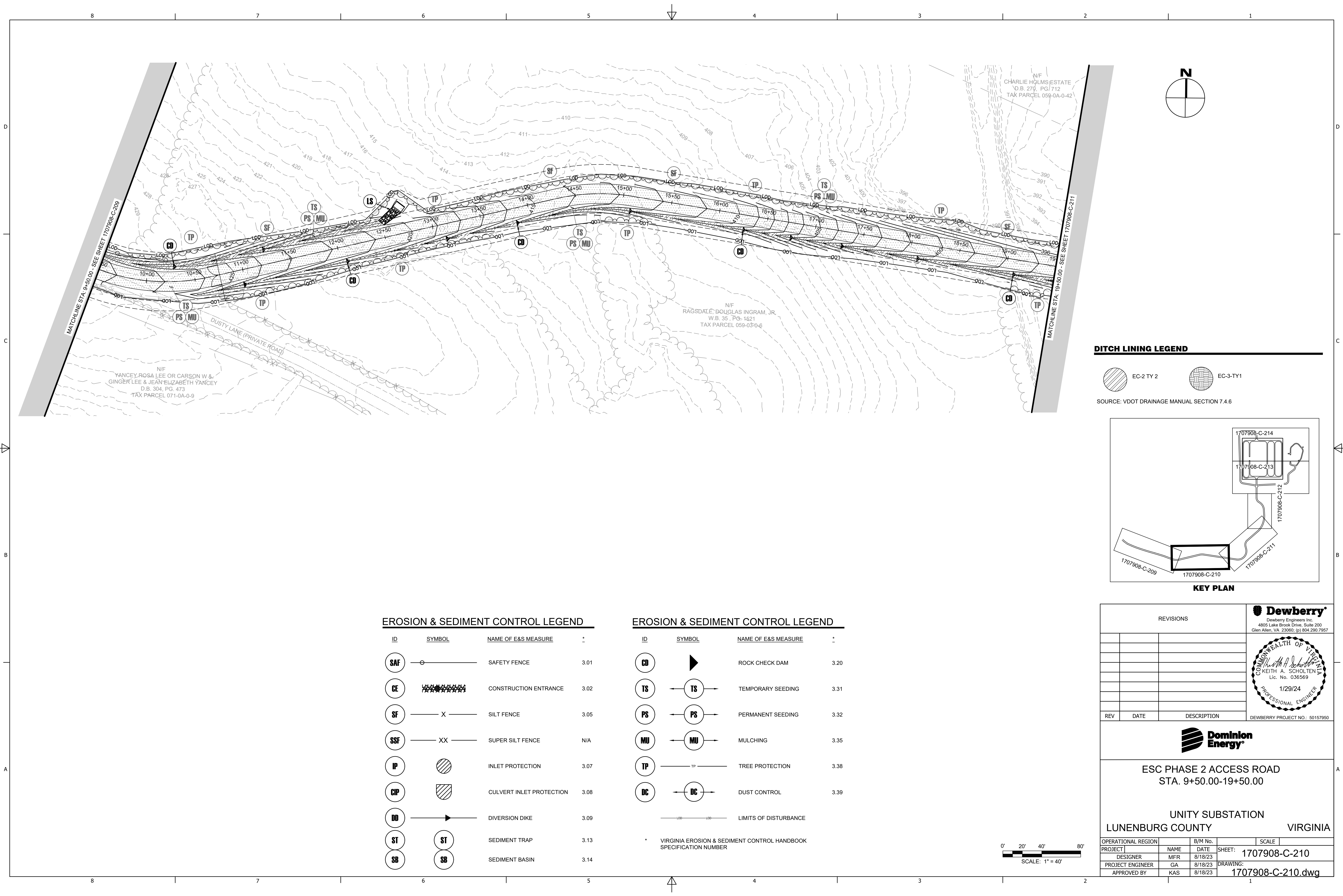
DEWBERRY PROJECT NO.: 50157950



ESC PHASE 2 ACCESS ROAD
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UNITY SUBSTATION
LUNENBURG COUNTY VIRGINIA

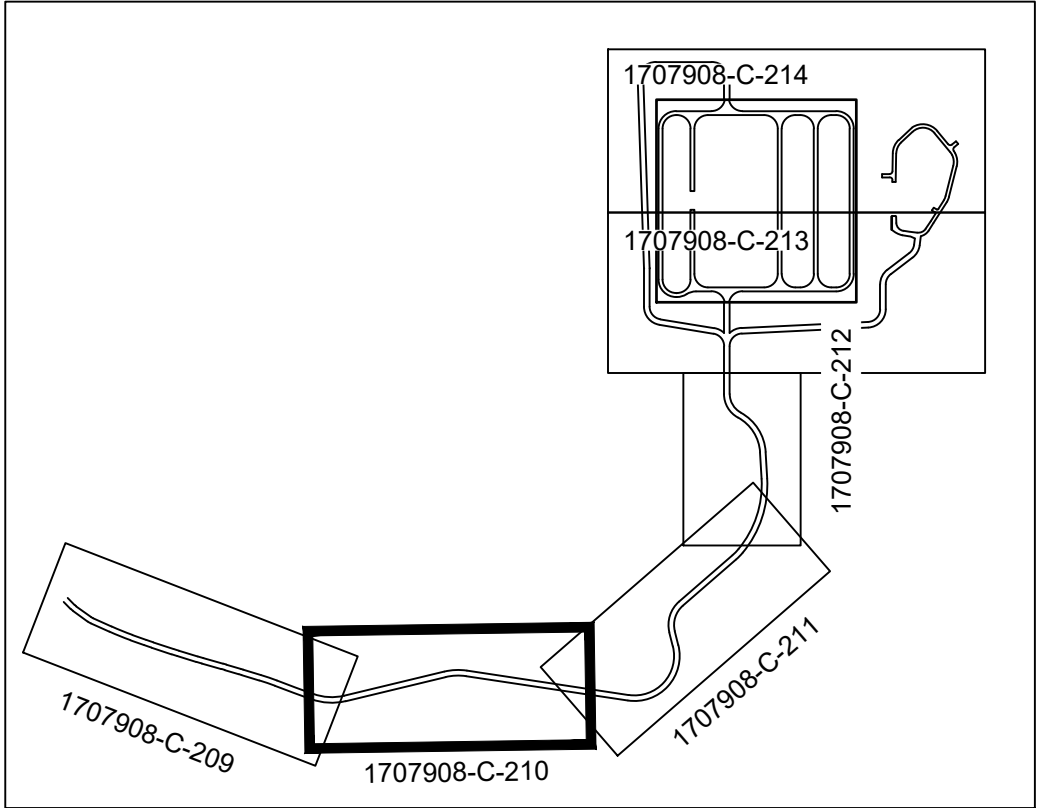
OPERATIONAL REGION	NAME	B/M No.	DATE	SHEET:	SCALE
PROJECT	DESIGNER	MFR	8/18/23	1707908-C-209	
PROJECT ENGINEER	GA	8/18/23	DRAWING:		
APPROVED BY	KAS	8/18/23	1707908-C-209.dwg		



DITCH LINING LEGEND

- EC-2 TY 2
- EC-3-TY1

SOURCE: VDOT DRAINAGE MANUAL SECTION 7.4.6



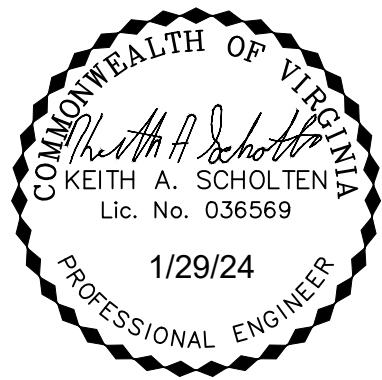
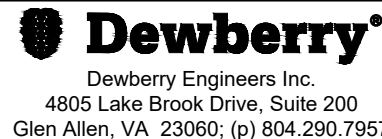
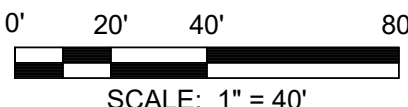
KEY PLAN

EROSION & SEDIMENT CONTROL LEGEND

ID	SYMBOL	NAME OF E&S MEASURE	*
SAF		SAFETY FENCE	3.01
CE		CONSTRUCTION ENTRANCE	3.02
SF		SILT FENCE	3.05
SSF		SUPER SILT FENCE	N/A
IP		INLET PROTECTION	3.07
CIP		CULVERT INLET PROTECTION	3.08
DD		DIVERSION DIKE	3.09
ST		SEDIMENT TRAP	3.13
SB		SEDIMENT BASIN	3.14

EROSION & SEDIMENT CONTROL LEGEND

ID	SYMBOL	NAME OF E&S MEASURE	*
CD		ROCK CHECK DAM	3.20
TS		TEMPORARY SEEDING	3.31
PS		PERMANENT SEEDING	3.32
MU		MULCHING	3.35
TP		TREE PROTECTION	3.38
DC		DUST CONTROL	3.39
		LIMITS OF DISTURBANCE	
* VIRGINIA EROSION & SEDIMENT CONTROL HANDBOOK SPECIFICATION NUMBER			



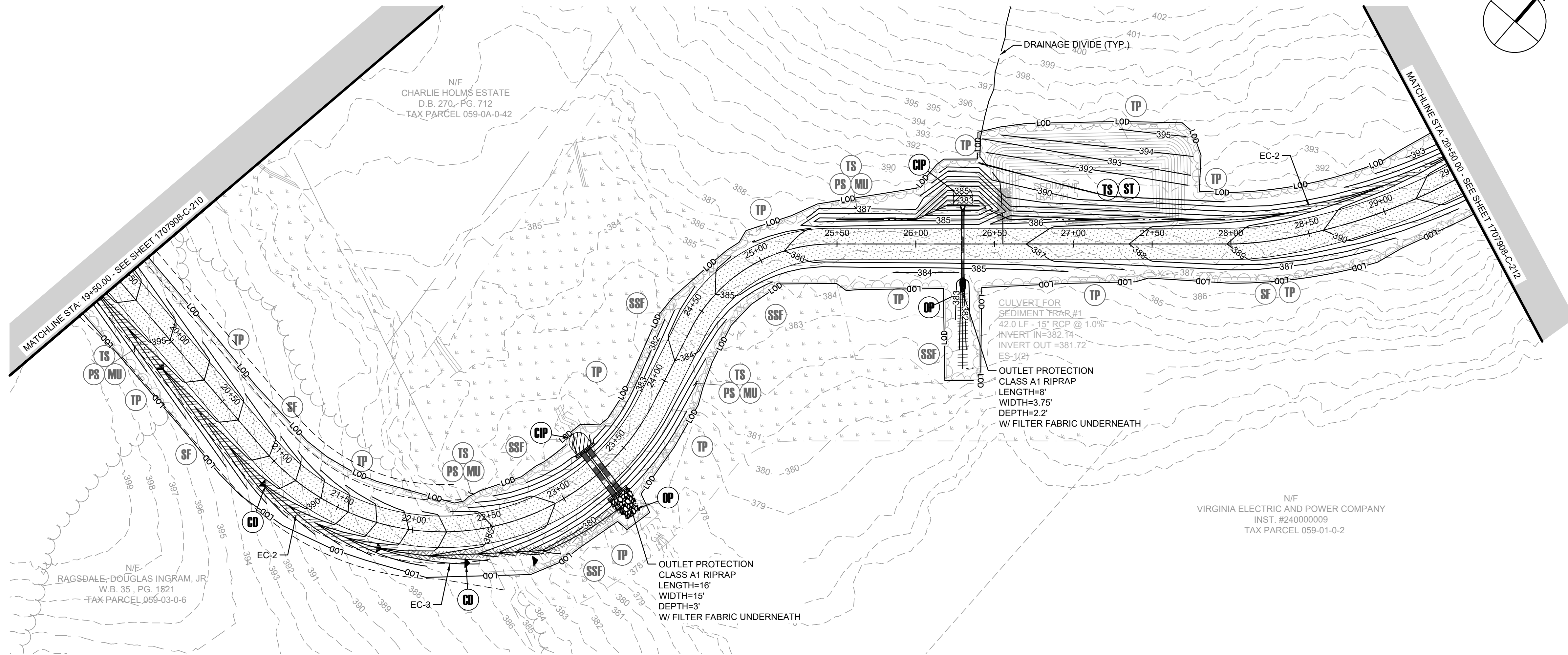
DEWBERRY PROJECT NO.: 50157950



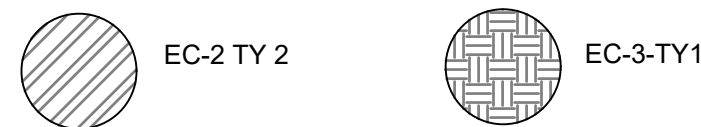
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STA. 9+50.00-19+50.00

UNITY SUBSTATION
LUNENBURG COUNTY VIRGINIA

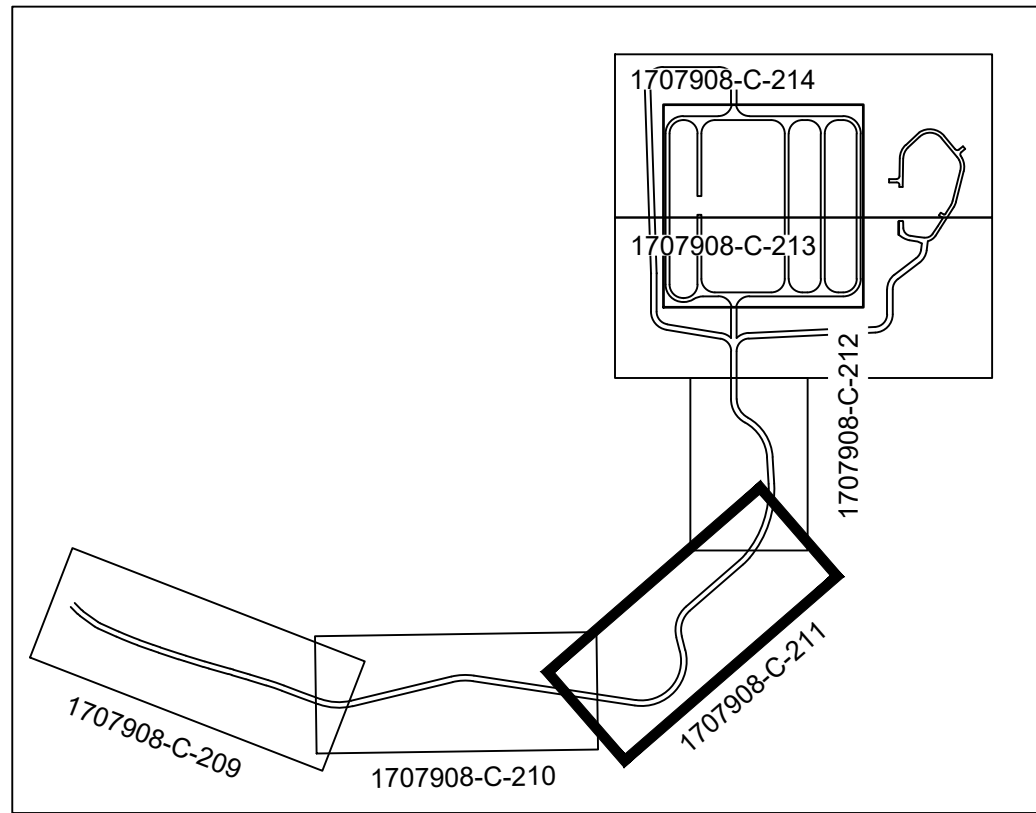
OPERATIONAL REGION	NAME	B/M No.	DATE	SCALE
PROJECT	DESIGNER	MFR	8/18/23	SHEET: 1707908-C-210
PROJECT ENGINEER	GA	8/18/23	DRAWING:	
APPROVED BY	KAS	8/18/23	1707908-C-210.dwg	



DITCH LINING LEGEND



SOURCE: VDOT DRAINAGE MANUAL SECTION 7.4.6



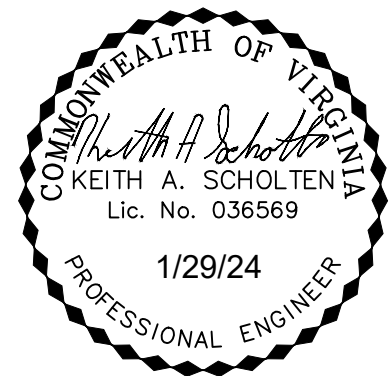
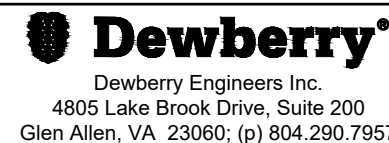
KEY PLAN

EROSION & SEDIMENT CONTROL LEGEND

ID	SYMBOL	NAME OF E&S MEASURE	1
SAF		SAFETY FENCE	3.01
CE		CONSTRUCTION ENTRANCE	3.02
SF		SILT FENCE	3.05
SSF		SUPER SILT FENCE	N/A
IP		INLET PROTECTION	3.07
CIP		CULVERT INLET PROTECTION	3.08
DD		DIVERSION DIKE	3.09
ST		SEDIMENT TRAP	3.13
SB		SEDIMENT BASIN	3.14

EROSION & SEDIMENT CONTROL LEGEND

ID	SYMBOL	NAME OF E&S MEASURE	1
CD		ROCK CHECK DAM	3.20
TS		TEMPORARY SEEDING	3.31
PS		PERMANENT SEEDING	3.32
MU		MULCHING	3.35
TP		TREE PROTECTION	3.38
DC		DUST CONTROL	3.39
		LIMITS OF DISTURBANCE	
* VIRGINIA EROSION & SEDIMENT CONTROL HANDBOOK SPECIFICATION NUMBER			



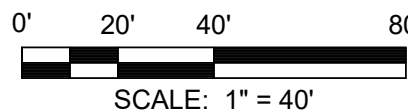
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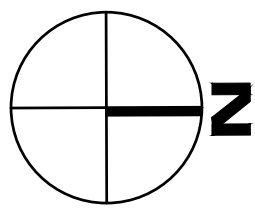
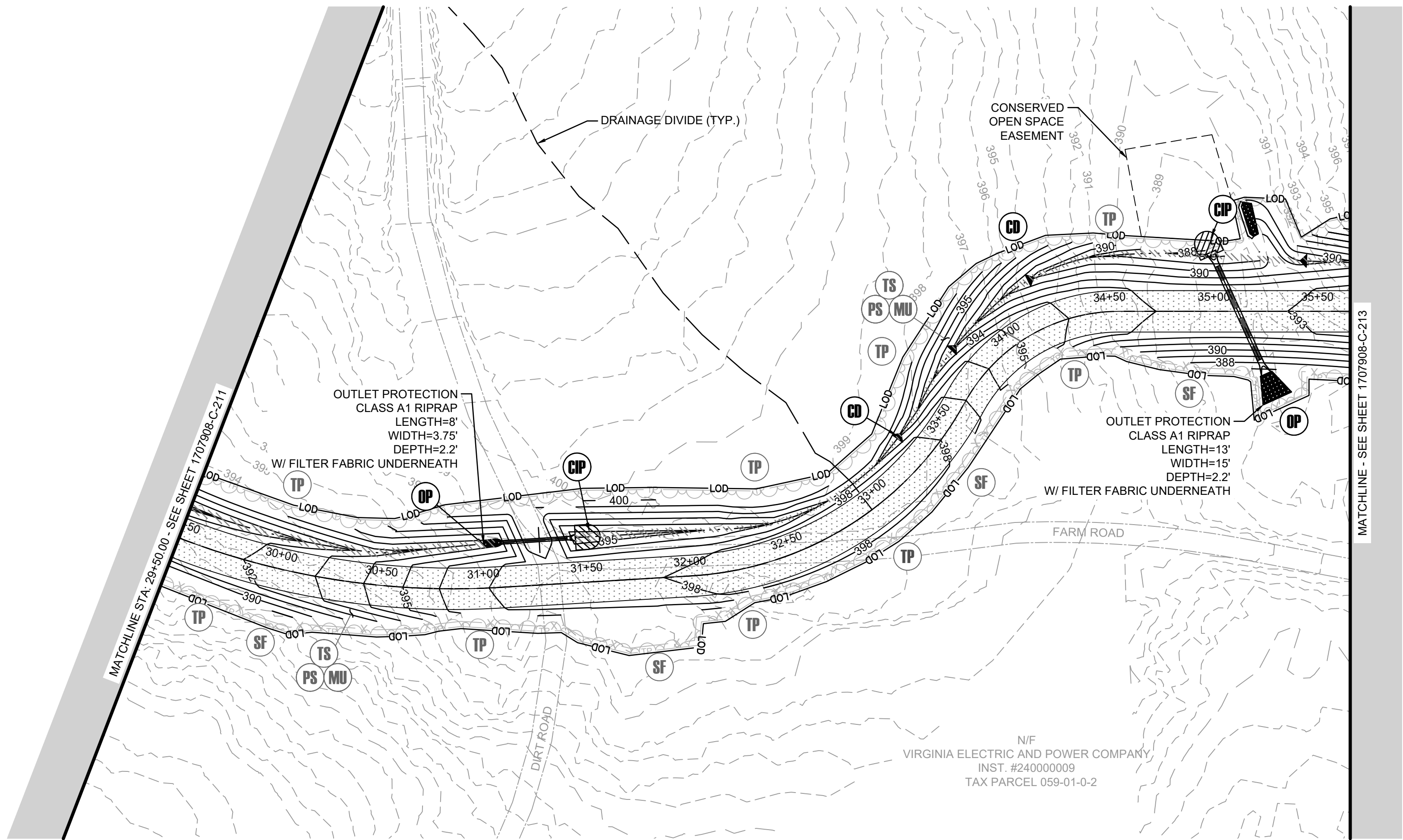


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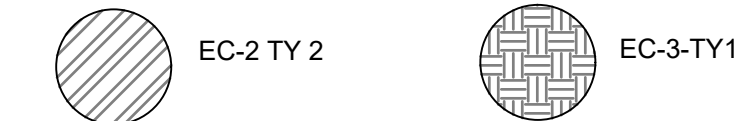
UNITY SUBSTATION
LUNENBURG COUNTY VIRGINIA

OPERATIONAL REGION	NAME	B/M No.	DATE	SCALE
PROJECT	DESIGNER	MFR	8/18/23	SHEET: 1707908-C-211
PROJECT ENGINEER	GA	8/18/23	DRAWING: 1707908-C-211.dwg	
APPROVED BY	KAS	8/18/23		

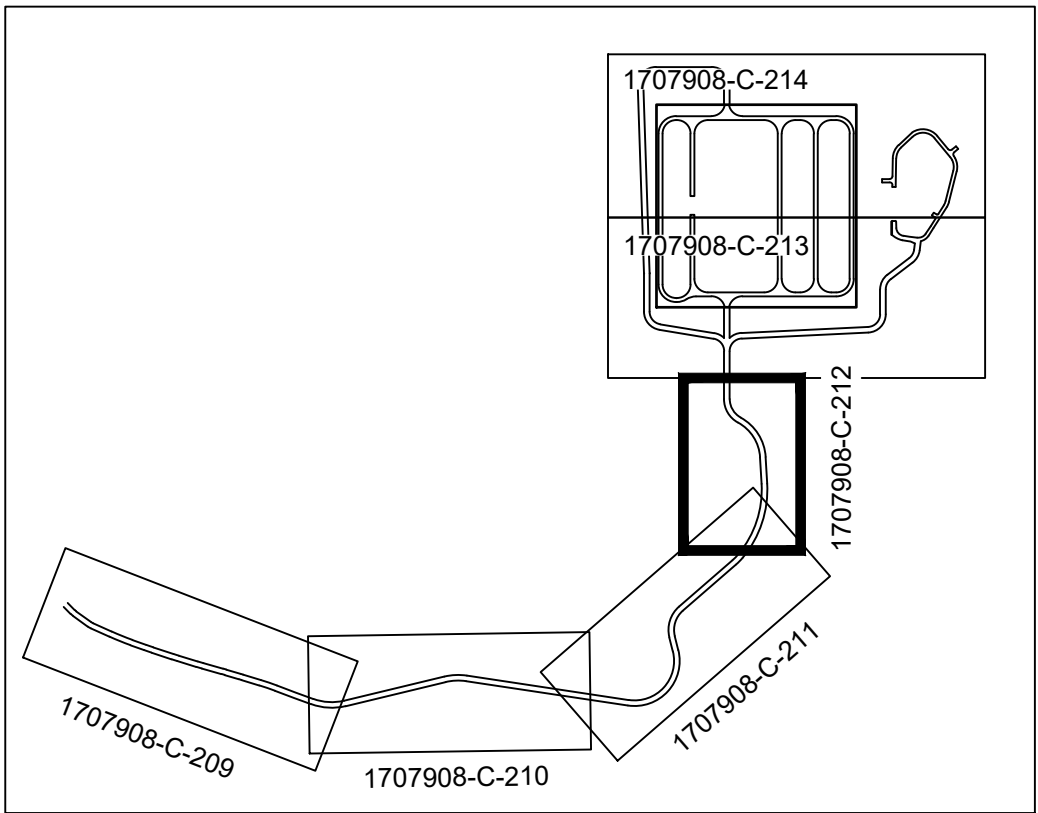




DITCH LINING LEGEND



SOURCE: VDOT DRAINAGE MANUAL SECTION 7.4.6



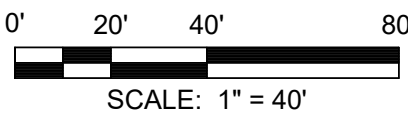
KEY PLAN

EROSION & SEDIMENT CONTROL LEGEND

ID	SYMBOL	NAME OF E&S MEASURE	1
SAF		SAFETY FENCE	3.01
CE		CONSTRUCTION ENTRANCE	3.02
SF		SILT FENCE	3.05
SSF		SUPER SILT FENCE	N/A
IP		INLET PROTECTION	3.07
CIP		CULVERT INLET PROTECTION	3.08
DD		DIVERSION DIKE	3.09
ST		SEDIMENT TRAP	3.13
SB		SEDIMENT BASIN	3.14

EROSION & SEDIMENT CONTROL LEGEND

ID	SYMBOL	NAME OF E&S MEASURE	1
CD		ROCK CHECK DAM	3.20
TS		TEMPORARY SEEDING	3.31
PS		PERMANENT SEEDING	3.32
MU		MULCHING	3.35
TP		TREE PROTECTION	3.38
DC		DUST CONTROL	3.39
		LIMITS OF DISTURBANCE	
* VIRGINIA EROSION & SEDIMENT CONTROL HANDBOOK SPECIFICATION NUMBER			



REVISIONS

REV	DATE	DESCRIPTION

Dewberry Engineers Inc.
4805 Lake Brook Drive, Suite 200
Glen Allen, VA 23060 (p) 804.290.7957

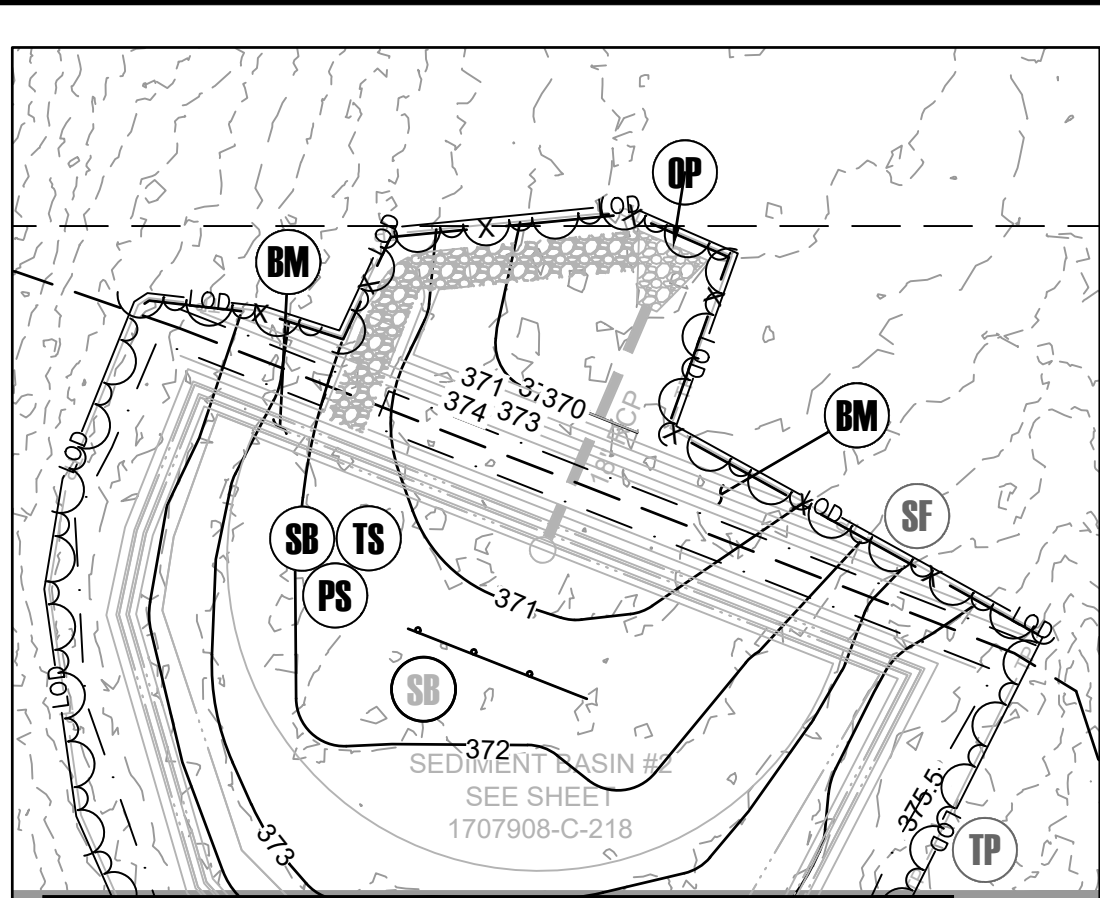
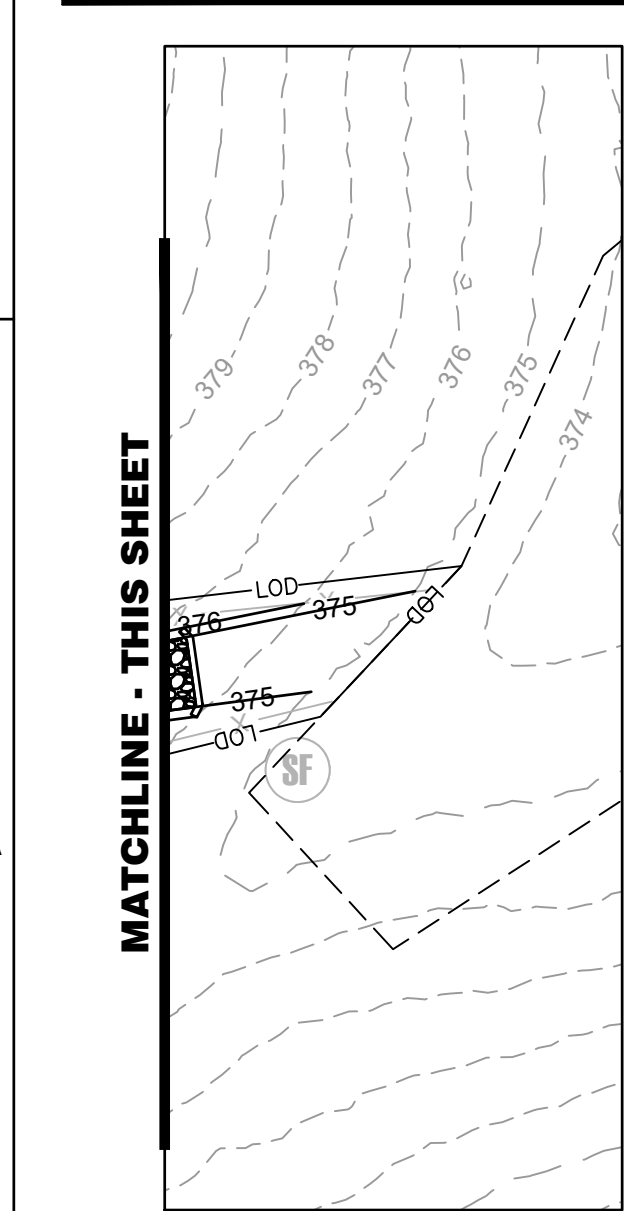
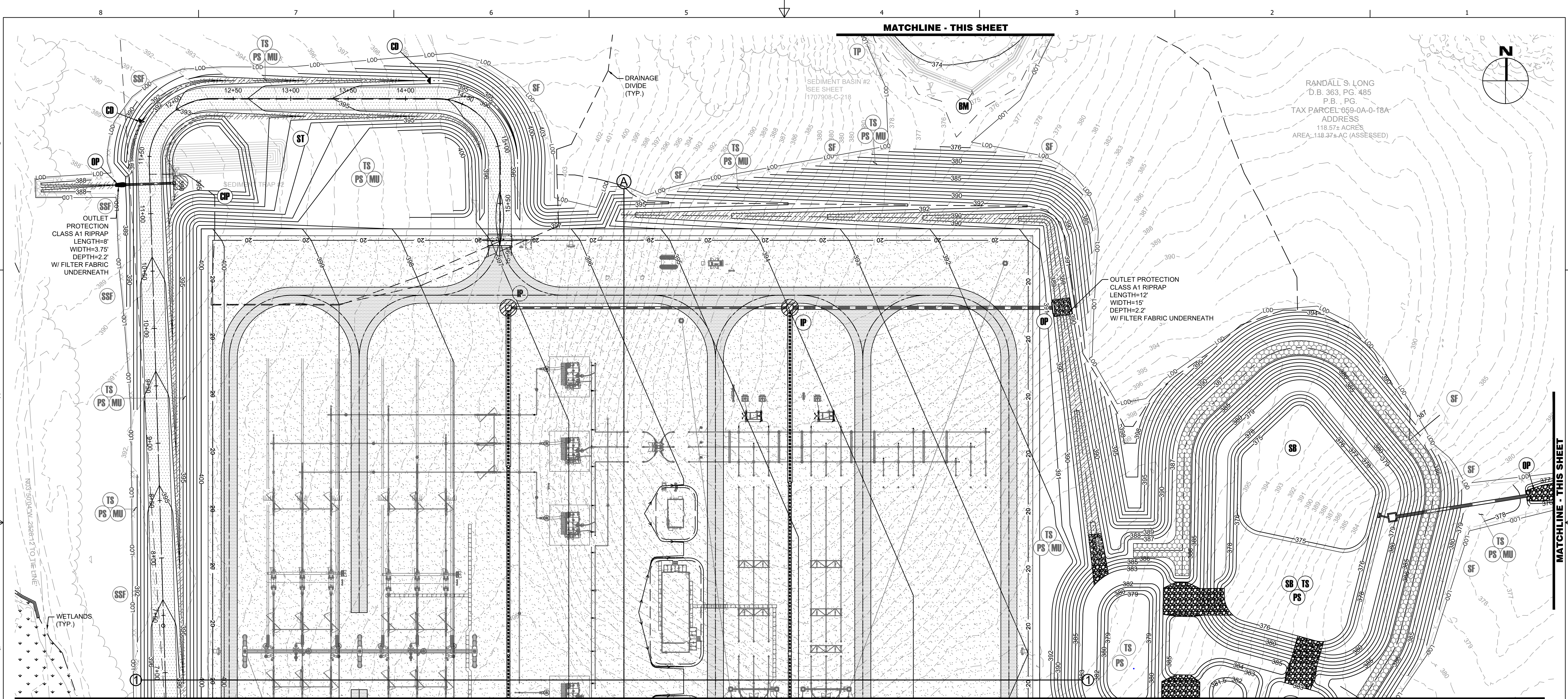
1707908-C-212

DOMINION
Energy

ESC PHASE 2 ACCESS ROAD
STA. 29+50.00-38+50.00

UNITY SUBSTATION
LUNENBURG COUNTY VIRGINIA

OPERATIONAL REGION	NAME	B/M No.	DATE	SHEET:	SCALE
PROJECT	DESIGNER	MFR	8/18/23	1707908-C-212	
PROJECT ENGINEER	GA	8/18/23	DRAWING:		
APPROVED BY	KAS	8/18/23	1707908-C-212.dwg		



EROSION & SEDIMENT CONTROL LEGEND

ID	SYMBOL	NAME OF E&S MEASURE	1
SAF		SAFETY FENCE	3.01
CE		CONSTRUCTION ENTRANCE	3.02
SF		SILT FENCE	3.05
SSF		SUPER SILT FENCE	N/A
IP		INLET PROTECTION	3.07
CIP		CULVERT INLET PROTECTION	3.08
DD		DIVERSION DIKE	3.09
ST		SEDIMENT TRAP	3.13
SB		SEDIMENT BASIN	3.14

EROSION & SEDIMENT CONTROL LEGEND

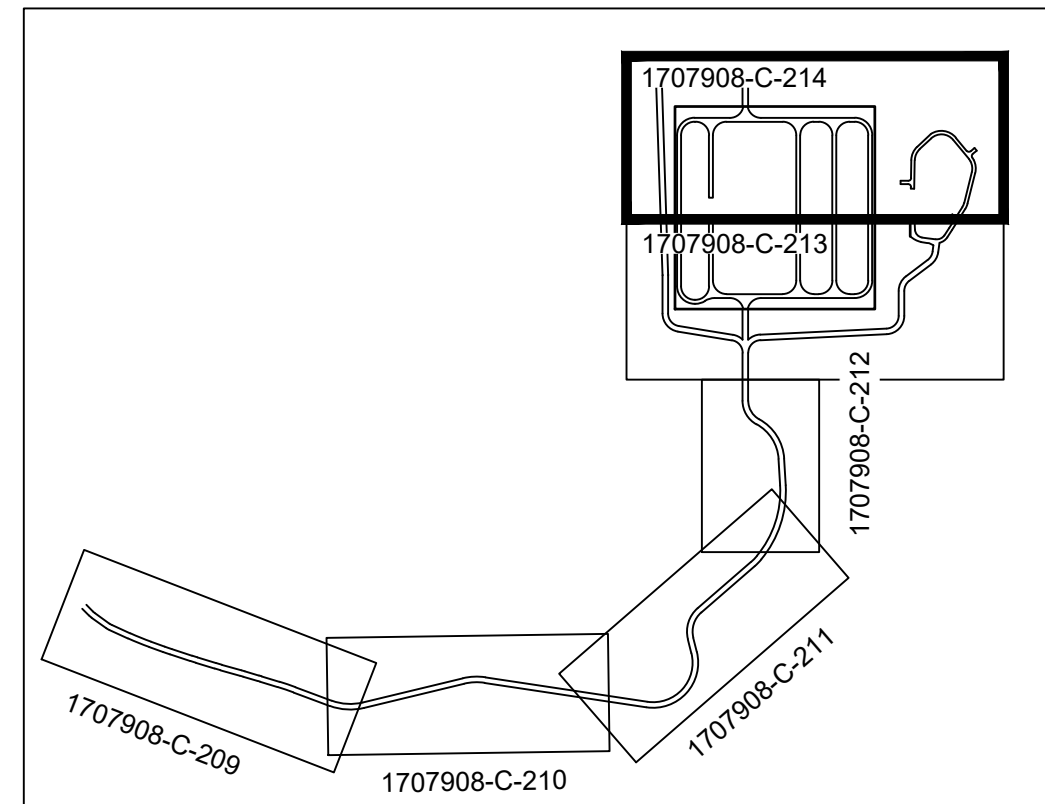
ID	SYMBOL	NAME OF E&S MEASURE	1
CD		ROCK CHECK DAM	3.20
TS		TEMPORARY SEEDING	3.31
PS		PERMANENT SEEDING	3.32
MU		MULCHING	3.35
BM		BLANKET MATTING	3.36
TP		TREE PROTECTION	3.38
DC		DUST CONTROL	3.39

1 LIMITS OF DISTURBANCE
* VIRGINIA EROSION & SEDIMENT CONTROL HANDBOOK SPECIFICATION NUMBER

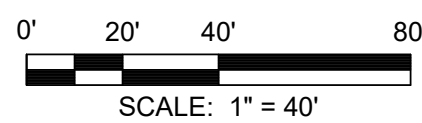
DITCH LINING LEGEND

	EC-2 TY 2		EC-3 TY 1
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SOURCE: VDOT DRAINAGE MANUAL SECTION 7.4.6




KEY PLAN

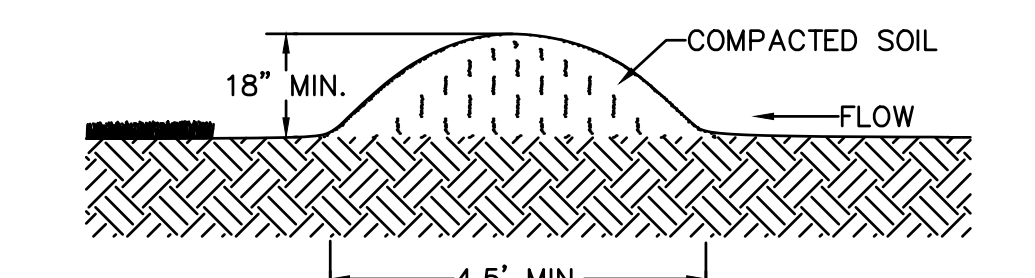
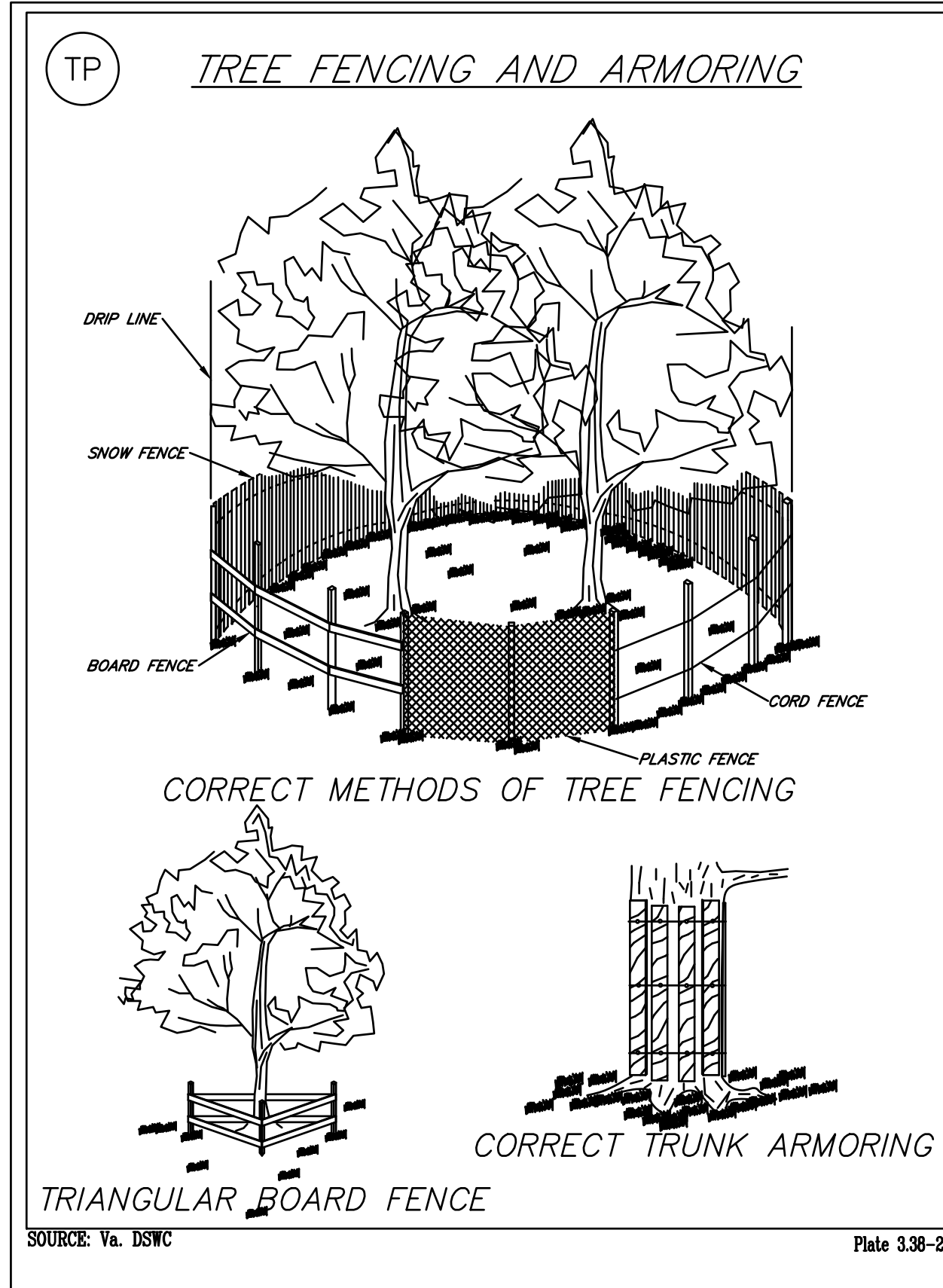
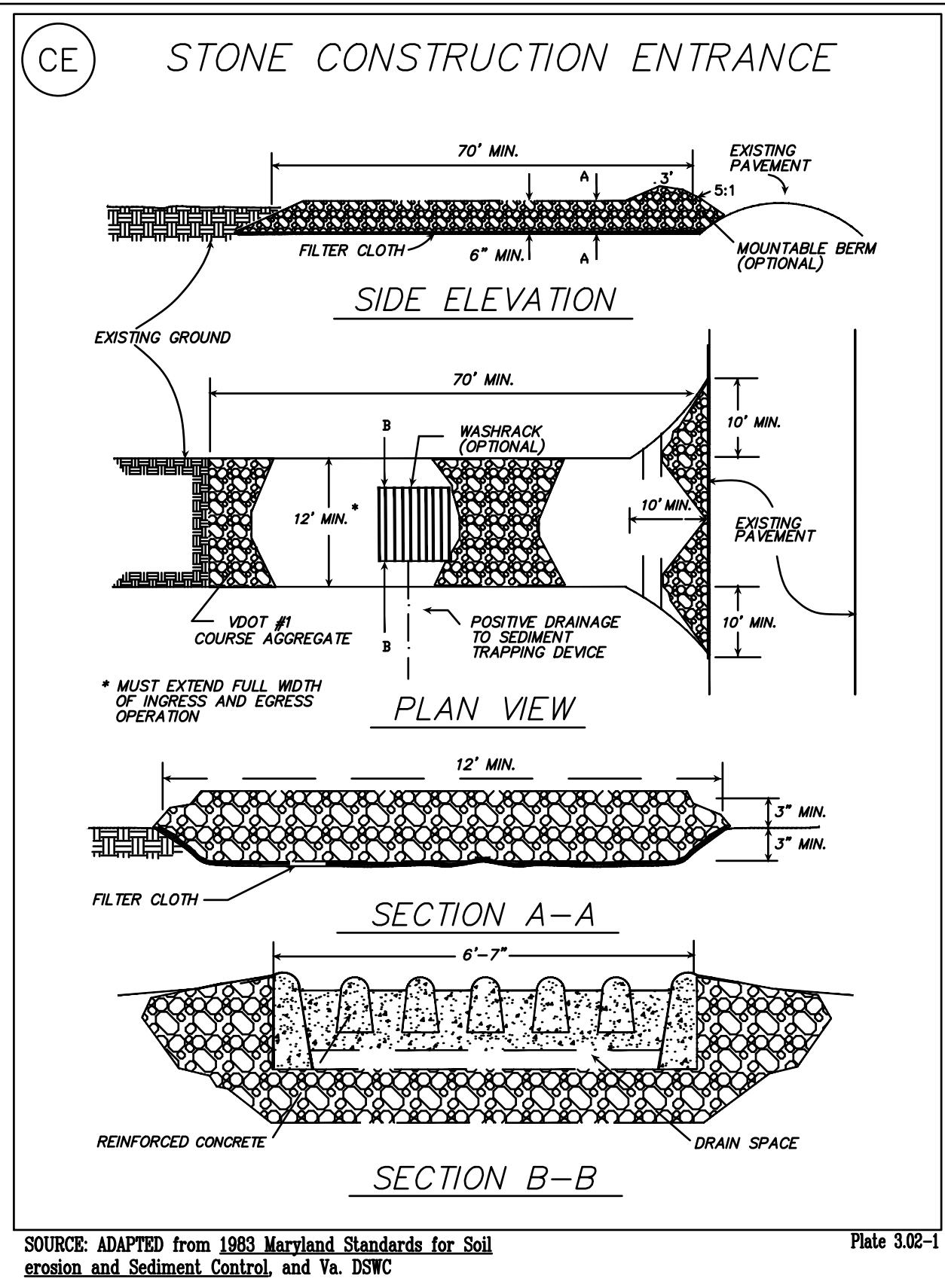
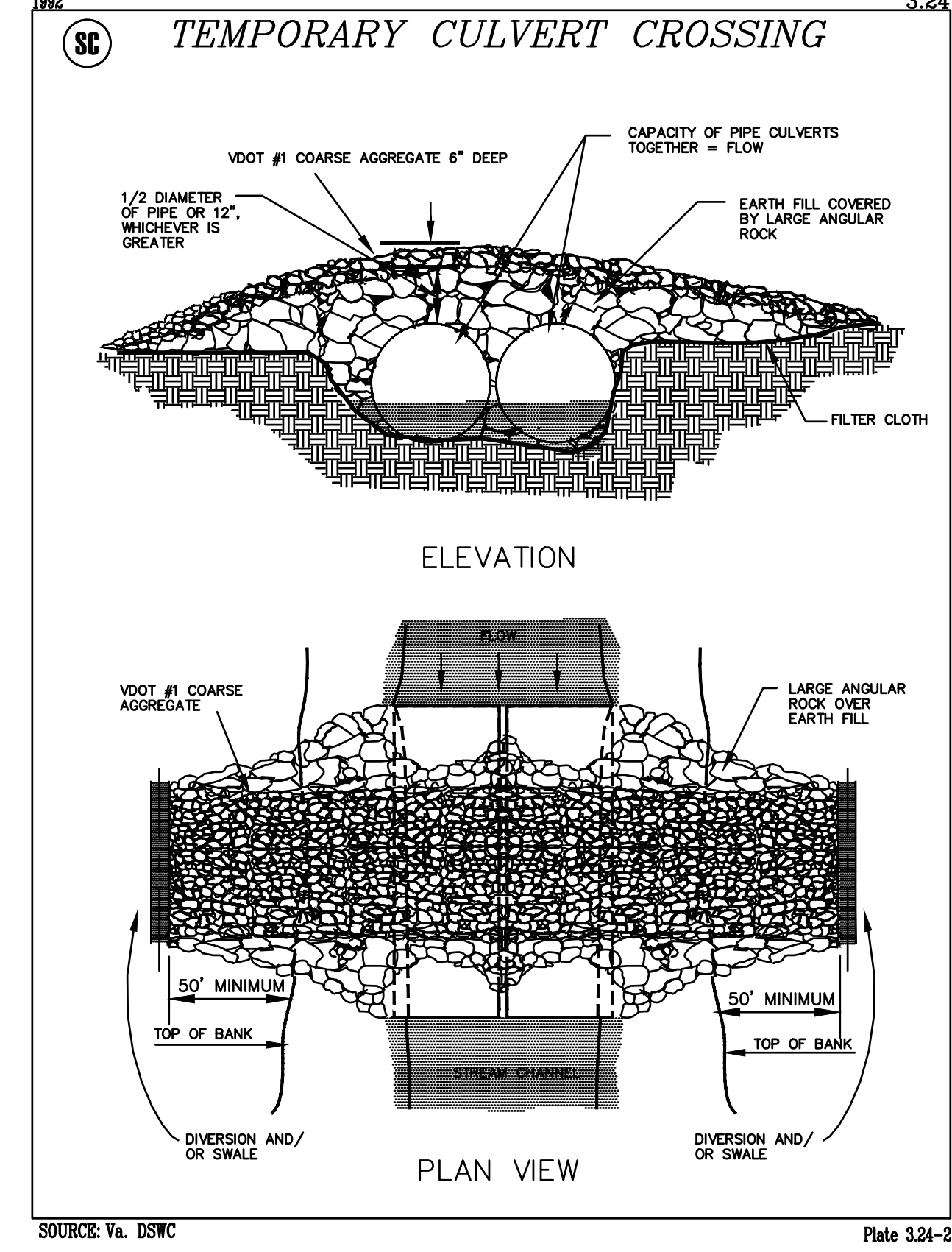
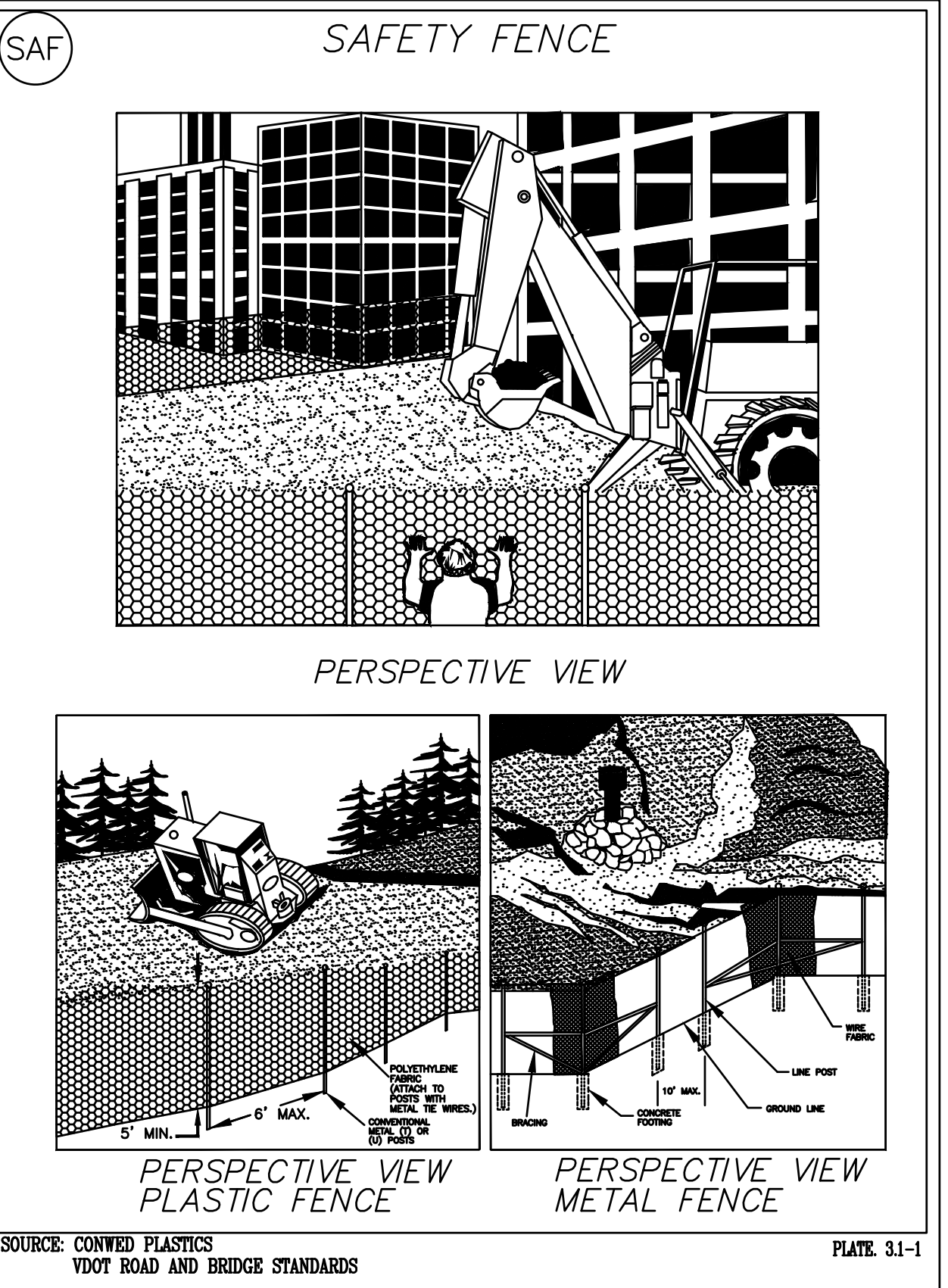
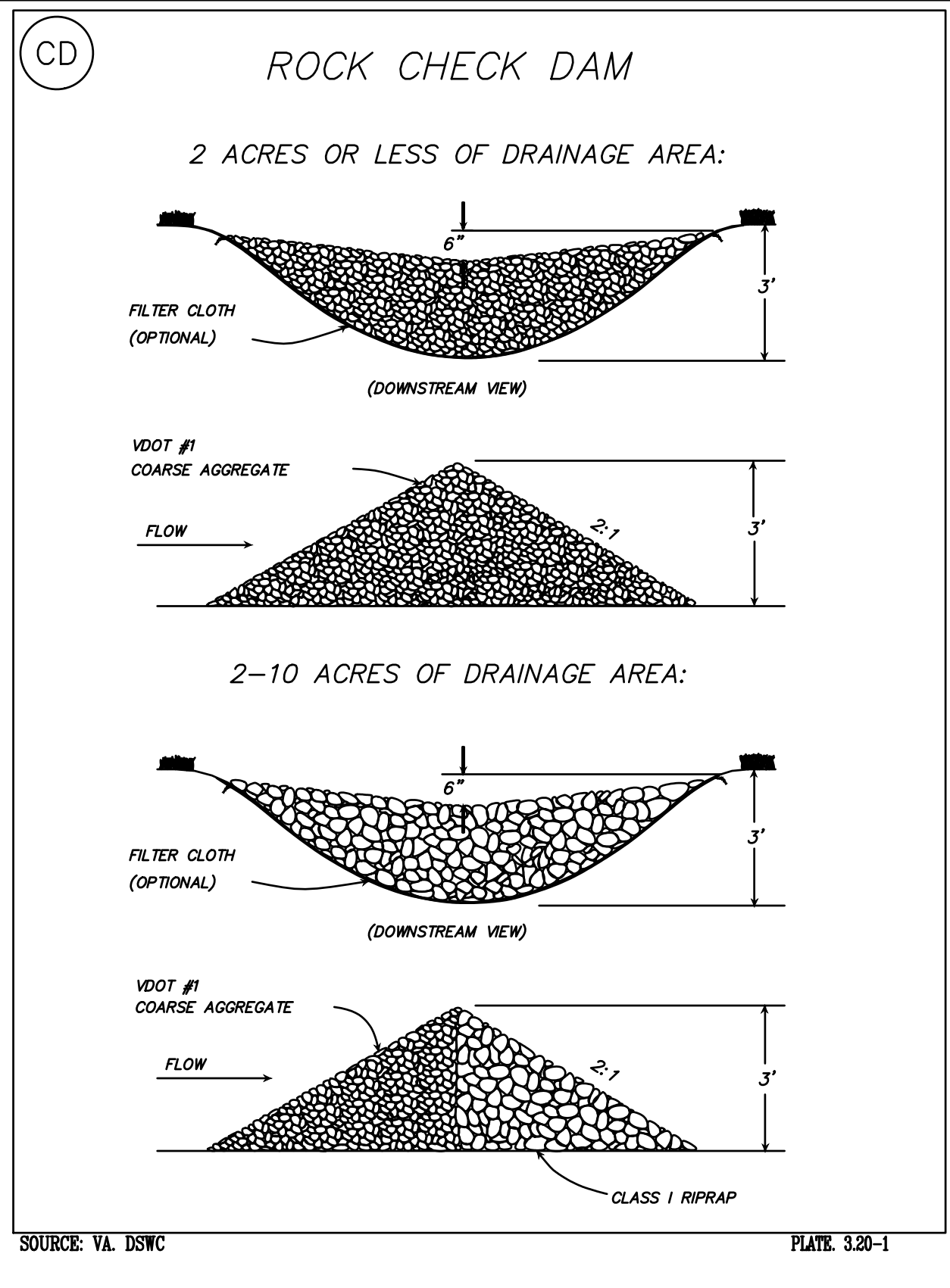
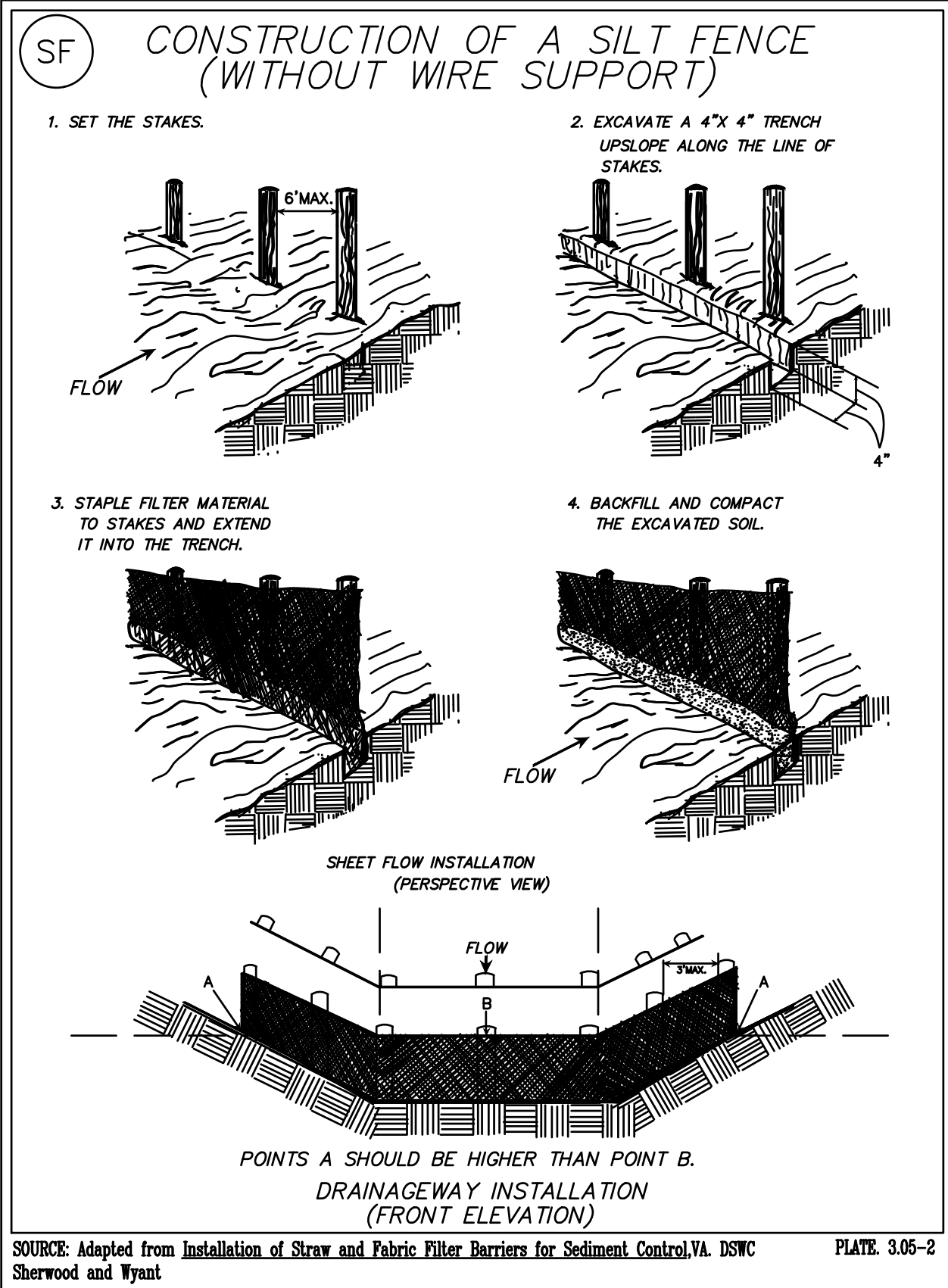
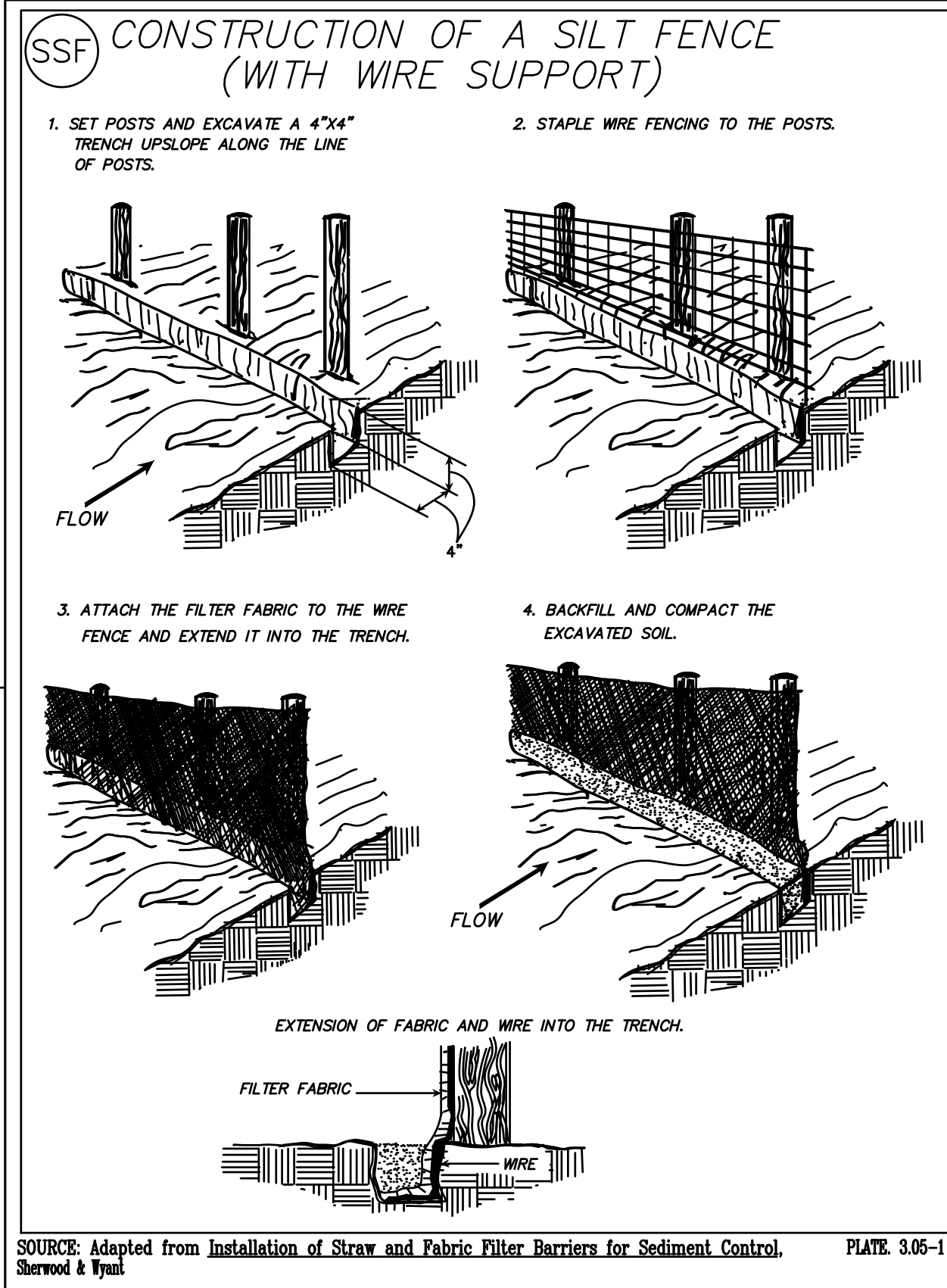


REVISIONS		
REV	DATE	DESCRIPTION

 Dewberry Engineers Inc. 4805 Lake Brook Drive, Suite 200 Glen Allen, VA, 23060 (p) 804.290.7957

DEWBERRY PROJECT NO.: 50157950

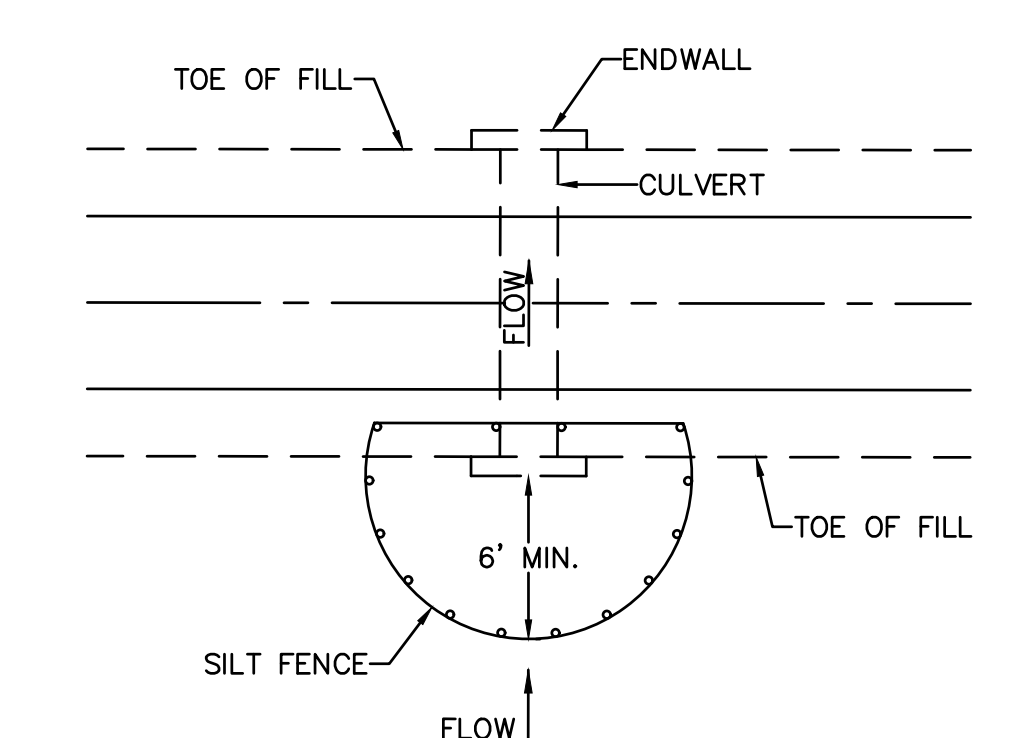


PHASE 2 ESC PLAN 2				
UNITY SUBSTATION				
LUNENBURG COUNTY			VIRGINIA	
OPERATIONAL REGION		B/M No.	SCALE	AS SHOWN
PROJECT	5017950	NAME DATE	SHEET: 1707908-C-214	
DESIGNER		MFR	8/18/23	
PROJECT ENGINEER		GA	8/18/23	
APPROVED BY		KAS	8/18/23	
DRAWING: 1707908-C-214.dwg				



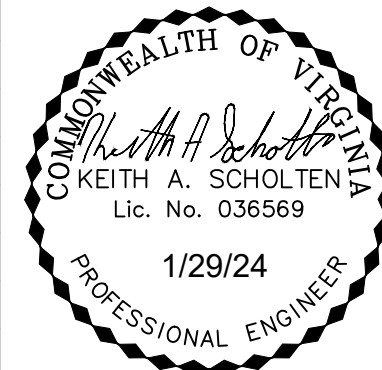
DD TEMPORARY DIVERSION DIKE (3.09-1)


NO SCALE



CIP SILT FENCE CULVERT INLET PROTECTION (3.08-1)

NO SCALE

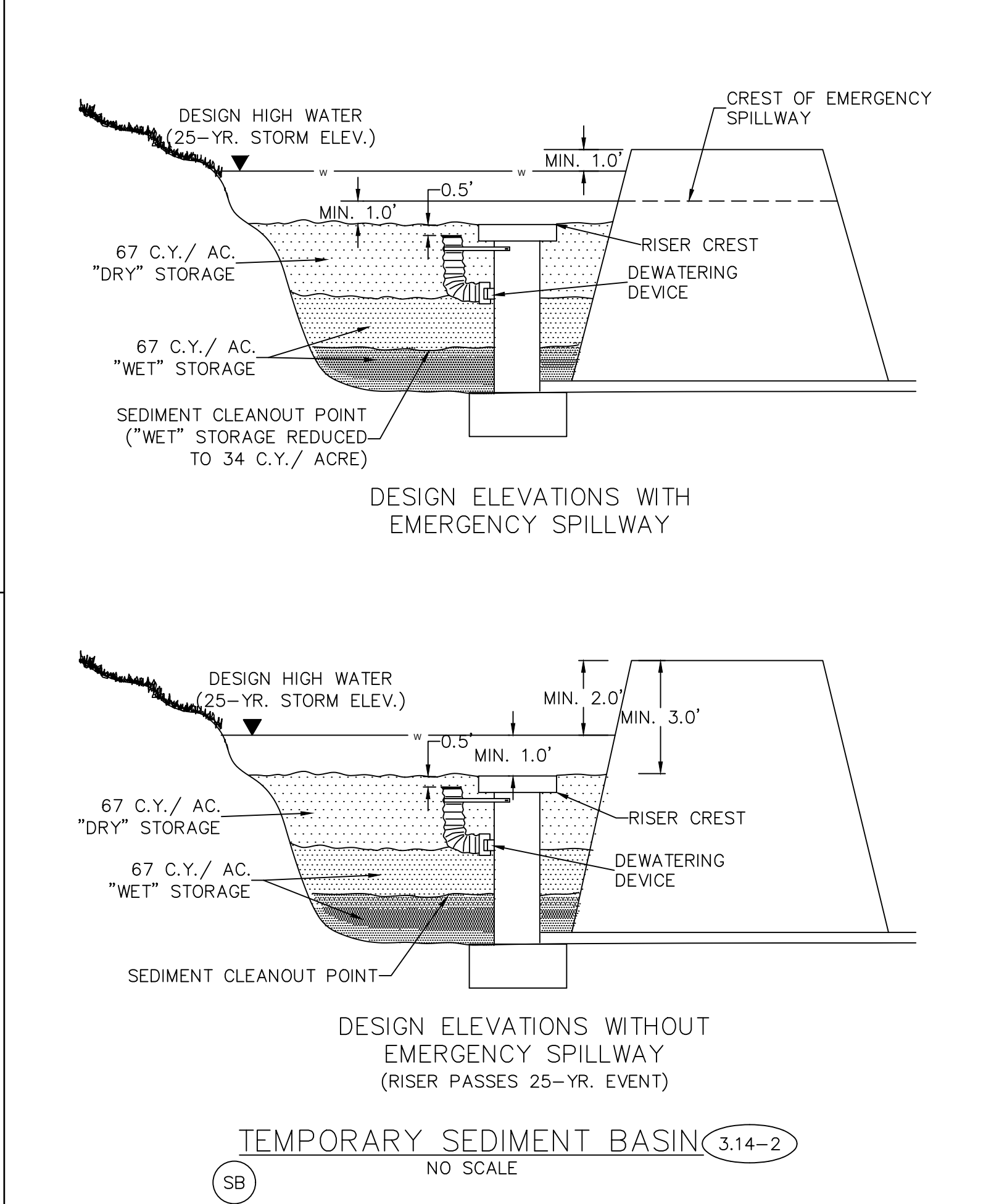
REVISIONS			Dewberry	
REV	DATE	DESCRIPTION	Dewberry Engineers Inc. 4805 Lake Brook Drive, Suite 200 Glen Allen, VA 23060; (p) 804.290.7957	
				
			DEWBERRY PROJECT NO.: 50157950	



ESC DETAILS I

UNITY SUBSTATION
LUNENBURG COUNTY VIRGINIA

OPERATIONAL REGION	B/M No.	NAME	DATE	SCALE	AS SHOWN
PROJECT 5017950	8/18/23	MFR	8/18/23	1707908-C-215	
DESIGNER	GA	8/18/23	DRAWING: 1707908-C-215.dwg		
PROJECT ENGINEER	KAS	8/18/23			
APPROVED BY					



SITE CONDITIONS	SEEDING MIXTURES	RATES					*SEASONAL NURSE CROP - DATES			
		PER ACRE	2/16 TO 4/30	5/1 TO 8/15	8/16 TO 10/31	11/1 TO 2/15				
HIGH MAINTENANCE LAWNS	TURF-TYPE TALL FESCUE KENTUCKY 31 FESCUE OR	200-250 LBS.								
MINIMUM CARE LAWN	KENTUCKY 31 FESCUE TURF-TYPE TALL FESCUE OR 95%-100% IMPROVED PERENNIAL RYEGRASS 0%-5% KENTUCKY BLUEGRASS 0%-5%	175-200 LBS.								
GENERAL SLOPE (3:1 OR LESS)	KENTUCKY 31 FESCUE RED TOP GRASS SEASONAL NURSE CROP *	128 LBS. 2 LBS. 20 LBS.	150 LBS.	ANNUAL RYE	FOXTAIL MILLET	ANNUAL RYE	WINTER RYE			
LOW-MAINTENANCE SLOPE (STEEPER THAN 3:1)	KENTUCKY 31 FESCUE RED TOP GRASS SEASONAL NURSE CROP* CROWNVECH**	108 LBS. 2 LBS. 20 LBS. 20 LBS.	150 LBS.	ANNUAL RYE	FOXTAIL MILLET	ANNUAL RYE	WINTER RYE			

* USE SEASONAL NURSE CROP IN ACCORDANCE WITH SEEDING DATES AS STATED BELOW:

FEBRUARY 16th THROUGH APRIL.....	ANNUAL RYE
MAY 1st THROUGH AUGUST 15th.....	FOXTAIL MILLET
AUGUST 16th THROUGH OCTOBER.....	ANNUAL RYE
NOVEMBER THROUGH FEBRUARY 15th.....	WINTER RYE

** SUBSTITUTE SERICEA LESPEDEZA FOR CROWNVECH EAST OF FARMVILLE, VA. (MAY THROUGH SEPTEMBER USE HULLED SERICEA, ALL OTHER PERIODS, USE UNHULLED SERICEA). IF FLATPEA IS USED IN LIEU OF CROWNVECH, INCREASE RATE TO 30 LBS./ACRE. ALL LEGUME SEED MUST BE PROPERLY INOCULATED. WEEPING LOVEGRASS MAY BE ADDED TO ANY SLOPE OR LOW-MAINTENANCE MIX DURING WARMER SEEDING PERIODS; ADD 10-20 LBS./ACRE IN MIXES

MULCHING, Std. & Spec. 3.35

TABLE 3.35-A ORGANIC MULCH MATERIALS AND APPLICATION RATES			
MULCHES:	RATES		NOTES:
	PER ACRE	PER 1000 SQ. FT.	
STRAW OR HAY	1½- 2 TONS (MINIMUM 2 TONS FOR WINTER COVER)	70-90 LBS.	FREE FROM WEEDS AND COARSE MATTER. MUST BE ANCHORED. SPREAD WITH MULCH BLOWER OR BY HAND.
FIBER MULCH	MINIMUM 1500 LBS.	35 LBS.	DO NOT USE AS MULCH FOR WINTER COVER OR DURING HOT, DRY PERIODS.* APPLY AS SLURRY.

*WHEN FIBER MULCH IS THE ONLY AVAILABLE MULCH DURING PERIODS WHEN STRAW SHOULD BE USED, APPLY AT A MINIMUM RATE OF 2000 LBS./AC. OR 45 LBS./1000 SQ. FT.

PERMANENT SEEDING, Std. & Spec. 3.32

Plant Selection
Refer to Table 3.32-D for Seeding Mixtures for the Piedmont Area.

Seedbed Preparation

1. Liming
In the Piedmont Region, apply 2 tons/acre pulverized agricultural grade limestone (90 lbs./1,000 sq. ft.).
2. Fertilizer
Shall be applied as 1000 lbs./acre of 10-20-10 (23 lbs./sq. ft.) or equivalent nutrients. Lime and Fertilizer shall be incorporated into the top 4-6 inches of the soil by disking or other means.

Seeding

1. Certified seed will be used for all permanent seeding whenever possible.
2. Legume seed should be inoculated with the inoculant appropriate to the species. Seed of the Lespedizas, the Clovers and the Crownvetch should be scarified to promote uniform germination.
3. Apply seed uniformly with a broadcast seeder, drill, culti-packer seeder, or hydroseeder on a firm, friable seedbed. Seeding depth should be 1/4 to 1/2 inch.

Mulching
All permanent seeding must be mulched immediately upon completion of seed application.

Irrigation
New seedings should be provided with adequate moisture.

Re-seeding
Inspect seeded areas for failure and make necessary repairs and re-seedings within the same season, if possible.

SEED		
APPLICATION DATES	SPECIES	APPLICATION RATES
SEPT. 1 - FEB. 15	50/50 MIX OF ANNUAL RYEGRASS (LOLIUM MULTI-FLORUM) & CEREAL (WINTER) RYE (SECALE CEREALE)	50-100 (lbs./acre)
FEB. 16 - APR. 30	ANNUAL RYEGRASS (LOLIUM MULTI-FLORUM)	60-100 (lbs./acre)
MAY 1 - AUG. 31	GERMAN MILLET	50 (lbs./acre)

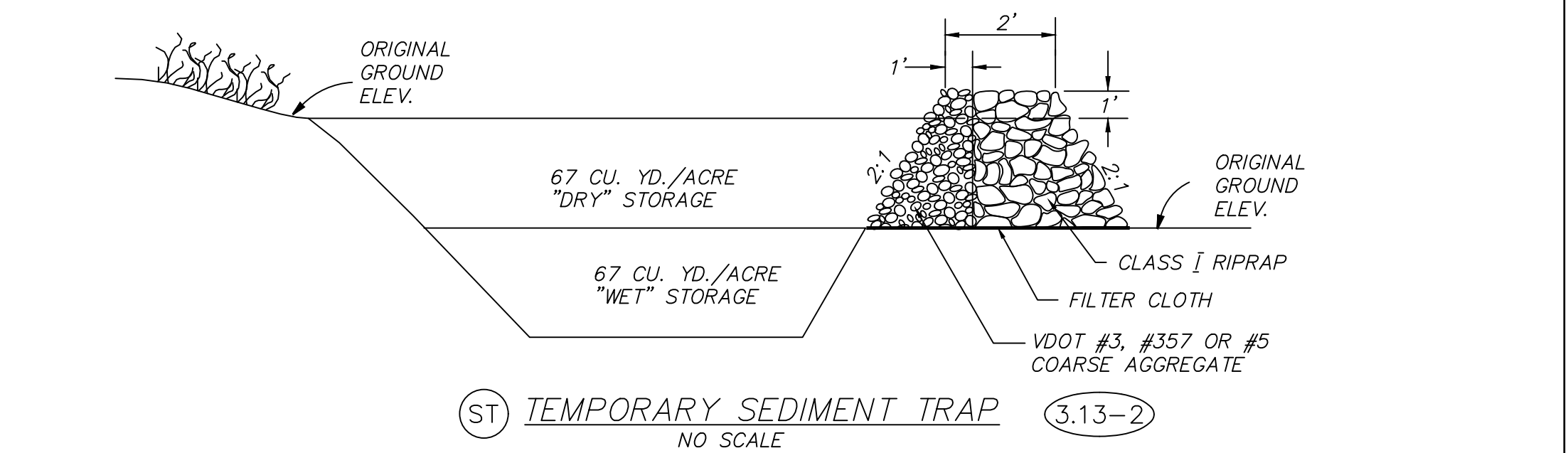
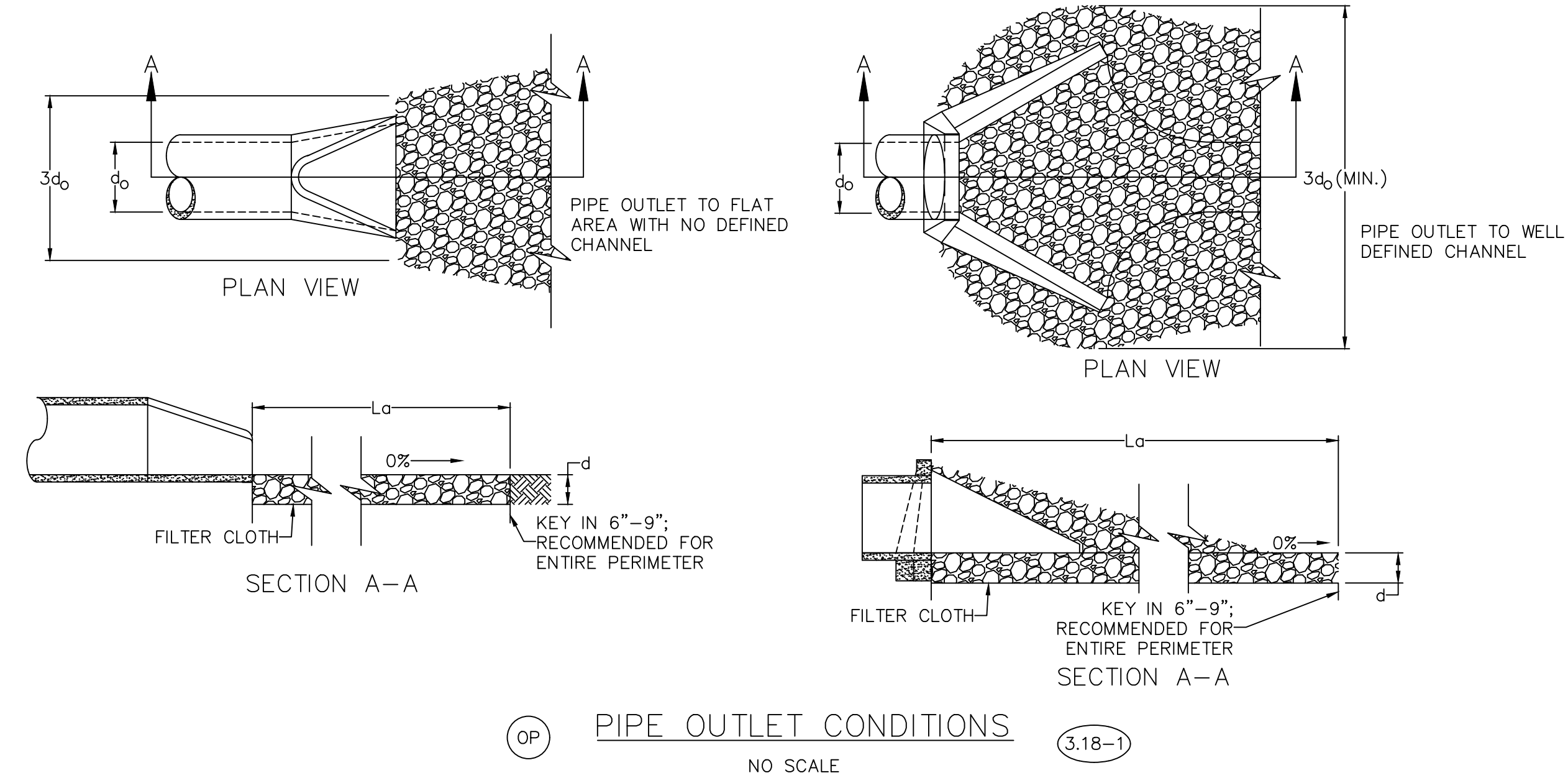
FERTILIZER & LIME	
• APPLY 10-10-10 FERTILIZER AT A RATE OF 450 lbs./acre (OR 10 lbs./1,000 sq. ft.)	
• APPLY PULVERIZED AGRICULTURAL LIMESTONE AT A RATE OF 2 TONS/ACRE (OR 90 LBS./1,000 SQ. FT.)	

NOTE:

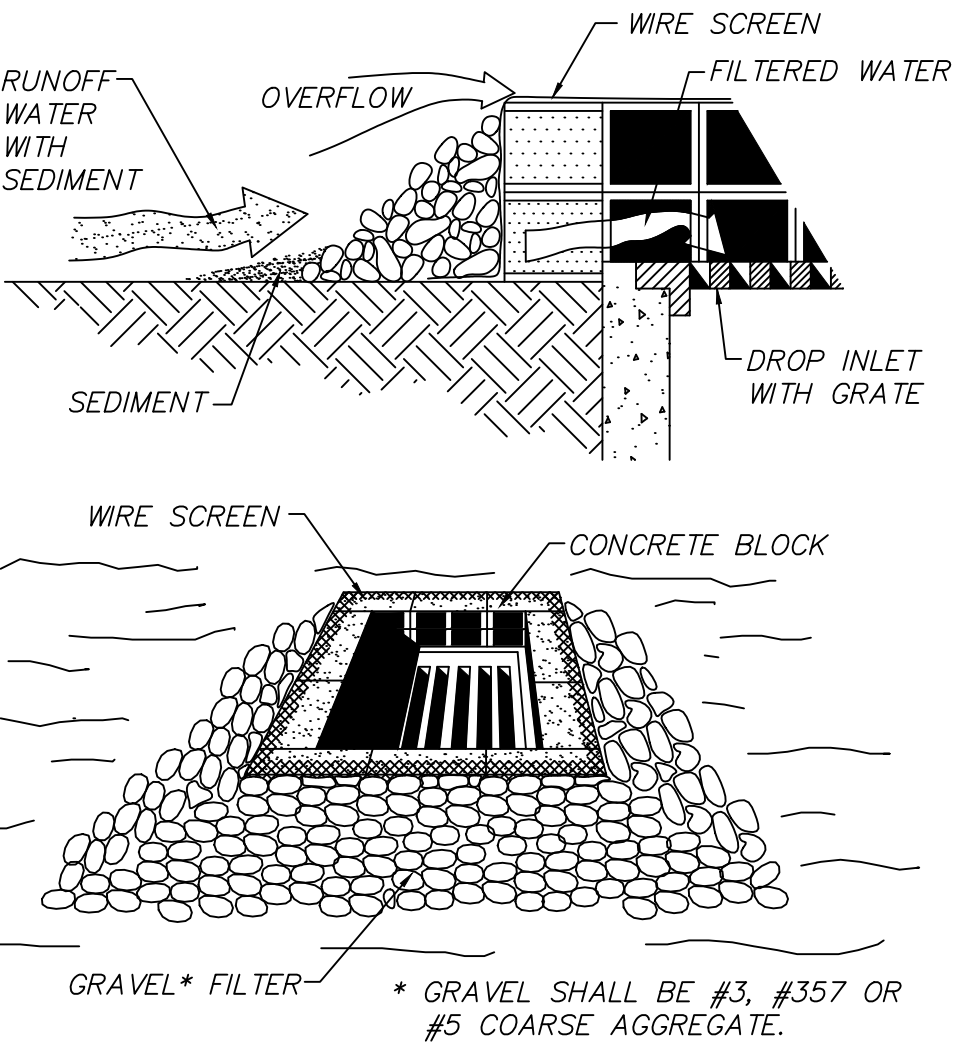
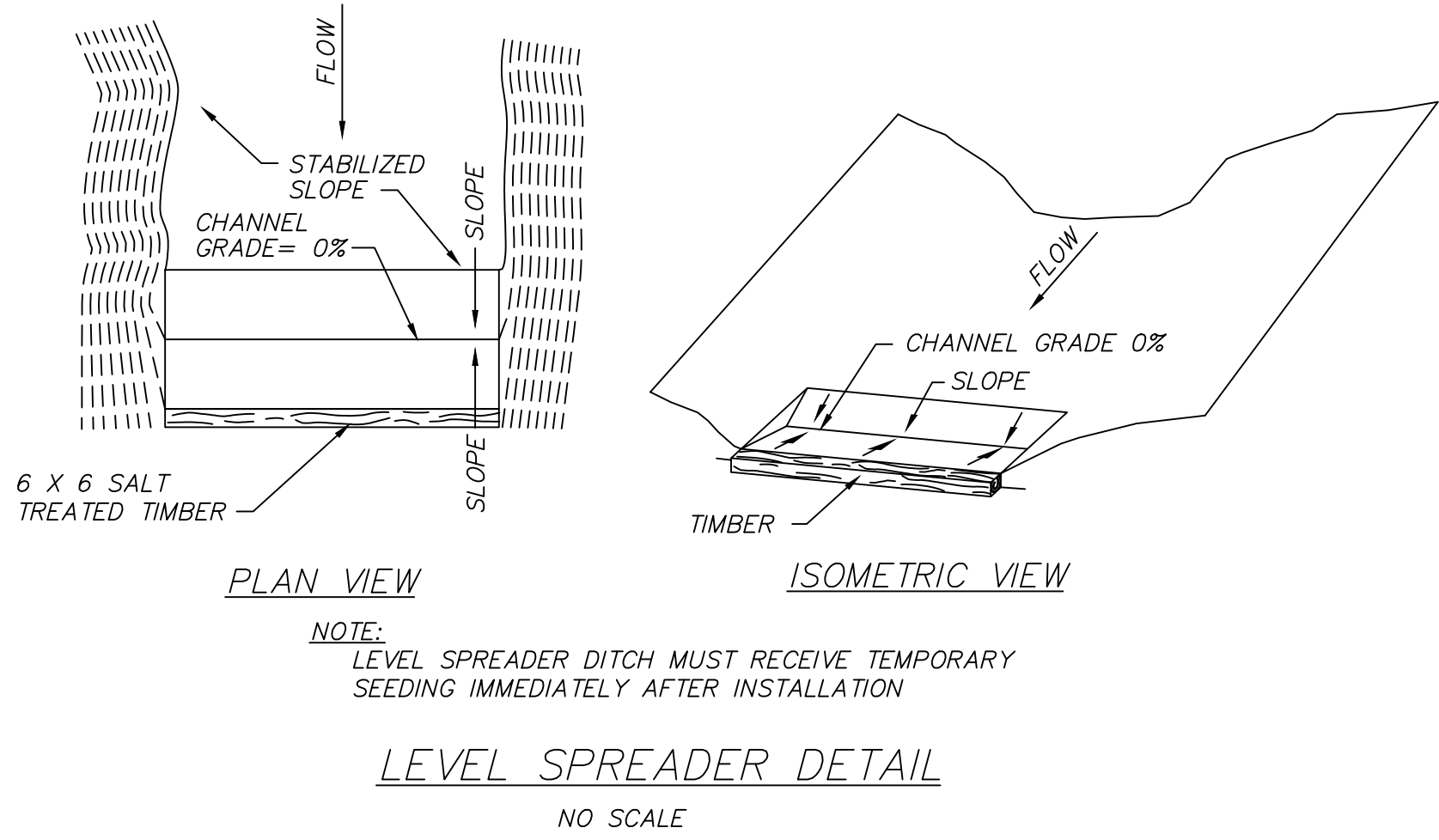
- 1.) A SOIL TEST IS NECESSARY TO DETERMINE THE ACTUAL AMOUNT OF LIME REQUIRED TO ADJUST THE SOIL pH OF SITE.
- 2.) INCORPORATE THE LIME AND FERTILIZER INTO THE TOP 4-6 INCHES OF THE SOIL BY DISKING OR BY OTHER MEANS.
- 3.) WHEN APPLYING SLOWLY AVAILABLE NITROGEN USE RATES AVAILABLE IN EROSION & SEDIMENT CONTROL TECHNICAL BULLETIN #4, 2003 NUTRIENT MANAGEMENT FOR DEVELOPMENT SITES AT:
<http://www.dcr.state.va.us/sw/e&s.htm#pubs>




TEMPORARY SEEDING SPECIFICATIONS
QUICK REFERENCE FOR ALL REGIONS

TABLE 3.31-B
(REVISED JUNE 2003)



ST. NO.	MAX. AREA TO TRAP	VOLUME REQ'D	VOLUME PROVIDED	WET STORAGE	TOP OF EMBANKMENT	WIDTH OF EMBANKMENT	TOP OF RIP-RAP OUTLET	BOTTOM OF EXCAVATION	LENGTH OF OUTLET	LENGTH OF TRAP	WIDTH OF TRAP
1	2.8 AC.	381 CY	395CY @ 385.0	200 CY @ 383.4	386.0	6'	385.0	381.0	17'	85'	20'
2	1.0 AC.	134 CY	143CY @ 390.0	143 CY @ 388.7	391.0	6'	390.0	386.0	6	82'	2
3	1.4 AC.	188 CY	241CY @ 380.0	97 CY @ 378.1	381.0	6'	380.0	376.0	10'	60'	15'



REVISIONS			<div> Dewberry Engineers Inc. 4805 Lake Brook Drive, Suite 200 Glen Allen, VA 23060; (p) 804.290.7957</div> <div> COMMONWEALTH OF VIRGINIA KEITH A. SCHOLTEN Lic. No. 036569 1/29/24 PROFESSIONAL ENGINEER</div> <div>DEWBERRY PROJECT NO.: 50157950</div>
REV	DATE	DESCRIPTION	
<div> Dominion Energy®</div>			
ESC DETAILS II			
UNITY SUBSTATION			
LUNENBURG COUNTY			VIRGINIA
OPERATIONAL REGION		B/M No.	SCALEAS SHOWN
PROJECT	5017950	NAME	DATE
DESIGNER	MFR	GA	8/18/23
PROJECT ENGINEER	KAS	GA	8/18/23
APPROVED BY			
SHEET:		1707908-C-216	
DRAWING:		1707908-C-216.dwg	

AREA= 3.23 A.C. (PH-1)
DRAINING TO SEDIMENT BASIN #1
(BASIN SIZED FOR 15.39 ACRES)

WET STORAGE
ELEV. = 379.00'

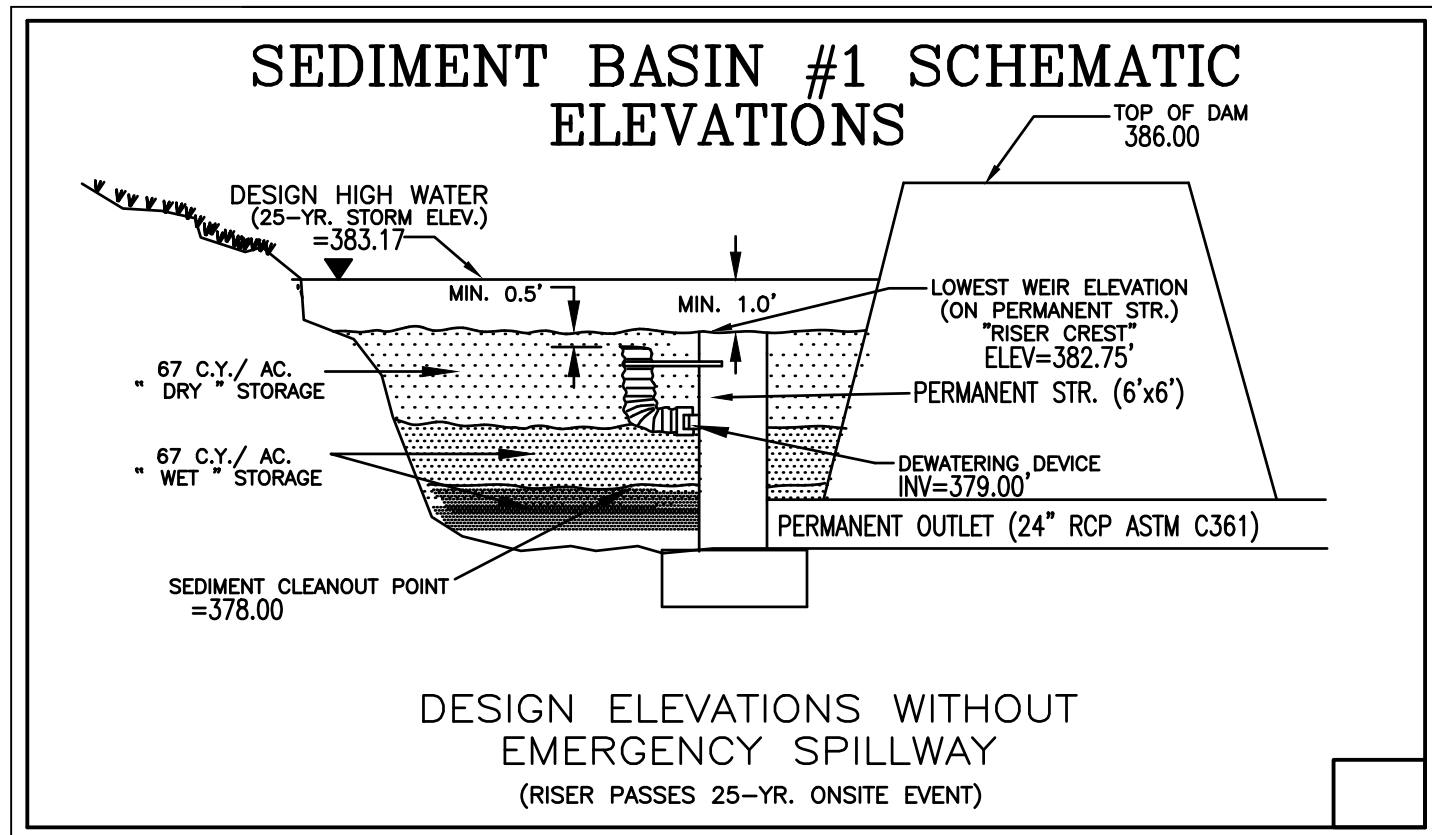
CLEANOUT
ELEV. = 378.00'

DRY STORAGE
ELEV. = 382.75'

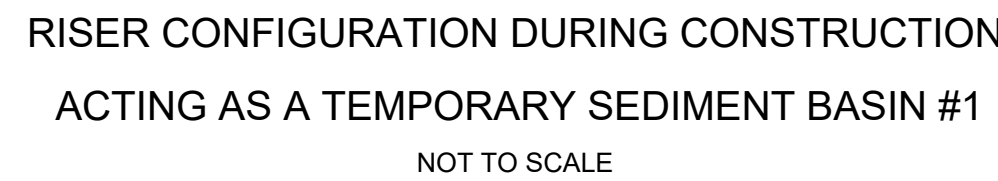
INV OUT: 374.80'

TOP OF DAM
ELEV. = 386.00'

BAFFLES



SEDIMENT BASIN SUMMARY TABLE



Elevation-Volume		
Pond Elevation (ft)		Pond Volume (ac-ft)
379.00		0.000
380.00		0.707
381.00		1.461
382.00		2.261
383.00		3.110
384.00		4.009
385.00		5.234
386.00		6.807

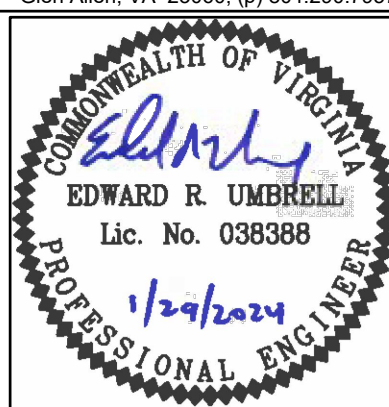
NOTE: SEDIMENT BASIN WAS ROUTED USING PONDPACK FOR THE 25-YEAR FREQUENCY STORM UNDER DENUDED SOIL CONDITIONS (CN = 89). THIS CONFIRMED THE POND IS SIZED TO SUFFICIENTLY PASS THE 25-YEAR STORM WITH THE PROPOSED 24" RCP BARREL.

- NOTES:
1. NOTIFY AND COORDINATE WITH ESC INSPECTOR AT THE START OF EMBANKMENT CONSTRUCTION. A GEOTECHNICAL ENGINEER SHOULD BE PRESENT DURING AND AFTER CONSTRUCTION TO MONITOR, REPORT AND VERIFY STABILITY AND COMPACTION OF DAM.
 2. SEDIMENT BASIN CALCULATIONS ARE PROVIDED ON THIS SHEET.
 3. ALL FILL EMBANKMENTS SHALL BE CONSTRUCTED PER REQUIREMENTS IN GEOTECH REPORT.
 4. BLANKET AND MATTING IS REQUIRED WHEREVER THE SLOPE EXCEEDS 3:1. SEE EROSION AND SEDIMENT CONTROL SHEETS.

STEP 1:	INSTALL E&S PERIMETER CONTROLS PRIOR TO CONSTRUCTION, INCLUDING TEMPORARY DE-WATERING DEVICES AND STORMWATER DIVERSIONS. UTILIZE SWM POND AS TEMPORARY SEDIMENT BASIN DURING CONSTRUCTION. EXCAVATE / GRADE UNTIL THE APPROPRIATE ELEVATIONS AND DESIRED CONTOURS ARE ACHIEVED FOR THE BOTTOM AND SIDE SLOPES OF THE SEDIMENT BASIN. INSTALLATION OF THE PERMANENT OUTLET PIPE AND RISER STRUCTURE SHOULD BE INITIATED DURING THE CONSTRUCTION PHASE.
STEP 2:	INSTALL THE PERMANENT OUTLET PIPE AND CONCRETE CRADLE, INCLUDING THE DOWNSTREAM RIPRAP APRON. INSTALL THE RISER TO THE INVERT ELEVATIONS AS SHOWN ON SHEET 1707908-C-616 .
STEP 3:	CONSTRUCT THE EMBANKMENT IN 8 INCH LIFTS AND COMPACT THE LIFTS PER THE SPECIFICATIONS OUTLINED IN THE GEOTECH REPORT.
STEP 4:	AFTER COMPLETION OF CONSTRUCTION OF THE SITE, STABILIZE THE ENTIRE DRAINAGE AREA.
STEP 5:	THE PERMANENT FACILITY SHALL ONLY BE CONSTRUCTED AFTER THE CONTRIBUTING DRAINAGE AREA TO THE POND IS COMPLETELY STABILIZED.
STEP 6:	TO CONVERT SEDIMENT BASIN TO A PERMANENT FACILITY, DEWATER AND DREDGE THE SEDIMENT BASIN AFTER THE SITE CONSTRUCTION IS COMPLETE TO REMOVE SEDIMENT AS NECESSARY. DISPOSE OF SEDIMENT AT A LEGAL DISPOSAL SITE.
STEP 7:	EXCAVATE/ GRADE UNTIL THE APPROPRIATE FINAL ELEVATIONS AND DESIRED CONTOURS ARE ACHIEVED FOR THE BOTTOM AND SIDE SLOPES OF THE POND AS SHOWN ON SHEET 1707908-C-614. INCORPORATE THE CLAY LINER AND TOP SOIL AS PART OF THE FINAL GRADING. INSTALL THE ACCESS ROAD. INSTALL ANY INTERNAL BERMS IN 8 LIFTS AND COMPACT TO THE APPROPRIATE ELEVATION.
STEP 8:	CONVERT THE SEDIMENT BASIN RISER STRUCTURE TO THE PERMANENT RISER STRUCTURE CONFIGURATION AS SHOWN ON SHEET 1707908-C-616.
STEP 9:	ALL AREAS SHOULD BE PERMANENTLY STABILIZED BY HYDROSEEDING OR SEEDING AND MULCHING.

REVISIONS

Dewberry
Dewberry Engineers Inc.
4805 Lake Brook Drive, Suite 200
Glen Allen, VA 23060: (n) 804 290 7951



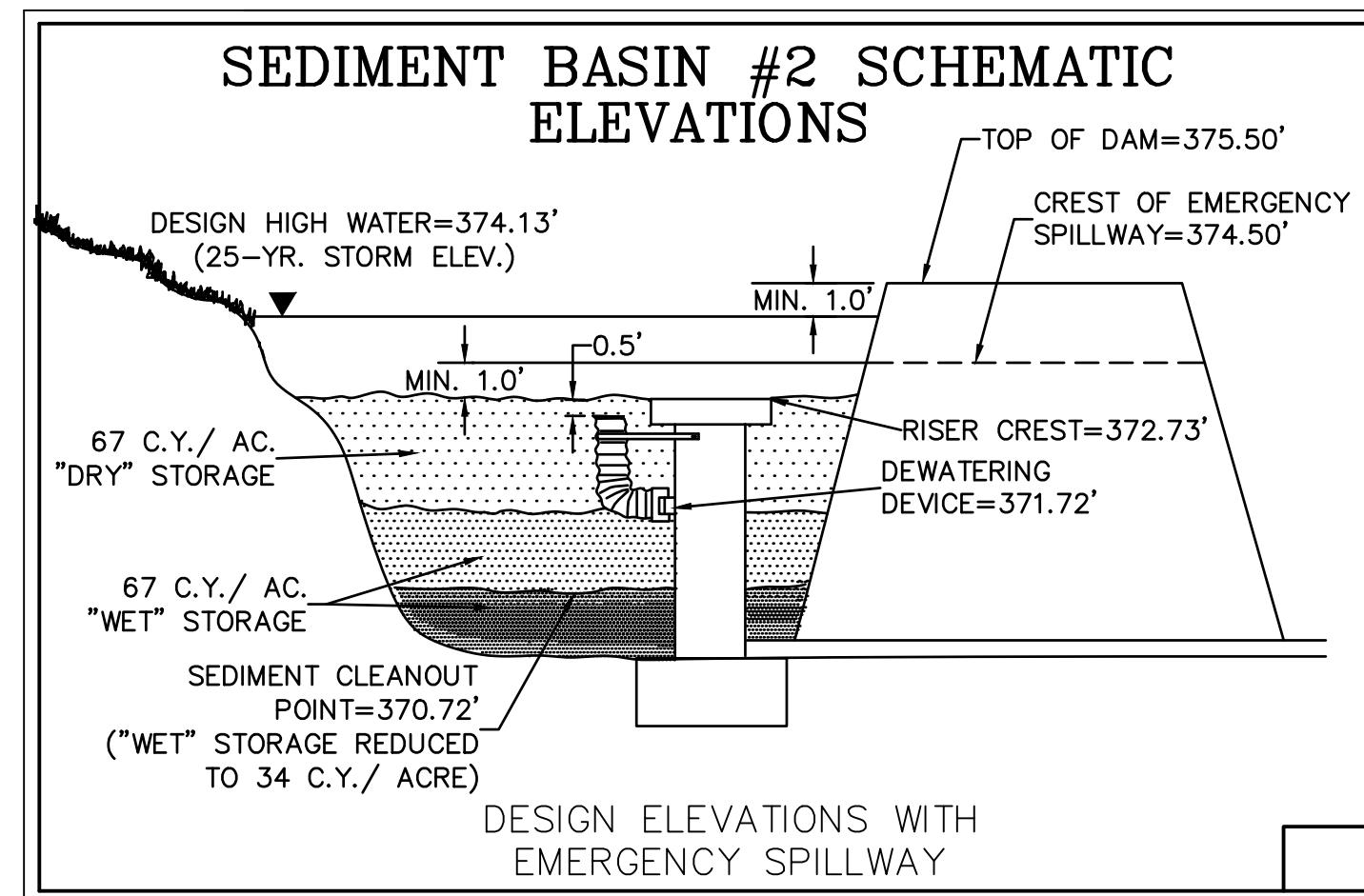
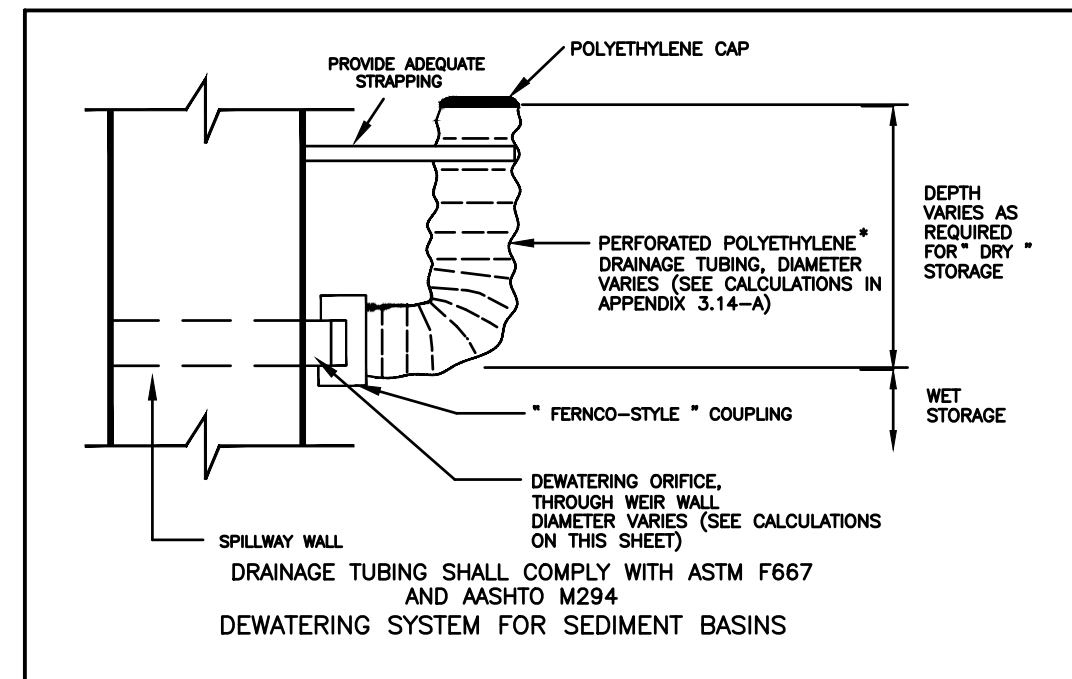
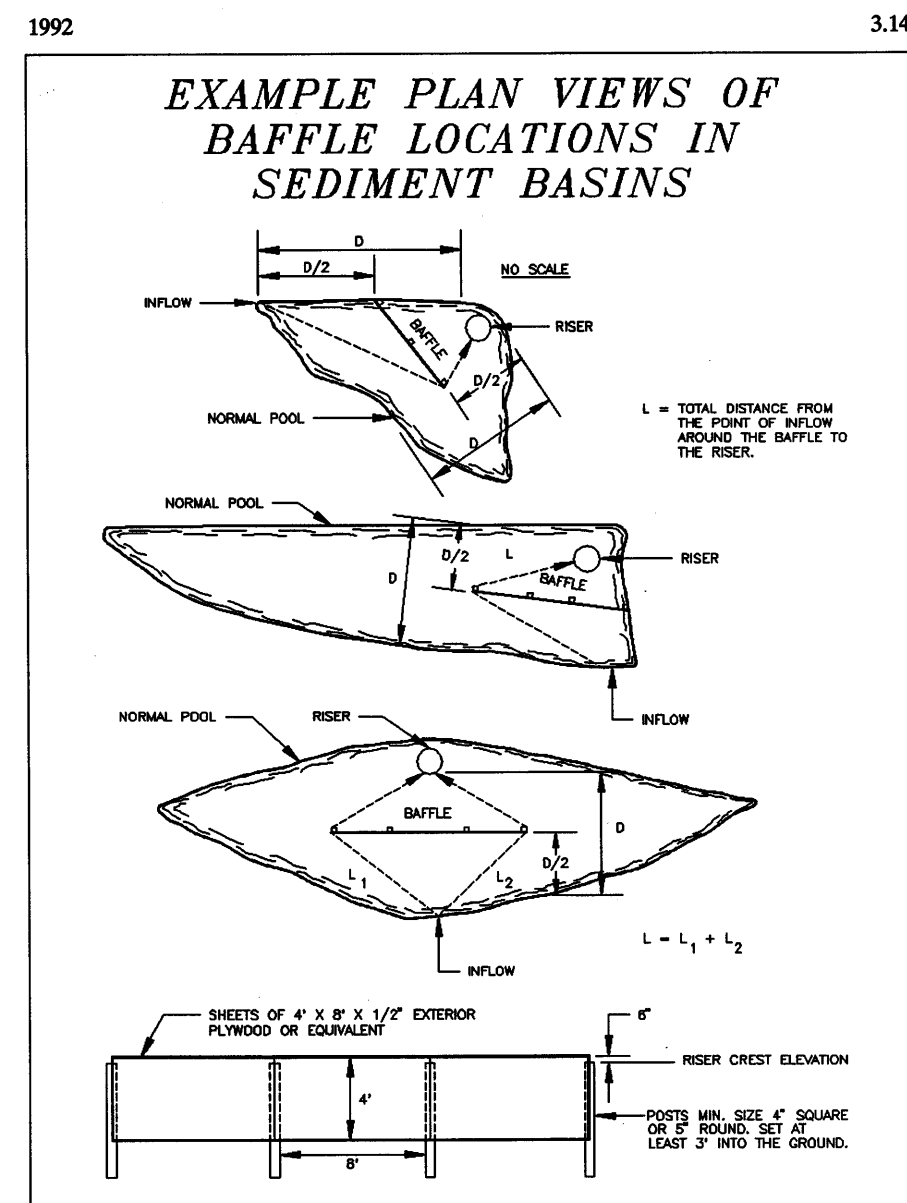
DEWBERRY PROJECT NO.: 5015795

REV	DATE	DESCRIPTION
		DEWBERRY PROJECT NO.: 50157950

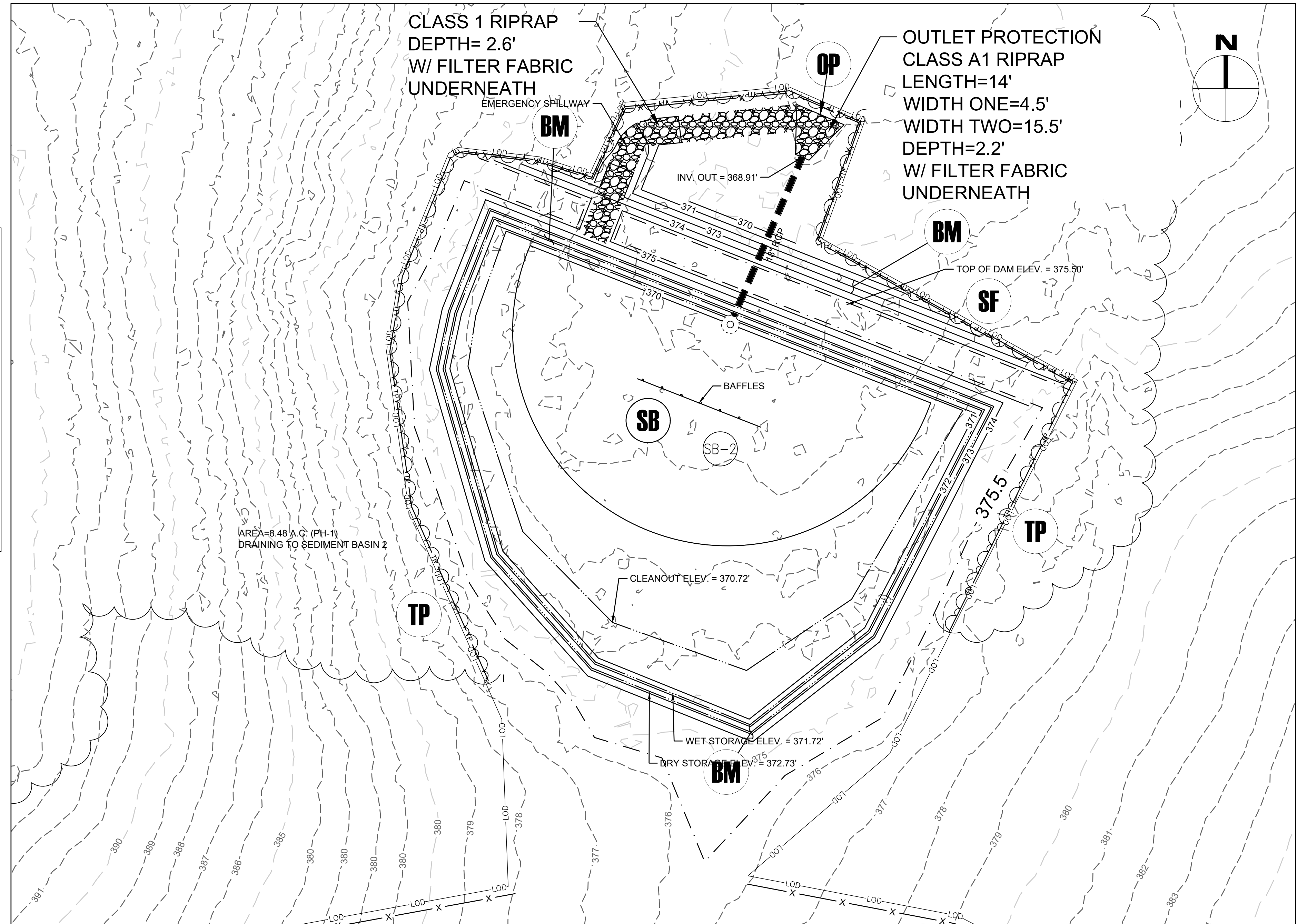
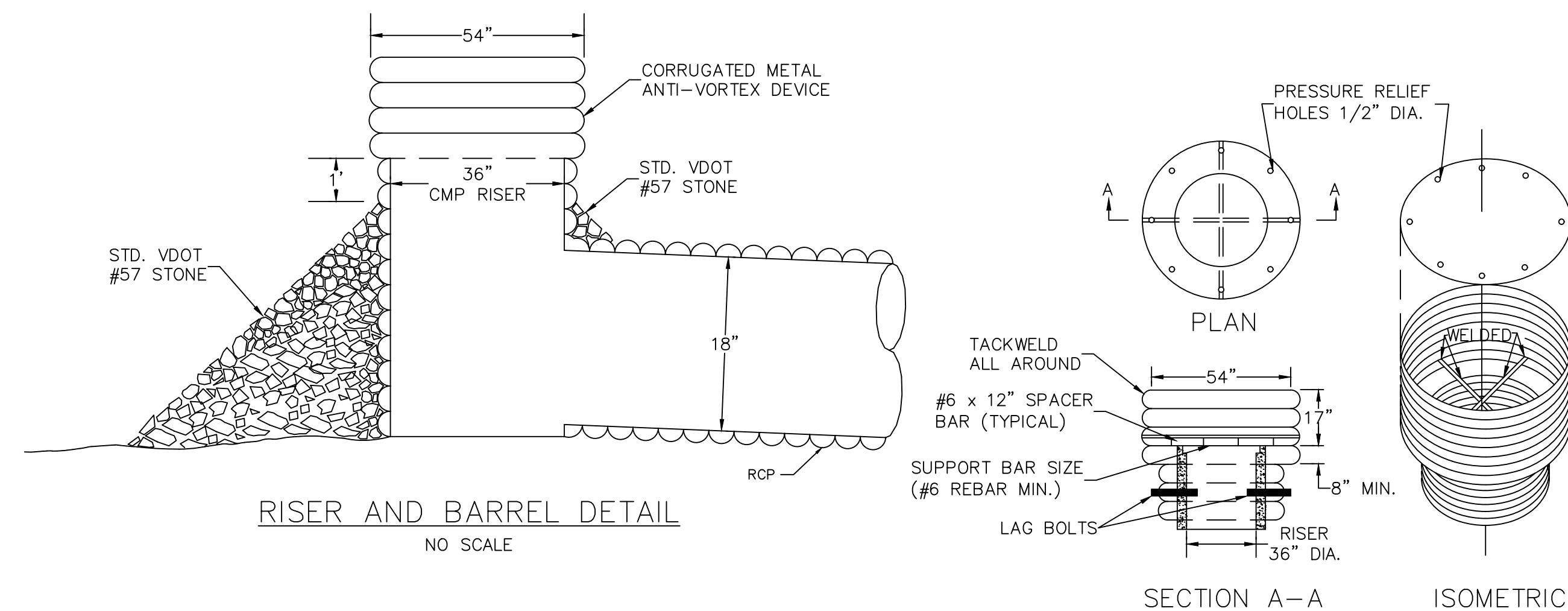
SEDIMENT BASIN

<div style="text-align: center;"> <h1>UNITY SUBSTATION</h1> <h2>LUNENBURG COUNTY</h2> <h2>VIRGINIA</h2> </div>												
OPERATIONAL REGION					B/M No.				SCALE		AS SHOWN	
PROJECT		5017950		NAME		DATE		SHEET:		1707908-C-217		
DESIGNER		EU/KZ		EU/KZ		01/29/24						
PROJECT ENGINEER		EU/KZ		EU/KZ		01/29/24		DRAWING:				
APPROVED BY		KAS		KAS		01/29/24		1707908-C-217.dwg				

SEDIMENT BASIN 2 PLAN VIEW




SEDIMENT BASIN SUMMARY TABLE															
SEDIMENT BASIN	DRAINAGE AREA (acres)	WET STORAGE		DRY STORAGE		BOTTOM ELEVATION	RISER CREST ELEVATION	DEWATERING ORIFICE DIAMETER (Inches)	DEWATERING DEVICE ELEVATION	CLEAN OUT ELEVATION	DESIGN HIGH WATER ELEVATION	EMERGENCY SPILLWAY ELEVATION	TOP OF DAM ELEVATION (MINIMUM)	BAFFLE	
		VOLUME REQUIRED (Cu. Yd.)	VOLUME PROVIDED (Cu. Yd.)	VOLUME REQUIRED (Cu. Yd.)	VOLUME PROVIDED (Cu. Yd.)									MINIMUM FLOW LENGTH FOR 2.0 WIDTH RATIO	BAFFLE REQUIRED (Yes / No)
2	8.48	568.16	779.59	568.16	573.12	369.35	372.73	3	371.72	370.72	374.13	374.50	375.50	165	YES

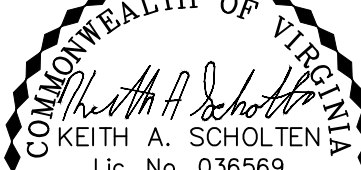


ELEVATION - VOLUME				
ELEV (ft)	VOLUME (acre-ft)	TOTAL VOLUME		
		(acre-ft)	(cubic ft)	(cubic yds)
370.0	0.000	0.000	0	0.00
371.0	0.200	0.200	8,725	323.15
372.0	0.313	0.513	22,355	827.96
373.0	0.334	0.847	36,915	1367.22
374.0	0.356	1.204	52,430	1941.85
375.0	0.406	1.609	70,105	2596.46

REVISIONS		
REV	DATE	DESCRIPTION



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 4805 Lake Brook Drive, Suite 200
 Glen Allen, VA 23060; (g) 804.290.7957



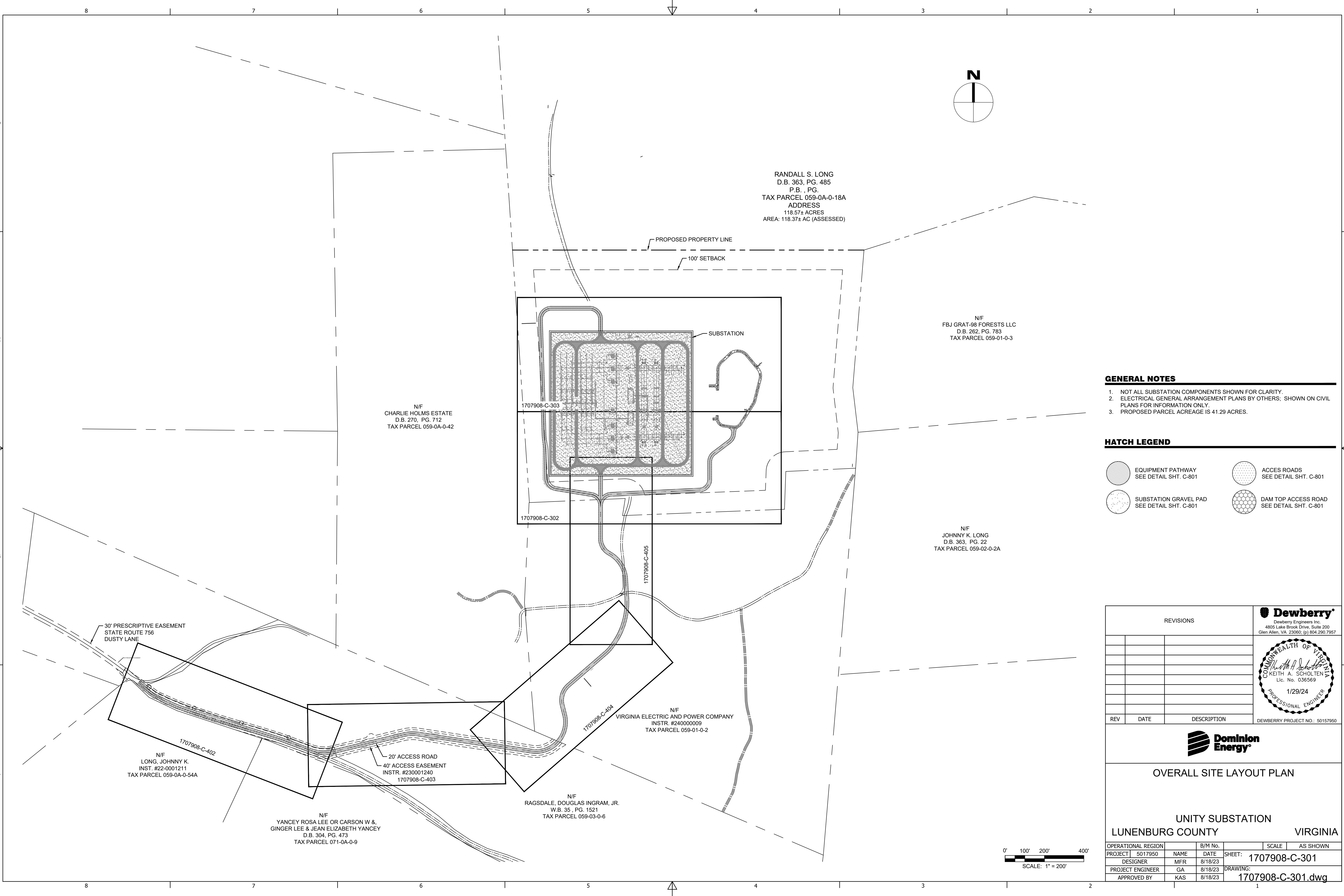
Dewberry Project No.: 50157950



SEDIMENT BASIN 2

UNITY SUBSTATION
LUNENBURG COUNTY VIRGINIA

OPERATIONAL REGION		B/M No.		SCALE		AS SHOWN	
PROJECT	5017950	NAME	DATE	SHEET: 1707908-C-218			
DESIGNER	MFR	8/18/23					
PROJECT ENGINEER	GA	8/18/23		DRAWING: 1707908-C-218.dwg			
APPROVED BY	KAS	8/18/23					



- GENERAL NOTES**
- NOT ALL SUBSTATION COMPONENTS SHOWN FOR CLARITY.
 - ELECTRICAL GENERAL ARRANGEMENT PLANS BY OTHERS; SHOWN ON CIVIL PLANS FOR INFORMATION ONLY.
 - PROPOSED PARCEL ACREAGE IS 41.29 ACRES.

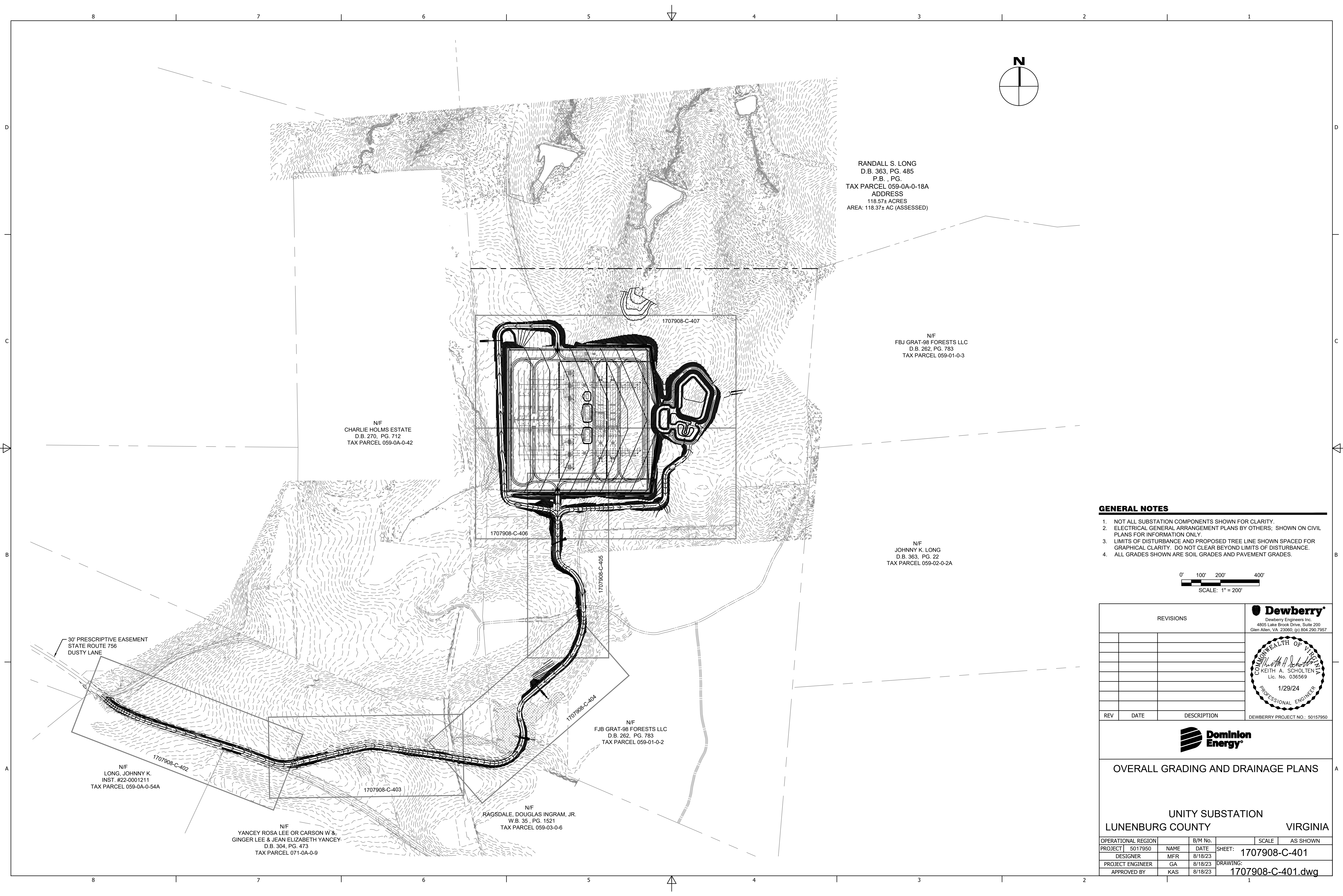
- HATCH LEGEND**
- EQUIPMENT PATHWAY
SEE DETAIL SHT. C-801
 - ACCESS ROADS
SEE DETAIL SHT. C-801
 - SUBSTATION GRAVEL PAD
SEE DETAIL SHT. C-801
 - DAM TOP ACCESS ROAD
SEE DETAIL SHT. C-801

REVISIONS			Dewberry	
REV	DATE	DESCRIPTION	Dewberry Engineers Inc. 4805 Lake Brook Drive, Suite 200 Glen Allen, VA 23060; (p) 804.290.7957	
			DEWBERRY PROJECT NO.: 50157950	

OVERALL SITE LAYOUT PLAN

UNITY SUBSTATION
LUNENBURG COUNTY
VIRGINIA

OPERATIONAL REGION	B/M No.	SCALE	AS SHOWN
PROJECT 5017950	NAME DATE	SHEET: 1707908-C-301	
DESIGNER MFR	GA 8/18/23	DRAWING: 1707908-C-301.dwg	
PROJECT ENGINEER	KAS 8/18/23		
APPROVED BY			



RANDALL S. LONG
D.B. 363, PG. 485
P.B. , PG.
TAX PARCEL 059-0A-0-18A
ADDRESS
118.57± ACRES
AREA: 118.37± AC (ASSESSED)

N/F
FBJ GRAT-98 FORESTS LLC
D.B. 262, PG. 783
TAX PARCEL 059-01-0-3

N/F
CHARLIE HOLMS ESTATE
D.B. 270, PG. 712
TAX PARCEL 059-0A-0-42

N/F
JOHNNY K. LONG
D.B. 363, PG. 22
TAX PARCEL 059-02-0-2A

N/F
FJB GRAT-98 FORESTS LLC
D.B. 262, PG. 783
TAX PARCEL 059-01-0-2

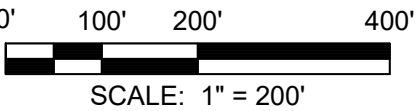
N/F
RAGSDALE, DOUGLAS INGRAM, JR.
W.B. 35, PG. 1521
TAX PARCEL 059-03-0-6




N/F
YANCEY ROSA LEE OR CARSON W &
GINGER LEE & JEAN ELIZABETH YANCEY
D.B. 304, PG. 473
TAX PARCEL 071-0A-0-9

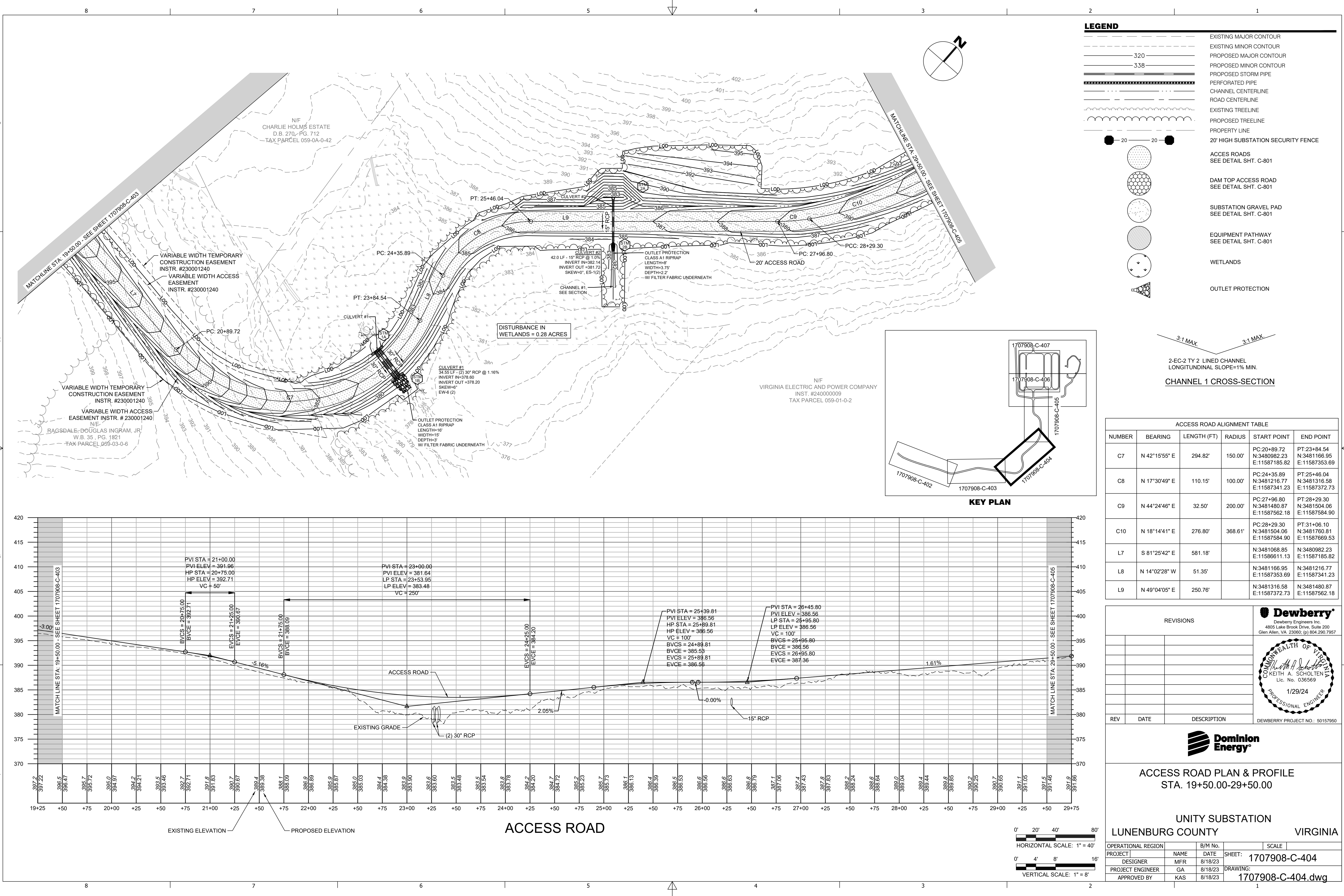
N/F
LONG, JOHNNY K.
INST. #22-0001211
TAX PARCEL 059-0A-0-54A

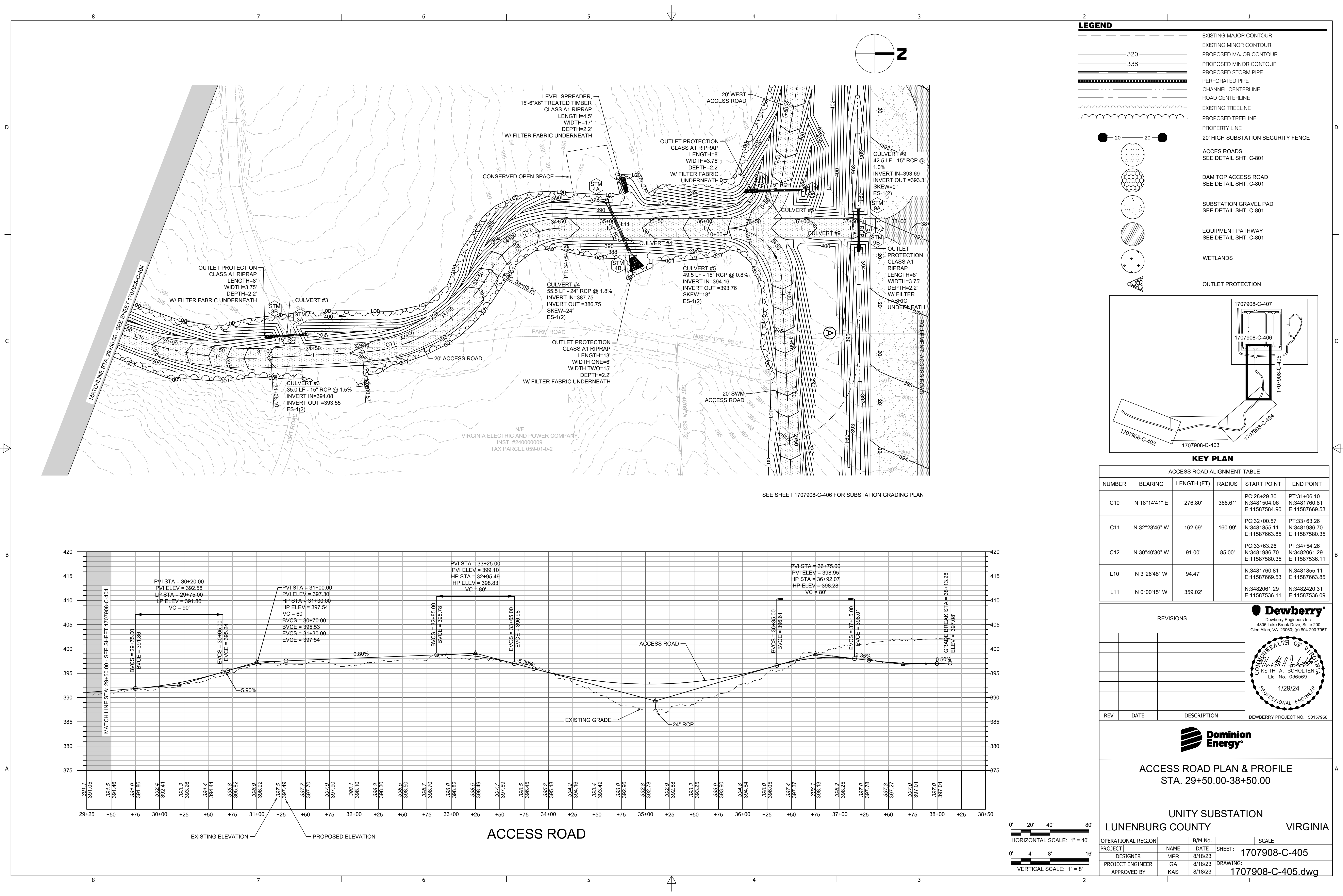
GENERAL NOTES

1. NOT ALL SUBSTATION COMPONENTS SHOWN FOR CLARITY.
2. ELECTRICAL GENERAL ARRANGEMENT PLANS BY OTHERS; SHOWN ON CIVIL PLANS FOR INFORMATION ONLY.
3. LIMITS OF DISTURBANCE AND PROPOSED TREE LINE SHOWN SPACED FOR GRAPHICAL CLARITY. DO NOT CLEAR BEYOND LIMITS OF DISTURBANCE.
4. ALL GRADES SHOWN ARE SOIL GRADES AND PAVEMENT GRADES.

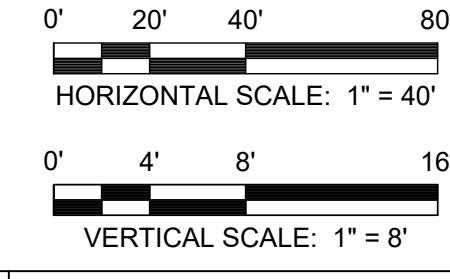
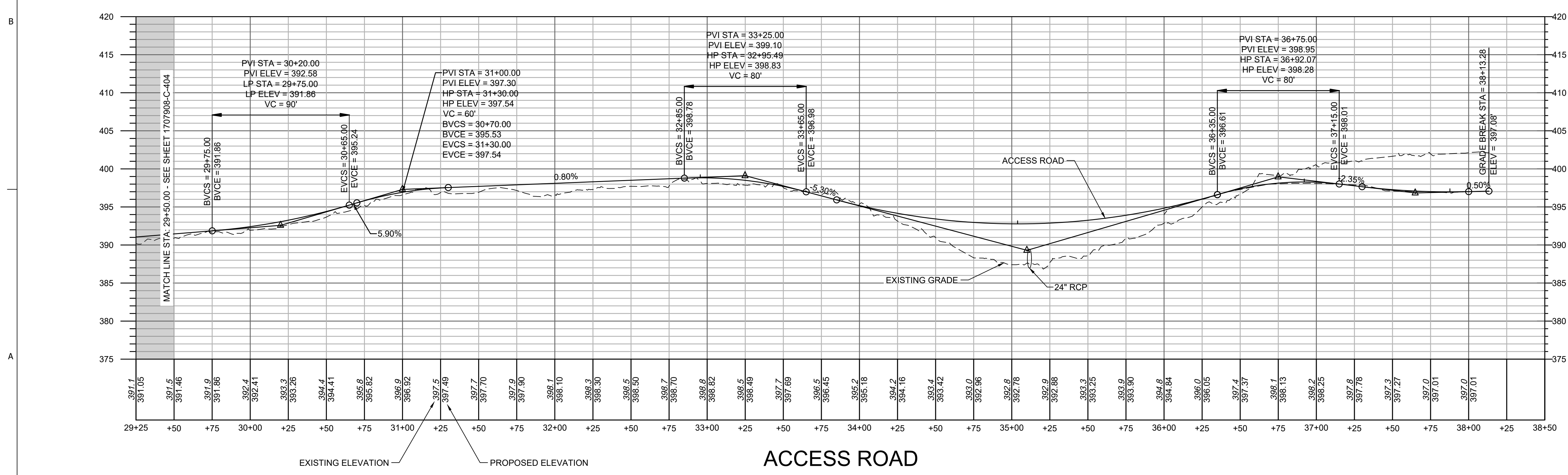


REVISIONS			 Dewberry Engineers Inc. 4805 Lake Brook Drive, Suite 200 Glen Allen, VA 23060; (p) 804.290.7957		
			 DEWBERRY PROJECT NO.: 50157950		
REV	DATE	DESCRIPTION			
					
OVERALL GRADING AND DRAINAGE PLANS					
UNITY SUBSTATION			VIRGINIA		
LUNENBURG COUNTY					
OPERATIONAL REGION			B/M No.	SCALE	AS SHOWN
PROJECT	5017950	NAME	DATE	SHEET: 1707908-C-401	
DESIGNER	MFR	GA	8/18/23	DRAWING: 1707908-C-401.dwg	
PROJECT ENGINEER	KAS	8/18/23			
APPROVED BY					

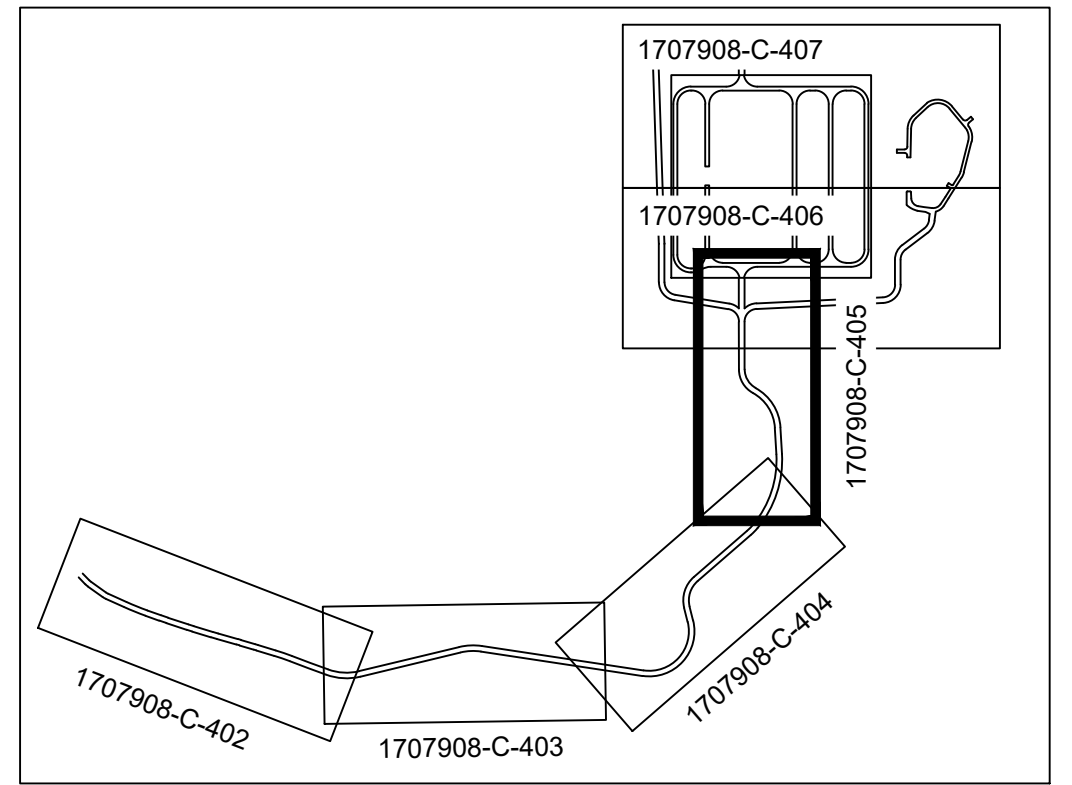




SEE SHEET 1707908-C-406 FOR SUBSTATION GRADING PLAN



LEGEND	
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	PROPOSED STORM PIPE
	PERFORATED PIPE
	CHANNEL CENTERLINE
	ROAD CENTERLINE
	EXISTING TREELINE
	PROPOSED TREELINE
	PROPERTY LINE
	20' HIGH SUBSTATION SECURITY FENCE
	ACCESS ROADS
	DAM TOP ACCESS ROAD
	SUBSTATION GRAVEL PAD
	EQUIPMENT PATHWAY
	WETLANDS
	OUTLET PROTECTION



KEY PLAN

ACCESS ROAD ALIGNMENT TABLE					
NUMBER	BEARING	LENGTH (FT)	RADIUS	START POINT	END POINT
C10	N 18°14'41" E	276.80'	368.61'	PC:28+29.30 N:3481504.06 E:11587584.90	PT:31+06.10 N:3481760.81 E:11587669.53
C11	N 32°23'46" W	162.69'	160.99'	PC:32+00.57 N:3481855.11 E:11587663.85	PT:33+63.26 N:3481986.70 E:11587580.35
C12	N 30°40'30" W	91.00'	85.00'	PC:33+63.26 N:3481986.70 E:11587580.35	PT:34+54.26 N:3482061.29 E:11587536.11
L10	N 3°26'48" W	94.47'		N:3481760.81 E:11587669.53	N:3481855.11 E:11587663.85
L11	N 0°00'15" W	359.02'		N:3482061.29 E:11587536.11	N:3482420.31 E:11587536.09

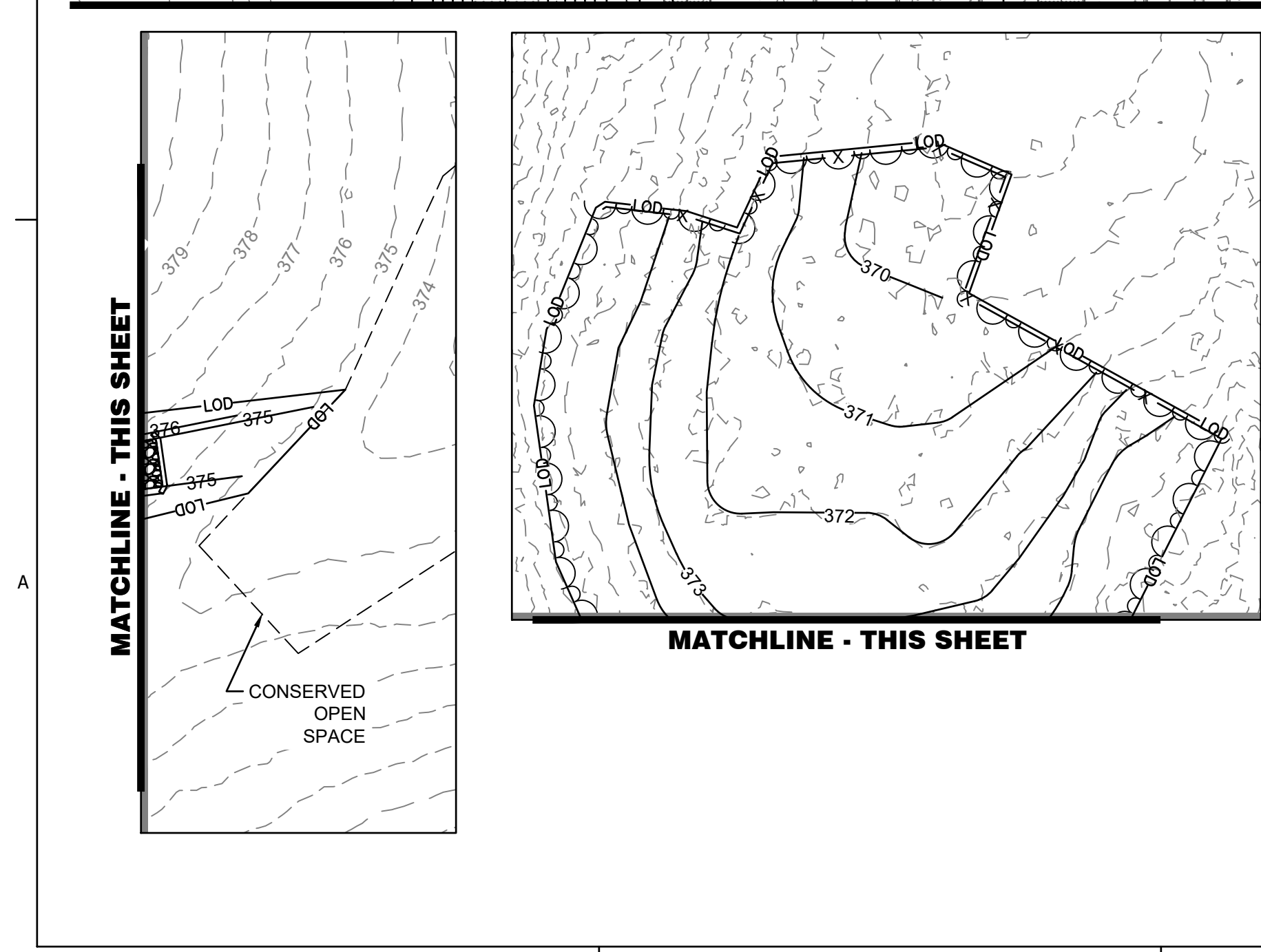
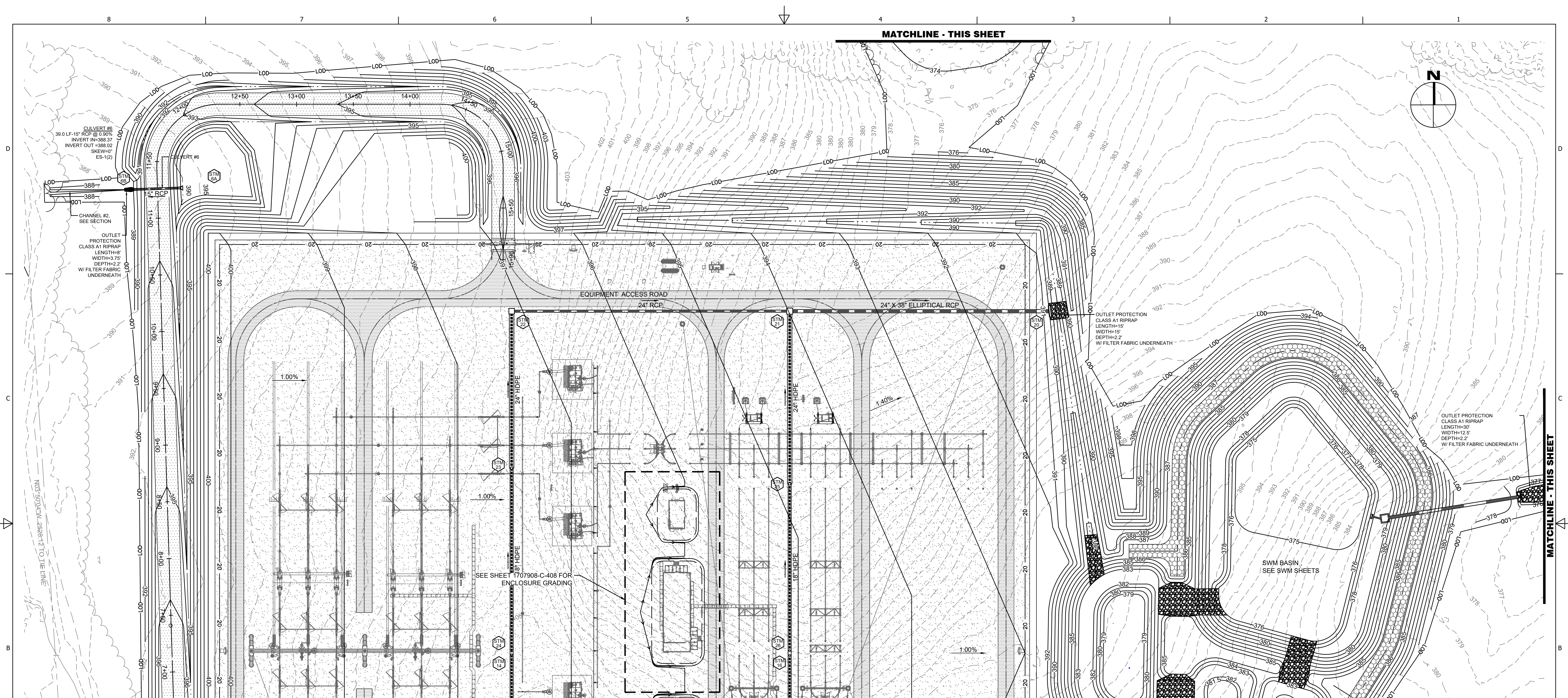
REVISIONS			 Dewberry Engineers Inc. 4805 Lake Brook Drive, Suite 200 Glen Allen, VA 23060 (p) 804.290.7957 KEITH A. SCHOLTEN Lic. No. 036569 1/29/24 PROFESSIONAL ENGINEER DEWBERRY PROJECT NO.: 50157950
REV	DATE	DESCRIPTION	

ACCESS ROAD PLAN & PROFILE
STA. 29+50.00-38+50.00

UNITY SUBSTATION
LUNENBURG COUNTY VIRGINIA

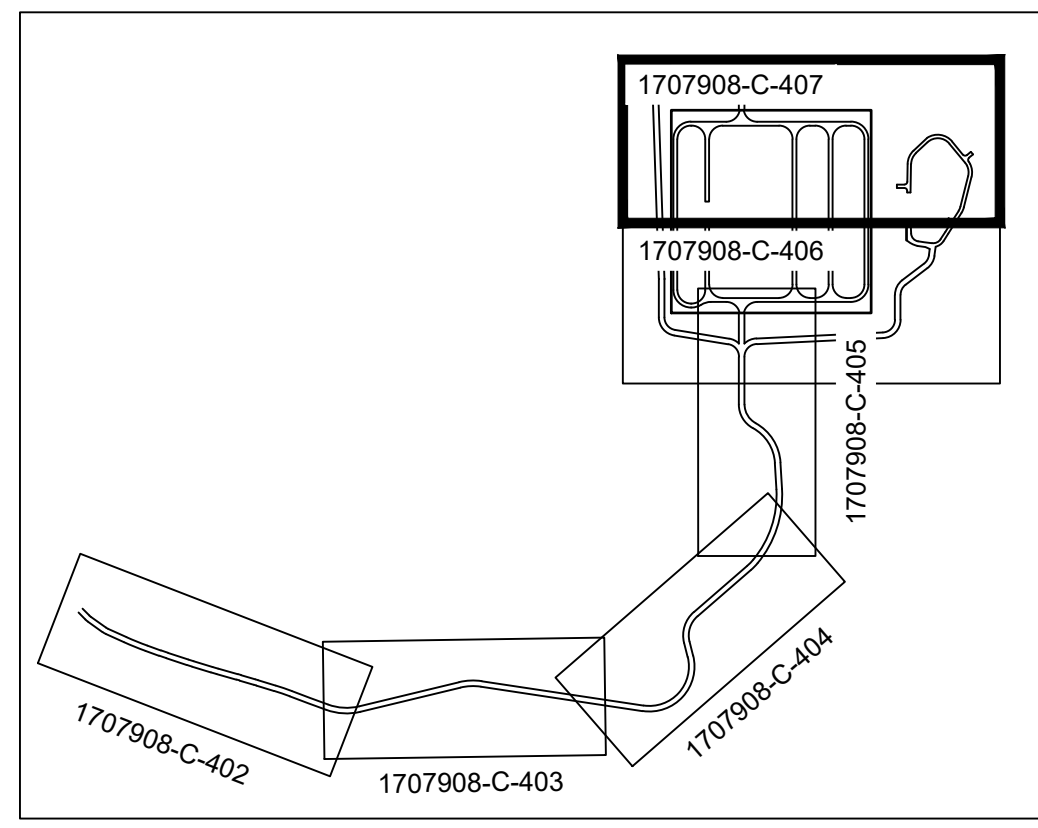
OPERATIONAL REGION	B/M No.	SCALE
PROJECT	NAME	DATE
DESIGNER	MFR	8/18/23
PROJECT ENGINEER	GA	8/18/23
APPROVED BY	KAS	8/18/23

SHEET: 1707908-C-405
DRAWING: 1707908-C-405.dwg



LEGEND	
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	PROPOSED STORM PIPE
	PERFORATED PIPE
	CHANNEL CENTERLINE
	ROAD CENTERLINE
	EXISTING TREELINE
	PROPOSED TREELINE
	PROPERTY LINE
	20' SUBSTATION SECURITY FENCE
	ACCES ROADS SEE DETAIL SHT. C-801
	DAM TOP ACCESS ROAD SEE DETAIL SHT. C-801
	SUBSTATION GRAVEL PAD SEE DETAIL SHT. C-801
	EQUIPMENT PATHWAY SEE DETAIL SHT. C-801
	WETLANDS
	OUTLET PROTECTION

MATCHLINE - SEE SHEET 1707908-C-406



3:1 MAX. 3:1 MAX.

2-EC-2 TY 2 LINED CHANNEL
LONGITUDINAL SLOPE=1% MIN.

CHANNEL 2 CROSS-SECTION

GENERAL NOTES

- NOT ALL SUBSTATION COMPONENTS SHOWN FOR CLARITY.
- ELECTRICAL GENERAL ARRANGEMENT PLANS BY OTHERS; SHOWN ON CIVIL PLANS FOR INFORMATION ONLY.
- LIMITS OF DISTURBANCE AND PROPOSED TREE LINE SHOWN SPACED FOR GRAPHICAL CLARITY. DO NOT CLEAR BEYOND LIMITS OF DISTURBANCE.
- 20' HIGH SUBSTATION SECURITY FENCE:

SHOWN ON CIVIL PLANS FOR LOCATION ONLY. SEE CONFIDENTIAL FENCE PLANS (BY OTHERS) FOR DETAILED CONSTRUCTION PLANS.

ALL GRADES SHOWN ARE SOIL GRADES AND PAVEMENT GRADES.

GRADING LEGEND

SP = GROUND ELEVATION
EP = EDGE OF PAVEMENT ELEVATION
FL = DITCH FLOWLINE ELEVATION

REVISIONS		
REV	DATE	DESCRIPTION

Dewberry
Dewberry Engineers Inc.
4805 Lake Brook Drive, Suite 200
Glen Allen, VA 23060 (p) 804.290.7957

COMMONWEALTH OF VIRGINIA
CO. Keith A. Scholten
Lic. No. 036569
1/29/24
PROFESSIONAL ENGINEER

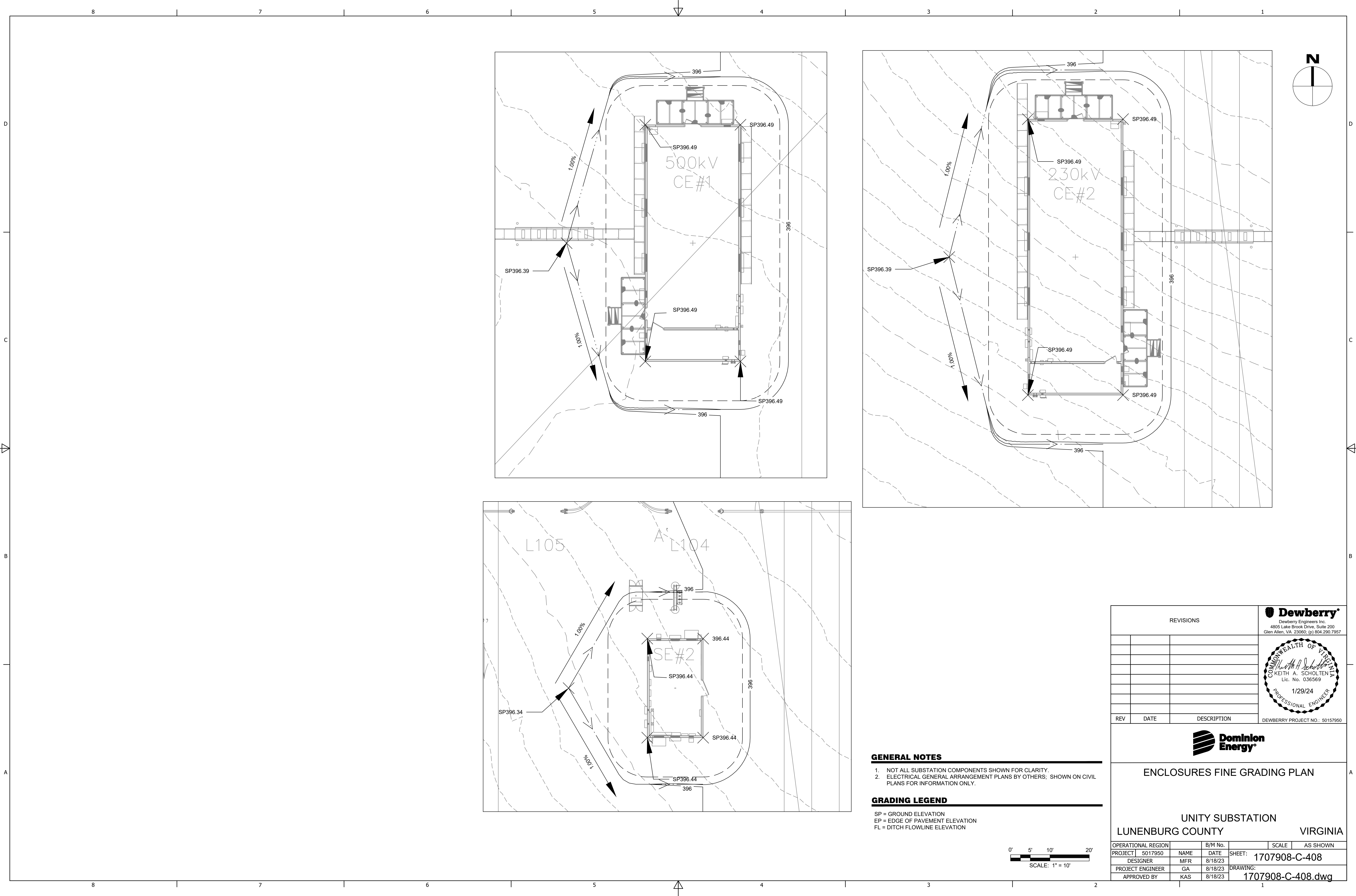
DEWBERRY PROJECT NO.: 50157950

Dominion Energy

SUBSTATION GRADING AND DRAINAGE PLAN 2

UNITY SUBSTATION
LUNENBURG COUNTY
VIRGINIA

OPERATIONAL REGION	B/M No.	SCALE	AS SHOWN
PROJECT 5017950	NAME DATE	SHEET: 1707908-C-407	
DESIGNER MFR	8/18/23	DRAWING: 1707908-C-407.dwg	
PROJECT ENGINEER GA	8/18/23		
APPROVED BY KAS	8/18/23		



- GENERAL NOTES**
1. NOT ALL SUBSTATION COMPONENTS SHOWN FOR CLARITY.
 2. ELECTRICAL GENERAL ARRANGEMENT PLANS BY OTHERS; SHOWN ON CIVIL PLANS FOR INFORMATION ONLY.

GRADING LEGEND

SP = GROUND ELEVATION
EP = EDGE OF PAVEMENT ELEVATION
FL = DITCH FLOWLINE ELEVATION

REVISIONS			
REV	DATE	DESCRIPTION	

Dewberry Engineers Inc.
4805 Lake Brook Drive, Suite 200
Glen Allen, VA 23060; (p) 804.290.7957

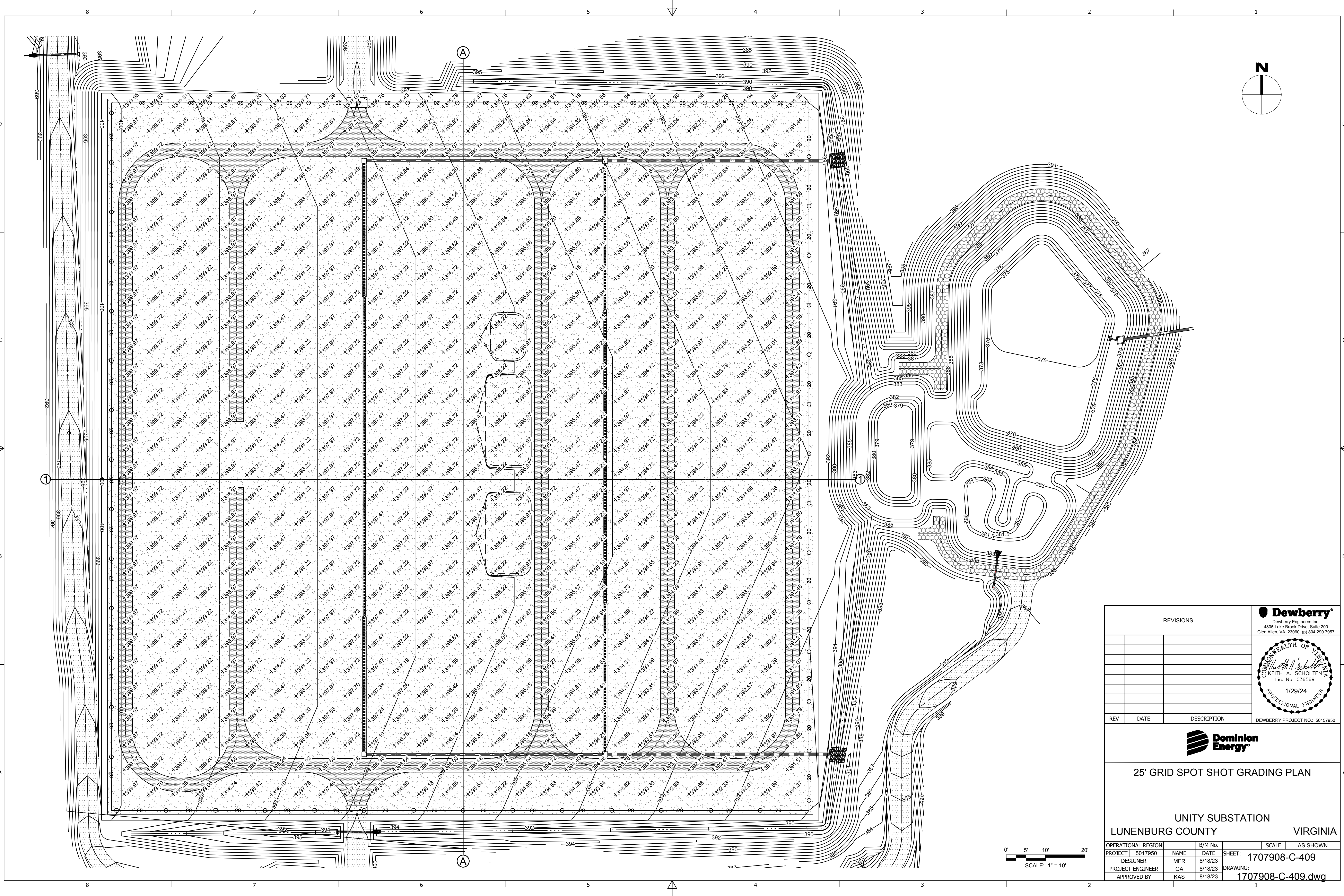
COMMONWEALTH OF VIRGINIA
KEITH A. SCHOLTEN
Lic. No. 036569
1/29/24
PROFESSIONAL ENGINEER

DEWBERRY PROJECT NO.: 50157950

ENCLOSURES FINE GRADING PLAN

UNITY SUBSTATION
LUNENBURG COUNTY **VIRGINIA**

OPERATIONAL REGION	B/M No.	SCALE	AS SHOWN
PROJECT 5017950	NAME DATE	SHEET: 1707908-C-408	
DESIGNER MFR	GA 8/18/23	DRAWING: 1707908-C-408.dwg	
PROJECT ENGINEER GA	8/18/23		
APPROVED BY KAS	8/18/23		

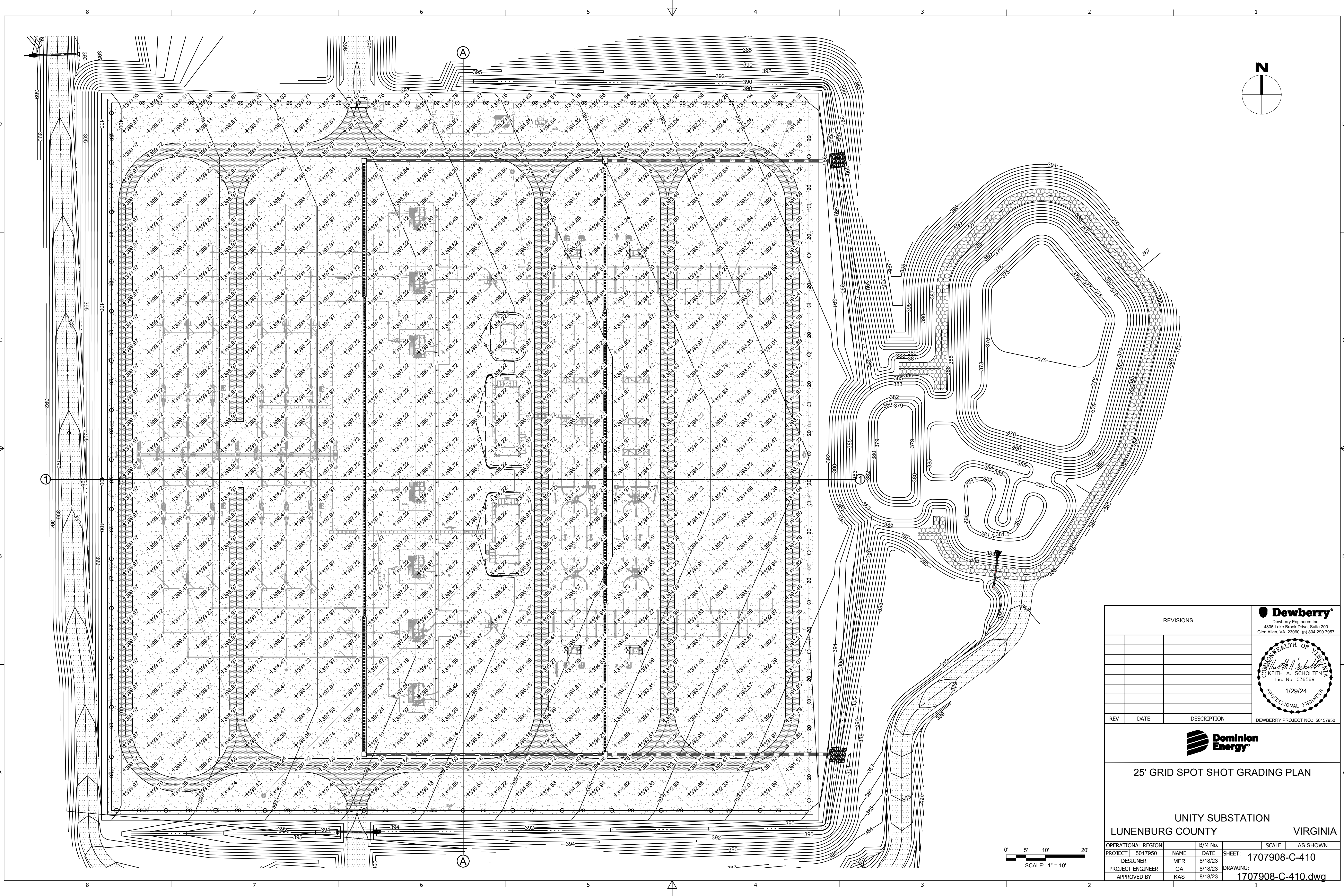


REVISIONS			Dewberry Dewberry Engineers Inc. 4805 Lake Brook Drive, Suite 200 Glen Allen, VA 23060 (p) 804.290.7957	
REV	DATE	DESCRIPTION	 DEWBERRY PROJECT NO.: 50157950	

25' GRID SPOT SHOT GRADING PLAN

UNITY SUBSTATION
LUNENBURG COUNTY
VIRGINIA

OPERATIONAL REGION	NAME	B/M No.	DATE	SCALE	AS SHOWN
PROJECT	5017950	NAME	DATE	SHEET:	1707908-C-409
DESIGNER	MFR	GA	8/18/23	DRAWING:	1707908-C-409.dwg
PROJECT ENGINEER	KAS	8/18/23			
APPROVED BY	KAS	8/18/23			



REV		DATE	DESCRIPTION

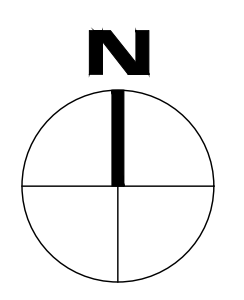
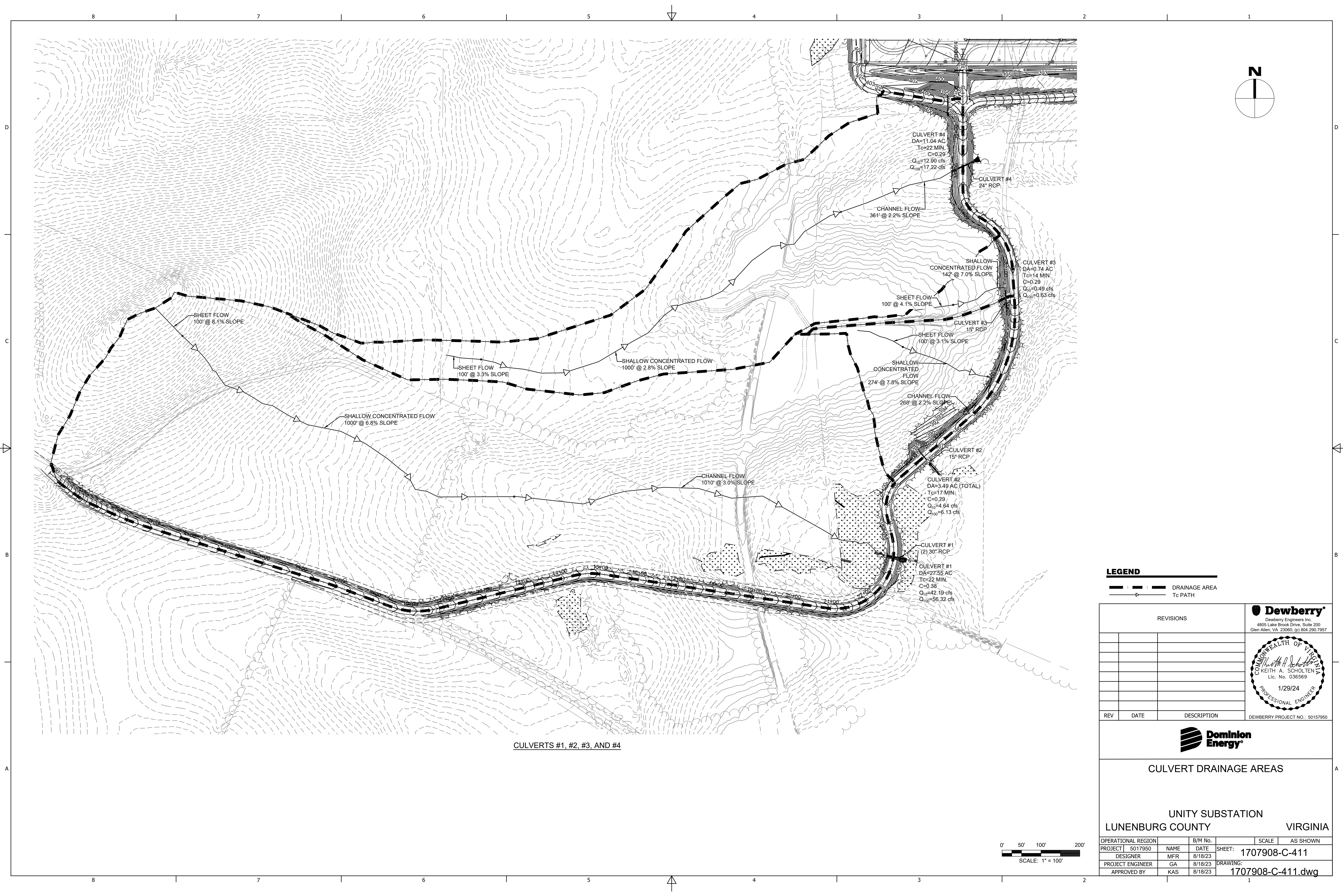
Dewberry Engineers Inc.
4805 Lake Brook Drive, Suite 200
Glen Allen, VA 23060 (p) 804.290.7957

DEWBERRY PROJECT NO.: 50157950

25' GRID SPOT SHOT GRADING PLAN

UNITY SUBSTATION
LUNENBURG COUNTY VIRGINIA

OPERATIONAL REGION	NAME	B/M No.	DATE	SCALE	AS SHOWN
PROJECT	5017950	NAME	DATE	SHEET:	1707908-C-410
DESIGNER	MFR	GA	8/18/23	DRAWING:	1707908-C-410.dwg
PROJECT ENGINEER	KAS	8/18/23			
APPROVED BY					



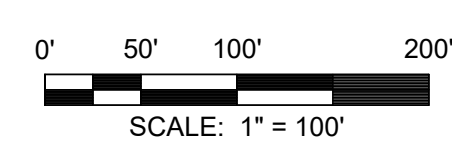
LEGEND

— DRAINAGE AREA
— Tc PATH

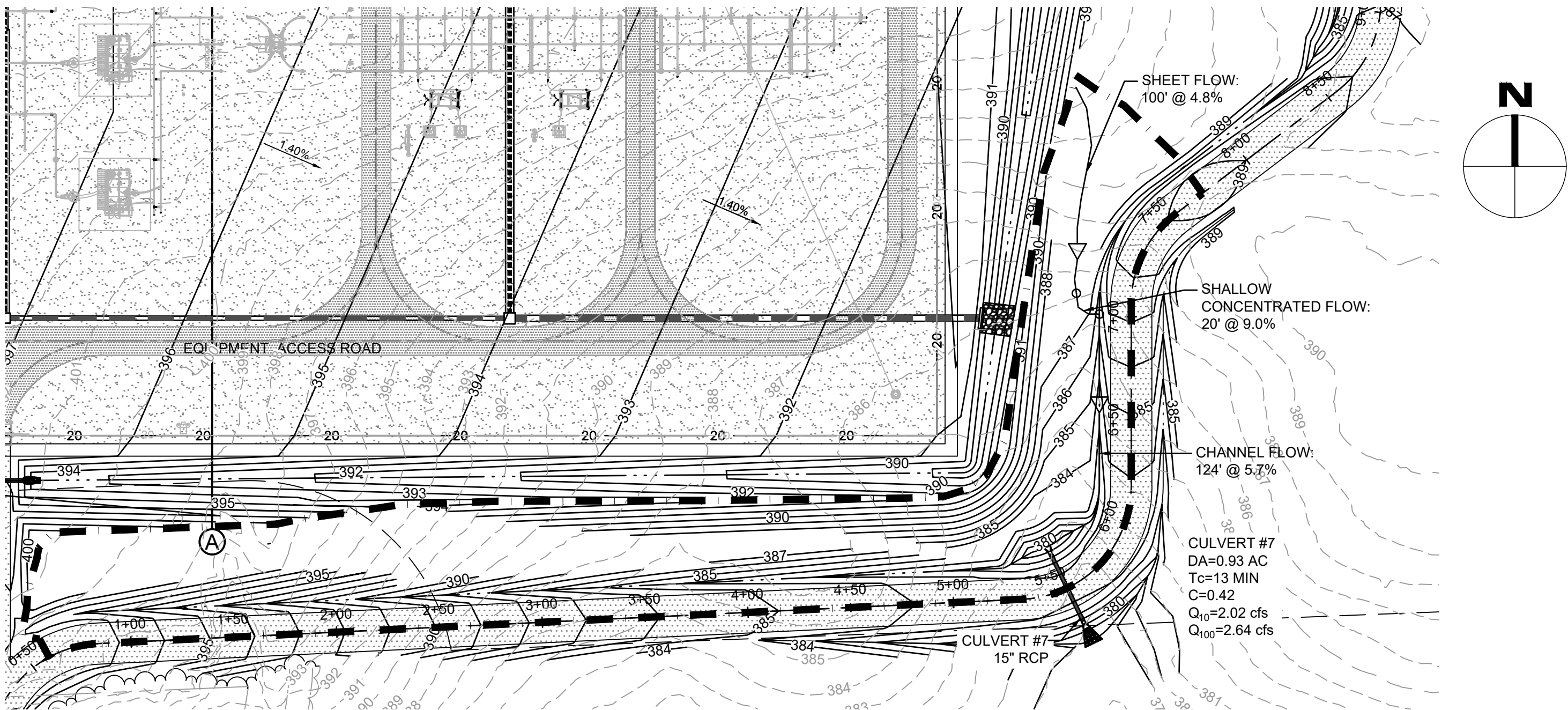
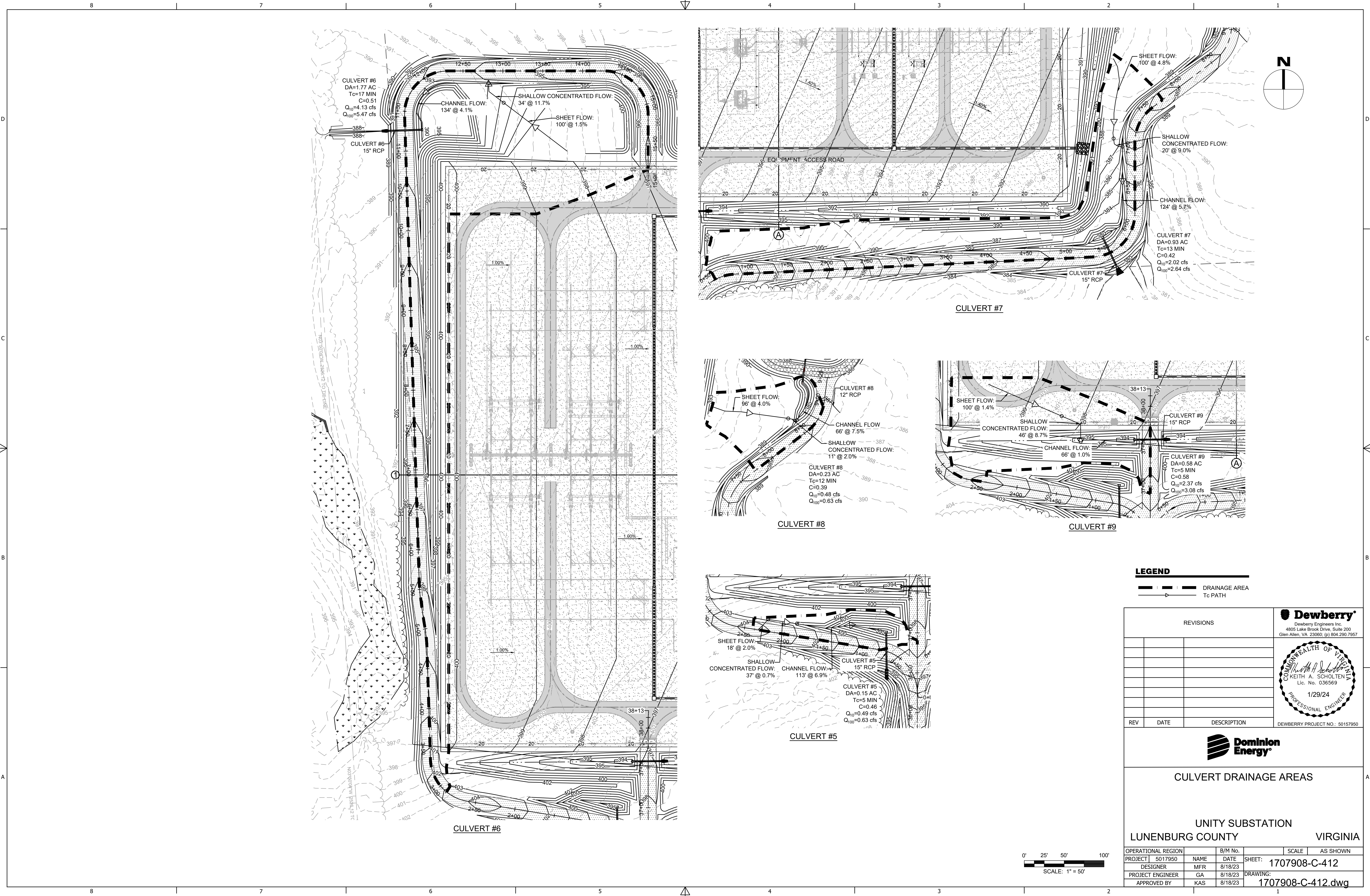
REVISIONS			<div> Dewberry Engineers Inc. 4805 Lake Brook Drive, Suite 200 Glen Allen, VA 23060 (p) 804.290.7957</div> <div> KEITH A. SCHOLTEN Lic. No. 036569 1/29/24 PROFESSIONAL ENGINEER</div>
REV	DATE	DESCRIPTION	DEWBERRY PROJECT NO.: 50157950



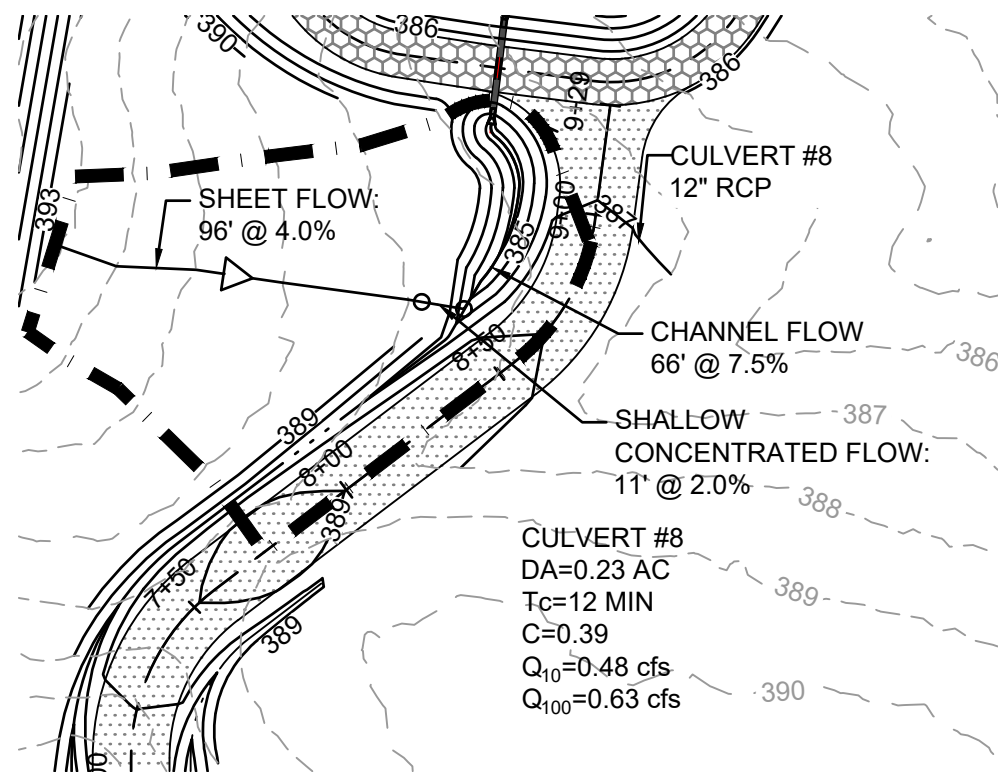
CULVERT DRAINAGE AREAS					
UNITY SUBSTATION					
LUNENBURG COUNTY			VIRGINIA		
OPERATIONAL REGION	PROJECT	B/M No.	DATE	SCALE	AS SHOWN
5017950	NAME	8/18/23	SHEET:	1707908-C-411	
DESIGNER	MFR	GA	8/18/23	DRAWING:	
PROJECT ENGINEER	KAS	8/18/23		1707908-C-411.dwg	
APPROVED BY					



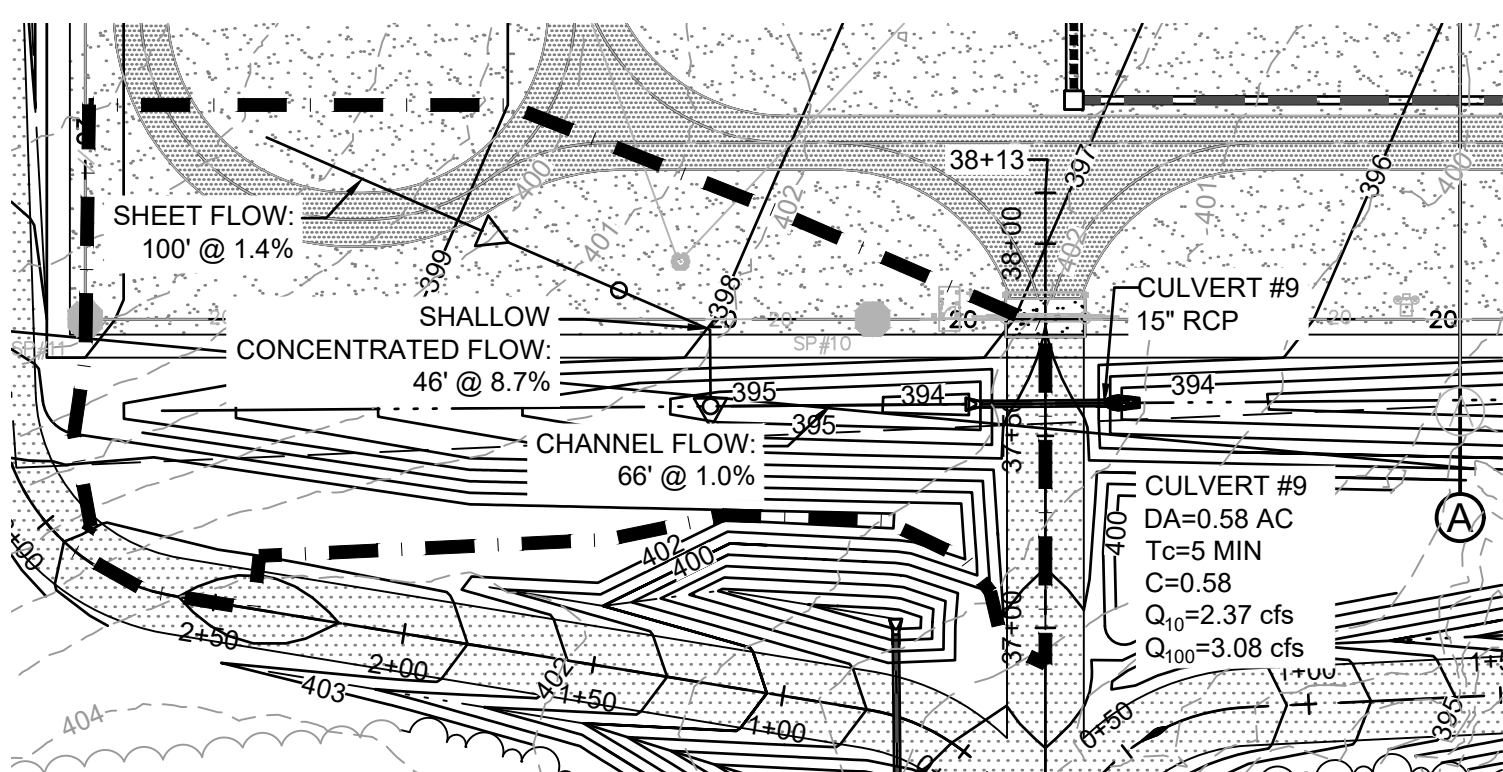
CULVERTS #1, #2, #3, AND #4



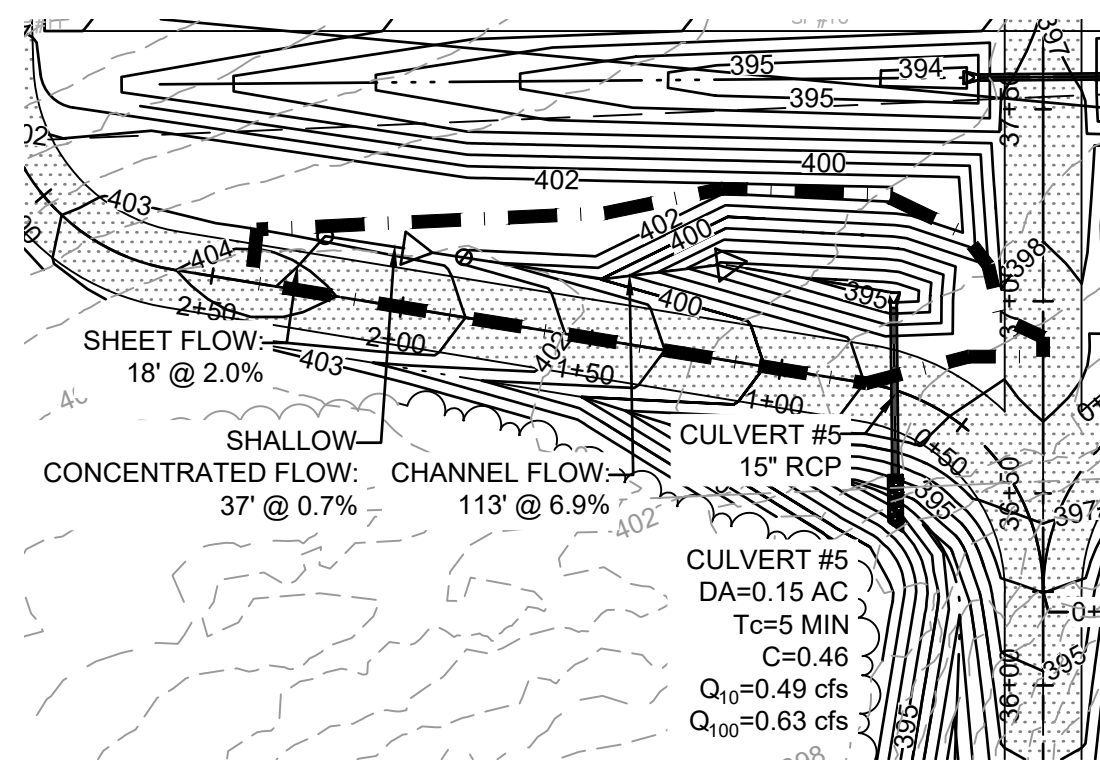
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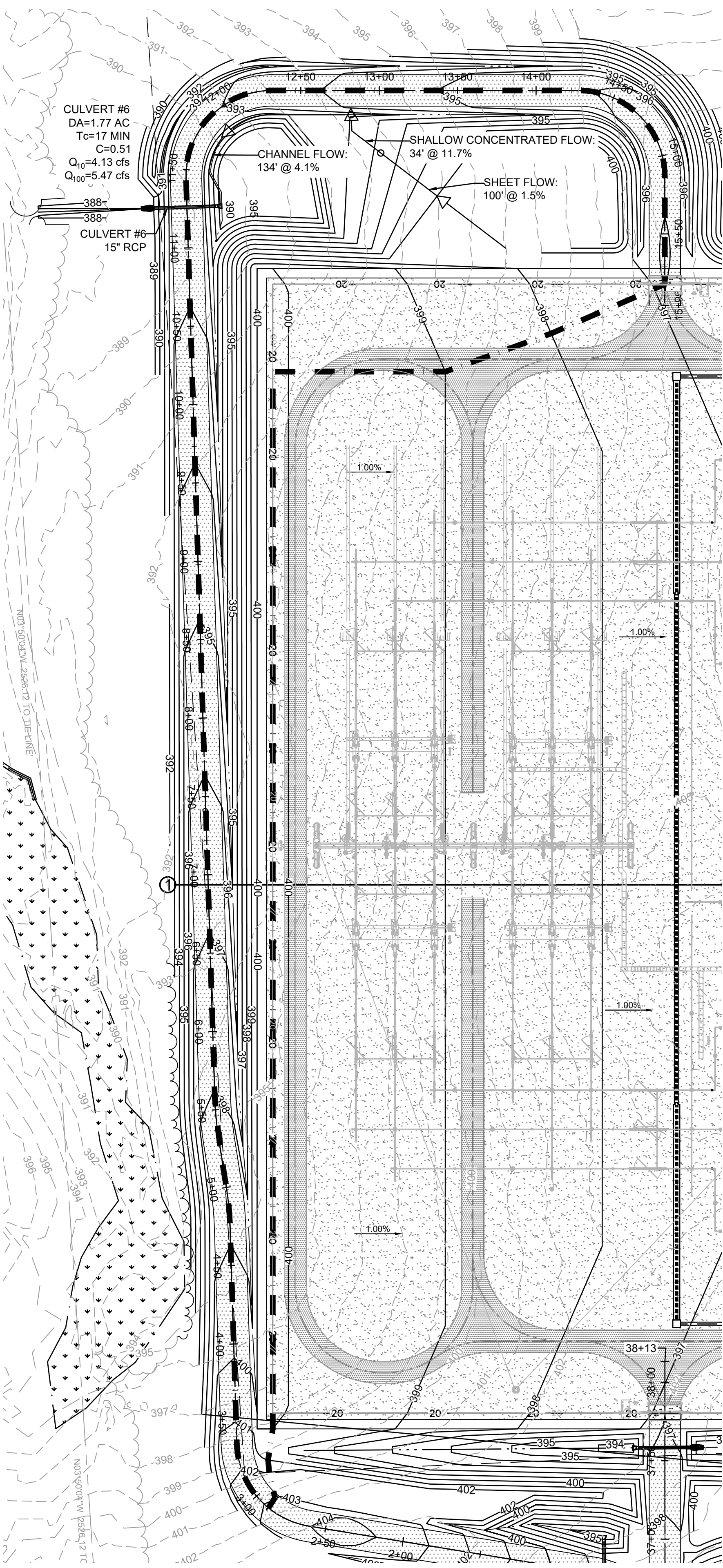
CULVERT #8



CULVERT #9






CULVERT #5



CULVERT #6

LEGEND

- DRAINAGE AREA
- - - Tc PATH

REVISIONS			<div>Dewberry</div> <div>Dewberry Engineers Inc. 4805 Lake Brook Drive, Suite 200 Glen Allen, VA 23060; (p) 804.290.7957</div>	
			<div> 1/29/24 PROFESSIONAL ENGINEER</div> <div>DEWBERRY PROJECT NO.: 50157950</div>	
REV	DATE	DESCRIPTION		
<div>Dominion Energy</div>				

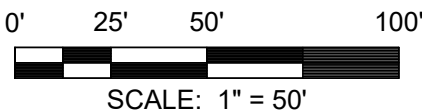
CULVERT DRAINAGE AREAS

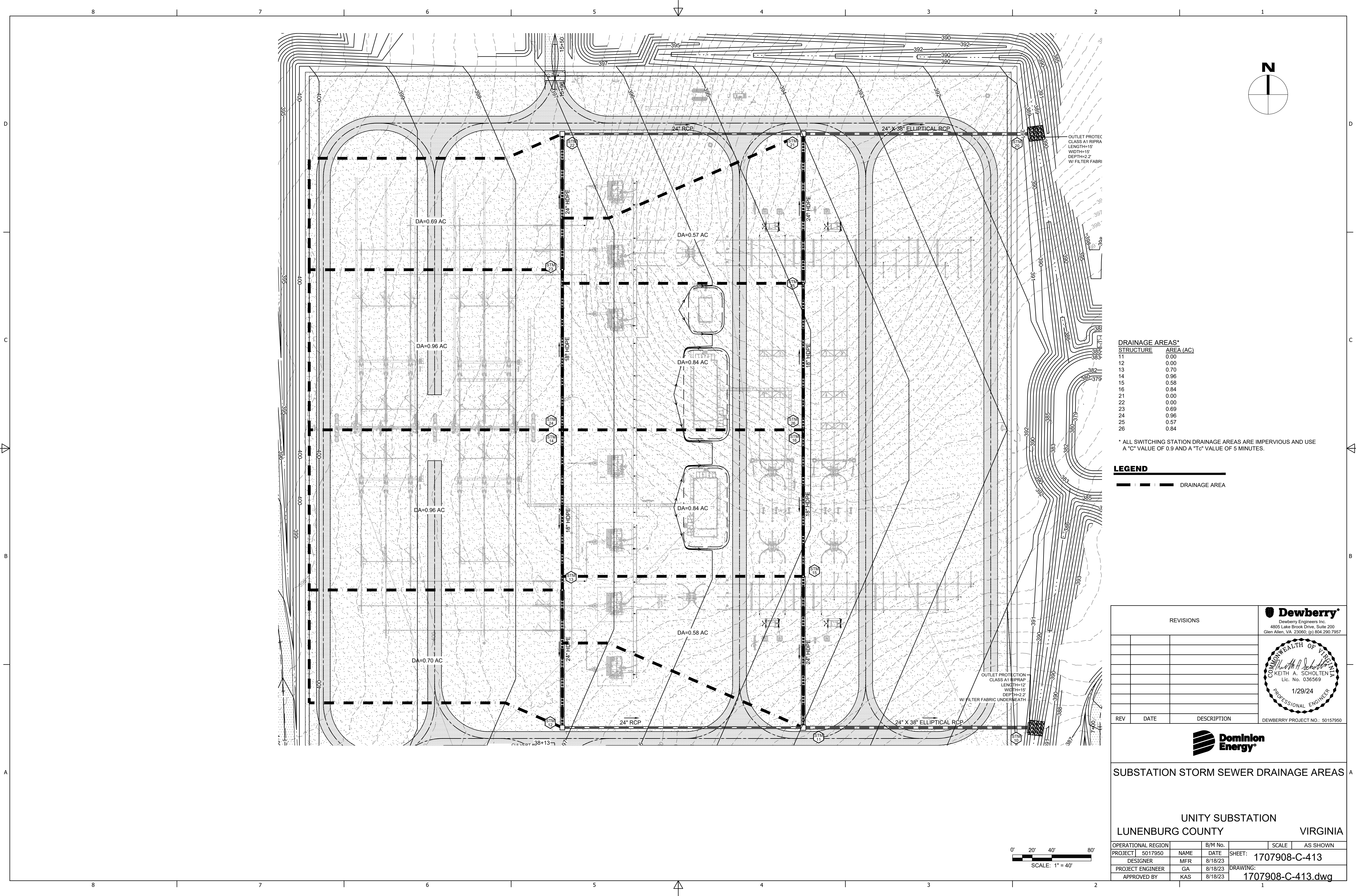
UNITY SUBSTATION

LUNENBURG COUNTY

VIRGINIA

OPERATIONAL REGION		B/M No.	SCALE	AS SHOWN
PROJECT	5017950	NAME	DATE	SHEET: 1707908-C-412
DESIGNER	MFR		8/18/23	DRAWING: 1707908-C-412.dwg
PROJECT ENGINEER	GA		8/18/23	
APPROVED BY	KAS		8/18/23	





DRAINAGE AREAS*

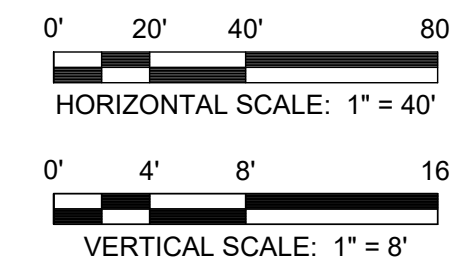
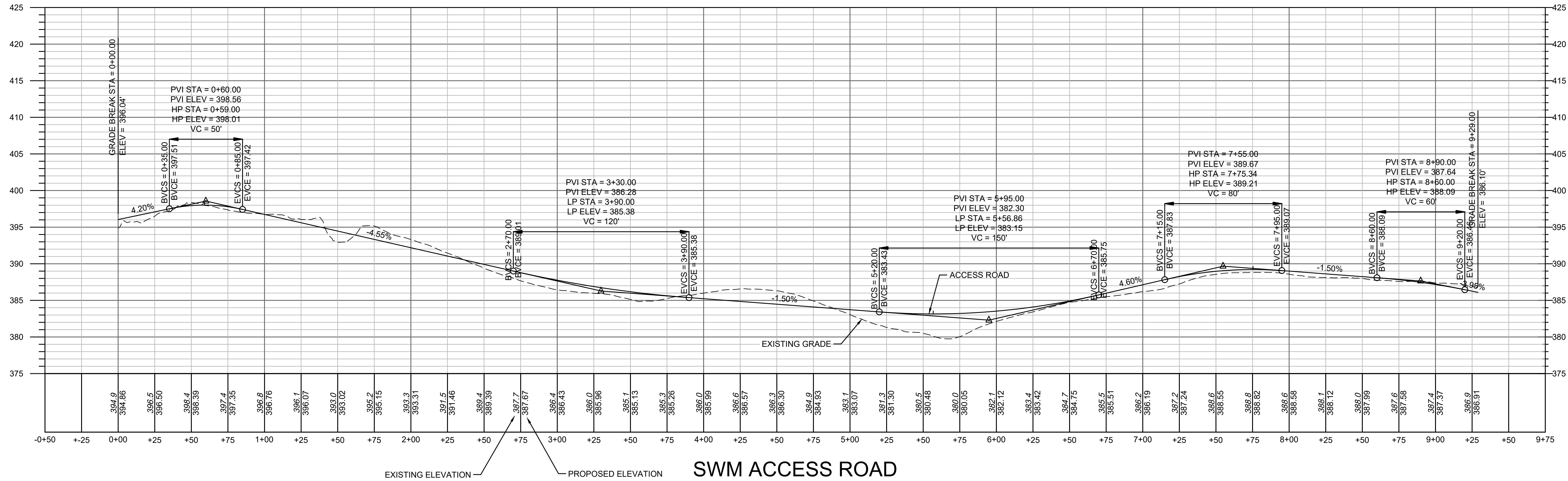
STRUCTURE	AREA (AC)
11	0.00
12	0.00
13	0.70
14	0.96
15	0.58
16	0.84
21	0.00
22	0.00
23	0.69
24	0.96
25	0.57
26	0.84

* ALL SWITCHING STATION DRAINAGE AREAS ARE IMPERVIOUS AND USE A "C" VALUE OF 0.9 AND A "Tc" VALUE OF 5 MINUTES.

LEGEND

--- DRAINAGE AREA

REVISIONS			 Dewberry Engineers Inc. 4805 Lake Brook Drive, Suite 200 Glen Allen, VA 23060; (p) 804.290.7957	
			 KEITH A. SCHOLTEN Lic. No. 036569 1/29/24 PROFESSIONAL ENGINEER	
REV	DATE	DESCRIPTION	DEWBERRY PROJECT NO.: 50157950	
SUBSTATION STORM SEWER DRAINAGE AREAS				
UNITY SUBSTATION LUNenburg COUNTY VIRGINIA				
OPERATIONAL REGION	B/M No.	SCALE	AS SHOWN	
PROJECT 5017950	NAME DATE	SHEET: 1707908-C-413		
DESIGNER MFR	8/18/23	DRAWING: 1707908-C-413.dwg		
PROJECT ENGINEER GA	8/18/23			
APPROVED BY KAS	8/18/23			



REVISIONS

REV	DATE	DESCRIPTION

Dewberry
Dewberry Engineers Inc.
4805 Lake Brook Drive, Suite 200
Glen Allen, VA 23060; (p) 804.290.7957

1/29/24
PROFESSIONAL ENGINEER

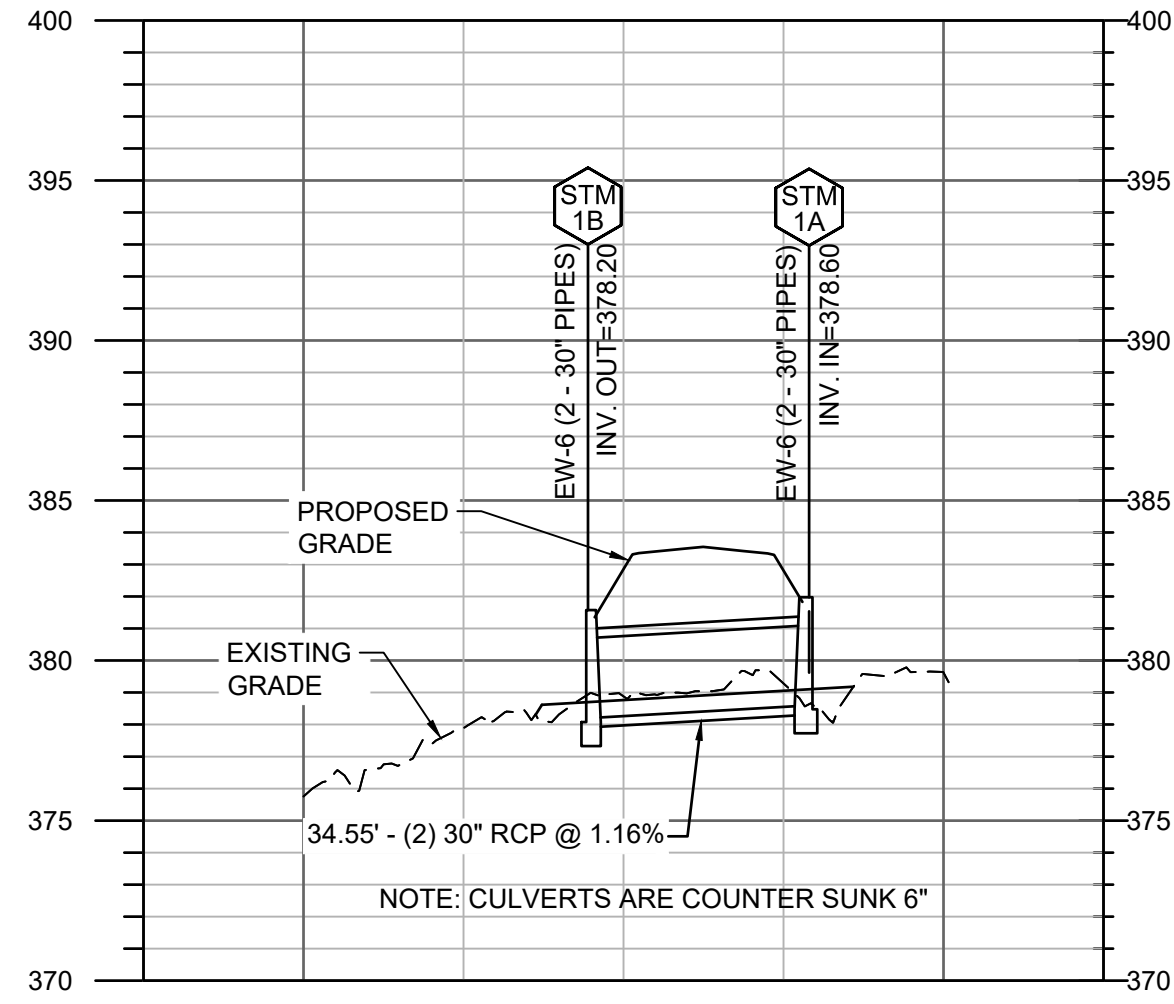
DWBERRY PROJECT NO.: 50157950

SWM ACCESS ROAD PROFILE

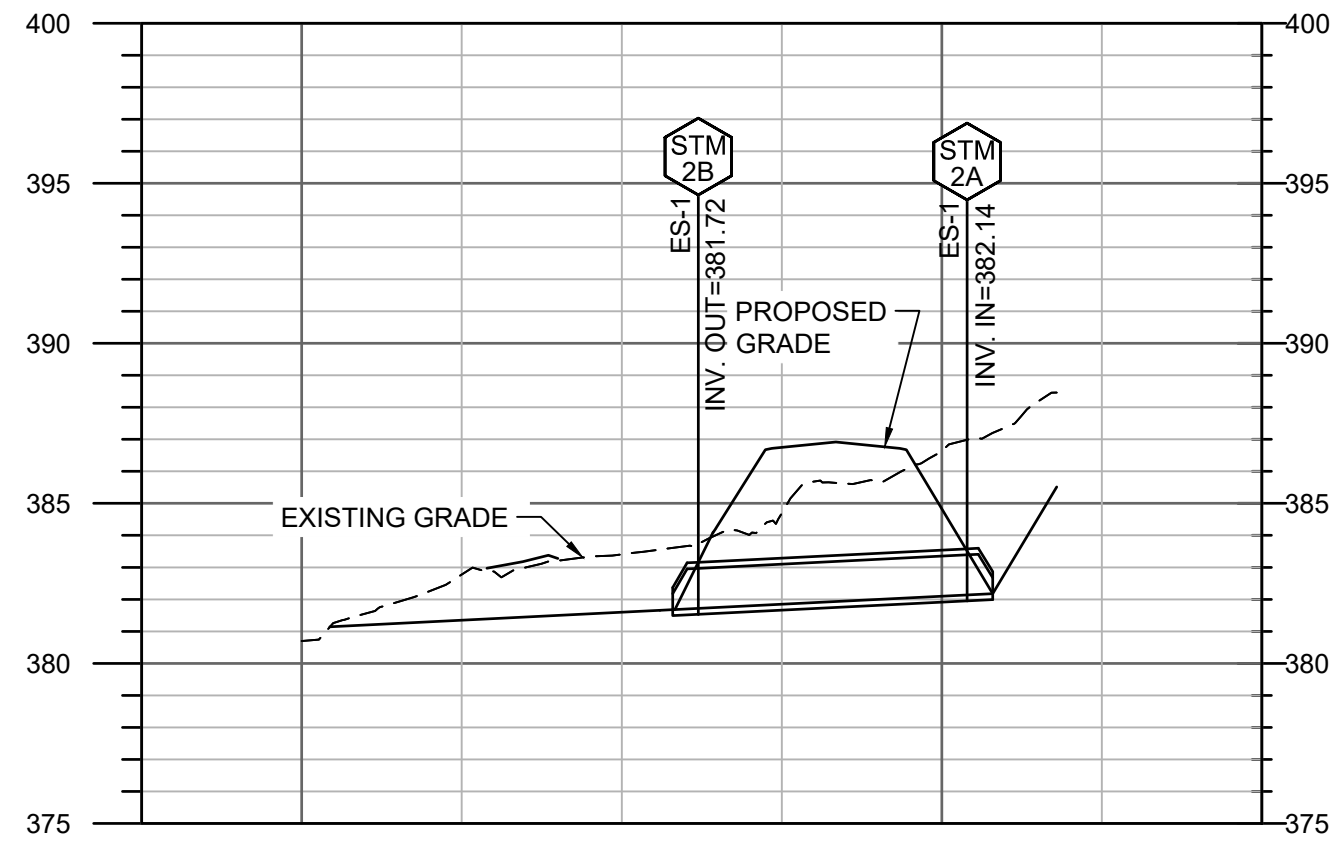
UNITY SUBSTATION
LUNENBURG COUNTY
VIRGINIA

OPERATIONAL REGION	NAME	B/M No.	DATE	SHEET:	SCALE
PROJECT	DESIGNER	MFR	8/18/23	1707908-C-501	
PROJECT ENGINEER	GA	8/18/23	DRAWING:		
APPROVED BY	KAS	8/18/23	1707908-C-501.dwg		

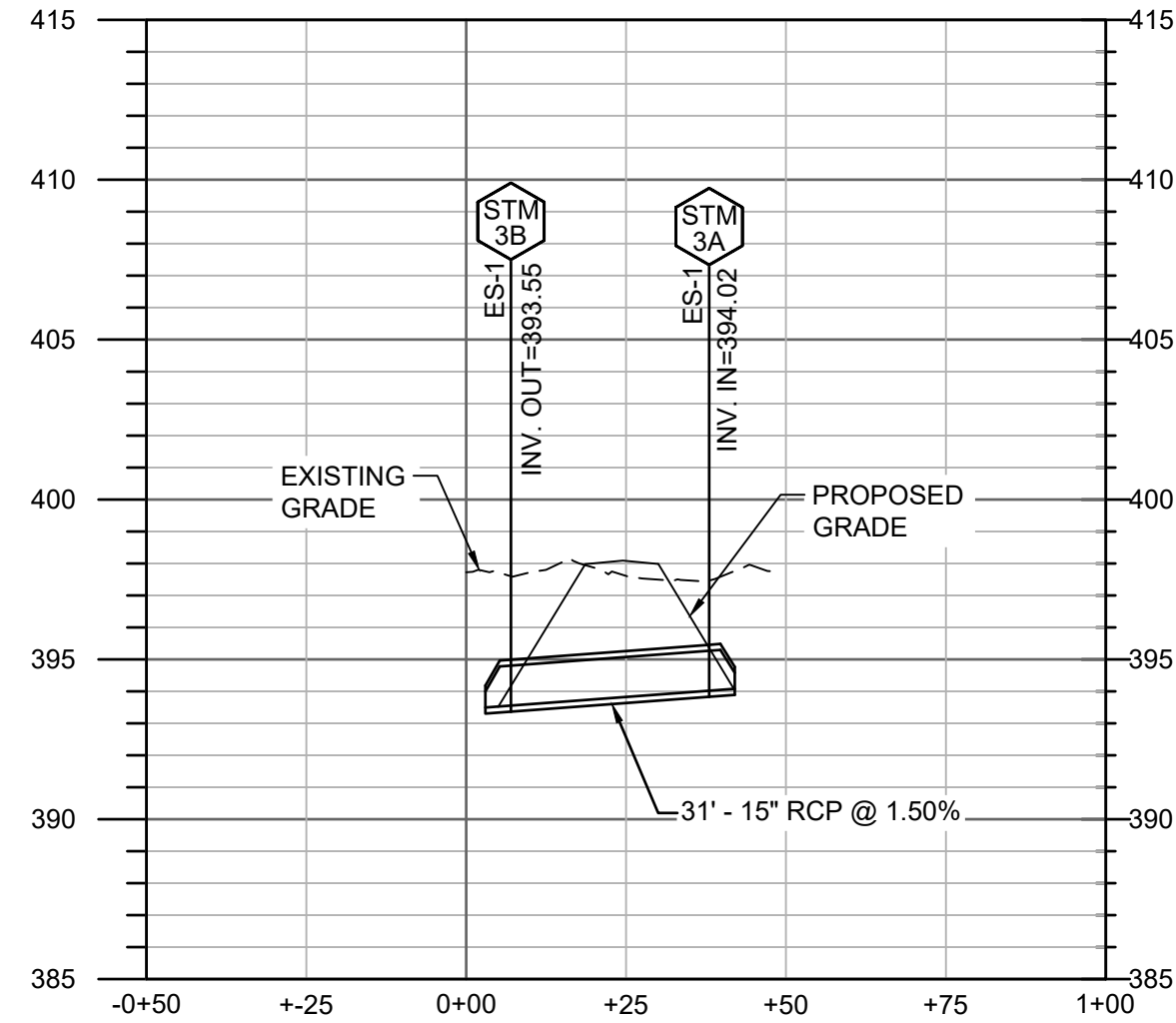
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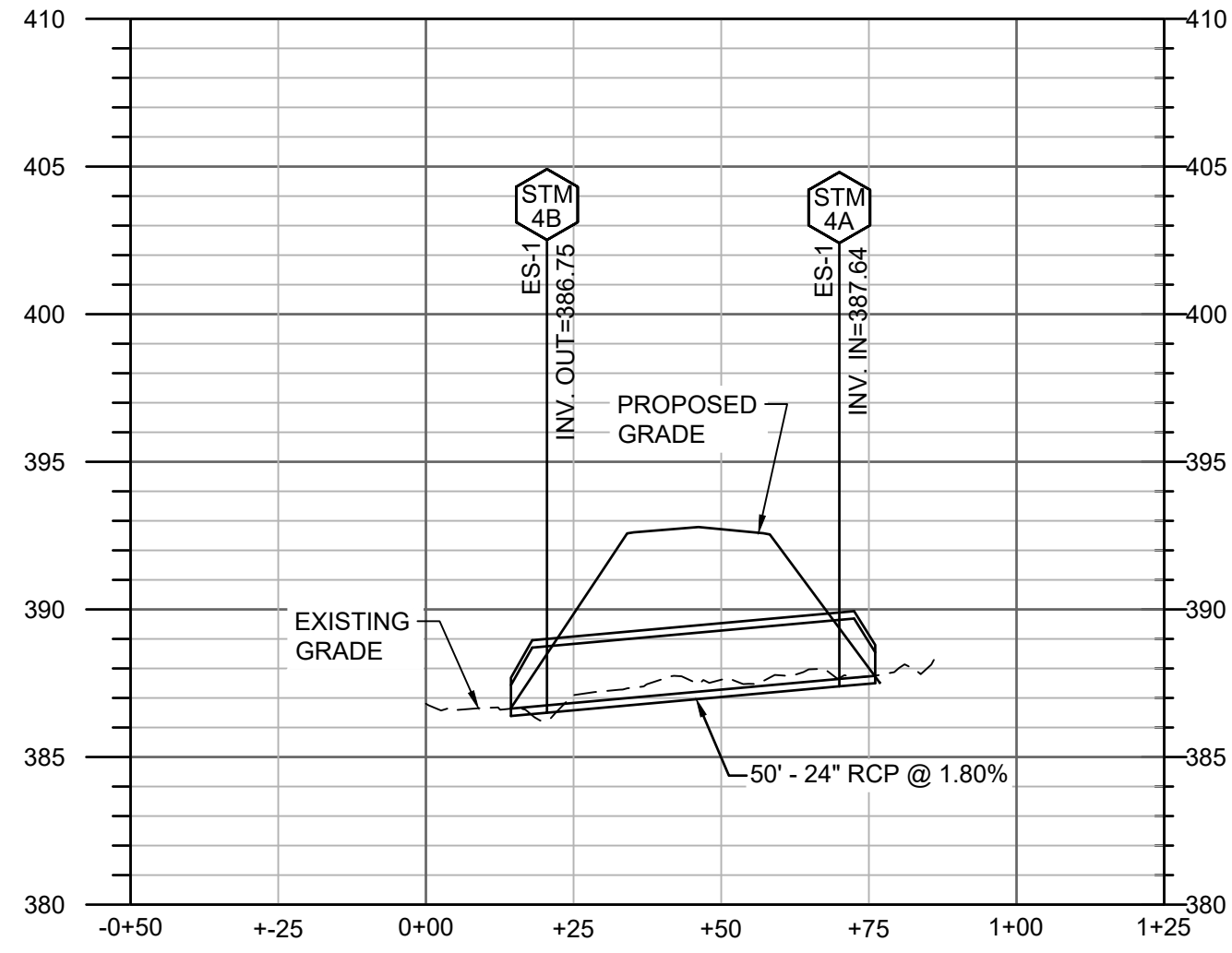
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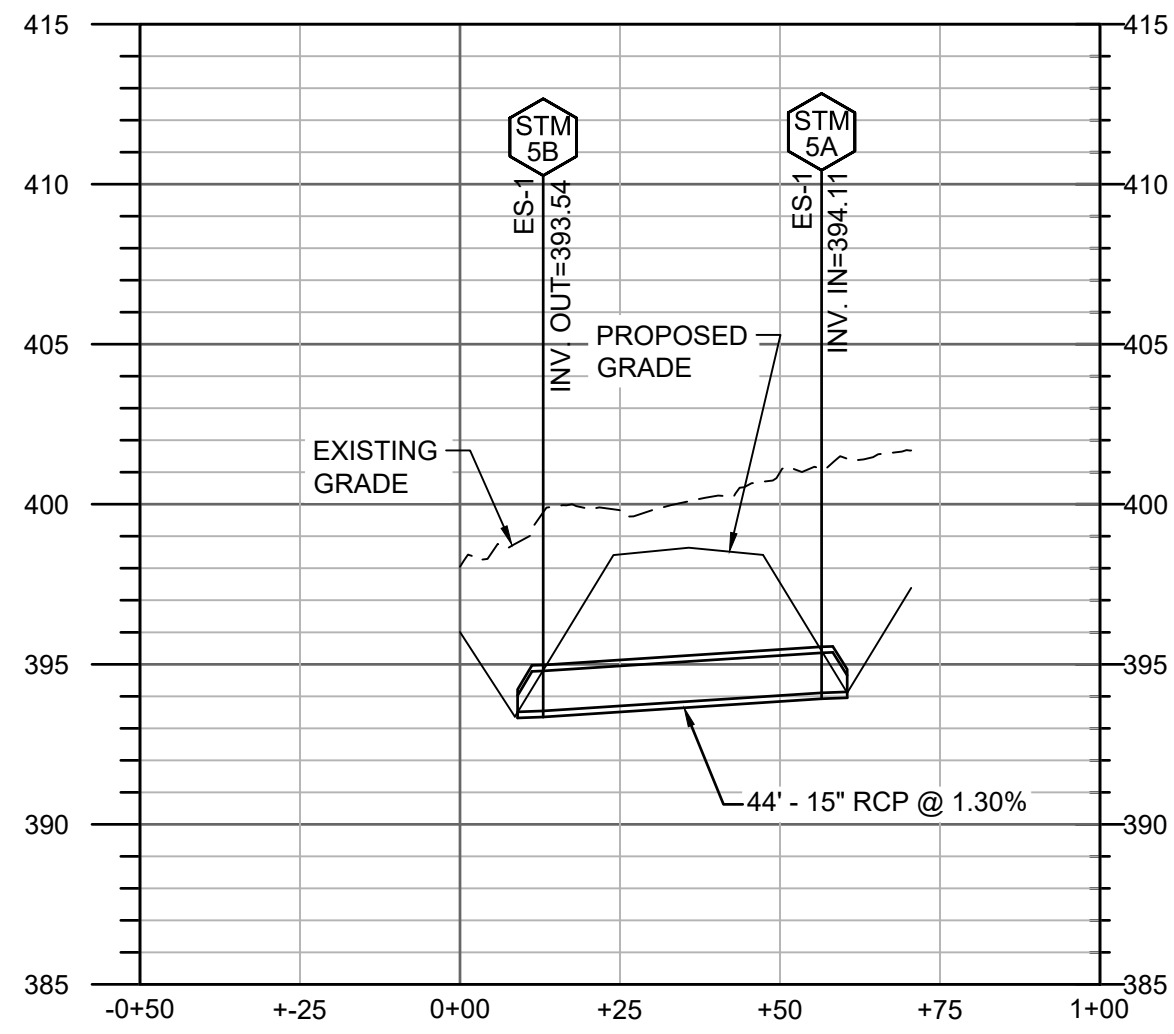
CULVERT 3



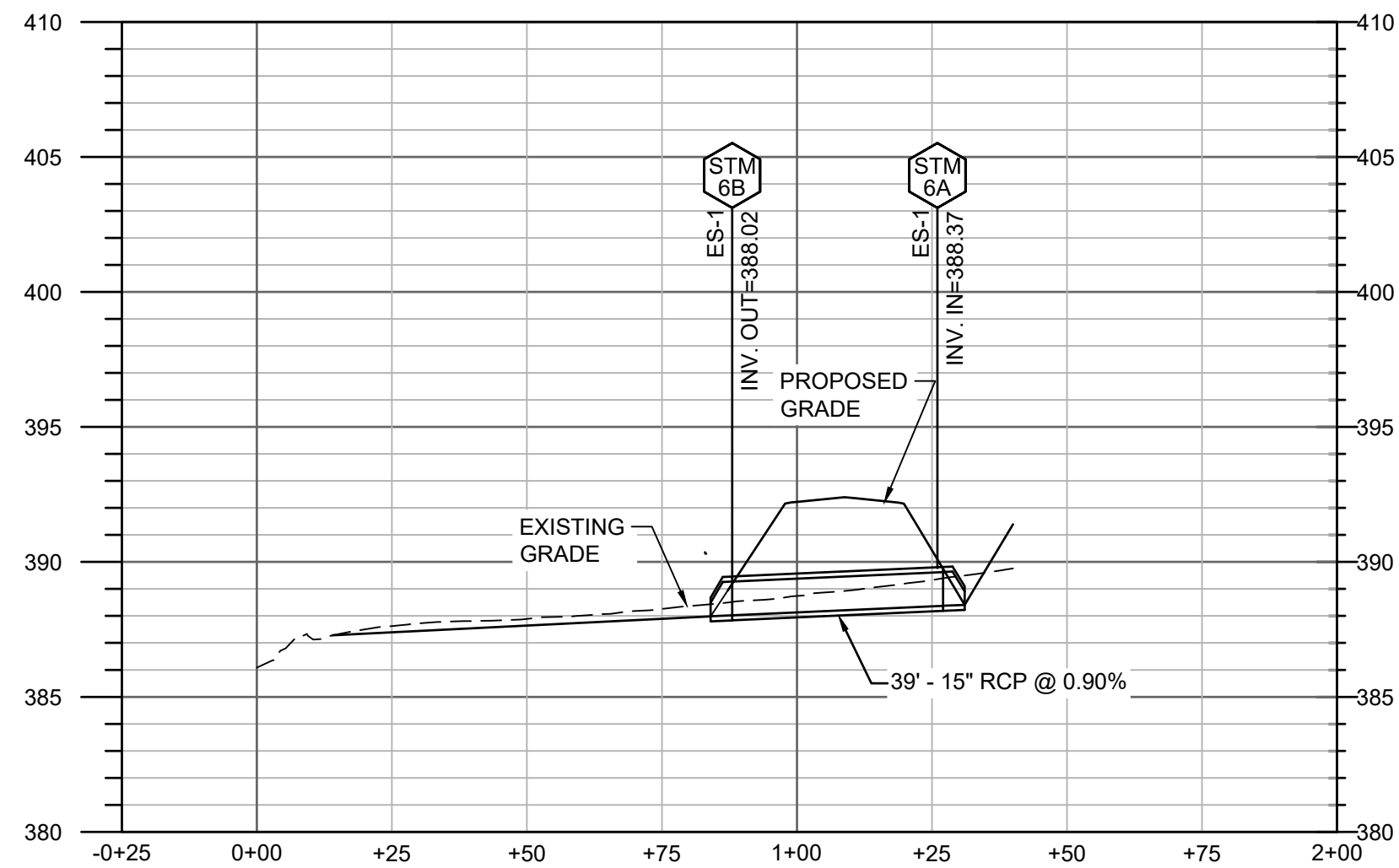
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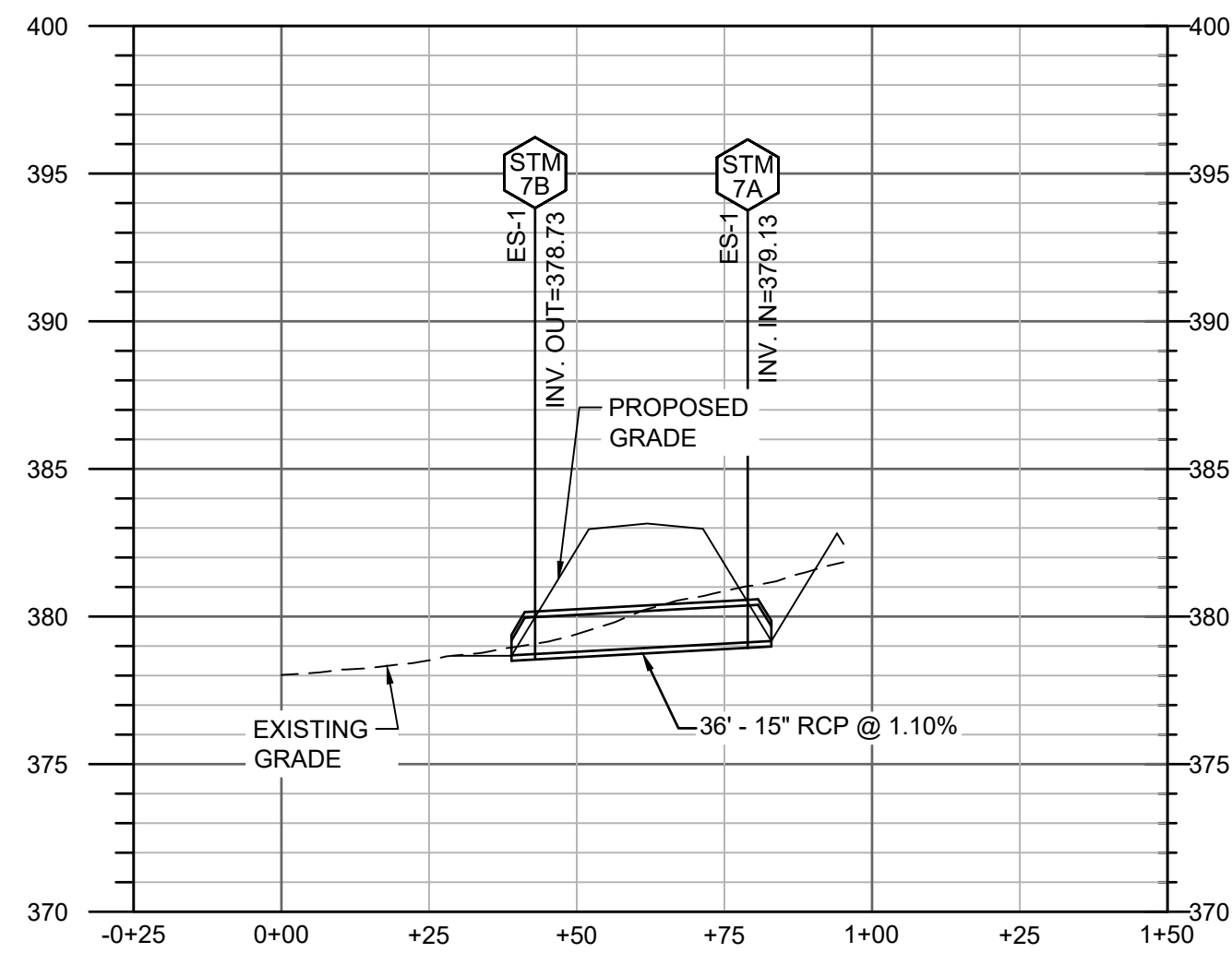
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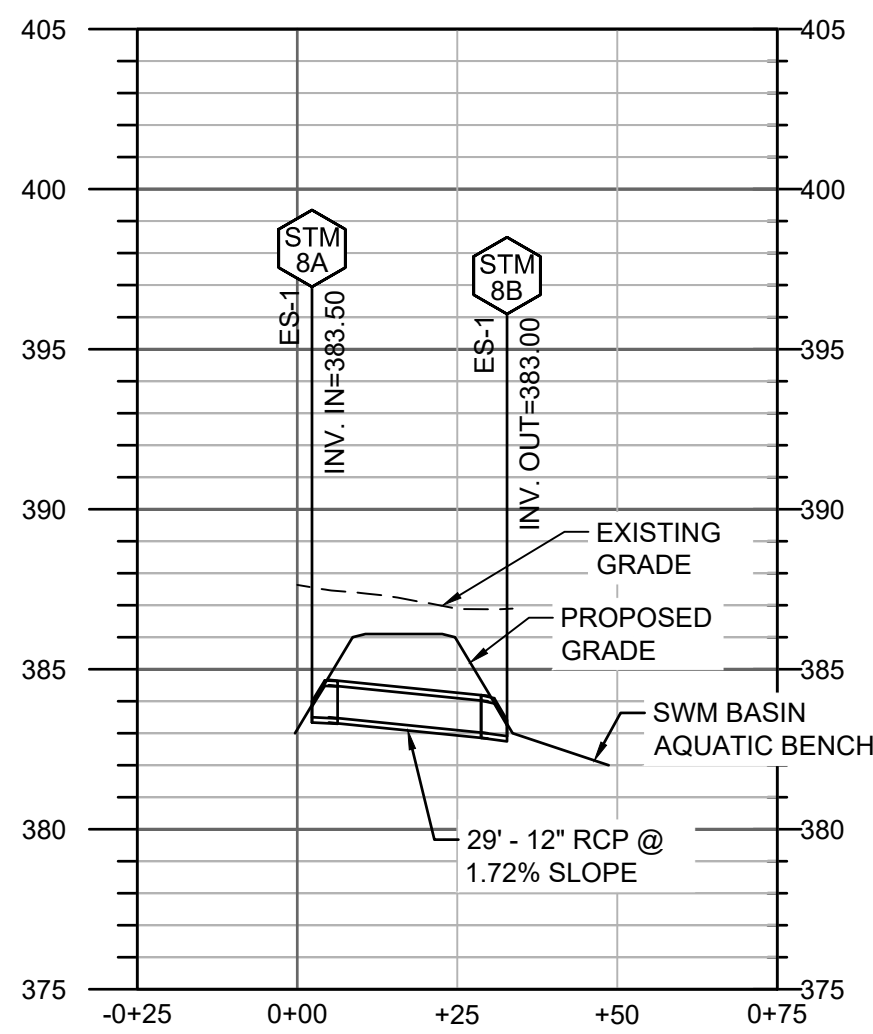
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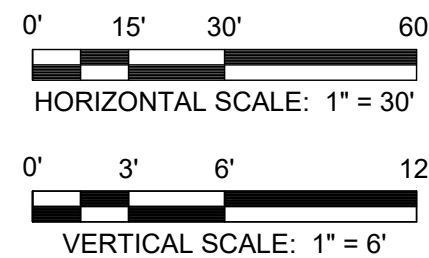
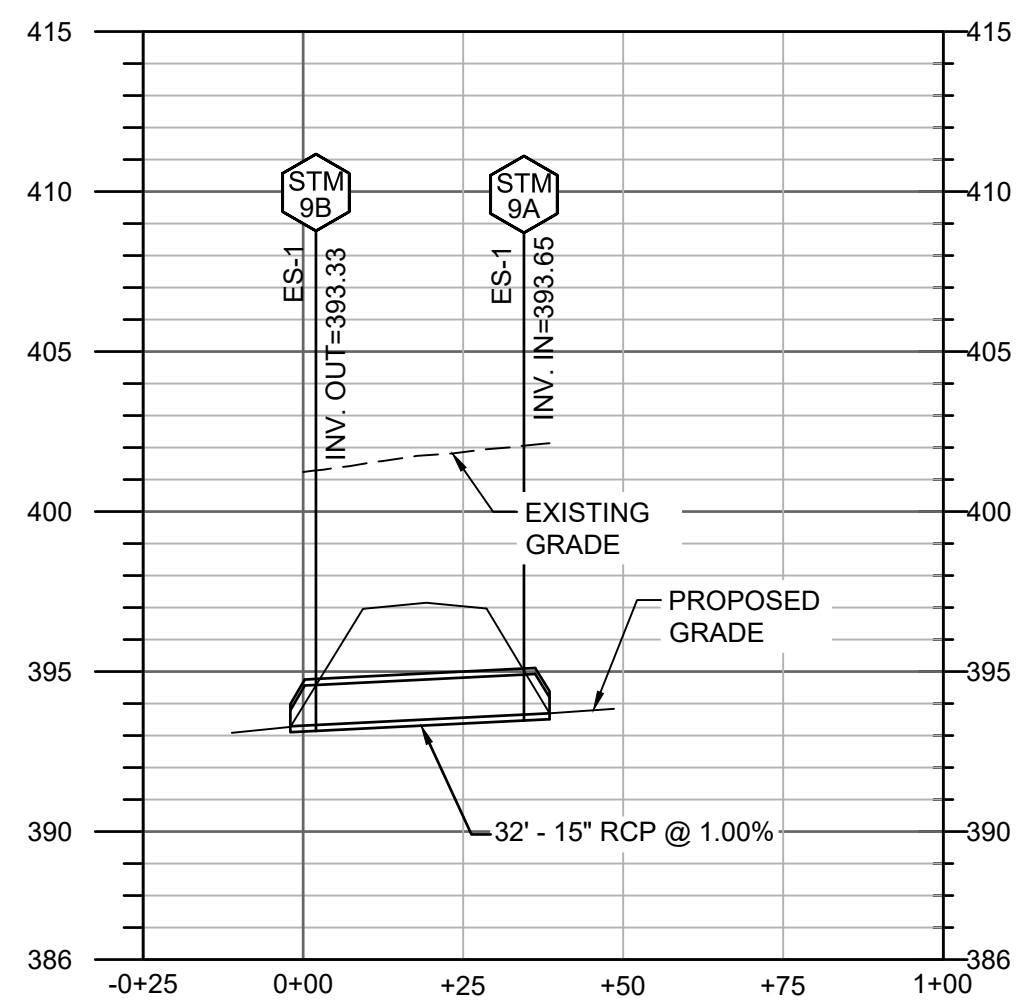
CULVERT 7






CULVERT 8



CULVERT 9



REVISIONS			<div>Dewberry® Dewberry Engineers Inc. 4805 Lake Brook Drive, Suite 200 Glen Allen, VA 23060; (p) 804.290.7957</div> <div> COMMONWEALTH OF VIRGINIA <i>Keith A. Scholten</i> KEITH A. SCHOLTEN Lic. No. 036569 1/29/24 PROFESSIONAL ENGINEER</div> <div>DEWBERRY PROJECT NO.: 50157950</div>
REV	DATE	DESCRIPTION	



**Dominion
Energy®**

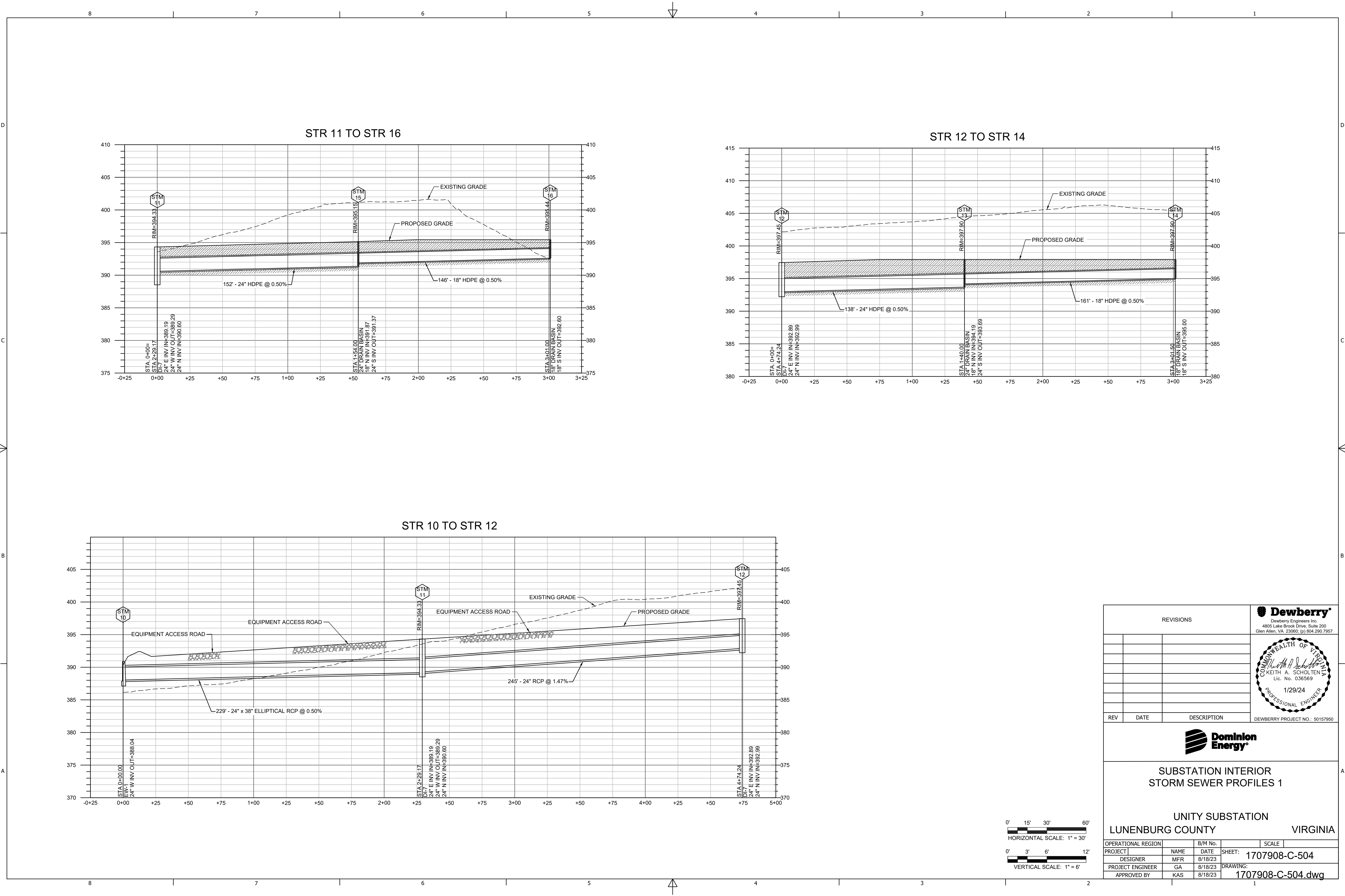
CULVERT PROFILES

UNITY SUBSTATION

LUNENBURG COUNTY

VIRGINIA

OPERATIONAL REGION			B/M No.		SCALE
PROJECT	NAME	DATE	SHEET:	1707908-C-503	
DESIGNER	MFR	8/18/23	DRAWING:	1707908-C-503.dwg	
PROJECT ENGINEER	GA	8/18/23			
APPROVED BY	KAS	8/18/23			



REVISIONS

REV	DATE	DESCRIPTION

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COMMONWEALTH OF VIRGINIA

DEWBERRY PROJECT NO.: 50157950

SUBSTATION INTERIOR

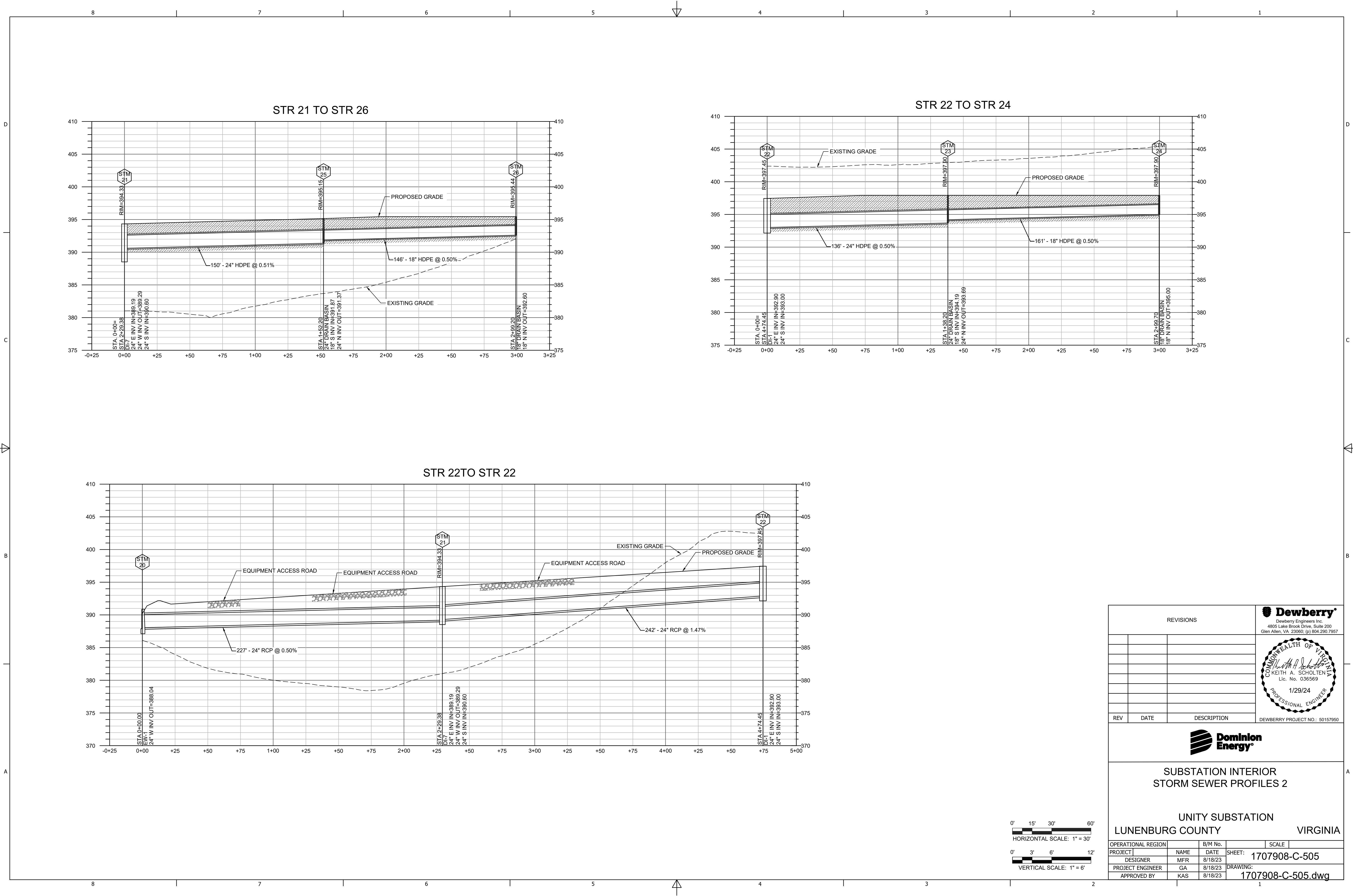
STORM SEWER PROFILES 1

UNITY SUBSTATION

LUNENBURG COUNTY

VIRGINIA

OPERATIONAL REGION	NAME	B/M No.	DATE	SHEET:	SCALE
PROJECT	DESIGNER	MFR	8/18/23	1707908-C-504	
PROJECT ENGINEER	GA	8/18/23	DRAWING:	1707908-C-504.dwg	
APPROVED BY	KAS	8/18/23			



ADEQUATE OUTFALL CALCULATIONS

Unity Sub Station
Lunden County
Dewberry
Site-Civil Engineering

Outfall: 1
Channel Type: Natural
Engineer: KZ
Checker: EU

STEP 1: Determine the Pre Developed, Forested, and Post Developed Conditions within the disturbed area and the offsite area draining to project BMPs.

Pre Developed Conditions	Forested Conditions	Post Developed Conditions	Offsite Conditions
Weighted CN = 61.0 Area (ac) = 2.72 P (in.) = 2.73	Weighted CN = 55.0 Area (ac) = 2.72 P (in.) = 2.73	Weighted CN = 81.5 Area (ac) = 16.02 P (in.) = 2.73	Weighted CN = 55.0 Area (ac) = 0.00 P (in.) = 2.73

STEP 2: Determine the peak discharge for each area. The total predevelopment discharge combines offsite and pre developed conditions.

Pre Developed Discharge	Forested Conditions Discharge	Post Development Discharge	Offsite Conditions Discharge
S 6.4 Ia 1.3 Q (in) 0.3 in Volume 0.061 ac-ft	S 8.2 Ia 1.6 Q (in) 0.1 in Volume 0.029 ac-ft	S 2.3 Ia 0.5 Q (in) 1.1 in Volume 1.519 ac-ft	S 8.2 Ia 1.6 Q (in) 0.1 in Volume 0.000 ac-ft

Total Forested Peak Discharge (From PondPack) 0.09 cfs

Total Predevelopment Discharge (From PondPack) 0.40 cfs

STEP 3: Calculate Adjusted CN value using Runoff Reduction provided in BMPs.

BMP	Runoff Reduction
Sheetflow to CO	34138.8 ft ³
ft ³	ft ³
ft ³	ft ³
ft ³	ft ³
ft ³	ft ³
Total =	34139 ft ³

Qpost without RR = 1.1
Qpost with RR = 0.6
Adjusted CN = 69.5

STEP 4: Calculate Q_{develop} using the energy balance equation. Only apply the improvement factor to the disturbed area.

Energy Balance Equation: Q_{develop} ≤ LF x (Q_{pre-developed} + RV_{pre-developed}) / RV_{developed}

Improvement Factor 0.8

Q_{develop} ≤ [Total Predevelopment Discharge (Offsite Volume + (Improvement Factor x Pre-Developed Volume)) / (Post-Development Volume + Offsite Volume)]

Q_{develop} 0.03 cfs

NOTE - ENERGY BALANCE SPREADSHEET FOR OUTFALL 1 ONLY USED TO DETERMINE ADJUSTED CN

STEP 5: Calculated Maximum Allowable Peak Discharge = Max(Q_{develop}, Q_{total})

Maximum Allowable Peak Discharge = Max(Q_{develop}, Q_{total})

Q_{total} = Total Forest Peak Discharge x (Forest Volume + Offsite Volume) / (Post-Development Volume + Offsite Volume)

Q_{total} 0.00 cfs

Maximum Allowable Peak Discharge 0.03 cfs

STEP 6: Ensure Q_{develop} is less than the Maximum Allowable Peak Discharge

Q_{develop} (from Pond Pack) 0.19 cfs

Channel is Inadequate

*See SWM Narrative on Sheet C-601 for level spreader sheetflow analysis

Unity Sub Station
Lunden County
Dewberry
Site-Civil Engineering

Outfall: 2
Channel Type: Natural
Engineer: KZ
Checker: EU

STEP 1: Determine the Pre Developed, Forested, and Post Developed Conditions within the disturbed area and the offsite area draining to project BMPs.

Pre Developed Conditions	Forested Conditions	Post Developed Conditions	Offsite Conditions
Weighted CN = 60.4 Area (ac) = 6.48 P (in.) = 2.73	Weighted CN = 55.0 Area (ac) = 6.48 P (in.) = 2.73	Weighted CN = 61.0 Area (ac) = 1.22 P (in.) = 2.73	Weighted CN = 61.0 Area (ac) = 0.00 P (in.) = 2.73

STEP 2: Determine the peak discharge for each area. The total predevelopment discharge combines offsite and pre developed conditions.

Pre Developed Discharge	Forested Conditions Discharge	Post Development Discharge	Offsite Conditions Discharge
S 6.5 Ia 1.3 Q (in) 0.3 in Volume 0.137 ac-ft	S 8.2 Ia 1.6 Q (in) 0.1 in Volume 0.070 ac-ft	S 6.4 Ia 1.3 Q (in) 0.3 in Volume 0.027 ac-ft	S 6.4 Ia 1.3 Q (in) 0.3 in Volume 0.000 ac-ft

Total Forested Peak Discharge (From PondPack) 0.20 cfs

Total Predevelopment Discharge (From PondPack) 0.79 cfs

STEP 3: Calculate Adjusted CN value using Runoff Reduction provided in BMPs.

BMP	Runoff Reduction
ft ³	ft ³
ft ³	ft ³
ft ³	ft ³
ft ³	ft ³
ft ³	ft ³
Total =	0 ft ³

Qpost without RR = 0.3
Qpost with RR = 0.3
Adjusted CN = 61.0

STEP 4: Calculate Q_{develop} using the energy balance equation. Only apply the improvement factor to the disturbed area.

Energy Balance Equation: Q_{develop} ≤ LF x (Q_{pre-developed} + RV_{pre-developed}) / RV_{developed}

Improvement Factor 0.8

Q_{develop} ≤ [Total Predevelopment Discharge (Offsite Volume + (Improvement Factor x Pre-Developed Volume)) / (Post-Development Volume + Offsite Volume)]

Q_{develop} 3.17 cfs

STEP 5: Calculated Maximum Allowable Peak Discharge.

Maximum Allowable Peak Discharge = Maximum (Q_{total}, Q_{develop})

Maximum Allowable Peak Discharge cannot be greater than Total Predevelopment Discharge

Q_{total} = Total Forest Peak Discharge x (Forest Volume + Offsite Volume) / (Post-Development Volume + Offsite Volume)

Q_{total} 0.51 cfs

Maximum Allowable Peak Discharge 0.79 cfs

STEP 6: Ensure Q_{develop} is less than the Maximum Allowable Peak Discharge

Q_{develop} (from Pond Pack) 0.22 cfs

Channel is Adequate

VRRM SPREADSHEET

DIQ Virginia Runoff Reduction Method New Development Compliance Spreadsheet - Version 3.0

2011 BMP Standards and Specifications

2013 Draft BMP Standards and Specifications

Project Name: Unity Sub Station
Date: 1/24/2024

CLEAR ALL

Data Input cells
constant values
calculation cells
final results

Site Information

Post-Development Project (Treatment Volume and Loads)

Land Cover (acres)

	A Soils	B Soils	C Soils	D Soils	Totals
Forest/Open Space (acres) - undisturbed, protected forest/open space or reforested land	0.00	1.17	0.00	0.00	1.17
Managed Turf (acres) - disturbed, graded for yards or other turf to be mowed/managed	0.00	10.27	0.00	0.00	10.27
Impervious Cover (acres)	0.00	15.51	0.00	0.00	15.51
					26.95

* Forest/Open Space area must be protected in accordance with the Virginia Runoff Reduction Method

Constants

Annual Rainfall (inches)	43
Target Rainfall Event (inches)	1.00
Target Rainfall Frequency (yr)	0.05
Total Phosphorus (TP) EMC (mg/L)	0.26
Total Nitrogen (TN) EMC (mg/L)	1.88
Target TP Load (lb/acre/yr)	0.41
D (unitless correction factor)	0.90

Runoff Coefficients (Rv)

	A Soils	B Soils	C Soils	D Soils
Forest/Open Space	0.00	0.00	0.00	0.00
Managed Turf	0.15	0.20	0.22	0.25
Impervious Cover	0.95	0.95	0.95	0.95

Post-Development Requirement for Site Area

TP Load Reduction Required (lb/yr) 27.32

LAND COVER SUMMARY -- POST DEVELOPMENT

Land Cover Summary	Treatment Volume and Nutrient Loads
Forest/Open Space Cover (acres)	1.17
Weighted Rv (Forest)	0.03
% Forest	4%
Managed Turf Cover (acres)	10.27
Weighted Rv (Turf)	0.20
% Managed Turf	38%
Impervious Cover (acres)	15.51
Rv (Impervious)	0.95
% Impervious	58%
Site Area (acres)	26.95
Site Rv	0.62

Treatment Volume (acre-ft) 1.4021

Treatment Volume (cubic feet) 61,076

TP Load (lb/yr) 38.37

TN Load (lb/yr) 274.52

Drainage Area A

Drainage Area A Land Cover (acres)	A Soils	B Soils	C Soils	D Soils	Totals	Land Cover Rv
Forest/Open Space (acres)	0.00	0.00	0.00	0.00	0.00	0.00
Managed Turf (acres)	0.00	3.29	0.00	0.00	3.29	0.20
Impervious Cover (acres)	0.00	12.89	0.00	0.00	12.89	0.95
Total		16.18				

CLEAR BMP AREAS

Total Phosphorus Available for Removal in D.A. A (lb/yr) 29.43

Post Development Treatment Volume in D.A. A (ft³) 46,847

Stormwater Best Management Practices (RR = Runoff Reduction)

Practice	Runoff Reduction Credit (%)	Managed Turf Credit Area (acres)	Impervious Cover Credit Area (acres)	Volume from Upstream Practice (ft ³)	Runoff Reduction (ft ³)	Remaining Runoff Volume (ft ³)	Total BMP Treatment Volume (ft ³)	Phosphorus Removal Efficiency (%)	Phosphorus Load from Upstream Practices (lb)	Untreated Phosphorus Load to Practice (lb)	Phosphorus Removed By Practice (lb)	Remaining Phosphorus Load (lb)	Downstream Practice to be Employed	Nitrogen Removal Efficiency (%)	Nitrogen Load from Upstream Practices (lbs)	Untreated Nitrogen Load to Practice (lbs)	Nitrogen Removed By Practice (lbs)	Remaining Nitrogen Load (lbs)
13. Wet Ponds (no RR)														13. Wet Ponds (no RR)				
13.a. Wet Pond #1 (Spec #14)	0			0	0	0	0	50	0.00	0.00	0.00	0.00		30	0.00	0.00	0.00	0.00
13.b. Wet Pond #1 (Coastal Plain) (Spec #14)	0			0	0	0	0	45	0.00	0.00	0.00	0.00		20	0.00	0.00	0.00	0.00
13.c. Wet Pond #2 (Spec #14)	0	3.13	12.89	0	0	46,735	46,735	75	0.00	29.33	22.00	7.33	9.a. Sheetflow to A/B Soil Conservation Area	40	0.00	209.82	83.93	125.89
13.d. Wet Pond #2 (Coastal Plain) (Spec #14)	0			0	0	0	0	65	0.00	0.00	0.00	0.00		30	0.00	0.00	0.00	0.00
9. Sheetflow to Filter/Open Space (RR)														9. Sheetflow to Filter/Open Space (RR)				
9.a. Sheetflow to Conservation Area, A/B Soils (Spec #2)	75	0.16		46,735	35,135	11,712	46,847	0	7.33	0.07	5.55	1.85		0	125.89	0.51	94.80	31.40
9.b. Sheetflow to Conservation Area, C/D Soils (Spec #2)	50			0	0	0	0	0	0.00	0.00	0.00	0.00		0	0.00	0.00	0.00	0.00
9.c. Sheetflow to Vegetated Filter Strip, A Soils or Compost Amended B/C/D Soils (Spec #2 & #6)	50			0	0	0	0	0	0.00	0.00	0.00	0.00		0	0.00	0.00	0.00	0.00

Site Results (Water Quality Compliance)						
Area Checks	D.A. A	D.A. B	D.A. C	D.A. D	D.A. E	AREA CHECK
FOREST/OPEN SPACE (ac)	0.00	0.00	0.00	0.00	0.00	OK
IMPERVIOUS COVER (ac)	12.89	0.00	0.00	0.00	0.00	OK
IMPERVIOUS COVER TREATED (ac)	12.89	0.00	0.00	0.00	0.00	OK
MANAGED TURF AREA (ac)	3.29	0.00	0.00	0.00	0.00	OK
MANAGED TURF AREA TREATED (ac)	3.29	0.00	0.00	0.00	0.00	OK
AREA CHECK	OK	OK	OK	OK	OK	
Site Treatment Volume (ft ³)	61,076					
Runoff Reduction Volume and TP By Drainage Area	D.A. A	D.A. B	D.A. C	D.A. D	D.A. E	TOTAL
RUNOFF REDUCTION VOLUME ACHIEVED (ft ³)	35,135	0	0	0	0	35,135
TP LOAD AVAILABLE FOR REMOVAL (lb/yr)	29.43	0.00	0.00	0.00	0.00	29.43
TP LOAD REDUCTION ACHIEVED (lb/yr)	27.55	0.00	0.00	0.00	0.00	27.55
TP LOAD REMAINING (lb/yr)	1.88	0.00	0.00	0.00	0.00	1.88
NITROGEN LOAD REDUCTION ACHIEVED (lb/yr)	178.73	0.00	0.00	0.00	0.00	178.73
Total Phosphorus						
FINAL POST-DEVELOPMENT TP LOAD (lb/yr)	38.37					
TP LOAD REDUCTION REQUIRED (lb/yr)	27.32					
TP LOAD REDUCTION ACHIEVED (lb/yr)	27.55					
TP LOAD REMAINING (lb/yr)	10.82					
REMAINING TP LOAD REDUCTION REQUIRED (lb/yr)	0.00	**				
** TARGET TP REDUCTION EXCEEDED BY 0.23 LB/YEAR **						
Total Nitrogen (For Information Purposes)						
POST-DEVELOPMENT NITROGEN LOAD (lb/yr)	274.52					
NITROGEN LOAD REDUCTION ACHIEVED (lb/yr)	178.73					
REMAINING POST-DEVELOPMENT NITROGEN LOAD (lb/yr)	95.79					

TOTAL IMPERVIOUS COVER TREATED (ac)	12.89	AREA CHECK: OK
TOTAL MANAGED TURF AREA TREATED (ac)	3.29	AREA CHECK: OK
TOTAL PHOSPHORUS REMOVAL REQUIRED ON SITE (lb/yr)	27.32	
TOTAL PHOSPHORUS AVAILABLE FOR REMOVAL IN D.A. A (lb/yr)	29.43	
TOTAL PHOSPHORUS REMOVED WITHOUT RUNOFF REDUCTION PRACTICES IN D.A. A (lb/yr)	22.00	
TOTAL PHOSPHORUS REMOVED WITH RUNOFF REDUCTION PRACTICES IN D.A. A (lb/yr)	5.55	
TOTAL PHOSPHORUS LOAD REDUCTION ACHIEVED IN D.A. A (lb/yr)	27.55	
TOTAL PHOSPHORUS REMAINING AFTER APPLYING BMP LOAD REDUCTIONS IN D.A. A (lb/yr)	1.88	
SEE WATER QUALITY COMPLIANCE TAB FOR SITE COMPLIANCE CALCULATIONS		
NITROGEN REMOVED WITH RUNOFF REDUCTION PRACTICES IN D.A. A (lb/yr)	94.80	
NITROGEN REMOVED WITHOUT RUNOFF REDUCTION PRACTICES IN D.A. A (lb/yr)	83.93	
TOTAL NITROGEN REMOVED IN D.A. A (lb/yr)	178.73	

REVISIONS

REV	DATE	DESCRIPTION

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COMMONWEALTH OF VIRGINIA
EDWARD R. UMBRELL
Lic. No. 038388
PROFESSIONAL ENGINEER
1/24/2024

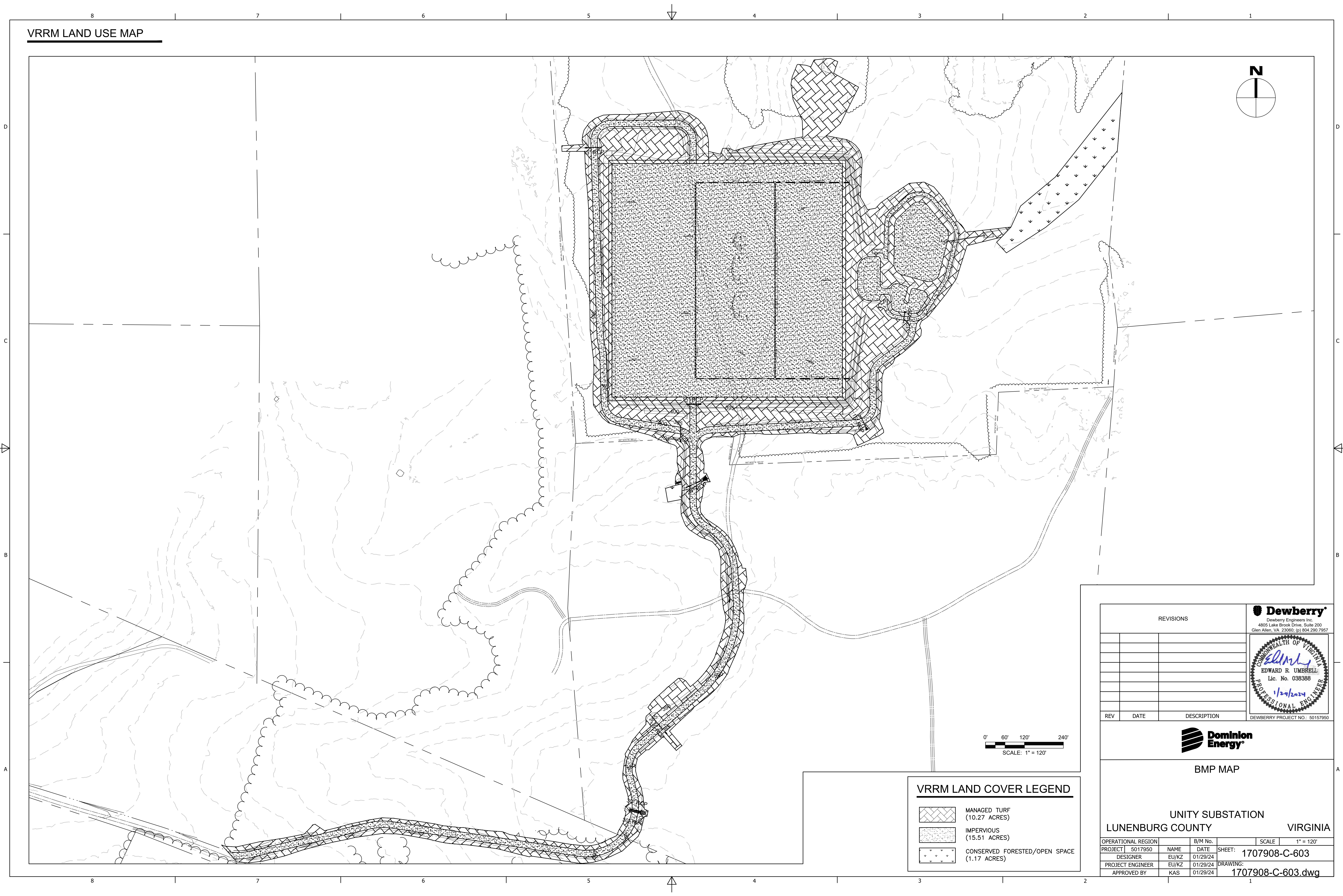
DEWBERRY PROJECT NO.: 50157950

BMP COMPS

UNITY SUBSTATION
LUNENBURG COUNTY
VIRGINIA

OPERATIONAL REGION	B/M No.	SCALE	AS SHOWN
PROJECT 5017950	NAME	DATE	SHEET: 1707908-C-602
DESIGNER EU/KZ	01/29/24		
PROJECT ENGINEER EU/KZ	01/29/24	DRAWING:	
APPROVED BY KAS	01/29/24	1707908-C-602.dwg	

VRRM LAND USE MAP



VRRM LAND COVER LEGEND

- MANAGED TURF (10.27 ACRES)
- IMPERVIOUS (15.51 ACRES)
- CONSERVED FORESTED/OPEN SPACE (1.17 ACRES)

REVISIONS

REV	DATE	DESCRIPTION

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Glen Allen, VA 23060; (p) 804.290.7957

COMMONWEALTH OF VIRGINIA
EDWARD R. UMBRELL
Lic. No. 038388
PROFESSIONAL ENGINEER
1/29/2024

DEWBERRY PROJECT NO.: 50157950

BMP MAP

UNITY SUBSTATION
LUNENBURG COUNTY
VIRGINIA

OPERATIONAL REGION	PROJECT	5017950	NAME	EU/KZ	DATE	01/29/24	SHEET:	1707908-C-603
	DESIGNER							
	PROJECT ENGINEER							
	APPROVED BY							


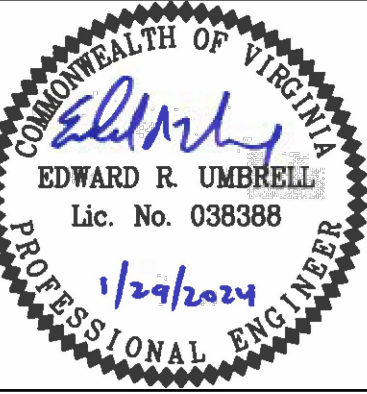
DRAWING: 1707908-C-603.dwg

PRE DEVELOPMENT LAND USE MAP



PRE DEVELOPMENT LAND COVER LEGEND

- FORESTED
(2.60 ACRES)
- PASTURE
(24.69 ACRES)

REVISIONS			<div> Dewberry Engineers Inc. 4805 Lake Brook Drive, Suite 200 Glen Allen, VA 23060; (p) 804.290.7957</div> <div> COMMONWEALTH OF VIRGINIA EDWARD R. UMBRELL Lic. No. 038388 1/29/24 PROFESSIONAL ENGINEER</div> <div>DEWBERRY PROJECT NO.: 50157950</div>
REV	DATE	DESCRIPTION	

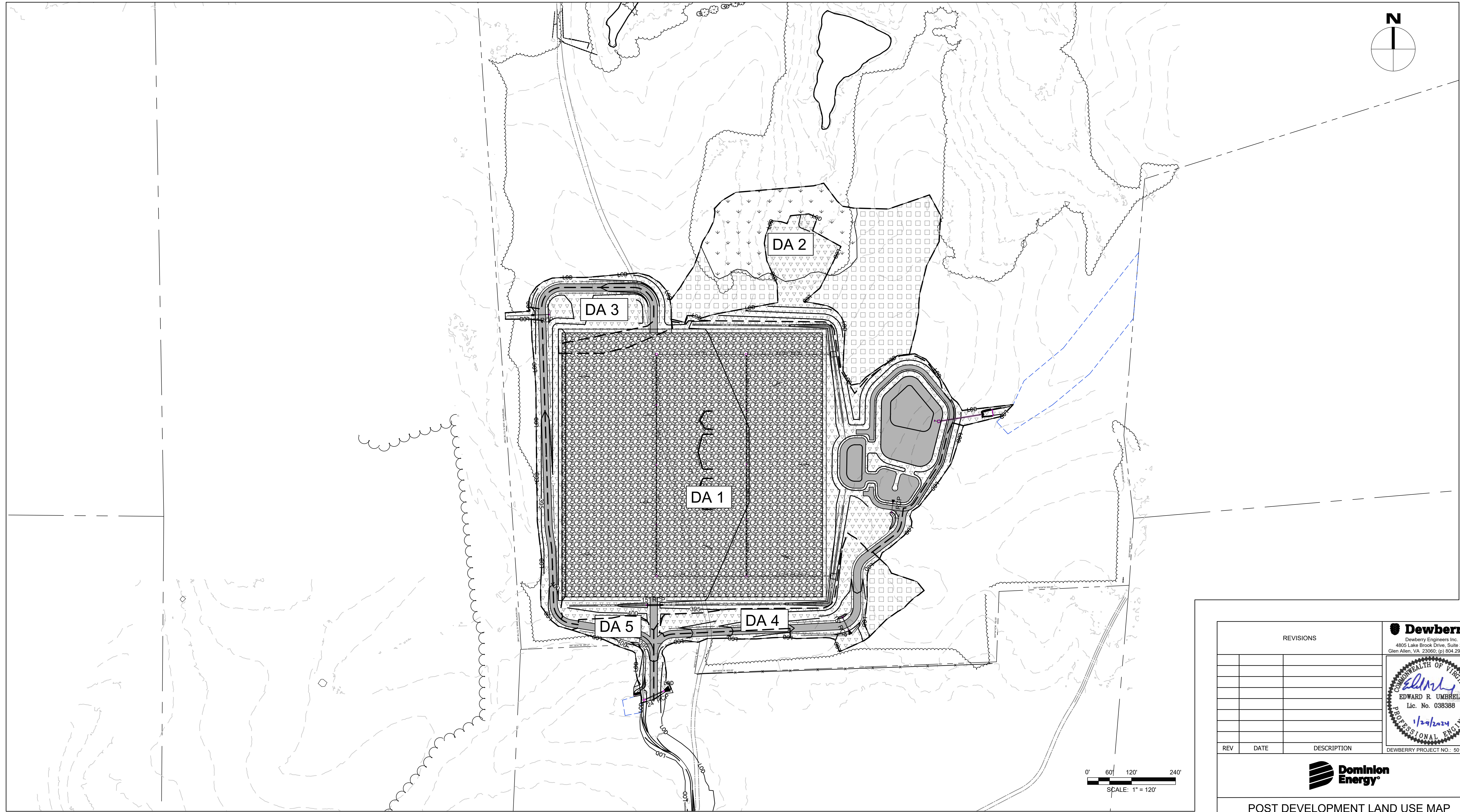


PRE DEVELOPMENT LAND USE MAP

UNITY SUBSTATION
LUNENBURG COUNTY VIRGINIA

OPERATIONAL REGION			B/M No.	SCALE	1" = 120'
PROJECT	5017950	NAME	DATE	SHEET: 1707908-C-604	
DESIGNER	EU/KZ	01/29/24			
PROJECT ENGINEER		EU/KZ	01/29/24	DRAWING: 1707908-C-604.dwg	
APPROVED BY		KAS	01/29/24		

POST DEVELOPMENT LAND USE MAP



POST DEVELOPMENT LAND COVER LEGEND

	IMPERVIOUS (2.63 ACRES)		PASTURE (3.37 ACRES)
	FORESTED (1.44 ACRES)		GRAVEL (11.74 ACRES)
	MANAGED TURF (8.11 ACRES)		

REVISIONS			
REV	DATE	DESCRIPTION	

Dewberry Engineers Inc.
4805 Lake Brook Drive, Suite 200
Glen Allen, VA 23060 (p) 804.290.7957

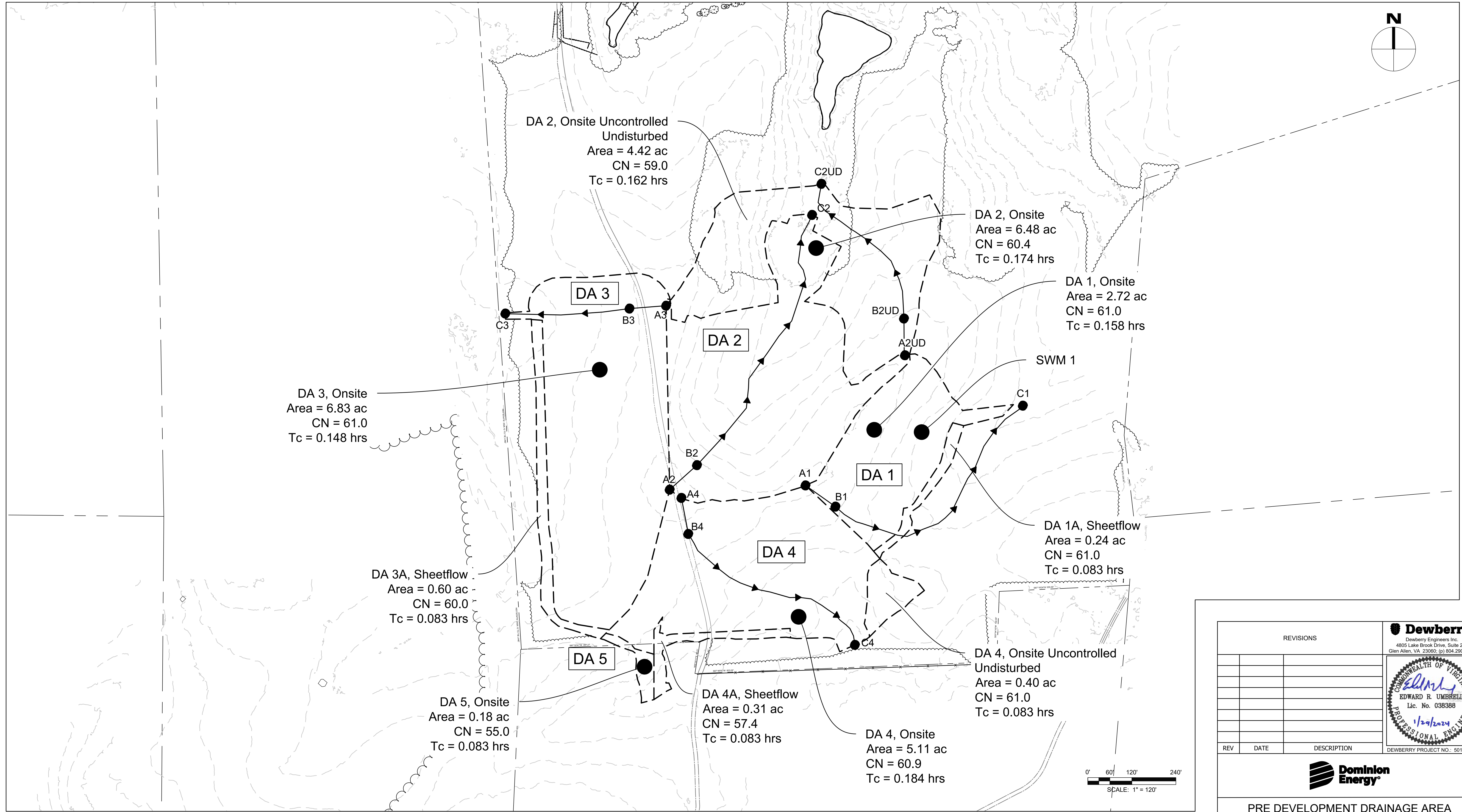
DEWBERRY PROJECT NO.: 50157950

POST DEVELOPMENT LAND USE MAP

UNITY SUBSTATION
LUNENBURG COUNTY VIRGINIA

OPERATIONAL REGION	PROJECT	NAME	B/M No.	DATE	SHEET:	SCALE	1" = 120'
5017950	EU/KZ	1707908-C-605	01/29/24	1707908-C-605			
DESIGNER	PROJECT ENGINEER	APPROVED BY	KAS	01/29/24	DRAWING:	1707908-C-605.dwg	

PRE DEVELOPMENT DRAINAGE DIVIDE MAP



REVISIONS			
REV	DATE	DESCRIPTION	

Dewberry Engineers Inc.
4805 Lake Brook Drive, Suite 200
Glen Allen, VA 23060; (804) 290-7957

EDWARD R. UMBRELL
Lic. No. 038388
1/29/2024
PROFESSIONAL ENGINEER

DEWBERRY PROJECT NO.: 50157950

Dominion Energy

PRE DEVELOPMENT DRAINAGE AREA

UNITY SUBSTATION
LUNENBURG COUNTY VIRGINIA

OPERATIONAL REGION	B/M No.	SCALE	1" = 120'
PROJECT 5017950	NAME	DATE	SHEET: 1707908-C-606
DESIGNER EU/KZ	EU/KZ	01/29/24	DRAWING: 1707908-C-606.dwg
PROJECT ENGINEER EU/KZ	EU/KZ	01/29/24	
APPROVED BY KAS	KAS	01/29/24	

DA 2, Onsite Uncontrolled Undisturbed
Area = 4.42 ac
CN = 59.0
Tc = 0.162 hrs

DA 3, Onsite Uncontrolled
Area = 0.66 ac
CN = 74.9
Tc = 0.148 hrs

DA 2, Onsite
Area = 1.22 ac
CN = 61.0
Tc = 0.083 hrs

DA 1, Onsite
Area = 16.02 ac
CN = 81.5 (69.5 adj.)
Tc = 0.122 hrs

DA 3, Onsite
Area = 1.59 ac
CN = 68.5
Tc = 0.169 hrs

DA 1, Onsite Uncontrolled
Area = 0.16 ac
CN = 61.0
Tc = 0.083 hrs

DA 1A, Sheetflow
Area = 0.24 ac
CN = 72.8
Tc = 0.083 hrs

DA 3A, Sheetflow
Area = 0.55 ac
CN = 74.5
Tc = 0.083 hrs

DA 4A, Sheetflow
Area = 0.31 ac
CN = 77.3
Tc = 0.083 hrs

DA 4, Onsite Uncontrolled Undisturbed
Area = 0.40 ac
CN = 61.0
Tc = 0.083 hrs

DA 4, Onsite
Area = 1.25 ac
CN = 68.5
Tc = 0.105 hrs

DA 5, Onsite
Area = 0.47 ac
CN = 72.1
Tc = 0.083 hrs

REVISIONS

REV	DATE	DESCRIPTION

Dewberry
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Glen Allen, VA 23060; (p) 804.290.795

COMMONWEALTH OF VIRGINIA
Edward R. Umbrell
EDWARD R. UMBRELL
Lic. No. 038388
PROFESSIONAL ENGINEER
1/29/2024

DEWBERRY PROJECT NO.: 501579

Dominion Energy

POST DEVELOPMENT DRAINAGE AREA MAP

REVISIONS				 Dewberry Engineers Inc. 4805 Lake Brook Drive, Suite 200 Glen Allen, VA 23060; (p) 804.290.7957	
REV	DATE	DESCRIPTION	DEWBERRY PROJECT NO.: 5017950		
<div style="display: flex; align-items: center; justify-content: center;"> <div> Dominion Energy® </div> </div>					
<h2 style="margin: 0;">POST DEVELOPMENT DRAINAGE AREA MAP</h2>					
<h3 style="margin: 0;">UNITY SUBSTATION</h3>					
<h3 style="margin: 0;">LUNENBURG COUNTY</h3>			<h3 style="margin: 0;">VIRGINIA</h3>		
OPERATIONAL REGION	NAME	DATE	SHEET:	1707908-C-607	
DESIGNER	EU/KZ	01/29/24	DRAWING: <h2 style="margin: 0;">1707908-C-607.dwg</h2>		
PROJECT ENGINEER	EU/KZ	01/29/24			
APPROVED BY	KAS	01/29/24			

DRAINAGE AREA 1

Worksheet 2: Runoff curve number and runoff

Project:Unity Substation

By:KAZ

Date:1/24/2024

Location:Drainage Area 1, Onsite

Checked:EU

Date:1/24/2024

Check one:☒ Present:☐ Developed:

1. Runoff curve number

Soil name and hydrologic group (Appendix A)	Cover description (cover type, treatment and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	CN ¹ Table 2-2	AREA (Acres)	Product of CN x Area
B	Pasture - Good Condition	61	2.72	166.1
¹ Use only one CN source per line				Totals → 2.72 166.1
CN (weighted) = total product / total area =				Use CN → 0.0043 sq. miles 61.0

2. Runoff

	Storm #1	Storm #2	Storm #3	Storm #4	Storm #5
Frequency Yr	1	2	10	100	500
Rainfall, P (24-hour) . In.	2.4	2.89	4.2	6.58	8.69
Runoff, Q In.	0.17	0.32	0.92	2.40	3.98

(Use P and CN with Table 2-1, Figure 2-1, or equations 2-3 and 2-4)

DRAINAGE AREA 1
FORESTED

Worksheet 2: Runoff curve number and runoff

Project:Unity Substation

By:KAZ

Date:1/24/2024

Location:Drainage Area 1, Onsite Forested

Checked:EU

Date:1/24/2024

Check one:☒ Present:☐ Developed:

1. Runoff curve number

Soil name and hydrologic group (Appendix A)	Cover description (cover type, treatment and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	CN ¹ Table 2-2	AREA (Acres)	Product of CN x Area
B	Woods - Good Condition	55	2.72	149.8
¹ Use only one CN source per line				Totals → 2.72 149.8
CN (weighted) = total product / total area =				Use CN → 0.0043 sq. miles 55.0

2. Runoff

	Storm #1	Storm #2	Storm #3	Storm #4	Storm #5
Frequency Yr	1	2	10	100	500
Rainfall, P (24-hour) . In.	2.4	2.89	4.2	6.58	8.69
Runoff, Q In.	0.17	0.32	0.92	2.40	3.98

(Use P and CN with Table 2-1, Figure 2-1, or equations 2-3 and 2-4)

DRAINAGE AREA 1
SHEETFLOW

Worksheet 2: Runoff curve number and runoff

Project:Unity Substation

By:KAZ

Date:1/24/2024

Location:Drainage Area 1, Onsite Sheetflow

Checked:EU

Date:1/24/2024

Check one:☒ Present:☐ Developed:

1. Runoff curve number

Soil name and hydrologic group (Appendix A)	Cover description (cover type, treatment and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	CN ¹ Table 2-2	AREA (Acres)	Product of CN x Area
B	Pasture - Good Condition	61	0.24	14.7
¹ Use only one CN source per line				Totals → 0.24 14.7
CN (weighted) = total product / total area =				Use CN → 0.0004 sq. miles 61.0

2. Runoff

	Storm #1	Storm #2	Storm #3	Storm #4	Storm #5
Frequency Yr	1	2	10	100	500
Rainfall, P (24-hour) . In.	2.4	2.89	4.2	6.58	8.69
Runoff, Q In.	0.17	0.32	0.92	2.40	3.98

(Use P and CN with Table 2-1, Figure 2-1, or equations 2-3 and 2-4)

DRAINAGE AREA 2

Worksheet 2: Runoff curve number and runoff

Project:Unity Substation

By:KAZ

Date:1/24/2024

Location:Drainage Area 2, Onsite

Checked:EU

Date:1/24/2024

Check one:☒ Present:☐ Developed:

1. Runoff curve number

Soil name and hydrologic group (Appendix A)	Cover description (cover type, treatment and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	CN ¹ Table 2-2	AREA (Acres)	Product of CN x Area
B	Forested - Good Condition	55	0.60	33.0
B	Pasture - Good Condition	61	5.88	358.7
¹ Use only one CN source per line				Totals → 6.48 391.8
CN (weighted) = total product / total area =				Use CN → 0.0101 sq. miles 60.4

2. Runoff

	Storm #1	Storm #2	Storm #3	Storm #4	Storm #5
Frequency Yr	1	2	10	100	500
Rainfall, P (24-hour) . In.	2.4	2.89	4.2	6.58	8.69
Runoff, Q In.	0.16	0.31	0.99	2.35	3.91

(Use P and CN with Table 2-1, Figure 2-1, or equations 2-3 and 2-4)

DRAINAGE AREA 2
UNCONTROLLED UNDISTURBED

Worksheet 2: Runoff curve number and runoff

Project:Unity Substation

By:KAZ

Date:1/24/2024

Location:Drainage Area 2, Onsite Uncont. Undist.

Checked:EU

Date:1/24/2024

Check one:☒ Present:☐ Developed:

1. Runoff curve number

Soil name and hydrologic group (Appendix A)	Cover description (cover type, treatment and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	CN ¹ Table 2-2	AREA (Acres)	Product of CN x Area
B	Pasture - Good Condition	61	2.98	181.8
B	Woods - Good Condition	55	1.44	79.2
¹ Use only one CN source per line				Totals → 4.42 261.0
CN (weighted) = total product / total area =				Use CN → 0.0069 sq. miles 59.0

2. Runoff

	Storm #1	Storm #2	Storm #3	Storm #4	Storm #5
Frequency Yr	1	2	10	100	500
Rainfall, P (24-hour) . In.	2.4	2.89	4.2	6.58	8.69
Runoff, Q In.	0.16	0.31	0.89	2.35	3.91

(Use P and CN with Table 2-1, Figure 2-1, or equations 2-3 and 2-4)

DRAINAGE AREA 3

Worksheet 2: Runoff curve number and runoff

Project:Unity Substation

By:KAZ

Date:1/24/2024

Location:Drainage Area 3, Onsite

Checked:EU

Date:1/24/2024

Check one:☒ Present:☐ Developed:

1. Runoff curve number

Soil name and hydrologic group (Appendix A)	Cover description (cover type, treatment and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	CN ¹ Table 2-2	AREA (Acres)	Product of CN x Area
B	Forested - Good Condition	55	0.01	0.6
B	Pasture - Good Condition	61	6.82	415.8
¹ Use only one CN source per line				Totals → 6.83 416.4
CN (weighted) = total product / total area =				Use CN → 0.0107 sq. miles 61.0

2. Runoff

	Storm #1	Storm #2	Storm #3	Storm #4	Storm #5
Frequency Yr	1	2	10	100	500
Rainfall, P (24-hour) . In.	2.4	2.89	4.2	6.58	8.69
Runoff, Q In.	0.17	0.32	0.92	2.40	3.98

(Use P and CN with Table 2-1, Figure 2-1, or equations 2-3 and 2-4)

DRAINAGE AREA 3
SHEETFLOW

Worksheet 2: Runoff curve number and runoff

Project:Unity Substation

By:KAZ

Date:1/24/2024

Location:Drainage Area 3, Onsite Sheetflow

Checked:EU

Date:1/24/2024

Check one:☒ Present:☐ Developed:

1. Runoff curve number

Soil name and hydrologic group (Appendix A)	Cover description (cover type, treatment and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	CN ¹ Table 2-2	AREA (Acres)	Product of CN x Area
B	Forested - Good Condition	55	0.10	5.6
B	Pasture - Good Condition	61	0.50	30.3
¹ Use only one CN source per line				Totals → 0.60 35.9
CN (weighted) = total product / total area =				Use CN → 0.0099 sq. miles 60.0

2. Runoff

	Storm #1	Storm #2	Storm #3	Storm #4	Storm #5
Frequency Yr	1	2	10	100	500
Rainfall, P (24-hour) . In.	2.4	2.89	4.2	6.58	8.69
Runoff, Q In.	0.17	0.32	0.92	2.40	3.98

(Use P and CN with Table 2-1, Figure 2-1, or equations 2-3 and 2-4)

DRAINAGE AREA 4

Worksheet 2: Runoff curve number and runoff

Project:Unity Substation

By:KAZ

Date:1/24/2024

Location:Drainage Area 4, Onsite

Checked:EU

Date:1/24/2024

Check one:☒ Present:☐ Developed:

1. Runoff curve number

Soil name and hydrologic group (Appendix A)	Cover description (cover type, treatment and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	CN ¹ Table 2-2	AREA (Acres)	Product of CN x Area
B	Forested - Good Condition	55	0.09	4.8
B	Pasture - Good Condition	61	5.03	306.6
¹ Use only one CN source per line				Totals → 5.11 311.4
CN (weighted) = total product / total area =				Use CN → 0.0090 sq. miles 60.9

2. Runoff

	Storm #1	Storm #2	Storm #3	Storm #4	Storm #5
Frequency Yr	1	2	10	100	500
Rainfall, P (24-hour) . In.	2.4	2.89	4.2	6.58	8.69
Runoff, Q In.	0.17	0.32	0.91	2.39	3.97

(Use P and CN with Table 2-1, Figure 2-1, or equations 2-3 and 2-4)

DRAINAGE AREA 4
UNCONTROLLED UNDISTURBED

Worksheet 2: Runoff curve number and runoff

Project:Unity Substation

By:KAZ

Date:1/24/2024

Location:Drainage Area 4, Onsite Uncont. Undist.

Checked:EU

Date:1/24/2024

Check one:☒ Present:☐ Developed:

1. Runoff curve number

Soil name and hydrologic group (Appendix A)	Cover description (cover type, treatment and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	CN ¹ Table 2-2	AREA (Acres)	Product of CN x Area
B	Pasture - Good Condition	61	0.40	24.4
¹ Use only one CN source per line				Totals → 0.40 24.4
CN (weighted) = total product / total area =				Use CN → 0.0006 sq. miles 61.0

2. Runoff

	Storm #1	Storm #2	Storm #3	Storm #4	Storm #5
Frequency Yr	1	2	10	100	500
Rainfall, P (24-hour) . In.	2.4	2.89	4.2	6.58	8.69
Runoff, Q In.	0.17	0.32	0.91	2.39	3.97

(Use P and CN with Table 2-1, Figure 2-1, or equations 2-3 and 2-4)

DRAINAGE AREA 4
SHEETFLOW

Worksheet 2: Runoff curve number and runoff

Project:Unity Substation

By:KAZ

Date:1/24/2024

Location:Drainage Area 4, Onsite Sheetflow

Checked:EU

Date:1/24/2024

Check one:☒ Present:☐ Developed:

1. Runoff curve number

Soil name and hydrologic group (Appendix A)	Cover description (cover type, treatment and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	CN ¹ Table 2-2	AREA (Acres)	Product of CN x Area
B	Forested - Good Condition	55	0.18	10.1
B	Pasture - Good Condition	61	0.12	7.6
¹ Use only one CN source per line				Totals → 0.31 17.6
CN (weighted) = total product / total area =				Use CN → 0.0005 sq. miles 57.4

2. Runoff

	Storm #1	Storm #2	Storm #3	Storm #4	Storm #5
Frequency Yr	1	2	10	100	500
Rainfall, P (24-hour) . In.	2.4	2.89	4.2	6.58	8.69
Runoff, Q In.	0.17	0.32	0.91	2.39	3.97

(Use P and CN with Table 2-1, Figure 2-1, or equations 2-3 and 2-4)

DRAINAGE AREA 5

Worksheet 2: Runoff curve number and runoff

Project:Unity Substation

By:KAZ

Date:1/24/2024

Location:Drainage Area 5, Onsite

Checked:EU

Date:1/24/2024

Check one:☒ Present:☐ Developed:

1. Runoff curve number

Soil name and hydrologic group (Appendix A)	Cover description (cover type, treatment and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	CN ¹ Table 2-2	AREA (Acres)	Product of CN x Area
B	Forested - Good Condition	55	0.18	9.8
B	Pasture - Good Condition	61	0.00	0.0
¹ Use only one CN source per line				Totals → 0.18 9.8
CN (weighted) = total product / total area =				Use CN → 0.0003 sq. miles 55.0

2. Runoff

	Storm #1	Storm #2	Storm #3	Storm #4	Storm #5
Frequency Yr	1	2	10	100	500
Rainfall, P (24-hour) . In.	2.4	2.89	4.2	6.58	8.69
Runoff, Q In.	0.07	0.17	0.61	1.86	3.27

(Use P and CN with Table 2-1, Figure 2-1, or equations 2-3 and 2-4)

REVISIONS

REV	DATE	DESCRIPTION

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COMMONWEALTH OF VIRGINIA

Edward R. Umbrell

EDWARD R. UMBRELL

Lic. No. 038388

1/24/2024

PROFESSIONAL ENGINEER

DEWBERRY PROJECT NO.: 50157950

Dominion Energy

PRE DEVELOPMENT CN COMPS

UNITY SUBSTATION

LUNENBURG COUNTY

VIRGINIA

OPERATIONAL REGION	B/M No.	SCALE	AS SHOWN
PROJECT 5017950	NAME	DATE	SHEET: 1707908-C-608
DESIGNER	EU/KZ	01/29/24	DRAWING: 1707908-C-608.dwg
PROJECT ENGINEER	EU/KZ	01/29/24	
APPROVED BY	KAS	01/29/24	

DRAINAGE AREA 1 –
ONSITE

Unity Sub Station - Drainage Area 1 Onsite - Existing Conditions		
Worksheet 3: Time of Concentration (Tc) or Travel Time (Tt)		
<u>Time of Concentration Computations for Predeveloped Conditions</u>		
Sheet flow	A1 - B1	
Surface description	Short Grass Prairie	
Manning's roughness coeff., n	0.15	
Flow length, L (ft)	100	
Two-yr 24-hr rainfall, P2 (in)	3.31	
Land slope, s (ft/ft)	0.07	
Tt = $[0.007(nL)^{0.8}]/[(P2^{0.5})(s^{0.4})]$ (hr)	0.097	
Shallow concentrated flow	B1 - C1	
Surface description	Unpaved	
Flow length, L (ft)	709	
Watercourse slope, s (ft/ft)	0.04	
Average velocity, V (fps)	3.2	
Tt = $L/(3600 \cdot V)$ (hr)	0.061	
Watershed time of concentration, Tc (hrs)	0.158	
Lag Tc, Tlag = $(0.6 \cdot Tc)$ (hrs)	0.095	

DRAINAGE AREA 3 –
ONSITE

Unity Sub Station - Drainage Area 3 Onsite - Existing Conditions		
Worksheet 3: Time of Concentration (Tc) or Travel Time (Tt)		
<u>Time of Concentration Computations for Predeveloped Conditions</u>		
Sheet flow		A - B
Surface description		Short Grass Prairie
Manning's roughness coeff., n		0.15
Flow length, L	(ft)	100
Two-yr 24-hr rainfall, P2	(in)	3.31
Land slope, s	(ft/ft)	0.05
Tt = $[0.007(nL)^{0.8}]/[(P2^{0.5})(s^{0.4})]$	(hr)	0.116
Shallow concentrated flow		B - C
Surface description		Unpaved
Flow length, L	(ft)	339
Watercourse slope, s	(ft/ft)	0.03
Average velocity, V	(fps)	3.0
Tt = $L/(3600 \cdot V)$	(hr)	0.032
Watershed time of concentration, Tc		0.148
Lag Tc, Tlag = $(0.6 \cdot Tc)$		0.089

DRAINAGE AREA 2 –
ONSITE


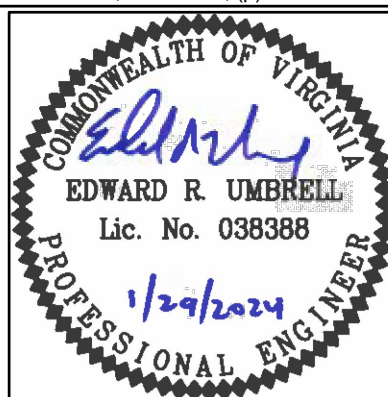

Unity Sub Station - Drainage Area 2 Onsite - Existing Conditions		
Worksheet 3: Time of Concentration (Tc) or Travel Time (Tt)		
Time of Concentration Computations for Predeveloped Conditions		
Sheet flow		A1 - B1
Surface description		Short Grass Prairie
Manning's roughness coeff., n		0.15
Flow length, L	(ft)	100
Two-yr 24-hr rainfall, P2	(in)	3.31
Land slope, s	(ft/ft)	0.06
$Tt = [0.007(nL)^{0.8}]/[(P2^{0.5})(s^{0.4})]$	(hr)	0.107
Shallow concentrated flow		B1 - C1
Surface description		Unpaved
Flow length, L	(ft)	789
Watercourse slope, s	(ft/ft)	0.04
Average velocity, V	(fps)	3.2
$Tt = L/(3600 \cdot V)$	(hr)	0.067
Watershed time of concentration, Tc	(hrs)	0.174
Lag Tc, Tlag = (0.6 * Tc)		0.104

DRAINAGE AREA 4 —
ONSITE

Unity Sub Station - Drainage Area 4 Onsite - Existing Conditions		
Worksheet 3: Time of Concentration (Tc) or Travel Time (Tt)		
Time of Concentration Computations for Predeveloped Conditions		
Sheet flow		A1 - B1
Surface description		Short Grass Prairie
Manning's roughness coeff., n		0.15
Flow length, L	(ft)	100
Two-yr 24-hr rainfall, P2	(in)	3.31
Land slope, s	(ft/ft)	0.03
Tt = $[0.007(nL)^{0.8}]/[(P2^{0.5})(s^{0.4})]$	(hr)	0.137
Shallow concentrated flow		B1 - C1
Surface description		Unpaved
Flow length, L	(ft)	579
Watercourse slope, s	(ft/ft)	0.04
Average velocity, V	(fps)	3.4
Tt = $L/(3600*V)$	(hr)	0.047
Watershed time of concentration, Tc		0.184
Lag Tc, Tlag = $(0.6*Tc)$		0.110

DRAINAGE AREA 2 –
UNCONTROLLED UNDISTURBED

Unity Sub Station - Drainage Area 2 Onsite - Uncontrolled Undisturbed		
Worksheet 3: Time of Concentration (Tc) or Travel Time (Tt)		
<u>Time of Concentration Computations for Predeveloped Conditions</u>		
Sheet flow		A1 - B1
Surface description		Short Grass Prairie
Manning's roughness coeff., n		0.15
Flow length, L	(ft)	100
Two-yr 24-hr rainfall, P2	(in)	3.31
Land slope, s	(ft/ft)	0.04
Tt = $[0.007(nL)^{0.8}]/[(P2^{0.5})(s^{0.4})]$	(hr)	0.128
Shallow concentrated flow		B1 - C1
Surface description		Unpaved
Flow length, L	(ft)	470
Watercourse slope, s	(ft/ft)	0.06
Average velocity, V	(fps)	3.9
Tt = $L/(3600 \cdot V)$	(hr)	0.034
Watershed time of concentration, Tc		0.162
Lag Tc, Tlag = $(0.6 \cdot Tc)$		0.097

REVISIONS			<div><div> Dewberry®</div><div>Dewberry Engineers Inc. 4805 Lake Brook Drive, Suite 200 Glen Allen, VA 23060; (p) 804.290.7957</div></div>		
				<div><div>COMMONWEALTH OF VIRGINIA</div><div></div></div>	
REV	DATE	DESCRIPTION	DEWBERRY PROJECT NO.: 50157950		
<div><div></div><div>Dominion Energy®</div></div>					
PRE DEVELOPMENT TC COMPS					
UNITY SUBSTATION					
LUNENBURG COUNTY				VIRGINIA	
OPERATIONAL REGION		B/M No.		SCALE	AS SHOWN
PROJECT	5017950	NAME	DATE	SHEET: 1707908-C-609	
DESIGNER		EU/KZ		01/29/24	
PROJECT ENGINEER		EU/KZ		01/29/24	
APPROVED BY		KAS		01/29/24	
				DRAWING: 1707908-C-609.dwg	

DRAINAGE AREA 1 —
CONTROLLED

Unity Sub Station - Drainage Area 1 Onsite Controlled			
Worksheet 3: Time of Concentration (Tc) or Travel Time (Tt)			
Time of Concentration Computations for Postdeveloped Conditions			
Sheet flow		A - B	
Surface description		Smooth Surfaces (Gravel)	
Manning's roughness coeff., n		0.03	
Flow length, L		100	
Two-yr 24-hr rainfall, P2		3.31	
Land slope, s		0.010	
Tt = [0.007(nL) ^{0.8}]/[(P2 ^{0.5})(s ^{0.4})]		0.051	
Shallow concentrated flow		B - C	
Surface description		Paved	
Flow length, L		263	
Watercourse slope, s		0.02	
Average velocity, V		2.7	
Tt = L/(3600*V)		0.027	
Pipe flow		C - D	
Pipe Diameter		(in)	
Channel Data		4	
bottom width		3	
side slope		z:1	
depth		1	
Cross sectional flow area, a		7.000	
Wetted perimeter, Pw		10.325	
Hydraulic radius, r = a/Pw		0.678	
Channel slope, s		0.0130	
Manning's roughness coeff., n		0.030	
V =(1.49*r ^{2/3} *s ^{1/2})/n; Compute V		4.375	
Flow length, L		690.8	
Tt = L/(3600*V); Compute Tt		0.044	
Watershed time of concentration, Tc		(hrs)	
		0.122	
Lag Tc, Tlag = (0.6*Tc)		(hrs)	
		0.073	

DRAINAGE AREA 2 —
UNCONTROLLED UNDISTURBED

Unity Sub Station - Drainage Area 2 Onsite Uncontrolled Undisturbed			
Worksheet 3: Time of Concentration (Tc) or Travel Time (Tt)			
Time of Concentration Computations for Postdeveloped Conditions			
Sheet flow		A1 - B1	
Surface description		Short Grass Prairie	
Manning's roughness coeff., n		0.15	
Flow length, L		100	
Two-yr 24-hr rainfall, P2		3.31	
Land slope, s		0.04	
Tt = [0.007(nL) ^{0.8}]/[(P2 ^{0.5})(s ^{0.4})]		0.128	
Shallow concentrated flow		B1 - C1	
Surface description		Unpaved	
Flow length, L		470	
Watercourse slope, s		0.06	
Average velocity, V		3.9	
Tt = L/(3600*V)		0.034	
Watershed time of concentration, Tc		(hrs)	
		0.162	
Lag Tc, Tlag = (0.6*Tc)		(hrs)	
		0.097	

DRAINAGE AREA 3 —
CONTROLLED


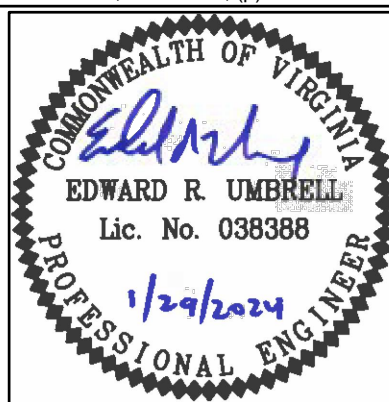

Unity Sub Station - Drainage Area 3 Onsite			
Worksheet 3: Time of Concentration (Tc) or Travel Time (Tt)			
Time of Concentration Computations for Postdeveloped Conditions			
Sheet flow		A - B	
Surface description		Grass	
Manning's roughness coeff., n		0.24	
Flow length, L		39	
Two-yr 24-hr rainfall, P2		3.31	
Land slope, s		0.051	
Tt = [0.007(nL) ^{0.8}]/[(P2 ^{0.5})(s ^{0.4})]		0.076	
Pipe flow/Channel flow		C - D	
Pipe Diameter		(in)	
Channel Data		0.1	
bottom width		3	
side slope		z:1	
depth		0.73	
Cross sectional flow area, a		1.658	
Wetted perimeter, Pw		4.697	
Hydraulic radius, r = a/Pw		0.353	
Channel slope, s		0.0117	
Manning's roughness coeff., n		0.035	
V =(1.49*r ^{2/3} *s ^{1/2})/n; Compute V		2.297	
Flow length, L		771.3	
Tt = L/(3600*V); Compute Tt		0.093	
Watershed time of concentration, Tc		(hrs)	
		0.169	
Lag Tc, Tlag = (0.6*Tc)		(hrs)	
		0.101	

DRAINAGE AREA 3 —
UNCONTROLLED DISTURBED

Unity Sub Station - Drainage Area 3 Onsite Uncontrolled			
Worksheet 3: Time of Concentration (Tc) or Travel Time (Tt)			
Time of Concentration Computations for Postdeveloped Conditions			
Sheet flow		A - B	
Surface description		Smooth Surfaces (Gravel)	
Manning's roughness coeff., n		0.03	
Flow length, L		100	
Two-yr 24-hr rainfall, P2		3.31	
Land slope, s		0.010	
Tt = [0.007(nL) ^{0.8}]/[(P2 ^{0.5})(s ^{0.4})]		0.057	
Shallow concentrated flow		B - C	
Surface description		Unpaved	
Flow length, L		198	
Watercourse slope, s		0.02	
Average velocity, V		2.0	
Tt = L/(3600*V)		0.028	
Pipe flow/Channel flow		C - D	
Pipe Diameter		(in)	
Channel Data		0.1	
bottom width		3	
side slope		z:1	
depth		0.65	
Cross sectional flow area, a		1.333	
Wetted perimeter, Pw		4.211	
Hydraulic radius, r = a/Pw		0.316	
Channel slope, s		0.0153	
Manning's roughness coeff., n		0.035	
V =(1.49*r ^{2/3} *s ^{1/2})/n; Compute V		2.446	
Flow length, L		555.17	
Tt = L/(3600*V); Compute Tt		0.063	
Watershed time of concentration, Tc		(hrs)	
		0.148	
Lag Tc, Tlag = (0.6*Tc)		(hrs)	
		0.089	

DRAINAGE AREA 4 —
CONTROLLED

Unity Sub Station - Drainage Area 4 Onsite			
Worksheet 3: Time of Concentration (Tc) or Travel Time (Tt)			
Time of Concentration Computations for Postdeveloped Conditions			
Sheet flow		A - B	
Surface description		Short Grass Prairie	
Manning's roughness coeff., n		0.15	
Flow length, L		76.91	
Two-yr 24-hr rainfall, P2		3.31	
Land slope, s		0.052	
Tt = [0.007(nL) ^{0.8}]/[(P2 ^{0.5})(s ^{0.4})]		0.089	
Pipe flow/Channel flow		B-C	
Pipe Diameter		(in)	
Channel Data		0.1	
bottom width		3	
side slope		z:1	
depth		0.51	
Cross sectional flow area, a		0.851	
Wetted perimeter, Pw		3.326	
Hydraulic radius, r = a/Pw		0.250	
Channel slope, s		0.0405	
Manning's roughness coeff., n		0.030	
V =(1.49*r ^{2/3} *s ^{1/2})/n; Compute V		3.965	
Flow length, L		222.42	
Tt = L/(3600*V); Compute Tt		0.016	
Watershed time of concentration, Tc		(hrs)	
		0.105	
Lag Tc, Tlag = (0.6*Tc)		(hrs)	
		0.063	

REVISIONS			 Dewberry Dewberry Engineers Inc. 4805 Lake Brook Drive, Suite 200 Glen Allen, VA 23060; (p) 804.290.7957		
					
REV	DATE	DESCRIPTION	DEWBERRY PROJECT NO.: 50157950		
					
POST DEVELOPMENT TC COMPS					
UNITY SUBSTATION					
LUNENBURG COUNTY			VIRGINIA		
OPERATIONAL REGION			B/M No.	SCALE	AS SHOWN
PROJECT	5017950	NAME	DATE	SHEET:	1707908-C-611
DESIGNER		EU/KZ	01/29/24		
PROJECT ENGINEER		EU/KZ	01/29/24	DRAWING:	1707908-C-611.dwg
APPROVED BY		KAS	01/29/24		

DA 1 ROUTING RESULTS SUMMARY

DA 1				
Return Event	Q _{pre-outfall}	Q _{post-pond}	Q _{post-uncont}	Q _{post-outfall}
	CFS	CFS	CFS	CFS
1-year	0.40	0.19	0.03	0.19
10-year	4.07	1.14	0.28	1.15

NOTE: POST-DEVELOPMENT PEAK OUTFLOWS ARE NON-COINCIDENT.

Catchments Summary					
Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft ³ /s)
Drainage Area 1	Pre-Development 1 year	1	0.061	12.200	0.40
Drainage Area 1	Post-Development 1 year	1	0.737	12.150	9.53
Drainage Area 1	Forested	1	0.030	12.550	0.09
Drainage Area 1	Pre-Development 2 year	2	0.111	12.150	1.06
Drainage Area 1	Post-Development 2 year	2	1.162	12.150	16.09
Drainage Area 1	Post-Development 10 year	10	0.319	12.150	4.07
Drainage Area 1	Post-Development 10 year	10	2.727	12.150	39.25
Drainage Area 1	Pre-Development 100 year	100	0.807	12.150	11.08
Drainage Area 1	Post-Development 100 year	100	6.058	12.150	87.54
DA 1: Uncont. Dist.	Post-Development 1 year	1	0.004	12.150	0.03
DA 1: Uncont. Dist.	Post-Development 2 year	2	0.007	12.100	0.07
DA 1: Uncont. Dist.	Post-Development 10 year	10	0.019	12.100	0.28
DA 1: Uncont. Dist.	Post-Development 100 year	100	0.047	12.100	0.77

Node Summary					
Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft ³ /s)
O-1	Pre-Development 1 year	1	0.061	12.200	0.40
O-1	Post-Development 1 year	1	0.171	24.000	0.19
O-1	Forested	1	0.030	12.550	0.09
O-1	Post-Development 2 year	2	0.111	12.150	1.06
O-1	Post-Development 2 year	2	0.236	24.000	0.26
O-1	Pre-Development 10 year	10	0.319	12.150	4.07
O-1	Post-Development 10 year	10	0.921	17.400	1.15
O-1	Pre-Development 100 year	100	0.807	12.150	11.08

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft ³ /s)
O-1	Post-Development 100 year	100	3.852	12.650	14.43

Pond Summary						
Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft ³ /s)	Maximum Water Surface Elevation (ft)
Wet Pond (IN)	Post-Development 1 year	1	0.737	12.150	9.53	(N/A)
Wet Pond (OUT)	Post-Development 1 year	1	0.168	24.000	0.19	379.81
Wet Pond (IN)	Post-Development 2 year	2	1.162	12.150	16.09	(N/A)
Wet Pond (OUT)	Post-Development 2 year	2	0.229	24.000	0.25	380.30
Wet Pond (IN)	Post-Development 10 year	10	2.727	12.150	39.25	(N/A)
Wet Pond (OUT)	Post-Development 10 year	10	0.902	17.250	1.14	381.58
Wet Pond (IN)	Post-Development 100 year	100	6.058	12.150	87.54	(N/A)
Wet Pond (OUT)	Post-Development 100 year	100	3.804	12.650	14.32	383.04

DA 1A SHEETFLOW ROUTING RESULTS SUMMARY

Unity Substation

Dewberry

Water Resources Engineering

OUTFALL 1A - Sheet Flow Computations

Computed By: KZ

Checked By: EU

Date: 25-Jan-24

Date: 25-Jan-24

	Drainage Area (ac)	CN Value	2-Year Flow (cfs)	10-Year Flow (cfs)
Existing Sheet Flow	0.24	61.0	0.11	0.43
Proposed Sheet Flow	0.24	72.8	0.33	0.74

	Existing Sheet Flow	>	Proposed Sheet Flow
2-Year Flow	0.11	<	0.33
10-Year Flow	0.43	<	0.74

*Assuming Tc=5 mins

ELEVATION-VOLUME TABLE

MAIN CELL

STAGE VS. STORAGE USING CONIC METHOD

PROJECT: Unity Substation Wet Pond				
ENGINEER / DATE: KZ 7/18/2023				
Main Cell				
ELEVATION	AREA	AREA	INCREMENTAL VOLUME	TOTAL VOLUME
(FEET)	(SQ FEET)	(ACRES)	(ACRE-FEET)	(ACRE-FEET)
375	10189.5	0.2339	0	0.000
376	19805.1	0.4547	0.3382	0.338
377	21486.1	0.4933	0.4738	0.812
378	23225.5	0.5332	0.5131	1.325
378.5	24118.6	0.5537	0.2717	1.597
379	28865.7	0.6627	0.0000	1.597
379	29830.8	0.6848	0.3369	1.934
380	31803.4	0.7301	0.7073	2.641
381	33832.6	0.7767	0.7533	3.394
382	35918.3	0.8246	0.8005	4.195
383	38060.5	0.8737	0.8490	5.044
384	40788.8	0.9364	0.9049	5.949
385	42983.4	0.9868	0.9615	6.910
386	45569.6	1.0461	1.0163	7.927

84232.189 Normal Pool = 379 ft

FOREBAY

STAGE VS. STORAGE USING CONIC METHOD

PROJECT: Unity Substation Wet Pond				
ENGINEER / DATE: KZ 7/18/2023				
Forebay				
ELEVATION	AREA	AREA	INCREMENTAL VOLUME	TOTAL VOLUME
(FEET)	(SQ FEET)	(ACRES)	(ACRE-FEET)	(ACRE-FEET)
379	3153.0	0.0724	0	0.000
380	3910.8	0.0898	0.0809	0.081
381	4732.9	0.1087	0.0991	0.180
382	5619.3	0.1290	0.1187	0.299
382.5	6086.6	0.1397	0.0672	0.366
382.5	8257.4	0.1896	0.0000	0.366
383	9161.3	0.2103	0.0999	0.466
384	10649.4	0.2445	0.2272	0.693
385	11781.5	0.2705	0.2574	0.950
386	13546.5	0.3110	0.2905	1.241

20286.497 Normal Pool = 383 ft

Top of Dam = 386 ft

WETLAND CELL

STAGE VS. STORAGE USING CONIC METHOD

PROJECT: Unity Substation Wet Pond				
ENGINEER / DATE: KZ 7/18/2023				
Wetland Cell				
ELEVATION	AREA	AREA	INCREMENTAL VOLUME	TOTAL VOLUME
(FEET)	(SQ FEET)	(ACRES)	(ACRE-FEET)	(ACRE-FEET)
381.5	1831.1	0.0420	0	0.000
382	2755.4	0.0633	0.0261	0.026
382.5	5332.2	0.1224	0.0456	0.072
382.5	6771.9	0.1555	0.0000	0.072
383	7754.7	0.1780	0.0833	0.155
384	9271.2	0.2128	0.1952	0.350
385	10645.9	0.2444	0.2284	0.579
386	12048.2	0.2766	0.2603	0.839

6754.4566 Normal Pool = 383 ft

Top of Dam = 386 ft

TOTAL VOLUME

STAGE VS. STORAGE USING CONIC METHOD

PROJECT: Unity Substation Wet Pond				
ENGINEER / DATE: KZ 7/18/2023				
Total Volume				
ELEVATION	AREA	AREA	INCREMENTAL VOLUME	TOTAL VOLUME
(FEET)	(SQ FEET)	(ACRES)	(ACRE-FEET)	(ACRE-FEET)
375	10189.50	0.234	0.000	0.000
376	19805.05	0.455	0.338	0.338
377	21486.10	0.493	0.474	0.812
378	23225.45	0.533	0.513	1.325
378.5	24118.59	0.554	0.272	1.597
378.5	28865.65	0.663	0.000	1.597
379	32983.71	0.757	0.337	1.934
380	35714.16	0.820	0.788	2.722
381	38565.42	0.885	0.852	3.574
382	41537.53	0.964	0.919	4.494
382.5	47337.06	1.087	0.913	4.632
382.5	50947.55	1.170	0.801	4.632
383	54976.55	1.262	1.032	5.665
384	60709.37	1.394	1.327	6.992
385	65410.73	1.502	1.447	8.439
386	71164.34	1.634	1.567	10.006

43587.5 Top of Dam = 386 ft

OUTLET STRUCTURE INPUT DATA

Requested Pond Water Surface Elevations					
Minimum (Headwater)			379.00 ft		
Increment (Headwater)			0.50 ft		
Maximum (Headwater)			386.00 ft		
Outlet Connectivity					
Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Orifice-Area	Orifice - Square	Forward	Culvert - 24"	381.25	386.00
Inlet Box	Riser Top	Forward	Culvert - 24"	382.75	386.00
Orifice-Circular	Orifice - Circular	Forward	Culvert - 24"	379.00	386.00
Culvert-Circular	Culvert - 24"	Forward	TW	375.66	386.00
Tailwater Settings	Tailwater			(N/A)	(N/A)
Structure ID: Orifice - Circular					
Structure Type: Orifice-Circular					
Number of Openings				1	
Elevation				379.00 ft	
Orifice Diameter				3.0 in	
Orifice Coefficient				0.600	
Structure ID: Culvert - 24"					
Structure Type: Culvert-Circular					
Number of Barrels				1	
Diameter				24.0 in	
Length				115.00 ft	
Length (Computed Barrel)				115.00 ft	
Slope (Computed)				0.007 ft/ft	
Outlet Control Data					
Manning's n				0.013	
Ke				0.500	
Kb				0.012	
Kr				0.000	
Convergence Tolerance				0.00 ft	
Inlet Control Data					
Equation Form				Form 1	
K				0.0098	
M				2.0000	
C				0.0398	
Y				0.6700	
T1 ratio (HW/D)				1.156	
T2 ratio (HW/D)				1.303	
Slope Correction Factor				-0.500	
Structure ID: Riser Top					
Structure Type: Inlet Box					
Number of Openings				1	
Elevation				382.75 ft	
Orifice Area				36.0 ft²	
Orifice Coefficient				0.600	
Weir Length				24.00 ft	
Weir Coefficient				3.00 (ft ^{0.5} /s)	
K Reverse				1.000	
Manning's n				0.000	
Kev, Charged Riser				0.000	
Weir Submergence				True	
Orifice H to crest				False	
Structure ID: Orifice - Square					
Structure Type: Orifice-Area					
Number of Openings				1	
Elevation				381.25 ft	
Orifice Area				0.5 ft²	
Top Elevation				381.75 ft	
Datum Elevation				381.50 ft	
Orifice Coefficient				0.600	
Structure ID: TW					
Structure Type: TW Setup, DS Channel					
Tailwater Type				Free Outfall	
Convergence Tolerances					
Maximum Iterations				30	
Tailwater Tolerance (Minimum)				0.01 ft	
Tailwater Tolerance (Maximum)				0.50 ft	
Headwater Tolerance (Minimum)				0.01 ft	
Headwater Tolerance (Maximum)				0.50 ft	
Flow Tolerance (Minimum)				0.001 ft³/s	
Flow Tolerance (Maximum)				10.000 ft³/s	
Use unsubmerged inlet control 0 equation below T1 elevation.					
Use submerged inlet control 0 equation above T2 elevation					
In transition zone between unsubmerged and submerged inlet control, interpolate between flows at T1 & T2...					
T1 Elevation	377.97 ft	T1 Flow	15.55 ft³/s		
T2 Elevation	378.27 ft	T2 Flow	17.77 ft³/s		

DRAINAGE AREA 2

DA 2				
Return Event	Q _{pre"-outfall}	Q _{allowable}	Q _{undist.}	Q _{post-outfall}
	CFS	CFS	CFS	CFS
1-year	0.79	0.79	—	0.22
10-year	14.64	14.64	5.76	7.65

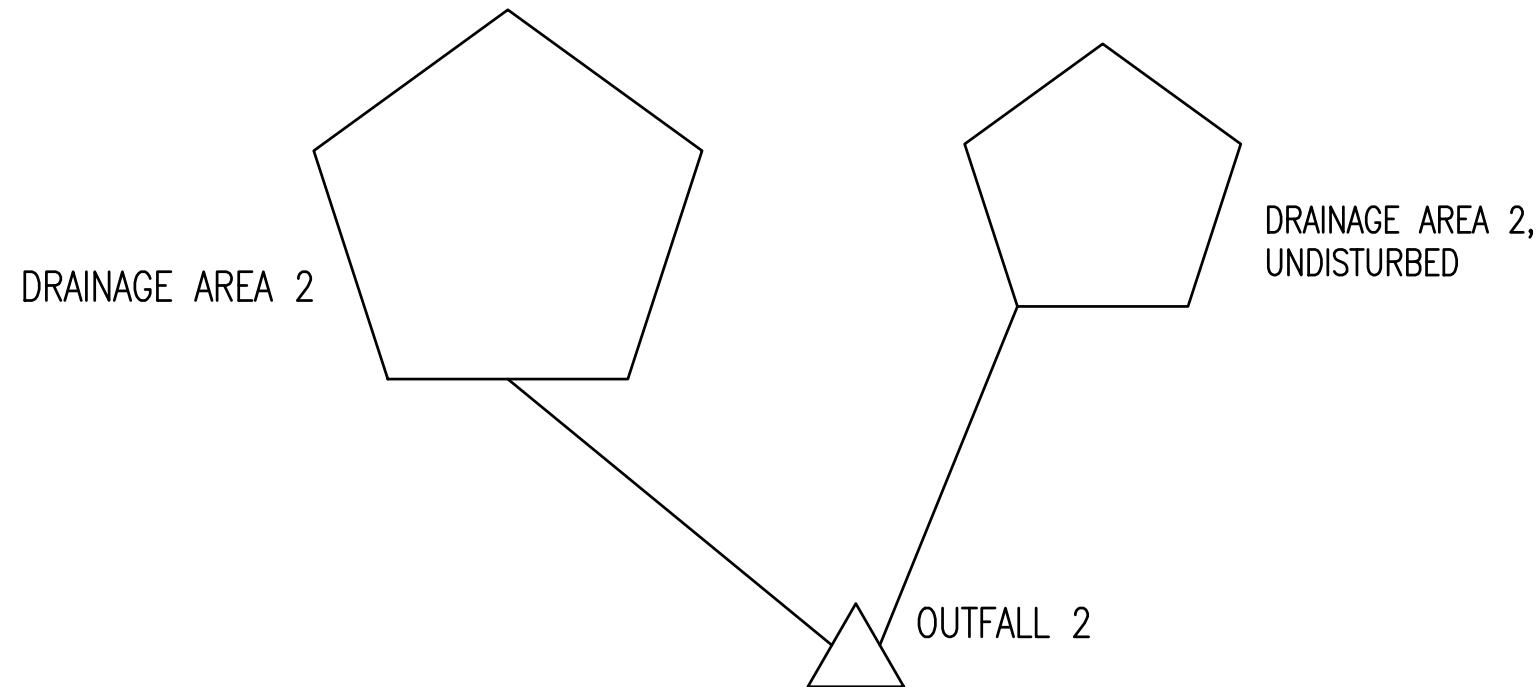
Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft ³ /s)
DA2	Post-Development 1 year	1	0.027	12.150	0.22
DA2	Pre-Development 1 year	1	0.137	12.250	0.79
DA2	Pre-Development 10 year	10	0.738	12.150	8.89
DA2	Post-Development 10 year	10	0.143	12.100	2.16
DA2 Uncont. Undist.	Pre-Development 10 year	10	0.468	12.150	5.76
DA2 Uncont. Undist.	Post-Development 10 year	10	0.468	12.150	5.76

Node Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft ³ /s)
O-2	Post-Development 1 year	1	0.027	12.150	0.22
O-2	Pre-Development 1 year	1	0.137	12.250	0.79
O-2	Pre-Development 10 year	10	1.206	12.150	14.64
O-2	Post-Development 10 year	10	0.611	12.150	7.65

MODEL SCHEMATIC



DRAINAGE AREA 3

DA 3					
Return Event	Q _{pre"-outfall}	Q _{allowable}	Q _{post-culvert}	Q _{post-uncont}	Q _{post-outfall}
	CFS	CFS	CFS	CFS	CFS
1-year	1.01	1.01	0.73	0.58	1.01
10-year	10.53	10.53	2.19	1.91	3.42

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft ³ /s)
DA3	Post-Development 1 year	1	0.068	12.150	0.73
DA3	Pre-Development 1 year	1	0.153	12.200	1.01
DA3	Pre-Development 10 year	10	0.800	12.150	10.53
DA3	Post-Development 10 year	10	0.260	12.150	3.42
DA 3 Uncontrolled	Post-Development 1 year	1	0.043	12.150	0.58
DA 3 Uncontrolled	Post-Development 10 year	10	0.137	12.150	1.91

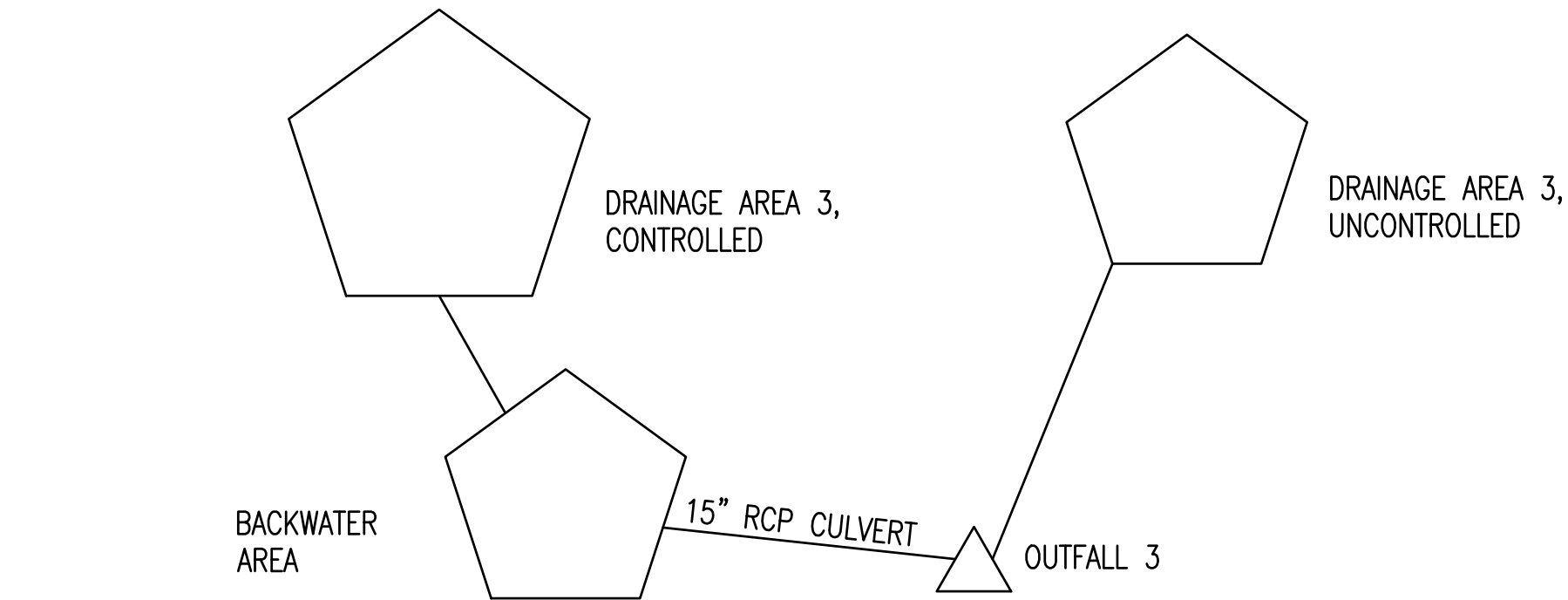
Node Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft ³ /s)
O-3	Post-Development 1 year	1	0.111	12.200	1.01
O-3	Pre-Development 1 year	1	0.153	12.200	1.01
O-3	Pre-Development 10 year	10	0.800	12.150	10.53
O-3	Post-Development 10 year	10	0.396	12.200	3.60

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft ³ /s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ac-ft)
Backwater (IN)	Post-Development 1 year	1	0.068	12.150	0.73	(N/A)	(N/A)
Backwater (OUT)	Post-Development 1 year	1	0.068	12.250	0.56	388.77	0.003
Backwater (IN)	Post-Development 10 year	10	0.260	12.150	3.42	(N/A)	(N/A)
Backwater (OUT)	Post-Development 10 year	10	0.259	12.300	2.19	389.29	0.032

MODEL SCHEMATIC



DRAINAGE AREA 4

DA 4				
Return Event	Q _{pre"-outfall}	Q _{allowable}	Q _{undist.}	Q _{post-outfall}
	CFS	CFS	CFS	CFS
1-year	0.68	0.68	—	0.68
10-year	7.61	7.61	0.71	3.67

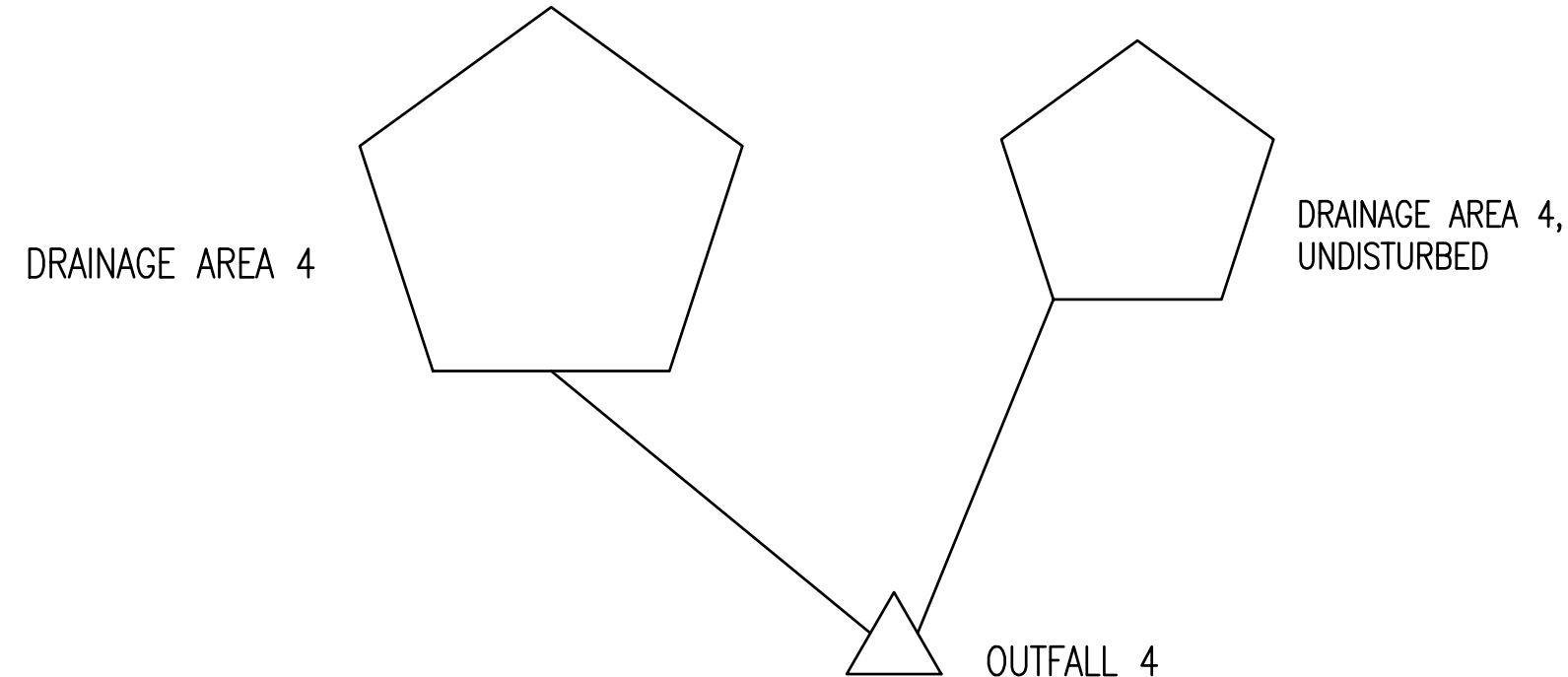
Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft ³ /s)
DA4	Pre-Development 1 year	1	0.114	12.250	0.68
DA4	Post-Development 1 year	1	0.053	12.150	0.68
DA4	Pre-Development 10 year	10	0.595	12.150	6.99
DA4	Post-Development 10 year	10	0.204	12.100	2.96
DA4 Uncont. Undist.	Pre-Development 10 year	10	0.047	12.100	0.71
DA4 Uncont. Undist.	Post-Development 10 year	10	0.047	12.100	0.71

Node Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft ³ /s)
O-4	Pre-Development 1 year	1	0.114	12.250	0.68
O-4	Post-Development 1 year	1	0.053	12.150	0.68
O-4	Pre-Development 10 year	10	0.642	12.150	7.61
O-4	Post-Development 10 year	10	0.251	12.100	3.67

MODEL SCHEMATIC



DRAINAGE AREA 5

DA 5		
Return Event	Q _{pre-dev}	Q _{post-dev}
	CFS	CFS
1-year	0.01	0.38
10-year	0.21	1.42

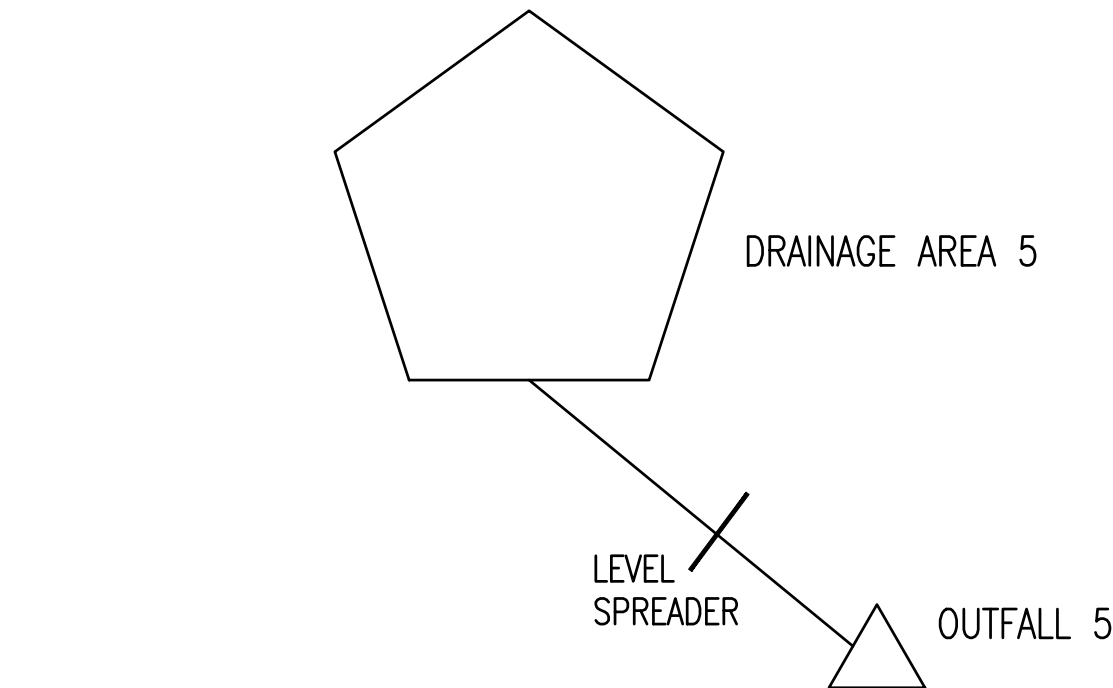
Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft ³ /s)
DA5	Pre-Development 1 year	1	0.002	12.500	0.01
DA5	Post-Development 1 year	1	0.026	12.100	0.38
DA5	Pre-Development 10 year	10	0.015	12.100	0.21
DA5	Post-Development 10 year	10	0.088	12.100	1.42

Node Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft ³ /s)
O-5	Pre-Development 1 year	1	0.002	12.500	0.01
O-5	Post-Development 1 year	1	0.026	12.100	0.38
O-5	Pre-Development 10 year	10	0.015	12.100	0.21
O-5	Post-Development 10 year	10	0.088	12.100	1.42

MODEL SCHEMATIC



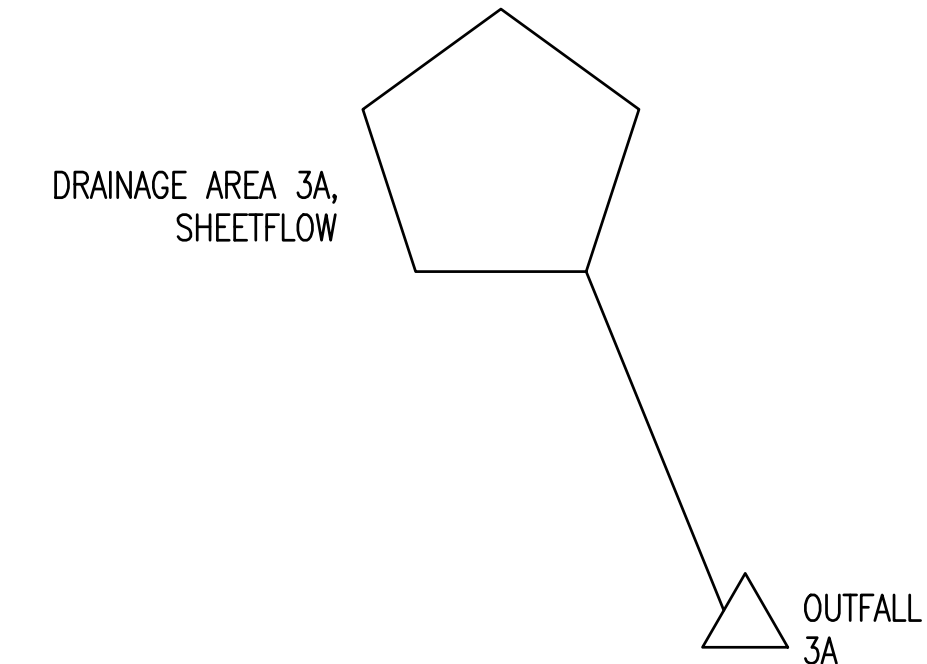
DA 3 BACKWATER AREA ELEVATION-VOLUME TABLE

STAGE VS. STORAGE USING CONIC METHOD				
PROJECT: Unity Substation DA 3 Backwater Area				
ENGINEER / DATE: KZ 1/25/2024				
Main Cell				
ELEVATION	AREA	AREA	INCREMENTAL VOLUME	TOTAL VOLUME
(FEET)	(SQ FEET)	(ACRES)	(ACRE-FEET)	(ACRE-FEET)
388.37	0.0	0.000	0.000	0.000
389	2700.7	0.062	0.013	0.013
390	3702.6	0.085	0.073	0.086
391	4530.2	0.104	0.094	0.181
392	5445.0	0.125	0.114	0.295

DRAINAGE AREA 3A SHEETFLOW

Unity Substation Dewberry Water Resources Engineering				
OUTFALL 3A - Sheet Flow Computations				
Computed By: KZ Date: 25-Jan-24 Checked By: EU Date: 25-Jan-24				
Drainage Area (ac)	CN Value	2-Year Flow (cfs)	10-Year Flow (cfs)	
Existing Sheet Flow	0.60	0.24	1.00	
Proposed Sheet Flow	0.55	0.83	1.81	
Existing Sheet Flow > Proposed Sheet Flow				
2-Year Flow	0.24	<	0.83	
10-Year Flow	1.00	<	1.81	
*Assuming Tc=5 mins				

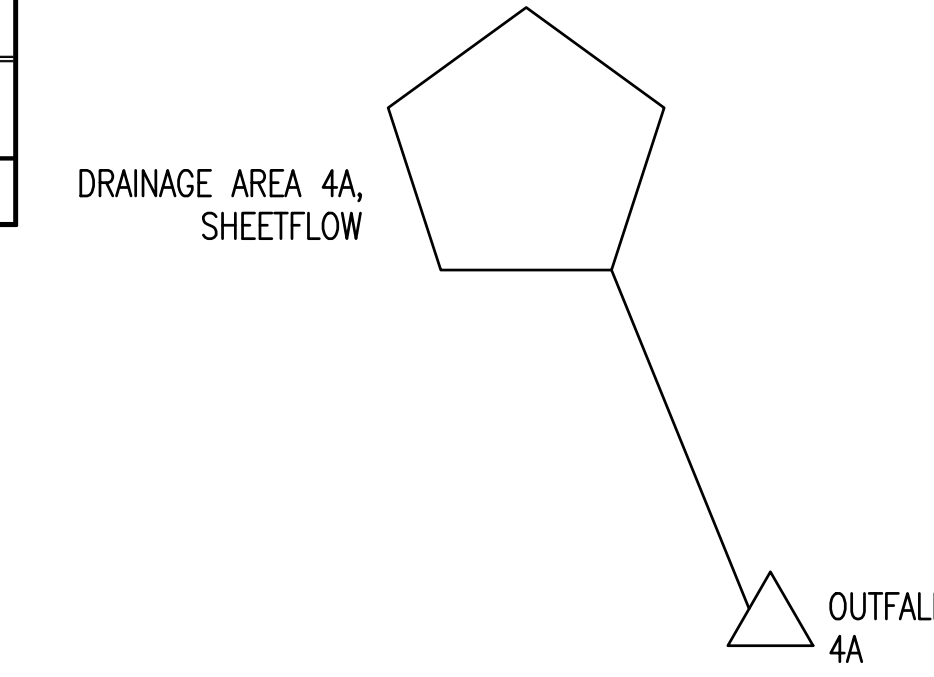
MODEL SCHEMATIC



DRAINAGE AREA 4A SHEETFLOW

Unity Substation Dewberry Water Resources Engineering				
OUTFALL 4A - Sheet Flow Computations				
Computed By: KZ Date: 25-Jan-24 Checked By: EU Date: 25-Jan-24				
Drainage Area (ac)	CN Value	2-Year Flow (cfs)	10-Year Flow (cfs)	
Existing Sheet Flow	0.31	57.4	0.09	0.43
Proposed Sheet Flow	0.31	77.3	0.54	1.12
Existing Sheet Flow > Proposed Sheet Flow				
2-Year Flow	0.09	<	0.54	
10-Year Flow	0.43	<	1.12	
*Assuming Tc=5 mins				

MODEL SCHEMATIC

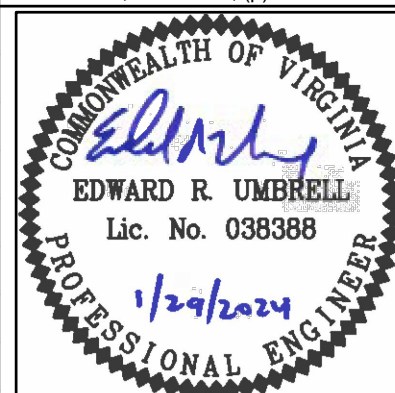


Catchments Summary					
Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft ³ /s)
DA 3A	Post-Development 2 year	2	0.052	12.100	0.83
DA 3A	Pre-Development 2 year	2	0.023	12.150	0.24
DA 3A	Pre-Development 10 year	10	0.067	12.100	1.00
DA 3A	Post-Development 10 year	10	0.113	12.100	1.81

Catchments Summary					
Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft ³ /s)
DA 4A	Post-Development 2 year	2	0.034	12.100	0.54
DA 4A	Pre-Development 2 year	2	0.009	12.150	0.09
DA 4A	Pre-Development 10 year	10	0.030	12.100	0.43
DA 4A	Post-Development 10 year	10	0.070	12.100	1.12



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4805 Lake Brook Drive, Suite 200
Glen Allen, VA 23060; (804) 804.290.7957



DEWBERRY PROJECT NO.: 50157950

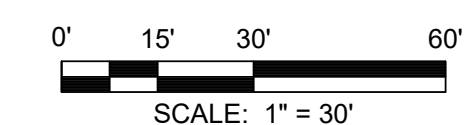



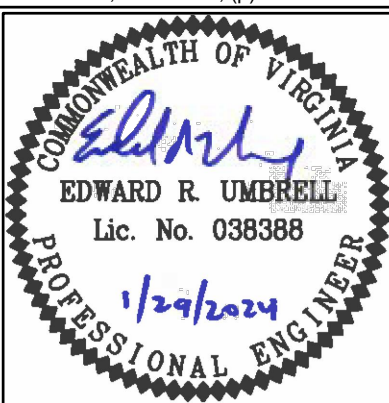

ROUTING COMPS

UNITY SUBSTATION LUNENBURG COUNTY VIRGINIA				
OPERATIONAL REGION	B/M No.	DATE	SHEET:	SCALE AS SHOWN
PROJECT 5017950	NAME EU/KZ	DATE 01/29/24	SHEET: 1707908-C-613	
DESIGNER EU/KZ	PROJECT ENGINEER EU/KZ	DATE 01/29/24	DRAWING: 1707908-C-613.dwg	
APPROVED BY KAS		DATE 01/29/24		

[illegible]

1. ALL FILL EMBANKMENTS SHALL BE CONSTRUCTED TO THE 2013 APPENDIX A: EARTHEN EMBANKMENT SPEC PROVIDED BY DEQ
2. REFER BACK TO SEDIMENT BASIN ON 1707908-C-217 FOR CONVERSION SEQUENCE



<div style="text-align: center;">  <p>Dewberry Engineers Inc. 4805 Lake Brook Drive, Suite 200 Glen Allen, VA 23060; (p) 804.230.7957</p> </div>			
REVISIONS			
REV	DATE	DESCRIPTION	<div style="text-align: center;">  <p>Dewberry Project No.: 50157950</p> </div>
			
<h2 style="margin: 0;">SWM BASIN PLAN</h2>			
<h2 style="margin: 0;">UNITY SUBSTATION</h2>			
<h2 style="margin: 0;">LUNENBURG COUNTY</h2>		<h2 style="margin: 0;">VIRGINIA</h2>	
OPERATIONAL REGION	B/M No.	SCALE	1" = 30'
PROJECT 5017950	NAME	SHEET:	1707908-C-614
DESIGNER	EU/KZ	DATE	01/29/24
PROJECT ENGINEER	EU/KZ	DATE	01/29/24
APPROVED BY	KAS	DATE	01/29/24
		DRAWING:	1707908-C-614.dwg

395

390

385

380

375

9+00 9+50 10+00 10+50 11+00 11+50 12+00 12+50

100-YR WSE = 383.04'

10-YR WSE = 381.58'

2-YR WSE = 380.30'

1-YR WSE = 379.81'

6'x6" BOX RISER

ELEV = 382.75'

TOP OF RISER

SEE RISER DETAILS ON SHEET 1707908-C-616

NORMAL POOL WSE = 379.00'

VDOT EW-1PC WITH TRASH RACK

VDOT INVERT = 375.96'

STA=10+08.01

14'

12' WIDE GRAVEL ACCESS ROAD - SEE DETAIL ON SHEET 1707908-C-617

12' CLAY LINER - SEE GEOTECH REPORT

24' RCP ASTM-C361-Ø 0.76% LENGTH=115.00'

STA=10+16.79

DRAINAGE PIPE OUTLET - CONCRETE CRADLE - 115' LONG

INV=375.89

TOP OF DAM ELEV=386.10'

CONSTRUCTED TOP OF DAM = 386.16' TO ALLOW FOR UP TO 3% SETTLEMENT

OUTFALL CULVERT

INV=374.80

SW=11F31.286

24" END-SECTION (VDOT DETAIL 102.01)

LEVEL SPREADER, 6"X6" TREATED TIMBER, 15.0 FT LENGTH

ELEV. = 375.0'

EXISTING GRADE

CLASS A1 RIPRAP W/ FILTER FABRIC L=30.0', W=12.5' T = 2.2'

GRASS SWALE

TRASH RACK

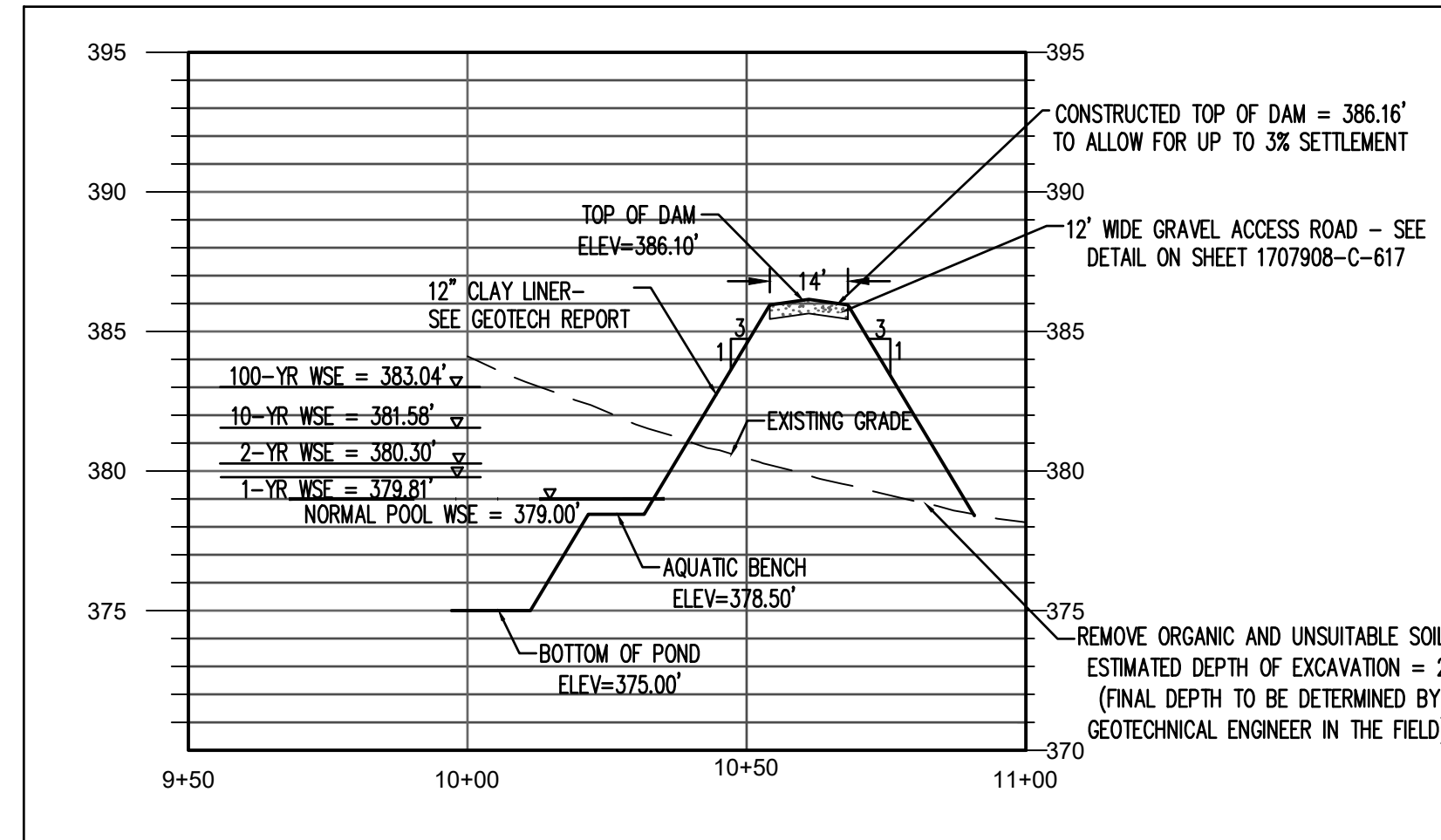
IN=376.65

CULVERT INVERT

STA=10+22.86

BOTTOM OF POND ELEV=375.00'

SCALE: 1" = 30' HORIZONTAL
1" = 6' VERTICAL



SCALE: 1" = 30' HORIZONTAL
1" = 6' VERTICAL

SCALE: 1" = 30' HORIZONTAL
1" = 6' VERTICAL

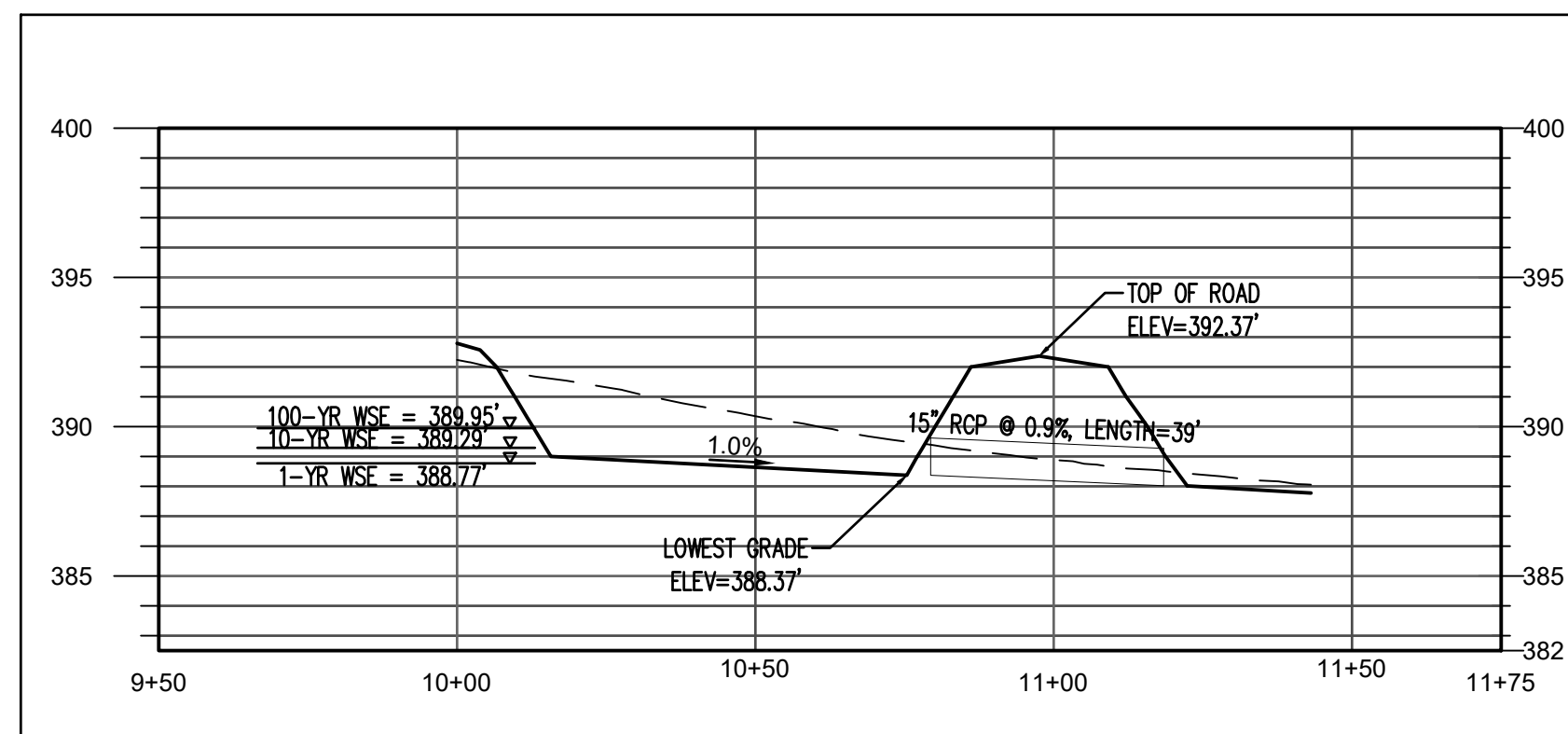
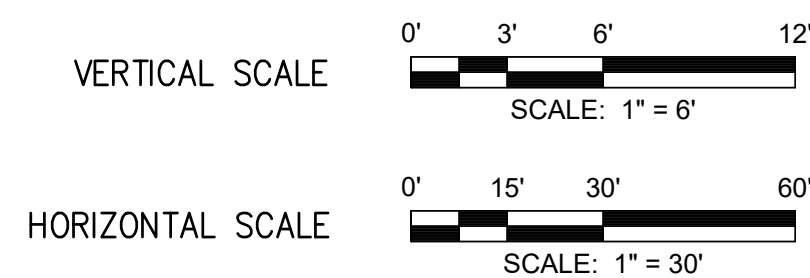
STRUCTURE	DIA. (IN.)	5'S (FT.) L REQ.	L PROV. (FT.)	5'S(FT.) W REQ.	W PROV. (FT.)	100 YEAR Q (CFS)*	VELOCITY (FPS)	RIP RAP	MIN. "T" (FT.)
STM 1	24	10	30	10	12.5	14.32	4.6	CLASS A	1.5

NOTE: COMPUTATIONS FOR RIP RAP BASED ON VDOT EC-1. VELOCITY IS FOR 100 YEAR STORM EVENT.


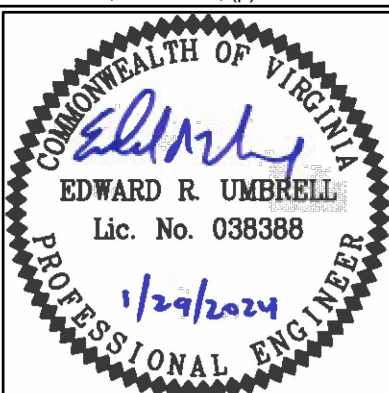

WET POND (LEVEL 2)							PRE-TREATMENT METHOD
DRAINAGE AREA	TOP OF DAM	DESIGN 10-YR WSE	DESIGN 100-YR WSE	FREEBOARD (100-YR)	TREATMENT REQUIRED	TREATMENT PROVIDED	
(AC)	(FT)	(FT)	(FT)	(FT)	(CF)	(CF)	
15.39	386.00	381.58	383.04	2.96	70102	111275	FOREBAY

OUTLET STRUCTURE - SWM 1						
STRUCTURE TYPE	TOP OF RISER	RISER DIMENSIONS	LOW FLOW ORIFICE INV	LOW FLOW ORIFICE SIZE	MID ORIFICE INV	MID ORIFICE SIZE
	(FT)	(FT)	(FT)	(IN)	(FT)	(SF)
BUILT-IN	382.75	6 X 6	379.00	3	381.25	0.5

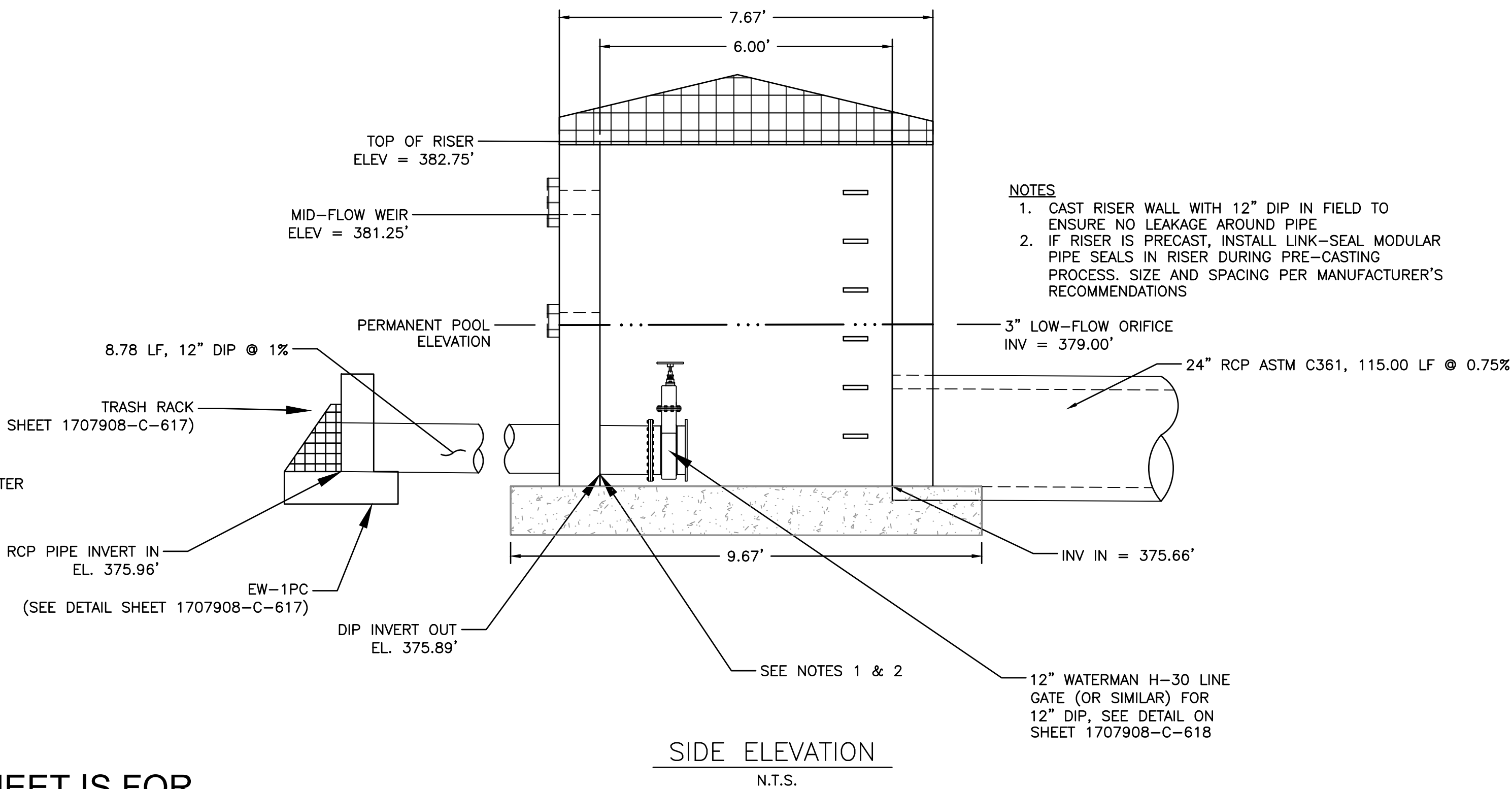
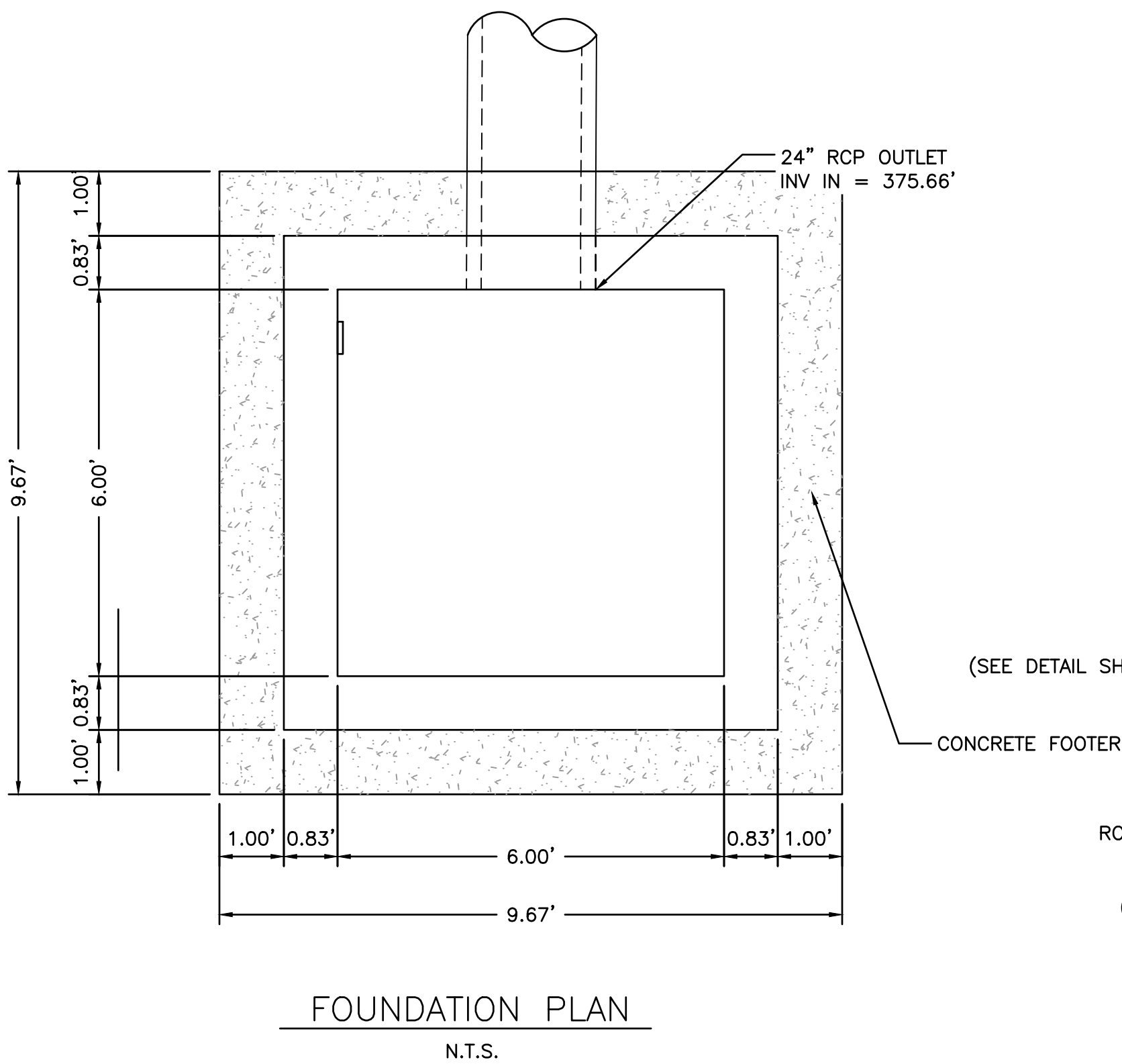
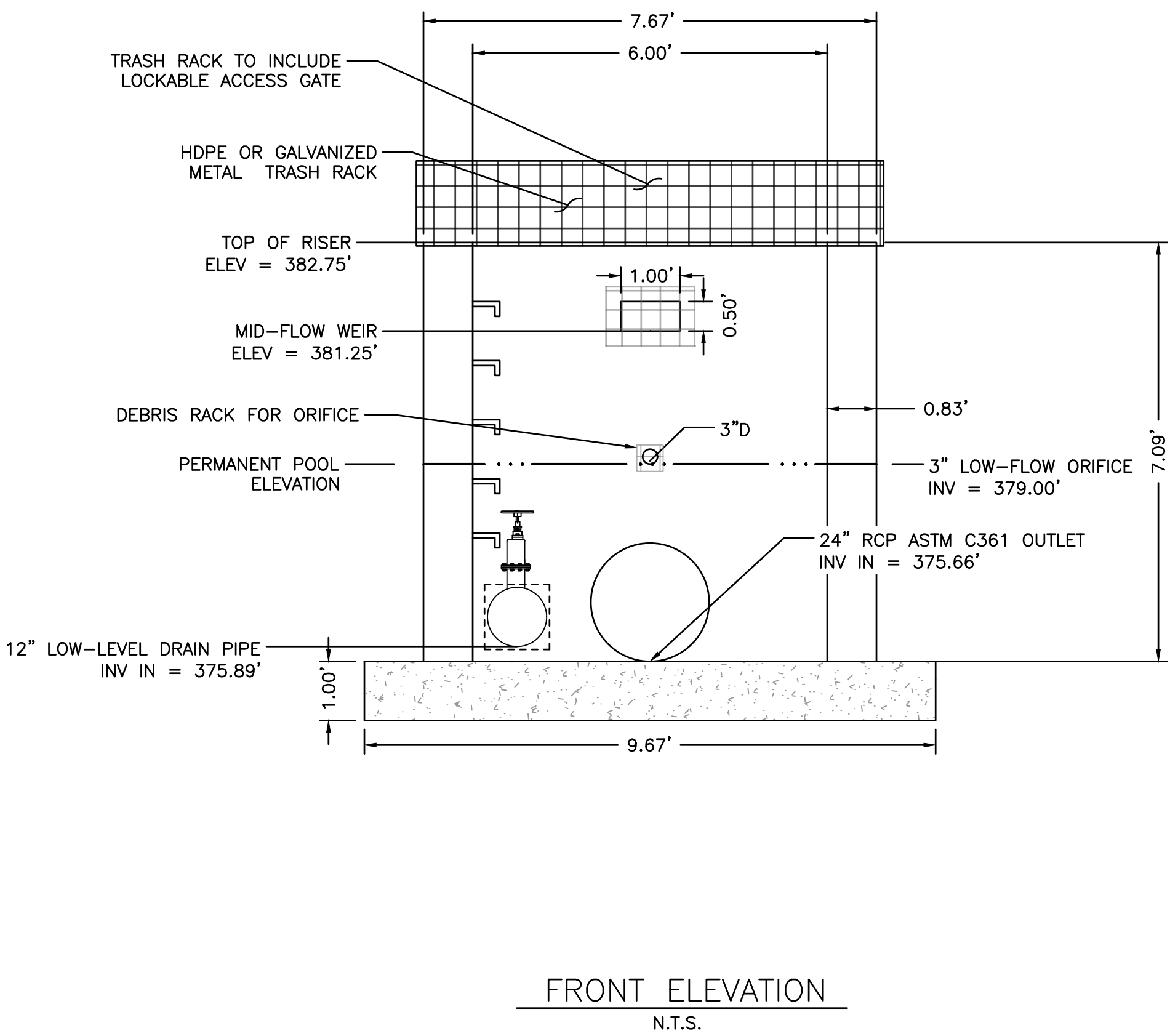
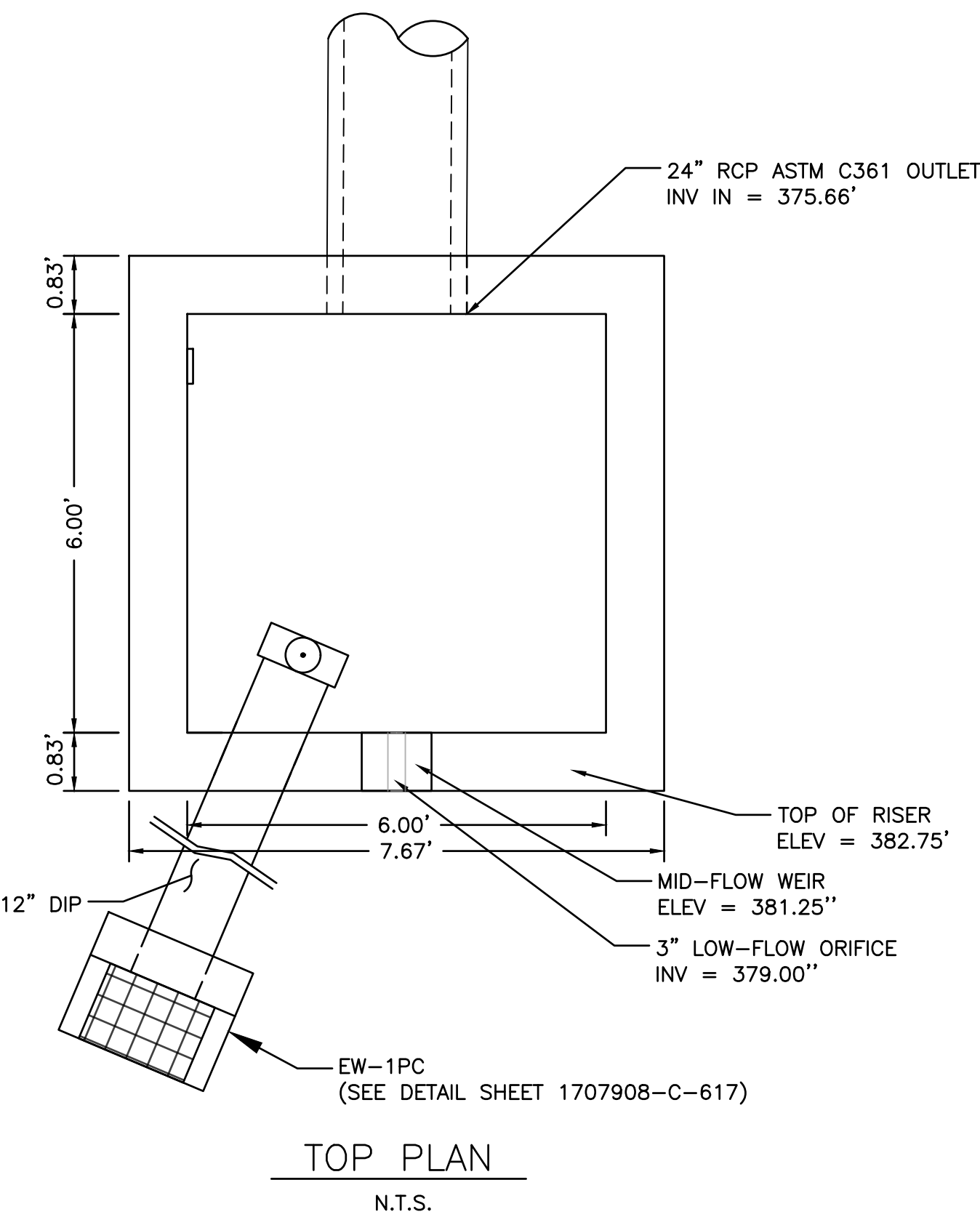
1- YEAR = 379.81 FT
10- YEAR = 381.58 FT
100- YEAR = 383.04 FT



SCALE: 1" = 30' HORIZONTAL
1" = 6' VERTICAL

REVISIONS						 Dewberry Engineering Inc. 4805 Lake Brook Drive, Suite 200 Glen Allen, VA 23060; (p) 804-200-7957	
							
REV	DATE	DESCRIPTION				DEWBERRY PROJECT NO.: 50157950	
<div style="text-align: center;">  Dominion Energy® </div>							
<h2>SWM BASIN PROFILES</h2>							
<h3>UNITY SUBSTATION</h3>							
<h3>LUNENBURG COUNTY</h3>				<h3>VIRGINIA</h3>			
OPERATIONAL REGION		B/M No.			SCALE	AS SHOWN	
PROJECT	5017950	NAME	DATE	SHEET:	1707908-C-615		
DESIGNER		EU/KZ	01/29/24				
PROJECT ENGINEER		EU/KZ	01/29/24	DRAWING:			
APPROVED BY		KAS	01/29/24	1707908-C-615.dwg			

SWM 1 - RISER SCHEMATIC




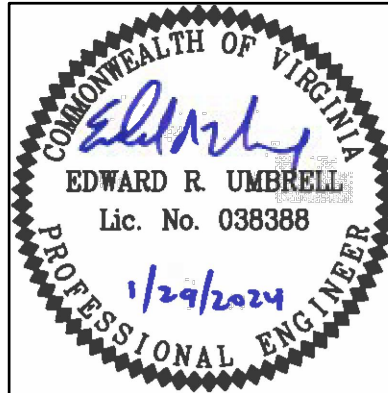
- NOTES
1. CAST RISER WALL WITH 12" DIP IN FIELD TO ENSURE NO LEAKAGE AROUND PIPE
 2. IF RISER IS PRECAST, INSTALL LINK-SEAL MODULAR PIPE SEALS IN RISER DURING PRE-CASTING PROCESS. SIZE AND SPACING PER MANUFACTURER'S RECOMMENDATIONS


NORMAL POOL ELEV. = 379.00'
1-YR WSE = 379.81'
10-YR WSE = 381.58'
100-YR WSE = 383.04'

THIS SHEET IS FOR
INFORMATION ONLY!!

INFORMATION SHOWN ON THIS SHEET IS FOR HYDRAULIC INFORMATION ONLY AND IS
NOT TO BE USED FOR CONSTRUCTION, ONLY HYDRAULIC DIMENSIONS ARE SHOWN.

SEE SHEET 1707908-C-618 FOR BUOYANCY COMPUTATIONS.

REVISIONS			 Dewberry Engineers Inc. 4805 Lake Brook Drive, Suite 200 Glen Allen, VA 23060; (p) 804.290.7957
REV	DATE	DESCRIPTION	 DEWBERRY PROJECT NO.: 50157950



**Dominion
Energy®**

SWM RISER DETAILS

UNITY SUBSTATION

LUNENBURG COUNTY

VIRGINIA

OPERATIONAL REGION			B/M No.		SCALE	AS SHOWN
PROJECT	5017950	NAME	DATE	SHEET:	1707908-C-616	
DESIGNER	EU/KZ		01/29/24	DRAWING:	1707908-C-616.dwg	
PROJECT ENGINEER	EU/KZ		01/29/24			
APPROVED BY	KAS		01/29/24			

https://www.virginiadot.org/business/resources/LocDes/VDOT2016_Road_and_Bridge_Standards/Section100/113_01.pdf

https://www.virginiadot.org/business/resources/LocDes/VDOT2016_Road_and_Bridge_Standards/Section100/114_06.pdf

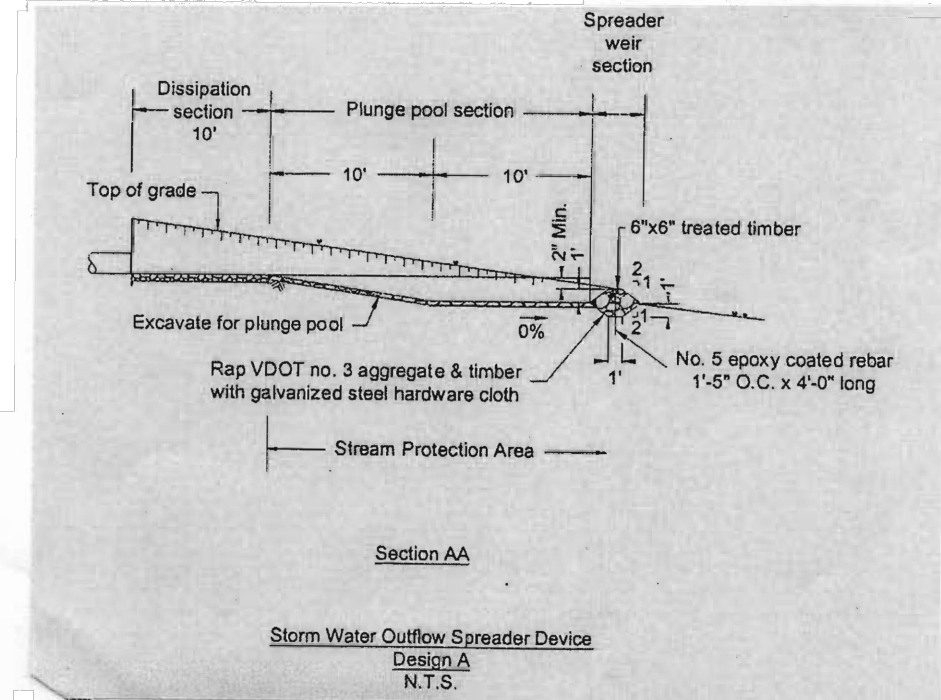
https://www.virginiadot.org/business/resources/LocDes/VDOT2016_Road_and_Bridge_Standards/Section100/101_02.pdf

This diagram illustrates the cross-section of a Spreader Weir with a plunge pool. The structure is divided into three main sections from left to right: the Dissipation section, the Plunge pool section, and the Spreader weir section. The Dissipation section features a sloped apron with a 20% slope. The Plunge pool section is an excavated area at the base of the dissipation apron, lined with class A1 riprap and filter cloth. The Spreader weir section is a vertical wall with a 6"x6" treated timber pile at its base. The weir face is covered with a 20% slope of riprap. The structure is supported by a foundation of undisturbed natural ground. A note indicates that sod is required on the downstream side of the weir. The diagram also shows the weir section being extended back to its original grade as required.

https://www.virginiadot.org/business/resources/LocDes/VDOT2016_Road_and_Bridge_Standards/Section100/106_09.pdf

https://www.virginiadot.org/business/resources/LocDes/VDOT2016_Road_and_Bridge_Standards/Section100/114_08.pdf

https://www.virginiadot.org/business/resources/LocDes/VDOT2016_Road_and_Bridge_Standards/Section100/102_01.pdf



LEVEL SPREADER DETAIL

0.25	0.32
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NOTE: LEVEL SPREADERS WERE DESIGNED WITH EQUATIONS FROM, AND IN ACCORDANCE WITH SECTION 3.305.2, *DISCHARGES OF SHEET FLOW FROM LEVEL SPREADERS* OF VA DEQ GUIDANCE MEMO NO. 22-2012 - STORMWATER MANAGEMENT AND EROSION & SEDIMENT CONTROL DESIGN GUIDE. THE DA 1 LEVEL SPREADER WAS DESIGNED BASED ON ADDITIONAL DESIGN CRITERIA OUTLINED IN THE VA DEQ STORMWATER DESIGN SPECIFICATIONS FOR SHEET FLOW TO CONSERVED OPEN SPACE.

Diagram illustrating the cross-section of a trapezoidal channel. The channel has a flat bottom of width l_b and sloped sides with a 1:1 ratio. The depth is labeled as $DEPTH (H) = 0.1 \text{ FT}$. The length of the bottom is labeled as $LENGTH (l_b) = \text{VARIES}$.

$$L_s = Q / C_w \times H^{3/2}$$

$$V = (1.486/n) \times R^{2/3} \times S^{1/2} \text{ (Manning's Equation)}$$

$$L_{SF} = 100 \times S^{1/2} / n$$

REVISONS				 Dewberry Engineers Inc. 4500 Lakes Brook Drive, Suite 200 Glen Allen, VA 23060; (p) 804.290.7957	
REV	DATE	DESCRIPTION		DEWBERRY PROJECT NO.: 50157950	
<h2 style="margin: 0;">SWM DETAILS</h2>					
<h1 style="margin: 0;">UNITY SUBSTATION</h1>					
<h2 style="margin: 0;">LUNENBURG COUNTY</h2>				<h2 style="margin: 0;">VIRGINIA</h2>	
OPERATING REGION		B/M No.	SCALE	AS SHOWN	
PROJECT 5017950	NAME DATE	SHEET:	1707908-C-617		
DESIGNER EU/KZ	01/29/24	DRAWING: 1707908-C-617.dwg			
PROJECT ENGINEER EU/KZ	01/29/24				
APPROVED BY KAS	01/29/24				

GENERAL NOTES:

1. ALL PLANT MATERIALS SHALL BE SPECIFIED TO BE EQUAL TO OR BETTER THAN THE STANDARDS FOR NURSERY STOCK, BY THE AMERICAN NURSERY AND LANDSCAPERS ASSOCIATION (ANLA).

2. TREES AND SHRUBS SHALL BE NURSERY GROWN, UNLESS OTHERWISE APPROVED, AND SHALL BE HEALTHY AND VIGOROUS PLANTS, FREE FROM DEFECTS, DECAY, DISFIGURING ROOTS, SUN-SCALD, INJURIES, ABRASIONS OF THE BARK, PLANT DISEASES, INSECT PEST EGGS, BORERS AND ALL FORMS OF INFESTATIONS OR OBJECTIONABLE DISFIGUREMENTS, AS DETERMINED BY THE DIRECTOR OF PUBLIC WORKS. PLANTS SHALL BE IN ACCORDANCE WITH THE CURRENT AMERICAN NURSERY AND LANDSCAPE ASSOCIATION AND CONFORM IN GENERAL TO REPRESENTATIVE SPECIES.

3. PLANT MEASUREMENTS: ALL PLANTS SHALL CONFORM TO THE MEASUREMENTS SPECIFIED IN THE PLANT SCHEDULE OF THE LANDSCAPE PLAN. ALL PLANT SIZES SPECIFIED IN THE PLANS SHALL GENERALLY BE THE MEDIAN FOR THE SIZE RANGES INDICATED IN THE ANLA STANDARDS AND, AT A MINIMUM, SHALL COMPLY WITH THE FOLLOWING.

A. CALIPER MEASUREMENTS SHALL BE TAKEN SIX (6) INCHES ABOVE GRADE FOR TREES UNDER FOUR (4) INCHES CALIPER, AND TWELVE (12) INCHES ABOVE GRADE FOR TREES FOUR (4) INCHES IN CALIPER AND OVER.

B. MINIMUM BRANCHING HEIGHT FOR ALL SHADE TREES SHALL BE SIX (6) FEET.

C. MINIMUM SIZE FOR PLANTING LARGE DECIDUOUS TREES SHALL BE TWO TO TWO AND ONE-HALF (2-2½) INCH CALIPER, TWELVE (12) FEET TO FOURTEEN (14) FEET IN HEIGHT.

D. MINIMUM SIZE FOR PLANTING ALL OTHER DECIDUOUS TREES SHALL BE ONE TO ONE AND ONE-HALF (1-1½) INCH CALIPER, SIX (6) FEET TO EIGHT (8) FEET IN HEIGHT.

4. PLANTS SHALL BE PROTECTED DURING DELIVERY TO PREVENT DESICCATION OF LEAVES.

5. INsofar AS IS PRACTICABLE, TREES AND SHRUBS SHALL BE PLANTED ON DAY OF DELIVERY. IF THIS IS NOT POSSIBLE, THE CONTRACTOR SHALL PROTECT UNPLANTED TREES BY KEEPING THEM IN SHADE, WELL PROTECTED WITH SOIL, MULCH OR OTHER ACCEPTABLE MATERIAL AND SHALL KEEP TREES WELL WATERED. TREES AND SHRUBS SHALL NOT REMAIN UNPLANTED FOR MORE THAN TWO (2) WEEKS.

6. ALL TREES AND SHRUBS SHALL BE PLANTED IN SUCH A MANNER AS TO ENSURE THEIR SURVIVAL. THIS SHALL INCLUDE THE PLANTING OF INTACT BALLS, PLANTING AT PROPER DEPTH, PROPERLY BACKFILLING AND WATERING, AND CONSTRUCTION OF A PLANTING SAUCER. ALL PLANTING AREAS SHALL CONTAIN SOILS SUITABLE FOR PLANTING. SOILS SHALL BE CLEAN AND FREE OF ALL CONSTRUCTION MATERIALS. (SEE PLANTING PROCEDURES FOR TREES AND PLANTING PROCEDURES FOR SHRUBS IN THE LATEST EDITION OF LANDSCAPE SPECIFICATION GUIDELINES FOR BALTIMORE, WASHINGTON METROPOLITAN AREA, PREPARED BY THE LANDSCAPE CONTRACTORS ASSOCIATION OF METROPOLITAN WASHINGTON AND AMERICAN SOCIETY OF LANDSCAPE ARCHITECTS FOR ADEQUATE SPECIFICATIONS.)

7. ANY ROPE OR WIRE BINDING THE BALL SHALL BE CUT PRIOR TO THE CONCLUSION OF BACKFILLING OPERATIONS TO PREVENT GIRDLING OF THE TREE TRUNK.

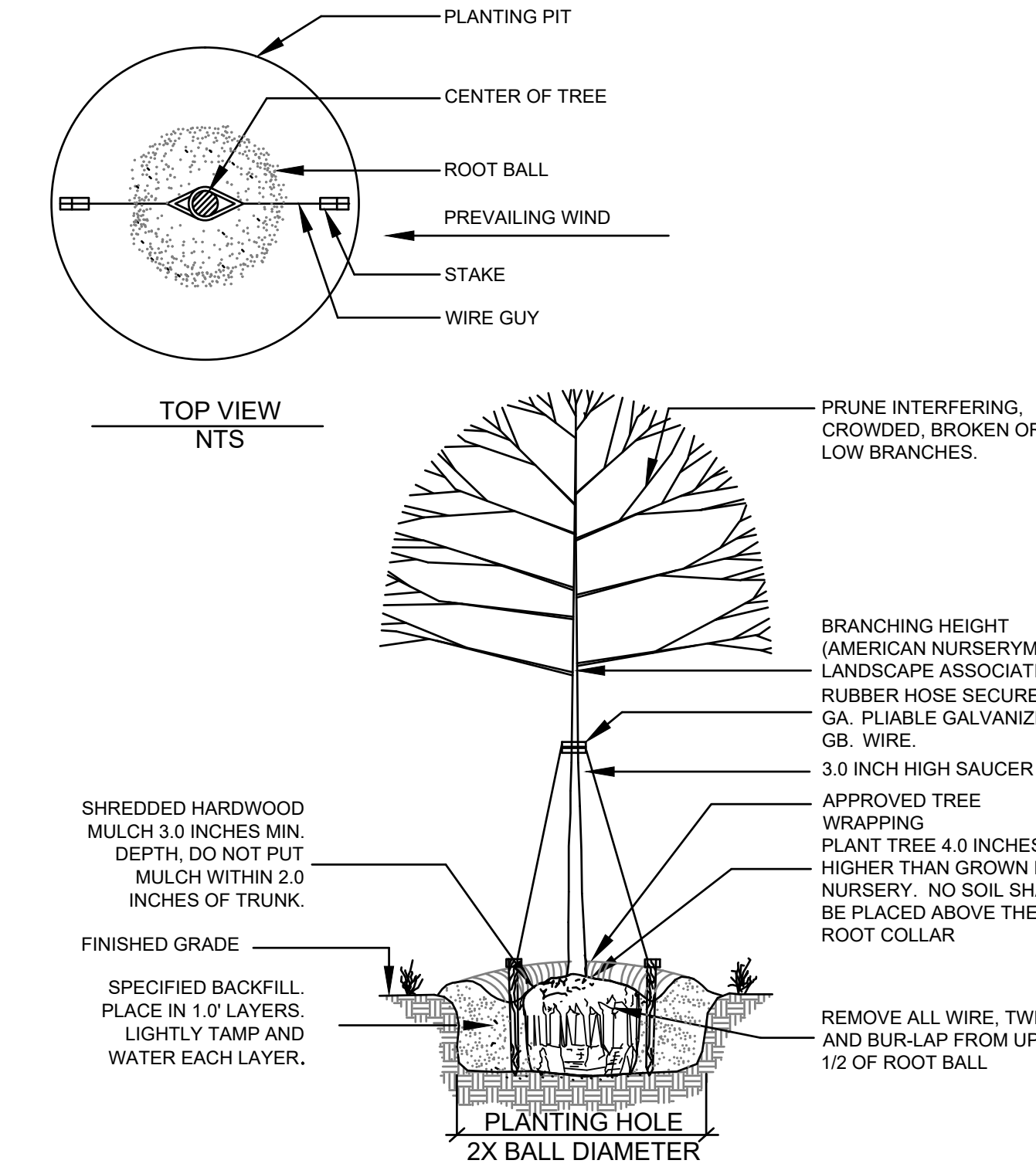
8. IF A NONBIODEGRADABLE MATERIAL IS USED AROUND THE BALL, IT SHALL BE COMPLETELY REMOVED PRIOR TO BACKFILLING.

9. ALL AREA WITHIN THE HIGH MARSH AND LOW MARSH LANDSCAPING SHALL BE COVERED BY COIR FIBER MATTING AND SECURED WITH LANDSCAPING BIODEGRADABLE (NON-METALLIC) STAPLES (MIN. 4"-6" STAPLES).

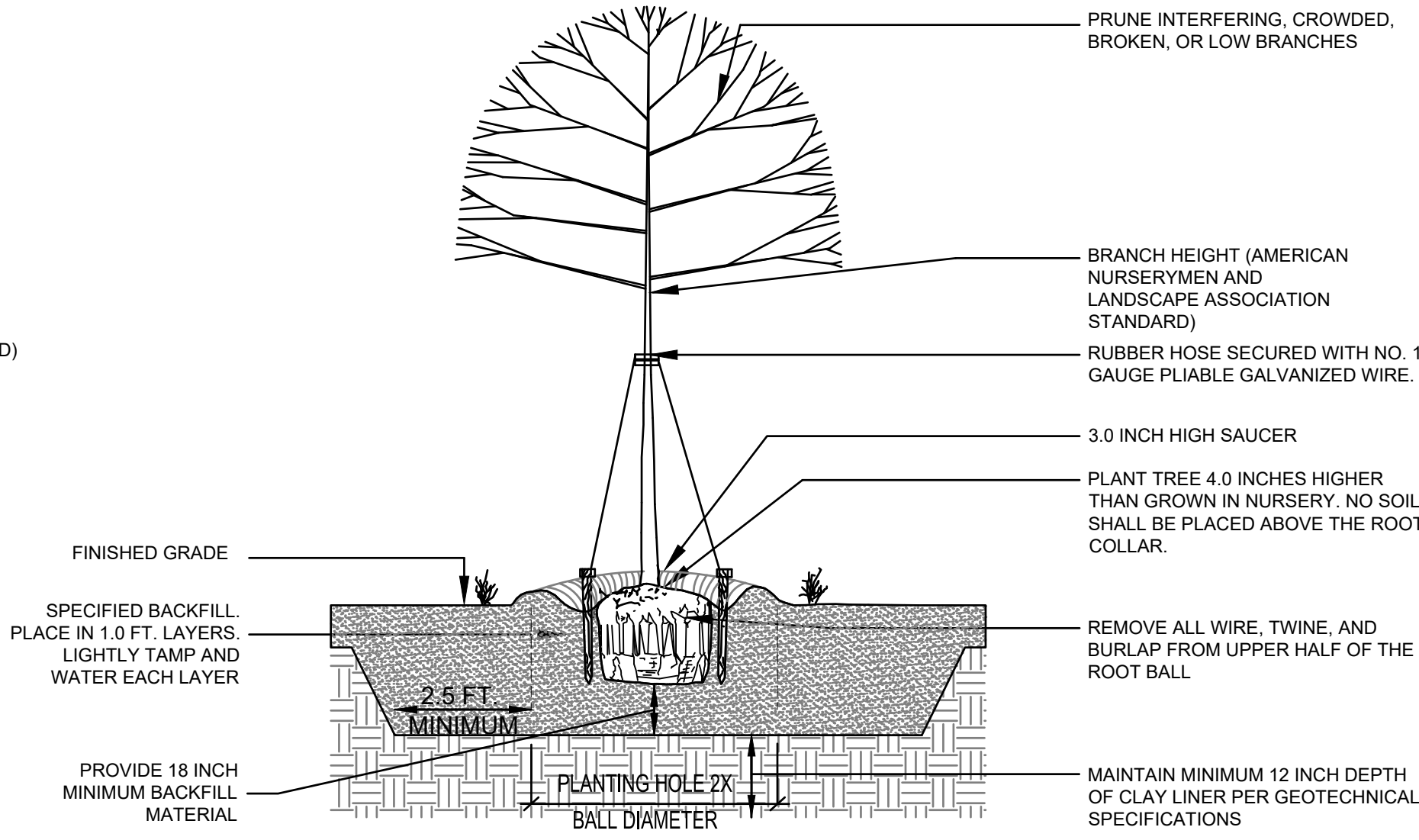
10. WHEN THE HIGH MARSH SEED MIX IS APPLIED, MIX WITH TEMPORARY SEED MIX TO HELP STABILIZE THE MIX UNTIL IT HAS HAD TIME TO GERMINATE (UNLESS THE MIX IS PRE-GERMINATED).

11. CONTRACTOR IS SOLELY RESPONSIBLE TO PROVIDE ONLY THE PLANTS SPECIFIED IN THIS PLAN SET. PLANT CULTIVARS SHALL NOT BE ACCEPTED WITHOUT PRIOR WRITTEN APPROVAL FROM PROJECT ENGINEER.

THIS SHEET IS FOR LANDSCAPE PURPOSES ONLY!!



TYPICAL SHADE TREE PLANTING DETAIL
NOT TO SCALE



TYPICAL SHADE TREE PLANTING DETAIL - WETLAND BERMS
NOT TO SCALE

SEEDING NOTES:

A. GENERAL: THIS WORK SHALL CONSIST OF FURNISHING, TRANSPORTING, STOCKPILING, AND INSTALLING ALL HERBACEOUS PERMANENT AND TEMPORARY SEEDING.

B. ALL AREAS WILL BE SEEDDED WITH THE SEED MIXES IN THE APPROPRIATE ZONES AS SPECIFIED IN THE SEEDING PLANS.

C. ALL SEED AND SEED VARIETIES SHALL BE FREE FROM STATE AND FEDERAL PROHIBITED NOXIOUS WEED SEEDS LISTED AS ALIEN INVASIVE SPECIES BY THE VIRGINIA DEPARTMENT OF CONSERVATION AND RECREATION NATURAL HERITAGE PROGRAM, THE US DEPARTMENT OF AGRICULTURE AND THE MID-ATLANTIC EXOTIC PEST PLANT COUNCIL.

D. DO NOT USE: LOLIUM PERENNES, PERENNIAL RYEGRASS, ERAGROSTIS CURVULA, WEEPING LOVEGRASS, OR LESPEDEZA STIPULACEA (OR L. CUNEATE), CHINESE LESPEDEZA.

E. STORAGE AND HANDLING: SEED STORAGE SHOULD FOLLOW THE JAMES RULE (JAMES HARRINGTON); RELATIVE HUMIDITY + TEMPERATURE IN DEGREES FAHRENHEIT, MUST BE EQUAL TO OR LESS THAN 100 DEGREES

F. ALL NATIVE SEED MIXES MUST BE OBTAINED FROM ERNST CONSERVATIONS SEEDS OF MEADVILLE, PA OR AN OWNER APPROVED ALTERNATE VENDOR. THE ERNMx-865 SEED MIX SHOULD BE APPLIED AT 60LBS PER ACRE. THE ERNMx-128 MIX SHOULD BE APPLIED AT 20LBS PER ACRE.

G. INSTALLATION

1. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE SEEDDED IN ACCORDANCE WITH THE PLANTING PLANS AND SCHEDULES. THE HERBACEOUS PERMANENT SEEDING IS SPECIFIED ON THE COMPOSITION AND PLANTING SCHEDULES IN THE CONTRACT DOCUMENTS. AREAS NOT DISTURBED, SHALL NOT BE SEEDDED.

2. PRIOR TO SEEDING CONTRACTOR SHALL VERIFY THAT ALL AREAS TO BE SEEDDED SHALL CONFORM TO THE FINISHED GRADES AS SPECIFIED ON THE PLANS. ALL GULLIES, WASHES OR DISTURBED AREAS THAT DEVELOP SUBSEQUENT TO FINAL DRESSING SHALL BE REPAIRED PRIOR TO SEEDING.

3. PERMANENT SEEDING SHALL BE DONE BETWEEN AUGUST 15 AND JUNE 15.

4. SEEDING SHALL BE ACCOMPLISHED BY USING A BROADCASTING OR USE OF A TRUAX TYPE SEED DRILL. ANY ALTERNATIVE SEEDING METHODS MUST BE APPROVED BY OWNER PRIOR TO SEEDING. BROADCAST SPREADERS MAY BE USED TO SOW COVER CROPS. SEED INSTALLED BY A BROADCAST SPREADER SHALL BE CAPABLE OF PLACING SEED AT THE SPECIFIED RATE.

5. IF SEED DRILLING IS USED, IT MUST BE WITH A TRUAX TYPE SEED DRILL INTENDED FOR NATIVE SEED MIXES. ALL SEEDING EQUIPMENT SHALL BE CALIBRATED BEFORE APPLICATION TO THE SATISFACTION OF OWNER SO THAT THE MATERIAL IS APPLIED ACCURATELY AND EVENLY TO AVOID MISSES AND OVERLAPS.

6. THE SPECIFIED HERBACEOUS PERMANENT SEED MIX SHALL BE INSTALLED WITH SPECIFIED COVER CROP AND SEEDDED AT THE RATES SPECIFIED IN THE CONTRACT DOCUMENTS.

7. ALL SEED MIXES INSTALLED USING SEED DRILLS SHALL BE APPLIED ON TOP OF THE PREPARED AND/OR COMPOSTED SEEDING AREA IN TWO DIFFERENT DIRECTIONS.

8. FOLLOWING BROADCAST SEEDING, THE CONTRACTOR SHALL RAKE THE AREA TO MIX THE SEED MIX WITH THE TOP ONE INCH (1 INCH) OF PREPARED SOIL.

9. THE CONTRACTOR SHALL THEN COVER THE SEEDDED AREAS WITH STRAW MULCH AT A RATE OF 2 TONS PER ACRE PRIOR TO INSTALLING MATTING.

10. COVER CROPS SHALL CONSIST OF THE FOLLOWING.

- SEPT 1 - FEB 15: CEREAL RYE (SECALE CEREALE)
- FEB 15 - MAY 1: OATS (AVENA SETIVA)
- MAY 1 - SEPT 1: ANNUAL RYE (LOLIUM MULTIFLORUM)

ADDITIONAL NOTES - LOW MARSH PLUGS:

A. GENERAL:

1. THIS WORK SHALL CONSIST OF PROVIDING, INSTALLING, WATERING AND MAINTAINING COMMERCIALY SUPPLIED HERBACEOUS PLANT MATERIAL AS SPECIFIED IN THE CONTRACT DOCUMENTS.

2. ALL PLANT MATERIAL WILL MEET THE SPECIFICATIONS AS DEFINED BY CONTRACT DOCUMENTS. UNLESS OTHERWISE SPECIFIED, THE MINIMUM SIZE FOR PLANT MATERIAL UNDER THIS SECTION SHALL CONSIST OF EITHER

- 4-INCHES (2.2 INCHES WIDE, 4 INCHES DEEP, 10.07 CUBIC INCHES ROOT VOLUME, 32 PLANTS PER TRAY) OR
- 5-INCHES (2 INCHES WIDE, 5 INCHES DEEP, 11.9 CUBIC INCHES ROOT VOLUME, 50 PLANTS PER TRAY)
- NOTE THAT VERNALIZED PLUGS ARE PREFERRED FOR SPRING PLANTING AND IS A BEST PRACTICE WHICH HARDENS THE PLANTS USUALLY OVER WINTER SO THAT THEY WILL BE BETTER ADAPTED TO SITE CONDITIONS AND THEREFORE BE HARDIER AND SURVIVE BETTER.

3. SUBSTITUTIONS FOR ANY OTHER PLUG SIZE WILL REQUIRE WRITTEN APPROVAL OF THE OWNER PRIOR TO DELIVERY ON SITE.

4. PLANT MATERIALS SHALL BE NURSERY GROWN UNLESS OTHERWISE OWNER APPROVED AND SHALL BE HEALTHY AND VIGOROUS. PLANTS SHALL BE FREE FROM DEFECTS, DECAY, DISFIGURING ROOTS, SUN-SCALD, INJURIES, ABRASIONS, DISEASES, INSECT PESTS, AND FORMS OF INFESTATIONS OR OBJECTIONABLE DISFIGUREMENT AS DETERMINED BY THE OWNER.

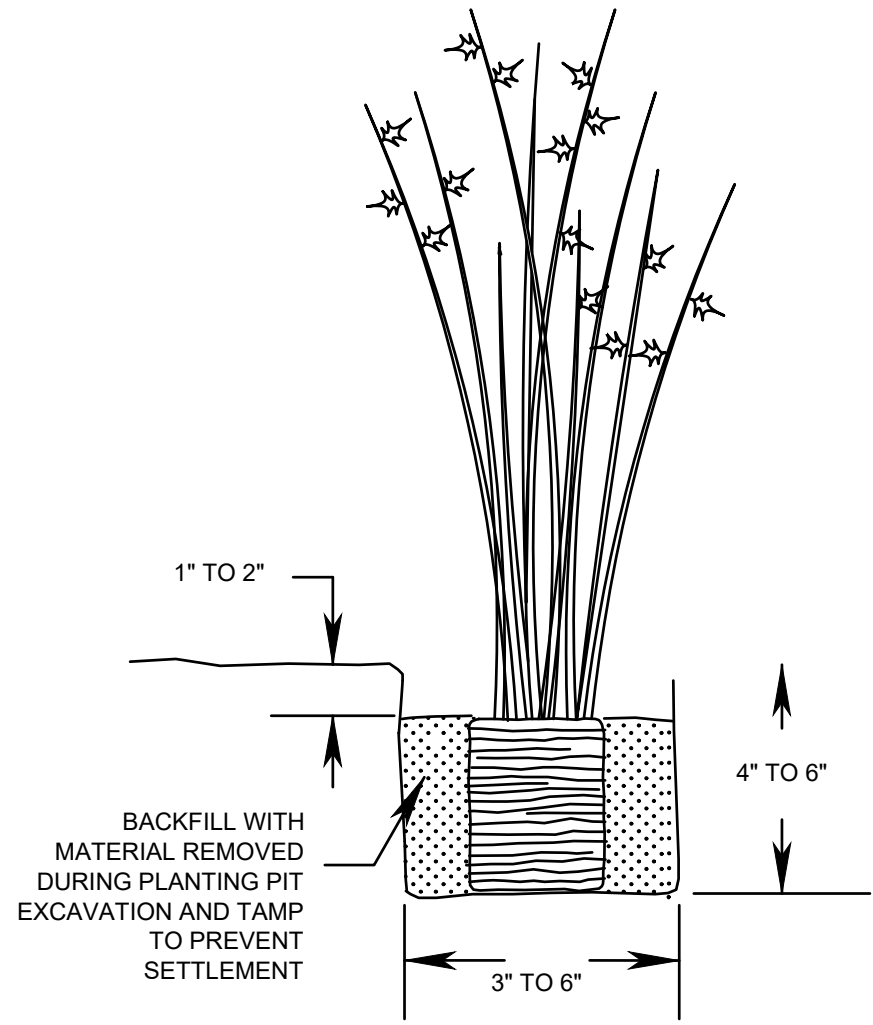
B. DELIVERY, STORAGE AND HANDLING:

- PLANTS SHALL BE PROTECTED DURING DELIVERY TO PREVENT DESICCATION OF LEAVES.
- PLANTS SHOULD BE PLANTED ON DAY OF DELIVERY. IF THIS IS NOT POSSIBLE, THE CONTRACTOR SHALL PROTECT UNPLANTED PLANTS BY KEEPING THEM IN SHADE, WATERED AND PROTECTED.
- PLANTS SHALL NOT REMAIN UNPLANTED FOR MORE THAN TWO WEEKS, SHOULD NOT SHOW SIGNS OF STRESS BEFORE PLANTING.
- UNINSTALLED PLANTS WILL BE SUBJECT TO RE-INSPECTED AND MAY BE REJECTED IF THEY HAVE DETERIORATED.

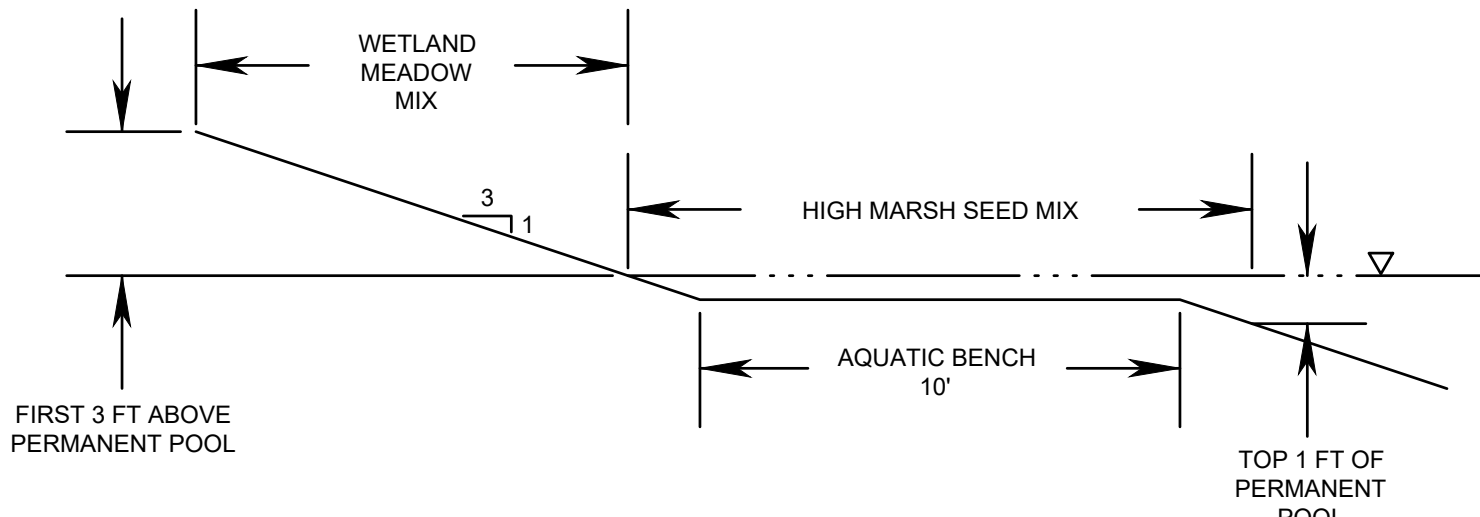
C. INSTALLATION:

- DRY CONDITIONS:
 - PLUGS SHALL BE INSTALLED AS DIRECTED IN THE CONTRACT DOCUMENTS.
 - PLUGS WILL BE ANCHORED SO THAT THEY WILL NOT FLOAT WHEN THE POOL AREA BECOMES INUNDATED (BIO-DEGRADABLE STAPLES).
 - IF POOL IS EMPTY, WATER THE PLUGS IMMEDIATELY AFTER PLANTING PER ABOVE.
 - ADDITIONAL WATERING MAY BE REQUIRED IF THE POOL IS NOT TO BE FILLED WITHIN 48 HOURS OF PLANTING.
 - NOTIFY OWNER OF ALL WATERING EVENTS.
- SUPPLY, INSTALL AND MAINTAIN GOOSE FENCING AS NEEDED TO PROTECT PLANTS IN PONDED AREAS FROM DISTURBANCE FROM AQUATIC BIRDS.

- WET CONDITIONS:
- PLUGS INSTALLED IN WET CONDITIONS IN PERMANENT POOLS SHALL BE PLANTED AS PER THE PROJECT DOCUMENTS OR IN 12 INCHES OF WATER OR LESS AS DIRECTED BY THE OWNER.
 - PLUGS INSTALLED IN WET CONDITIONS IN TEMPORARY POOLS SHALL BE INSTALLED AS DETAILED IN THE CONTRACT DOCUMENTS AND ANCHORED SO THAT THEY WILL NOT FLOAT AWAY WHILE INUNDATED (BIO-DEGRADABLE STAPLES).
 - SUPPLY, INSTALL AND MAINTAIN GOOSE FENCING AS NEEDED TO PROTECT PLANTS FROM DISTURBANCE FROM AQUATIC BIRDS.



TYPICAL HERBACEOUS PLUGS
NOT TO SCALE



CROSS SECTION - AQUATIC BENCH PLANTINGS
NOT TO SCALE

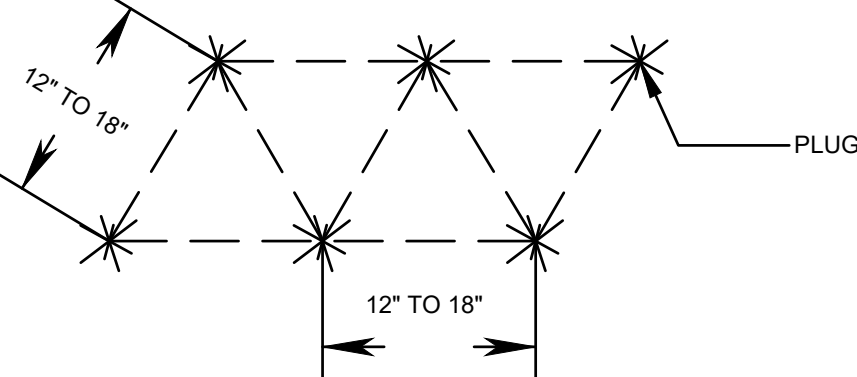
LOW MARSH PLUGS:

SCHEDULE

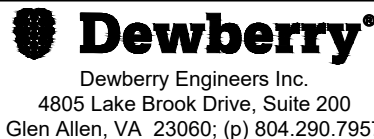
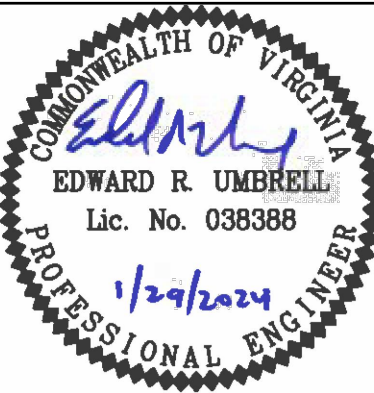

SCIENTIFIC NAME	COMMON NAME	SIZE
<i>Carex stricta</i>	TUSsock SEDGE	#SP 2 CONTAINER
<i>Eupatorium purpureum</i>	JOE PYE WEED	#SP 2 CONTAINER
<i>Hibiscus moscheutos</i>	MARSH HIBISCUS	#SP 2 CONTAINER
<i>Juncus effusus</i>	COMMON RUSH	#SP 2 CONTAINER
<i>Peltandra virginica</i>	ARROW ARUM	#SP 2 CONTAINER
<i>Pontederia cordata</i>	PICKEREL WEED	#SP 2 CONTAINER
<i>Scripus tabernaemontani</i>	SOFT STEM BULRUSH	#SP 2 CONTAINER

NOTES

- TOTAL QUANTITY OF PLUGS TO BE PROVIDED = 1,322
- ALL SPECIES LISTED TO BE EQUALLY REPRESENTED IN PLANTED INSTALLATION
- PLANT PLUGS IN GROUPINGS OF 3-5 LIKE SPECIES 12-18-INCHES ON CENTER UNLESS PLANT SCHEDULE OR LANDSCAPE ARCHITECT DIRECTS OTHERWISE (SEE EXAMPLE DIAGRAM BELOW). PLUG SPACING MAY VARY WITH SPECIES. LIKE GROUPING SPECIES SHALL BE A MINIMUM OF 24-INCHES FROM EACH OTHER.
- PLUG QUANTITIES MAY BE FIELD ADJUSTED WITH APPROVAL FROM THE LANDSCAPE ARCHITECT TO ALIGN WITH QUANTITIES AVAILABLE PER FLAT AT THE TIME OF PURCHASE.
- PLUGS SHALL BE INSTALLED MARCH 15 - MAY 31 OR SEPTEMBER 1 - NOVEMBER 15



PLUG PLANTING DETAIL
NOT TO SCALE

REVISIONS			 Dewberry Engineers Inc. 4805 Lake Brook Drive, Suite 200 Glen Allen, VA 23060; (p) 804.290.7957	
				
REV	DATE	DESCRIPTION	DEWBERRY PROJECT NO.: 50157950	
				
SWM LANDSCAPE DETAILS				
UNITY SUBSTATION				
LUNENBURG COUNTY			VIRGINIA	
OPERATIONAL REGION		B/M No.	SCALE	AS SHOWN
PROJECT 5017950	NAME	DATE	SHEET: 1707908-C-619	
DESIGNER	EU/KZ	01/29/24		
PROJECT ENGINEER	EU/KZ	01/29/24	DRAWING:	
APPROVED BY	KAS	01/29/24	1707908-C-619.dwg	

LEGEND:

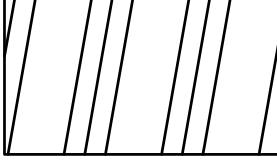
PROP. PLANT TAG- QUANTITY — XXX
KEY — XX

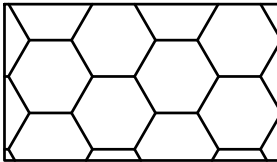
PLANT SCHEDULE					
KEY	QTY	BOTANICAL NAME	COMMON NAME	REMARKS	SIZE
SHADE TREES					
BN	9	<i>Betula nigra</i>	river birch	B&B/Multi-Stem	6-8'HT

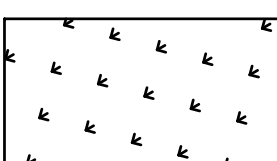
THIS SHEET IS
FOR LANDSCAPE
PURPOSES ONLY!!

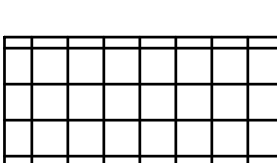
(FOR LANDSCAPE DETAILS SEE SHEET
1707908-C-619)

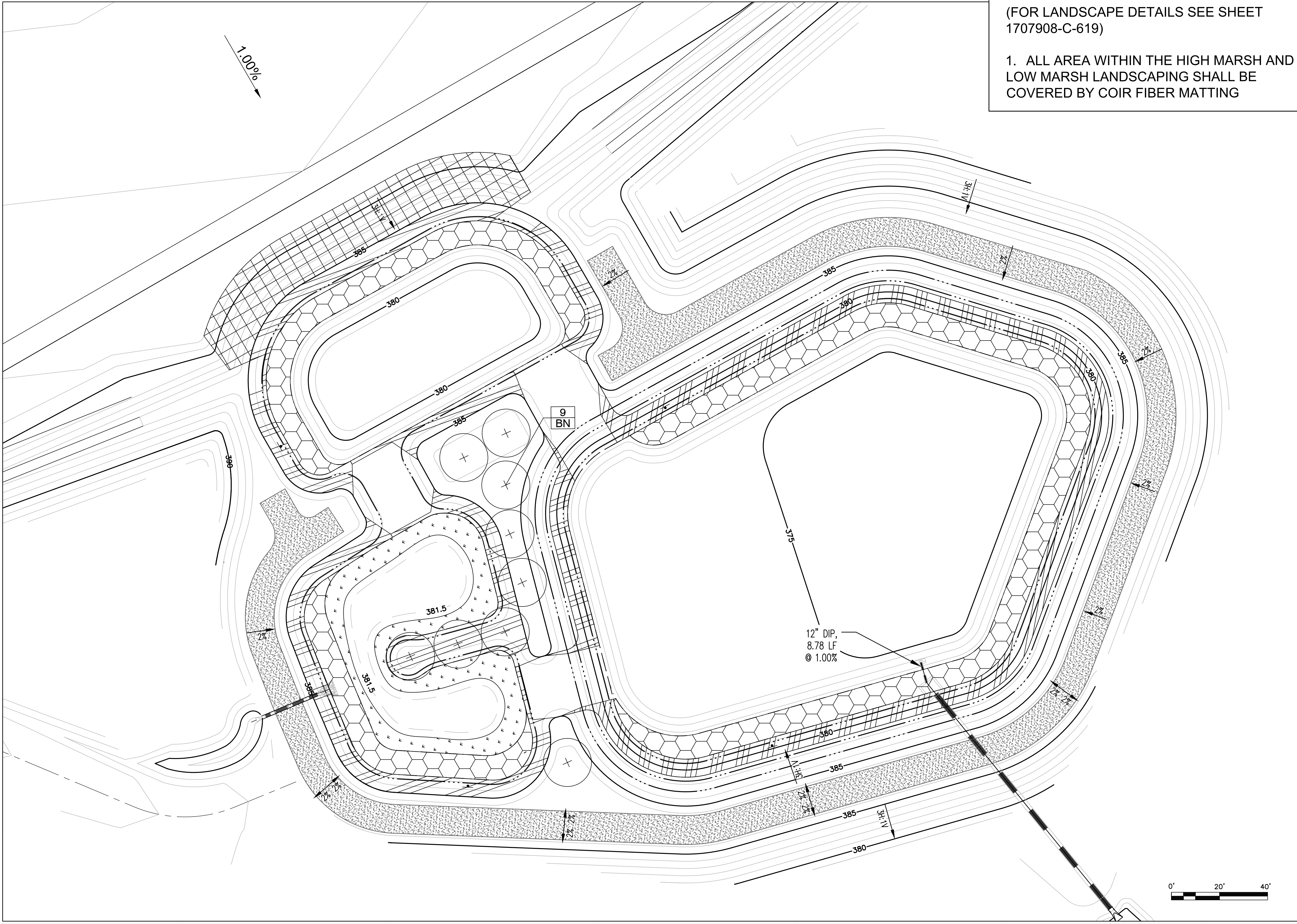
1. ALL AREA WITHIN THE HIGH MARSH AND
LOW MARSH LANDSCAPING SHALL BE
COVERED BY COIR FIBER MATTING


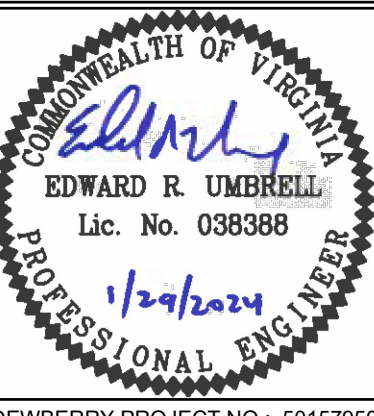

 WETLAND MEADOW MIX
(ERNMX-865)

 HIGH MARSH SEED MIX
(ERNMX-128)

 LOW MARSH PLUGS

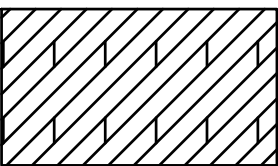
 ES-3 SOIL
STABILIZATION MAT



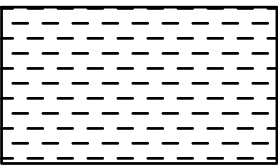
REVISIONS			 Dewberry Engineers Inc. 4805 Lake Brook Drive, Suite 200 Glen Allen, VA 23060; (p) 804.290.7957			
						
REV	DATE	DESCRIPTION	DEWBERRY PROJECT NO.: 50157950			
						
SWM LANDSCAPE PLAN						
UNITY SUBSTATION						
LUNENBURG COUNTY			VIRGINIA			
OPERATIONAL REGION	NAME	B/M No.	SCALE	1" = 20'		
PROJECT 5017950	EU/KZ	DATE 01/29/24	SHEET: 1707908-C-620			
DESIGNER	EU/KZ	01/29/24	DRAWING: 1707908-C-620.dwg			
PROJECT ENGINEER	EU/KZ	01/29/24				
APPROVED BY	KAS	01/29/24				

(FOR LANDSCAPE DETAILS SEE SHEET 1707908-C-619)

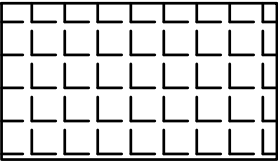
1. TOP SOIL SHALL MEET VDOT SPECIFICATIONS.
2. SEE GEOTECHNICAL RECOMMENDATIONS FOR CLAY LINER SPECIFICATIONS.
3. CLAY LINER SHALL BE UNDER ALL PERMANENT POOLS, INCLUDING WETLANDS AND SEDIMENT FOREBAYS.
4. CLAY LINER SHALL EXTEND 2' ABOVE THE 10-YEAR WATER SURFACE ELEVATION ON THE DAM EMBANKMENT.
5. 6" OF TOP SOIL SHALL BE USED UNDER ALL PERMANENT SEEDING.
6. 12" OF TOP SOIL SHALL BE USED UNDER ALL WETLANDS, LOW AND HIGH MARSH PLANTINGS.
7. RIPRAP FOR RIPRAP WEIRS SHALL BE PLACED ON AT LEAST 12" THICK CLAY LINER.
8. ALL OTHER AREAS OF THE DAM EMBANKMENT AND THE POND AREA SHALL HAVE 6" OF TOP SOIL (UNDER PERMANENT SEEDING).



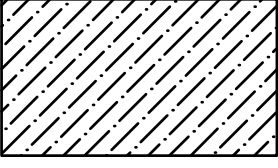
12" THICK CLAY LINER



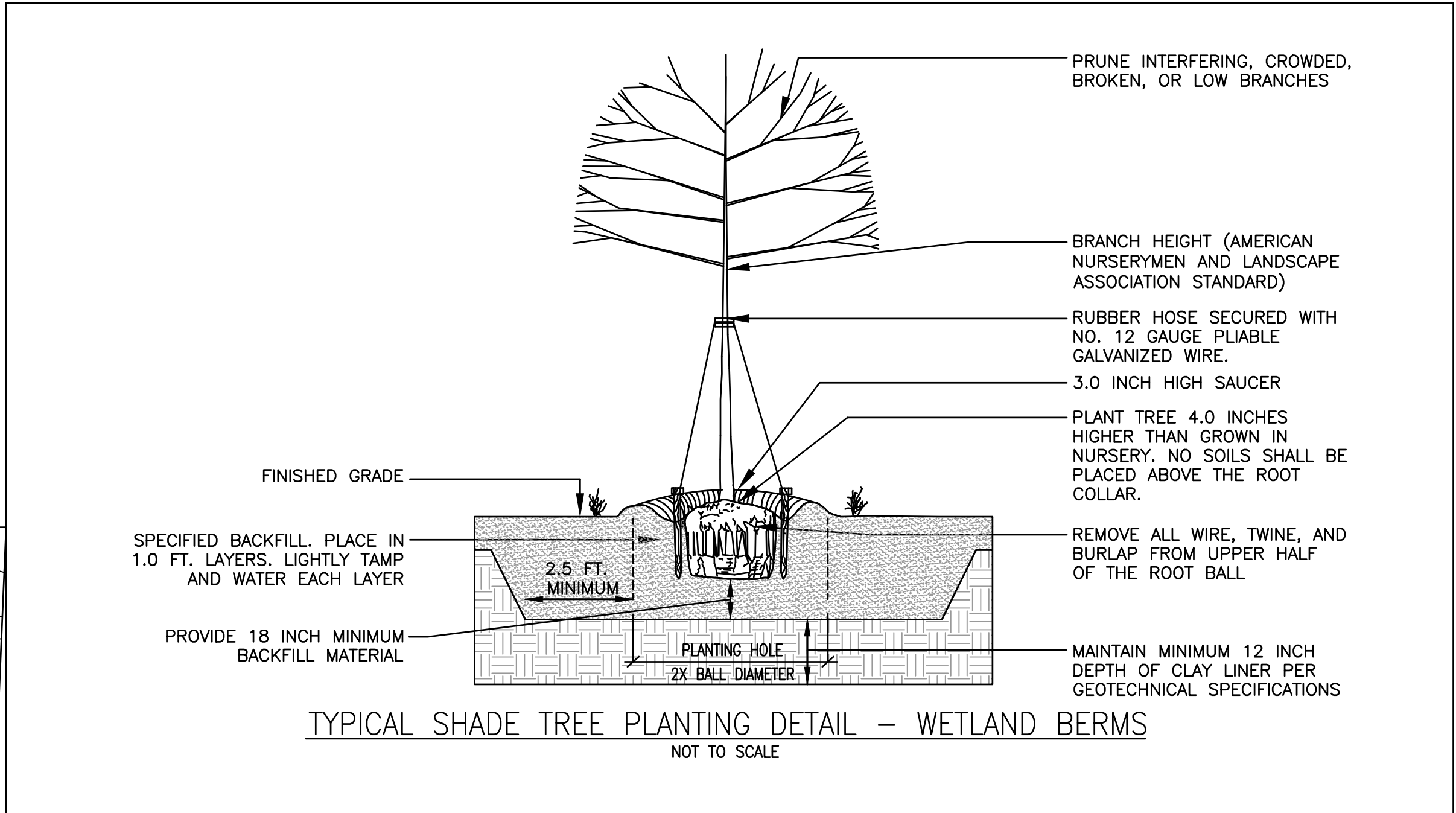
6" TOP SOIL & 12" CLAY LINER



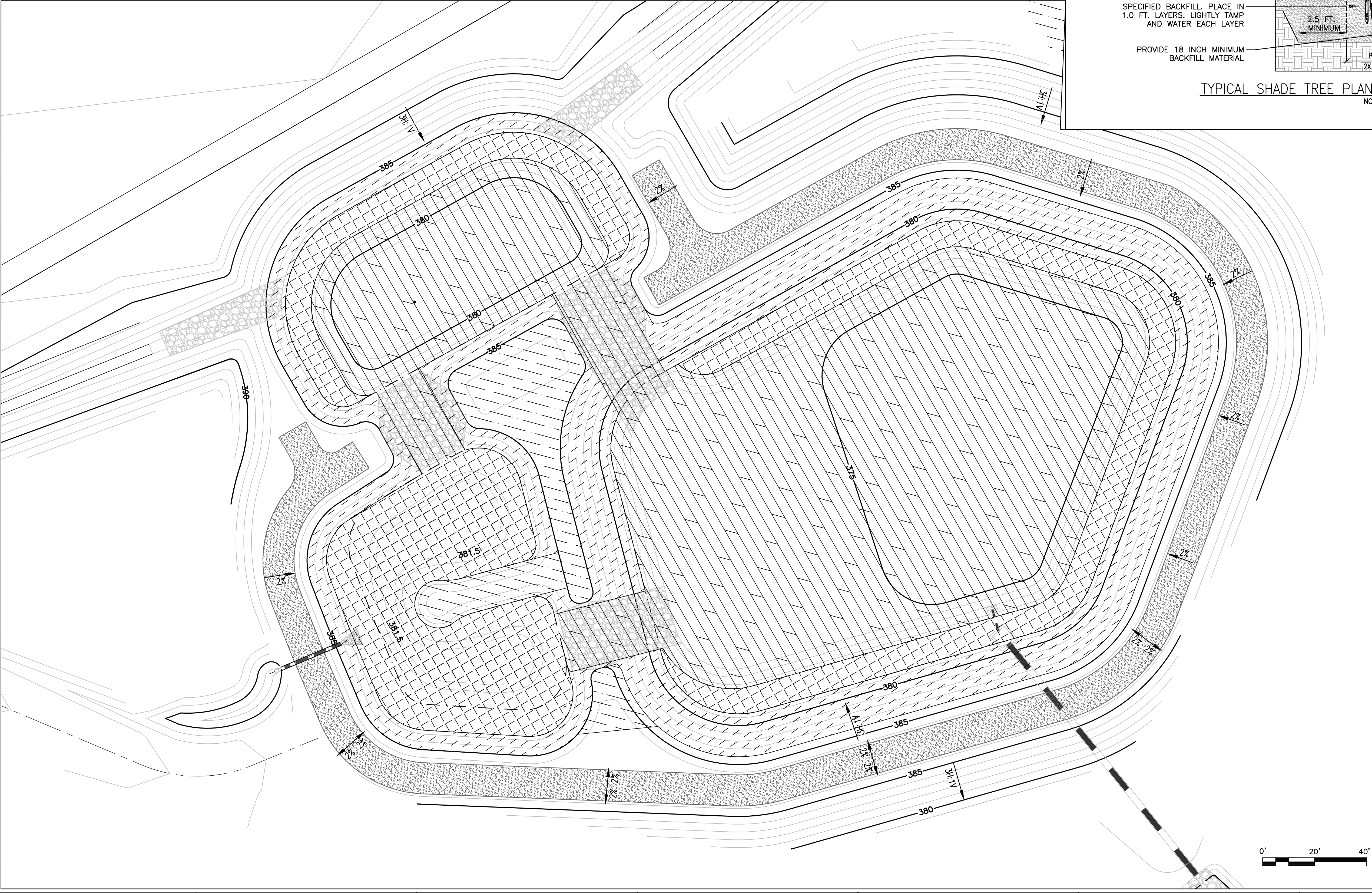
12" TOP SOIL & 12" CLAY LINER
(UNDER WETLANDS & MARSH PLANTINGS)


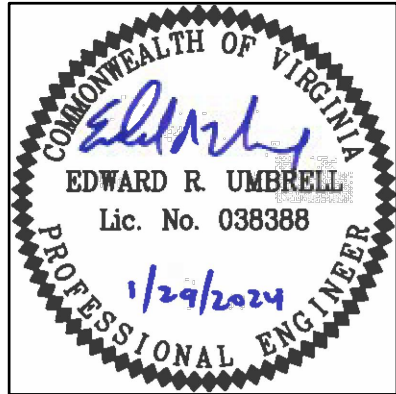



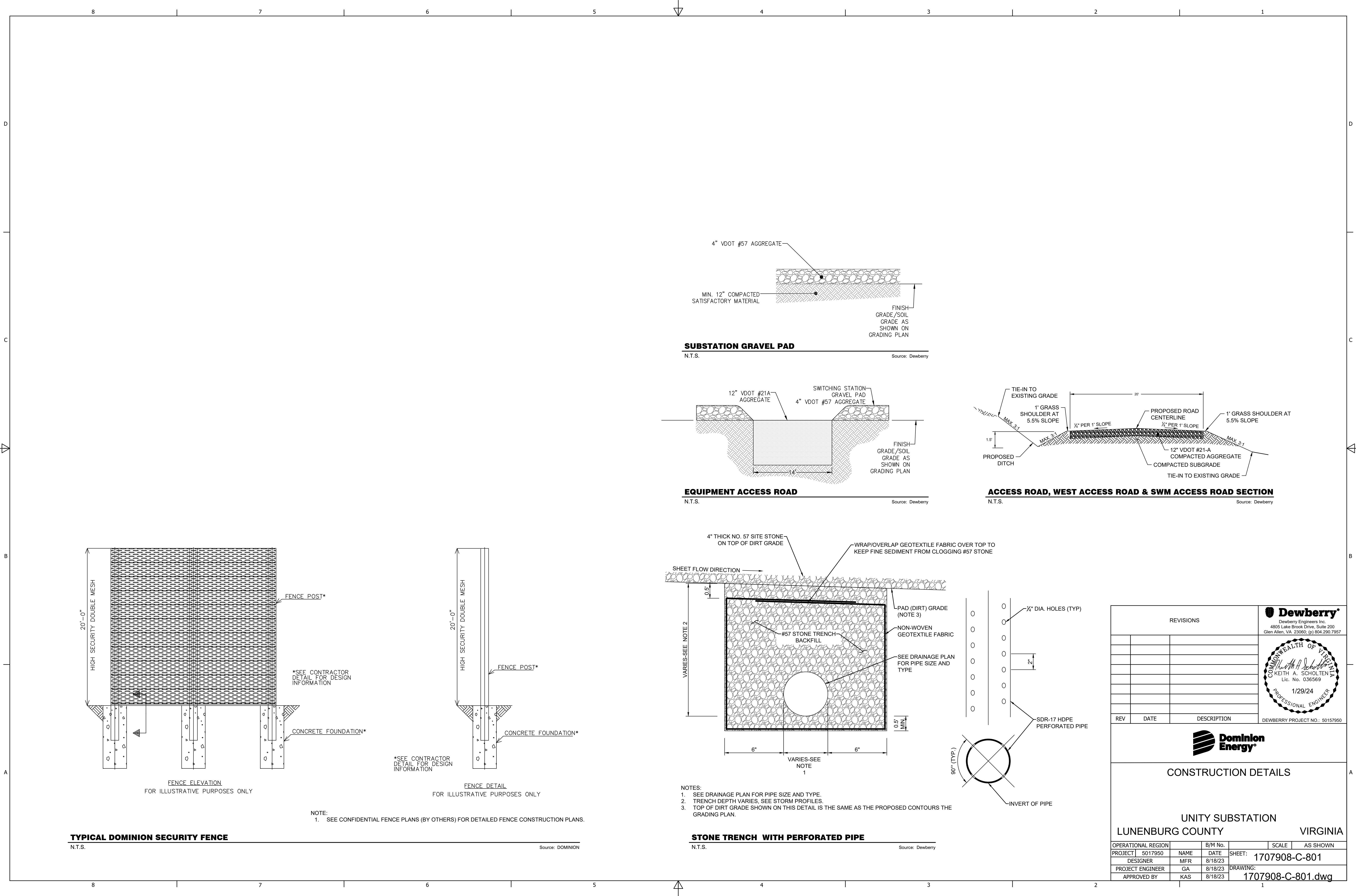
42" TOP SOIL & 12" CLAY LINER
(UNDER WETLAND BERMS)



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REVISIONS			 Dewberry Dewberry Engineers Inc. 4805 Lake Brook Drive, Suite 200 Glen Allen, VA 23060; (p) 804.290.7957	
REV	DATE	DESCRIPTION	 DEWBERRY PROJECT NO.: 50157950	
 Dominion Energy				
SWM TOP SOIL				
UNITY SUBSTATION				
LUNENBURG COUNTY			VIRGINIA	
OPERATIONAL REGION		B/M No.	SCALE	1" = 20'
PROJECT 5017950	NAME	DATE	SHEET: 1707908-C-621	
DESIGNER	EU/KZ	01/29/24	DRAWING: 1707908-C-621.dwg	
PROJECT ENGINEER	EU/KZ	01/29/24		
APPROVED BY	KAS	01/29/24		



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Rev. May 2016

Project: **UNITY SUBSTATION** Plan Sheet No. _____ Designer: _____ Sheet: _____ of _____
 ACCESS ROAD STA 23+31.5 Rev. Date: _____ Date: _____

CULVERT #1 STATION: _____

HYDROLOGICAL DATA:
 D.A. = 27.55 AC. Tc = 22 mins
 i10 = 4.03
 i100 = 5.38
 C = 0.38

ADIT _____, Length _____

DISCHARGES USED: Q 10 = 42.19 CFS
 Q 100 = 56.32 CFS
 Q 1000 = 56.32 CFS
 Q 10000 = 56.32 CFS

RISK ASSESSMENT: Detours Available _____
 Overlapping Stages _____
 Flood Plain Management _____
 Criteria and Significant Impact _____

HEADWATER COMPUTATIONS: INLET CONTROL OUTLET CONTROL
 H.W/D INLET HW/Ka ds (ds+D)/2 ho H LSo HW/ELEV C.M. Smooth

CONT. OUTLET
 HW VELOCITY
 ELEV C.M. Smooth

End Treat

COMMENTS

(2) - 24" RCP* 42.19 21.1 1.55 3.1 0.5 1.6 1.8 1.8 1.35 0.4 2.75 381.7

(2) - 24" RCP* 56.32 28.16 2.35 4.7 0.5 1.9 1.95 1.95 2.55 0.4 4.1 383.3

*NOTE: THERE ARE DUAL 30" CULVERTS THAT ARE COUNTERSUNK 6". THEREFORE THE CALCULATIONS ARE BASED ON 24" CULVERTS.

SUMMARY & RECOMMENDATIONS:

Design Flood Exceed: Prob. Elev. _____
 Overtop Flood Exceed: Prob. Elev. _____
 Base Flood 1% Exceed: Prob. Elev. _____

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Rev. May 2016

Project: **UNITY SUBSTATION** Plan Sheet No. **386.2** Designer: _____ Sheet: _____ of _____
 Rev. Date: _____ Date: _____

ACCESS ROAD STA 26+16.8

CULVERT #2 STATION: _____

HYDROLOGICAL DATA:
 D.A. = 3.49 AC. Tc = 17 mins
 110= 4.58
 1100=6.06
 C=0.29

100 yr. Flood plain elev. _____
 Design AHW depth elev. _____
 Structures elev. _____ freq. _____ TW elev. _____

Shoulder elev. 386.72

CL elev. 386.92

Skew _____ ft. Cover _____ ft.

Invert 382.14 Slope 0.01 Invert 381.72
 Orig. Gr. Elev. = 42 Orig. Gr. Elev. =

DISCHARGES USED RISK ASSESSMENT ADT _____

Q 10 = 4.64 CFS
 Q 100 = 6.13 CFS
 Q _____ = _____ CFS
 Q _____ = _____ CFS
 Q _____ = _____ CFS

Detours Available _____
 Overlapping Slage _____ Length _____
 Flood Plain Management _____
 Criteria and Significant Impact _____

HEADWATER COMPUTATIONS

CULVERT TYPE & SIZE	Q	QIB	INLET CONTROL		OUTLET CONTROL										CONT HW ELEV	OUTLET VELOCITY C.M. Smooth	End Treat	COMMENTS
			HW	HW	Ks	ds	(ds+D)/2	no	H	LSO	HW	HW	HW	HW				
15" RCP	4.64	4.64	1.1	1.4	0.5	0.6	0.9	0.9	0.4	0.4	0.9							
15" RCP	6.13	6.13	1.3	1.6	0.5	0.9	1.1	1.1	0.8	0.4	1.5							

SUMMARY & RECOMMENDATIONS:

Design Flood Exceeds Prob. Elev. _____
 Overtop Flood Exceed Prob. Elev. _____
 Base Flood 1% Exceed Prob. Elev. _____

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Rev. May 2016

Project: **UNITY SUBSTATION**
Access Road STA 31+32

Plan Sheet No. _____
Rev. Date _____

Designer _____
Date _____

Sheet _____ of _____

CULVERT # _____

STATION: _____

HYDROLOGICAL DATA:
D.A. = 0.74 AC. Tc = 14 mins
110=5.16
1100=6.77
C=0.29

At-WW Controls:
100 yr. Flood plain elev. _____
Design A-HW depth elev. _____
Structures elev. _____

freq. _____
TW/elev. _____

Shoulder elev. 398.1

CL elev. 398.3

Skew _____
Cover _____
ft. _____

Inv. El. 394.02
Crg. Gr. Elev. _____

Slope 0.015
L=31'

Inv. El. 393.55
Crg. Gr. Elev. _____

DISCHARGES USED: _____

RISK ASSESSMENT: _____

ADT _____

Detours Available _____
Overlapping Stage _____
Flood Plain Management _____
Criteria and Significant Impact _____

Q 10 = 1.11 CFS
Q 100 = 1.45 CFS
Q 1000 = _____ CFS
Q = _____ CFS

HEADWATER COMPUTATIONS

CULVERT TYPE & SIZE	Q	Q INLET CONT.	INLET CONTROL				OUTLET CONTROL				CONT. HW ELEV.	OUTLET VELOCITY C.M. Smooth	End Treat	COMMENTS	
			HW/D	HW	Ke	ds	(dc+D)/2	no	H	LSO					HW
15" RCP	1.11	1.11	0.4	0.5	0.5	0.5	0.9	0.9	0	0.5	0.4				
15" RCP	1.45	1.45	0.5	0.6	0.5	0.5	0.9	0.9	0	0.5	0.4				

SUMMARY & RECOMMENDATIONS:

Design Flood Exceed. Prob. _____ Elev. _____
 Overtop Flood Exceed. Prob. _____ Elev. _____
 Base Flood 1% Exceed. Prob. _____ Elev. _____

[illegible]

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Rev. May 2016

Project **UNITY SUBSTATION** Plan Sheet No. _____ Designer _____
 West Access Road STA 00+69.8 Rev. Date _____ Date _____ Sheet _____ of _____

CULVERT #5 STATION: _____

HYDROLOGICAL DATA:
 D.A. = 0.15 AC. Tc = 5 mins
 I10 = 7.06
 I100 = 9.15
 C = 0.46

100 yr. Flood plain elev. _____
 Design A-H/W depth elev. _____
 Structures elev. _____ freq. _____ TWalelev. _____

Shoulder elev. 398.55
 Cl. elev. 398.69
 Skew _____ Cover _____ ft. _____

Inv. El. 394.11
 Orig. Gr. Elev. 0.013
 So. Ls. 43.50
 Inv. El. 393.54
 Orig. Gr. Elev. _____

DISCHARGES USED RISK ASSESSMENT

Q 10 = 0.49 CFS
 Q 100 = 0.63 CFS
 Q = _____ CFS
 Q = _____ CFS
 Q = _____ CFS

ADT _____ Length _____
 Detours Available _____
 Overtopping Stage _____
 Flood Plain Management _____
 Criteria and Significant Impact _____

HEADWATER COMPARISONS

CULVERT TYPE & SIZE	Q	Q/B	INLET CONT.		OUTLET CONTROL								CONT. HW/ ELEV	OUTLET VELOCITY C.M./ Smooth	End Treat	COMMENTS
			HW/D	HW	Ke	ds	(ds+D)/2	no	H	LS0	HW					
15" RCP	0.49	0.49	0.4	0.5	0.5	0.5	0.9	0.9	0	0.6	0.3					
15" RCP	0.63	0.63	0.4	0.5	0.5	0.5	0.9	0.9	0	0.6	0.3					

SUMMARY & RECOMMENDATIONS:

Design Flood Exceeds Prob. _____ Elev. _____
 Overtop Flood Exceed Prob. _____ Elev. _____
 Base Flood 1% Exceed Prob. _____ Elev. _____

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Rev. May 2016

Project: **UNITY SUBSTATION** Plan Sheet No. _____ Designer: _____ Sheet _____ of _____
WEST ACCESS ROAD STA 11+35 Rev. Date _____ Date _____

CULVERT #6 STATION: _____

HYDROLOGICAL DATA:
 D.A. = 1.77 AC. Tc = 17 mins
 i10 = 4.58
 i100 = 6.06
 C = 0.51

DISCHARGES USED: **RISK ASSESSMENT:** /ADT: _____
 Q 10 = 413 CFS Detours Available _____ Length _____
 Q 100 = 547 CFS Overtopping Stage _____
 Q = _____ Flood Plain Management _____
 Q = _____ Criteria and Significant Impact _____
 Q = _____ CFS

HEADWATER COMPUTATIONS
 CULVERT TYPE & SIZE: Q QIB INLET CONTROL HWWD HW Ke do (dc+D)/2 bo H LSO HWW CONT HW VEL C.O.V. OUTLET VEL C.O.V. End Rest COMMENTS
 (ELEV.) (ELEV.)

CULVERT TYPE & SIZE	Q	QIB	INLET CONTROL	HWWD	HW	Ke	do	(dc+D)/2	bo	H	LSO	HWW	CONT	HW	VEL	C.O.V.	OUTLET	VEL	C.O.V.	End Rest	COMMENTS
15" RCP	4.13	4.13	1.0	1.25	0.5	0.9	1.08	1.08	0.4	0.35	1.13										
15" RCP	5.47	5.47	1.3	1.63	0.5	1.0	1.13	1.13	0.7	0.35	1.48										

Diagram: A cross-section diagram of a culvert. The left side is labeled "Shoulder elev. 392.16". The right side is labeled "ft.". The top of the culvert is labeled "C.L. elev. 392.36". The bottom of the culvert is labeled "Cover". The left side of the culvert is labeled "Skew". The right side of the culvert is labeled "ft.". The bottom of the culvert is labeled "Inv. El. 388.37" and "Orig. Gr. Elev. 388.02". The bottom of the culvert is labeled "Slope 0.009" and "L= 38'".

SUMMARY & RECOMMENDATIONS:

Design Flood Exceed Prob. Elev. _____
 Overtop Flood Exceed Prob. Elev. _____
 Base Flood 1% Exceed Prob. Elev. _____

SUBSTATION INTERIOR STORM SEWER																
Design Storm Year = 10																
POINT	DOWNSTREAM	DRAIN	RUNOFF	CA	INLET	RAIN	RUNOFF	INVERT	LENGTH	SLOPE	DIA	CAPA-	VEL	FLOW	REMARKS	
	STRUCTURE	AREA	COEFF.	INCR	ACCUM	TIME	FALL	Q	ELEVATIONS			CITY	TIME			
		ACRES	C			MIN	IN/IR	C.F.S.	UPPER	LOWER	FEET	FT./FT.	INCHES	C.F.S.	F.P.S.	SEC
14		0.96	0.90	0.86	0.86	5.00	7.02	6.1								
	13								395.00	394.19	161.50	0.0050	18	8.0	5.0	32.4
13		0.70	0.90	0.63	1.49	5.54	6.85	10.2								
	12								393.69	392.99	140.00	0.0050	24	17.3	5.7	24.4
12		0.00	0.00	0.00	1.49	5.95	6.72	10.2								
	11								392.89	389.29	245.06	0.0147	24	27.4	8.1	30.4
11		0.00	0.00	0.00	2.77	6.45	6.57	18.2								
	10								389.19	388.04	229.17	0.0050	30	29.0	6.2	36.8
24 x 36 ELLIPTICAL PIPE																
16		0.84	0.90	0.76	0.76	5.00	7.02	5.3								
	15								392.60	391.87	147.00	0.0050	18	8.0	4.9	30.3
15		0.58	0.90	0.52	1.28	5.50	6.86	8.8								
	11								391.37	390.60	154.00	0.0050	24	17.3	5.5	27.9
24		0.96	0.90	0.86	0.86	5.00	7.02	6.1								
	23								395.00	394.19	161.50	0.0050	18	8.0	5.0	32.4
23		0.69	0.90	0.62	1.49	5.54	6.85	10.2								
	22								393.69	393.00	138.20	0.0050	24	17.3	5.7	24.1
22		0.00	0.00	0.00	1.49	5.94	6.72	10.2								
	21								392.90	389.29	224.08	0.0161	24	28.7	8.4	26.8
21		0.00	0.00	0.00	2.75	6.39	6.59	18.1								
	20								389.19	388.04	229.38	0.0050	30	29.0	6.2	36.9
24 x 36 ELLIPTICAL PIPE																
26		0.84	0.90	0.76	0.76	5.00	7.02	5.3								
	25								392.60	391.87	147.00	0.0050	18	8.0	4.9	30.3
25		0.57	0.90	0.51	1.27	5.50	6.86	8.7								
	21								391.37	390.60	152.20	0.0050	24	17.3	5.5	27.6

ID-399
 Rev. May 2016
 Project: **UNITY SUBSTATION**
 SWM ACCESS ROAD STA 05+56
 Plan Sheet No. _____ Designer _____
 Rev. Date _____ Date _____
 Sheet _____ of _____

CULVERT #7
 HYDROLOGICAL DATA:
 Tc = 13 mins
 D.A. = 0.93 AC
 110=5.16
 1100=6.77
 C=0.42

DISCHARGES USED
 Q @ 10 = 2.02 CFS
 Q @ 100 = 7.64 CFS
 Q @ _____ = _____ CFS
 Q @ _____ = _____ CFS

RISK ASSESSMENT
 ADT _____
 Detours Available _____
 Overlapping Stage _____
 Flood Plain Management _____
 Criteria and Significant Impact _____

HEADWATER COMPUTATIONS
 CULVERT TYPE & SIZE: Q O/S INLET CONT. OUTLET CONTROL
 15" RCP 2.02 2.02 0.6 0.8 0.5 0.6 1.2 1.2 0 0.4 0.8
 15" RCP 2.64 2.64 0.7 0.9 0.5 0.6 1.2 1.2 0 0.4 0.8

STATIONING
 A-H-W Controls
 100 yr. Flood plain elev. _____
 Design AHW (depth) elev. _____
 Structures elev. _____
 Shoulder elev. 382.95
 CL elev. 383.15
 Skew _____
 Cover ft. _____
 Inv. El. 379.13
 Org. Gr. Elev. _____
 Slope = 0.011
 L= 38'
 Inv. El. 378.73
 Org. Gr. Elev. _____

COMMENTS
 Design Flood Exceeded Prob. Elev. _____
 Overtop Flood Exceeded Prob. Elev. _____
 Base Flood 1% Exceed. Prob. Elev. _____

SUMMARY & RECOMMENDATIONS:

[illegible][illegible]

LD-269
Rev. May 2016

Project UNITY SUBSTATION Plan Sheet No. _____ Designer _____ Date _____ Sheet _____ of _____

Access Road STA 37+58.61

CULVERT #9

HYDROLOGICAL DATA:
D.A. = 0.58 AC To = 5 mins
100-yr Flood plain elev. = 107.06
100-yr Flood plain elev. = 100+15
C=0.58

STATION: _____

AHW Controls _____ elev. _____
Design AHW depth _____ elev. _____
Structures _____ elev. _____

freq. _____ TW elev. _____
_____ elev. _____
_____ elev. _____
_____ elev. _____
_____ elev. _____

Shoulder elev. 996.97

CL elev. 997.15

Skew _____ Cover _____ ft. _____

Inv. El. 993.65 Slo. 0.01 Inv. El. 993.33
Orig. Gr. Elev. 32.5

DISCHARGES USED _____ ADT _____ Length _____

RISK ASSESSMENT


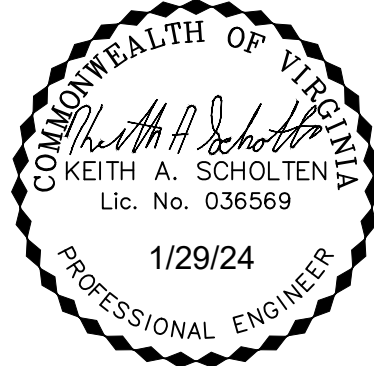

Q 10 = 2.37 CFS Detours Available _____
Q 100 = 3.08 CFS Overtopping Stage _____
Q _____ CFS Flood Plain Management _____
Q _____ CFS Criteria and Significant Impact _____
Q _____ CFS _____

HEADWATER CALCULATIONS

CULVERT TYPE & SIZE	Q	Q/B	INLET CONTROL		OUTLET CONTROL						CONT. HW. ELEV.	OUTLET VELOCITY C.M. Smooth	Eng. Treat	COMMENTS	
			HW/D	HW	Ke	do	(do+D)/2	ho	H	LSO					HW
15" RCP	2.37	2.37	0.65	0.81	0.5	0.6	0.93	0.93	0	0.32	0.61				
15" RCP	3.08	3.08	0.75	0.75	0.5	0.6	0.93	0.93	0	0.32	0.61				

SUMMARY & RECOMMENDATIONS:

Design Flood Exceed. Prob. _____ Elev. _____
Overtop Flood Exceed. Prob. _____ Elev. _____
Base Flood 1% Exceed. Prob. _____ Elev. _____

<div style="text-align: center;">  Dewberry[®] Dewberry Engineers Inc. 4805 Lake Brook Drive, Suite 200 Glen Allen, VA 23060 (p) 804.290.7957 </div>			
<div style="text-align: center;">  </div>			
DEWBERRY PROJECT NO.: 50157950			
<div style="text-align: center;">  </div>			
<h2 style="margin: 0;">DRAINAGE CALCULATIONS</h2>			
<h3 style="margin: 0;">UNITY SUBSTATION</h3>			
LUNENBURG COUNTY		VIRGINIA	
OPERATING REGION		B/M No.	SCALE AS SHOWN
PROJECT	5017950	NAME	DATE
DESIGNER		MFR	8/18/23
PROJECT ENGINEER		GA	8/18/23
APPROVED BY		KAS	8/18/23
SHEET:		1707908-C-901	
DRAWING:		1707908-C-901.dwg	




Access Road				Hydrology																Ditch Geometry										Hydraulics									
From Station	To Station	LT RT	Invert Upstream Downstream	Area 1 (acres)	C 0.9	Area 2 (acres)	C 0.5	Area 3 (acres)	C 0.3	Incr CA	Total CA	Tc 10 yr (min)	Tc 2 yr (min)	10 yr i (in/hr)	2 yr i (in/hr)	10 yr Q (cfs)	2 yr Q (cfs)	Bottom B (ft)	Depth Y (ft)	Left Slope (H/V)	Right Slope (H/V)	Lining Type	Lining Width (ft)	n	Ditch Curve? R _a (ft)	Ditch Slope (ft/ft)	10 yr Depth (ft)	10 yr Velocity (ft/sec)	2 yr Depth (ft)	2 yr Velocity (ft/sec)	Tractive Force "t" (lbs/ft ²)	Lining Adeq? (Max V)	Lining Adeq? (Max Tailow)	Free-board (ft)	Capacity Adeq?				
000+75.00	001+00.00	LT	450.39 448.21	0.041	0.90	0.052	0.50	0.253	0.30	0.138	0.138	13.00	13.00	5.16	3.90	0.71	0.54	0.00	1.50	3.00	3.00	2-EC-2 Ty2	2	0.045	NA	0.087	0.30	2.66	0.27	2.46	0.77	YES	YES	1.20	YES				
001+00.00	002+00.00	LT	448.21 442.16	0.039	0.90	0.143	0.50	0.039	0.30	0.119	0.257	8.00	8.00	6.18	4.73	1.59	1.22	0.00	1.50	3.00	3.00	2-EC-2 Ty2	3	0.045	NA	0.060	0.43	2.83	0.39	2.64	0.78	YES	YES	1.07	YES				
002+00.00	003+00.00	LT	442.16 439.30	0.046	0.90	0.285	0.50	0.262	0.30	0.263	0.520	13.00	13.00	5.16	3.90	2.68	2.03	0.00	1.50	3.00	3.00	2-EC-2 Ty2	4	0.045	NA	0.029	0.61	2.44	0.54	2.26	0.51	YES	YES	0.89	YES				
003+00.00	004+00.00	LT	439.30 436.97	0.045	0.90	0.431	0.50	0.364	0.30	0.366	0.885	12.00	12.00	5.33	4.04	4.72	3.58	0.00	1.50	3.00	3.00	2-EC-2 Ty2	5	0.045	NA	0.023	0.78	2.61	0.70	2.42	0.54	YES	YES	0.72	YES				
004+00.00	005+00.00	LT	436.97 435.02	0.041	0.90	0.605	0.50	0.316	0.30	0.434	1.319	13.00	13.00	5.16	3.90	6.81	5.15	0.00	1.50	3.00	3.00	2-EC-2 Ty2	6	0.045	NA	0.020	0.92	2.65	0.83	2.47	0.53	YES	YES	0.58	YES				
005+00.00	006+00.00	LT	435.02 433.39	0.028	0.90	0.391	0.50	0.075	0.30	0.243	1.563	13.00	13.00	5.16	3.90	8.06	6.10	0.00	1.50	3.00	3.00	2-EC-2 Ty2	6	0.045	NA	0.016	1.03	2.61	0.92	2.42	0.49	YES	YES	0.48	YES				
006+00.00	007+00.00	LT	433.39 431.90	0.025	0.90	0.142	0.50	0.000	0.30	0.094	1.657	9.00	9.00	5.94	4.53	9.84	7.51	0.00	1.50	3.00	3.00	2-EC-2 Ty2	7	0.045	NA	0.015	1.12	2.64	1.01	2.47	0.49	YES	YES	0.38	YES				
007+00.00	008+00.00	LT	431.90 430.28	0.025	0.90	0.028	0.50	0.000	0.30	0.037	1.693	5.00	5.00	7.06	5.44	11.95	9.21	0.00	1.50	3.00	3.00	2-EC-2 Ty2	7	0.045	NA	0.016	1.18	2.86	1.08	2.68	0.57	YES	YES	0.32	YES				
008+00.00	009+00.00	LT	430.28 427.72	0.025	0.90	0.025	0.50	0.000	0.30	0.035	1.729	5.00	5.00	7.06	5.44	12.20	9.41	0.00	1.50	3.00	3.00	2-EC-2 Ty2	7	0.045	NA	0.026	1.09	3.41	0.99	3.20	0.83	YES	YES	0.41	YES				
009+00.00	010+00.00	LT	427.72 425.64	0.025	0.90	0.036	0.50	0.000	0.30	0.040	1.769	5.00	5.00	7.06	5.44	12.49	9.63	0.00	1.50	3.00	3.00	2-EC-2 Ty2	7	0.045	NA	0.021	1.14	3.16	1.03	2.96	0.70	YES	YES	0.36	YES				
010+00.00	011+00.00	LT	425.64 422.94	0.025	0.90	0.030	0.50	0.005	0.30	0.039	1.808	5.00	5.00	7.06	5.44	12.76	9.84	0.00	1.50	3.00	3.00	2-EC-2 Ty2	7	0.045	NA	0.027	1.10	3.52	1.00	3.30	0.88	YES	YES	0.40	YES				
011+00.00	012+00.00	LT	422.94 420.14	0.025	0.90	0.029	0.50	0.000	0.30	0.037	1.845	5.00	5.00	7.06	5.44	13.03	10.04	0.00	1.50	3.00	3.00	2-EC-2 Ty2	7	0.045	NA	0.028	1.10	3.58	1.00	3.36	0.91	YES	YES	0.40	YES				
012+00.00	012+50.00	LT	420.14 419.05	0.013	0.90	0.003	0.50	0.000	0.30	0.013	1.858	5.00	5.00	7.06	5.44	13.12	10.11	0.00	1.50	3.00	3.00	2-EC-2 Ty2	7	0.045	NA	0.022	1.16	3.27	1.05	3.06	0.75	YES	YES	0.34	YES				
025+50.00	026+25.00	LT	385.66 382.18	0.025	0.90	0.039	0.50	0.461	0.30	0.180	0.180	15.00	15.00	4.85	3.65	0.87	0.66	0.00	1.50	3.00	3.00	2-EC-2 Ty2	3	0.045	NA	0.046	0.37	2.22	0.33	2.05	0.50	YES	YES	1.13	YES				
026+25.00	027+00.00	LT	385.71 382.18	0.018	0.90	0.038	0.50	0.557	0.30	0.202	1.051	15.00	15.00	4.85	3.65	5.10	3.84	0.00	1.50	3.00	3.00	2-EC-2 Ty2	5	0.045	NA	0.047	0.70	3.44	0.63	3.21	0.98	YES	YES	0.80	YES				
027+00.00	028+00.00	LT	387.32 385.71	0.025	0.90	0.043	0.50	0.146	0.30	0.088	0.849	12.00	12.00	5.33	4.04	4.53	3.43	0.00	1.50	3.00	3.00	2-EC-2 Ty2	5	0.045	NA	0.016	0.83	2.24	0.74	2.09	0.39	YES	YES	0.68	YES				
028+00.00	029+00.00	LT	388.93 387.32	0.025	0.90	0.035	0.50	0.616	0.30	0.225	0.761	15.00	15.00	4.85	3.65	3.69	2.78	0.00	1.50	3.00	3.00	2-EC-2 Ty2	5	0.045	NA	0.016	0.76	2.12	0.68	1.98	0.36	YES	YES	0.74	YES				
029+00.00	030+00.00	LT	390.67 388.93	0.025	0.90	0.037	0.50	0.278	0.30	0.124	0.536	12.00	12.00	5.33	4.04	2.86	2.17	0.00	1.50	3.00	3.00	2-EC-2 Ty2	4	0.045	NA	0.017	0.68	2.06	0.62	1.92	0.35	YES	YES	0.82	YES				
030+00.00	031+00.00	LT	393.37 390.67	0.025	0.90	0.044	0.50	0.280	0.30	0.128	0.412	11.00	11.00	5.52	4.19	2.27	1.73	0.00	1.50	3.00	3.00	2-EC-2 Ty2	4	0.045	NA	0.027	0.58	2.28	0.52	2.12	0.46	YES	YES	0.93	YES				
031+00.00	032+00.00	LT	394.88 393.37	0.025	0.90	0.070	0.50	0.409	0.30	0.180	0.284	15.00	15.00	4.85	3.65	1.38	1.04	0.00	1.50	3.00	3.00	2-EC-2 Ty2	4	0.045	NA	0.015	0.53	1.62	0.48	1.52	0.24	YES	YES	0.97	YES				
032+00.00	033+00.00	LT	397.09 394.88	0.023	0.90	0.037	0.50	0.213	0.30	0.103	0.103	15.00	15.00	4.85	3.65	0.50	0.38	0.00	1.50	3.00	3.00	2-EC-2 Ty2	2	0.045	NA	0.022	0.34	1.46	0.31	1.36	0.22	YES	YES	1.16	YES				
033+00.00	034+00.00	LT	397.09 391.63	0.026	0.90	0.053	0.50	0.248	0.30	0.125	0.125	15.00	15.00	4.85	3.65	0.60	0.46	0.00	1.50	3.00	3.00	2-EC-2 Ty2	2	0.045	NA	0.055	0.31	2.14	0.28	1.98	0.50	YES	YES	1.19	YES				
034+00.00	035+00.00	LT	391.63 387.64	0.026	0.90	0.067	0.50	0.019	0.30	0.063	0.188	11.00	11.00	5.52	4.19	1.04	0.79	0.00	1.50	3.00	3.00	2-EC-2 Ty2	3	0.045	NA	0.040	0.40	2.18	0.36	2.02	0.47	YES	YES	1.10	YES				
035+00.00	036+00.00	LT	391.45 387.64	0.025	0.90	0.065	0.50	0.007	0.30	0.057	0.248	5.00	5.00	7.06	5.44	1.75	1.35	0.00	1.50	3.00	3.00	2-EC-2 Ty2	3	0.045	NA	0.038	0.49	2.44	0.44	2.27	0.55	YES	YES	1.01	YES				
036+00.00	000+50.00	LT	393.28 391.45	0.035	0.90	0.040	0.50	0.078	0.30	0.075	0.191	5.00	5.00	7.06	5.44	1.35	1.04	0.00	1.50	3.00	3.00	2-EC-2 Ty2	3	0.045	NA	0.036	0.45	2.23	0.41	2.09	0.48	YES	YES	1.05	YES				
000+50.00	001+50.00	LT	400.00 393.28	0.025	0.90	0.054	0																																

Lunenburg Planning Office
Application for Conditional Use Permit for Solar Facilities
Case Number: _____ (Office Use Only)

Section 1

Applicant Name: Virginia Electric and Power Company dba Dominion Energy Virginia

Owner Name: Kevin L. Fields - Authorized Representative

Owner Signature: 

Contact Name for Application: Chuck Weil


Physical and Mailing Address: 5000 Dominion BLVD, 3rd Floor, Glen Allen, VA 23060

Phone Number: (804) 239-6450

Email Address: Charles.H.Weil@Dominionenergy.com

Fax Number (if applicable): _____

Power of Attorney Name: Kevin L Fields

Power of Attorney Signature: 

As owner or authorized agent of this property, I certify that this application is complete and accurate to the best of my knowledge, and I authorize the Lunenburg County representative(s) entry on the property for purposes of reviewing this application.

Section 2
Property Information

Parcel Number(s): Portion of 059-0A-0-18A (SITE)

059-01-0-2 (ACCESS ROAD)

059-03-0-6 (ACCESS ROAD)

Area (ac./sq. ft.): Portion of 059-0A-0-18A (49.65ac/2,162,869sf)

Magisterial District: COLUMBIAN GROVE

Address: 3832 LAUREL BRANCH ROAD, LUNENBURG COUNTY, VA

Existing Zoning: A-1 : Agriculture

Requested Use: Electrical Substation

Does this property have a historical designation? If yes, describe: NO

Parcel number(s), acreage, magisterial district and existing zoning can be located at:
<https://lunenburggis.timmons.com/#/mw>. The address can be typed into the "By Parcel Address" search bar followed by selecting search. This will pull up the information pertaining to the parcel.

The application deadline is the **1st of the month proceeding the month** in which the public hearing by the Planning Commission is to be held. The Planning Commission meeting is held on the 1st Thursday of the month at 7:00 p.m. Applications must be submitted in completed form a minimum of forty-five (45) days prior to scheduling a public hearing by the Planning Commission. Notice of incomplete applications will be sent to the applicant at the listed address in Section 1.

The site plan must be submitted as described in the site plan requirements at the time of the application.

Application fee is \$2,500.00, which must be paid at the time of application submission. The applicant will be invoiced for any costs incurred, including but not limited to advertising, postage, legal fees, third-party consulting fees, etc.

****Incomplete applications will be returned to the applicant and not docketed for a public hearing****

Section 3

Certification of Adjoining Property Owners, Board of Supervisors, and Planning Commissioners

Applicants Certification:

I certify that I have notified all adjacent property owners, to the property which is the subject of this application request, that this application is being filed. Notifications were sent via first class mail.

Adjacent property includes all property touching the project parcel, across roadways, watercourses, railroads, and/or municipal boundaries.

I further certify that the names and addresses below are those of the adjacent property owners as listed in the tax records of the Commissioner of Revenue of Lunenburg County.

Applicant's Signature: _____

State of: _____.

County of: _____.

Before me, _____, on this _____ day of _____

Name of Notary Public

_____, 20____, _____, personally appeared, and

Applicant(s) Name

provided verification to be the person(s) whose name(s) is/are subscribed to the foregoing instrument and acknowledged to me that he/she/they executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office this _____ day of _____, 20____.

Notary Public's Signature

Location of Commission

Registration #: _____

Commission Expiration: _____

Verification of Identity

☐ Driver's License or Govt./State Identification Card:

State: _____

Number: _____

☐ U. S. Passport:

Number: _____

☐ U. S. Military ID Card

☐ Social Security Card

☐ Birth Certificate

☐ Other: _____

(Seal)

Adjacent Parcel (Property) Owners		
Parcel Number	Name(s)	Address
059-01-0-3	FBJ GRAT-98 FORESTS LLC,	PO BOX 1288 MOBILE AL 36633
059-02-0-1	LONG RANDALL S	3173 BRICKLAND ROAD SOUTH HILL VA 23970
059-02-0-2A	LONG JOHNNY K	3502 LAUREL BRANCH ROAD KENBRIDGE VA 23944
059-03-0-5	RAGSDALE DOUGLAS INGRAM JR,	12113 CREEKWOOD TERRACE KNOXVILLE TN 37934
059-03-0-6	RAGSDALE DOUGLAS INGRAM JR,	12113 CREEKWOOD TERRACE KNOXVILLE TN 37934
059-03-0-9	LONG RANDALL S,	3173 BRICKLAND ROAD SOUTH HILL VA 23970
059-04-0-3	ARD CHRISTOPHER P	3899 LAUREL BRANCH ROAD KENBRIDGE VA 23944
059-04-0-4	CURLEY GEORGE W & SARA L	3899 LAUREL BRANCH ROAD KENBRIDGE VA 23944
059-0A-0-18A	LONG RANDALL S,	3173 BRICKLAND ROAD SOUTH HILL VA 23970
059-0A-0-39	YEATTS CLAUDE WESLEY & JAMES WILEY & JAMES ELLIOTT NASH & MELINDA CLAY NASH	4525 BRICKLAND ROAD KENBRIDGE VA 23944
059-0A-0-41	HARVILICZ RONALD M OR PATRICIA I	3963 LAUREL BRANCH ROAD KENBRIDGE VA 23944
059-0A-0-41A	BOAZ DAVID A,	3832 LAUREL BRANCH ROAD KENBRIDGE VA 23944
059-0A-0-41B	CURLEY SARA L OR GEORGE W CURLEY	3883 LAUREL BRANCH ROAD KENBRIDGE VA 23944
059-0A-0-41C	REESE MARK S SR OR CONNIE W,	8507 CRAIG MILL ROAD KENBRIDGE VA 23944
059-0A-0-41D	LONG JOHNNY K	3502 LAUREL BRANCH ROAD KENBRIDGE VA 23944
059-0A-0-42	HOLMES CHARLIE ESTATE	251 DUSTY LANE KENBRIDGE VA 23944
059-0A-0-43	REESE MARK S SR OR CONNIE W,	8507 CRAIG MILL ROAD KENBRIDGE VA 23944
059-0A-0-43A	BOAZ DAVID A	3832 LAUREL BRANCH ROAD KENBRIDGE VA 23944
059-0A-0-44	LONG RONALD E OR PATRICIA A	3589 LAUREL BRANCH ROAD KENBRIDGE VA 23944
059-0A-0-44A	LONG RONALD E OR PATRICIA A	3589 LAUREL BRANCH ROAD KENBRIDGE VA 23944

*If there are additional adjacent property owners, please include them on a separate sheet. Also, the letter that follows can be completed and mailed to adjacent property owners.

Adjacent Parcel (Property) Owners		
Parcel Number	Name(s)	Address
059-0A-0-44A1	REESE MARK S SR OR CONNIE W	8507 CRAIG MILL ROAD KENBRIDGE VA 23944
059-0A-0-44B1	REESE MARK S SR OR CONNIE W	8507 CRAIG MILL ROAD KENBRIDGE VA 23944
059-0A-0-44C	NOBLIN AMANDA R	3441 LAUREL BRANCH ROAD KENBRIDGE VA 23944
059-0A-0-44C1	REESE MARK S SR OR CONNIE W,	8507 CRAIG MILL ROAD KENBRIDGE VA 23944
059-0A-0-46	HERRINGTON BRENDA REESE ET A	603 WINDSOR AVE LAWRENCEVILLE VA 23868
059-0A-0-53A	LONG JOHNNIE K,	3502 LAUREL BRANCH ROAD KENBRIDGE VA 23944
059-0A-0-54	RAGSDALE DOUGLAS INGRAM JR,	12113 CREEKWOOD TERRACE KNOXVILLE TN 37934
059-0A-0-54A	LONG JOHNNY K OR LUCILLE S,	3502 LAUREL BRANCH ROAD KENBRIDGE VA 23944
059-0A-0-55	CEMETERY	
071-0A-0-9	YANCEY ROSA LEE OR CARSON W & GINGER LEE & JEAN ELIZABETH YANCEY	3653 BRICKLAND ROAD SOUTH HILL VA 23970
059-01-0-3	FBJ GRAT-98 FORESTS LLC,	PO BOX 1288 MOBILE AL 36633
059-02-0-1	LONG RANDALL S	3173 BRICKLAND ROAD SOUTH HILL VA 23970
059-02-0-2A	LONG JOHNNY K,	3502 LAUREL BRANCH ROAD KENBRIDGE VA 23944
059-03-0-5	RAGSDALE DOUGLAS INGRAM JR,	12113 CREEKWOOD TERRACE KNOXVILLE TN 37934
059-03-0-9	LONG RANDALL S	3173 BRICKLAND ROAD SOUTH HILL VA 23970
059-0A-0-18	MOORE ANN D,	351 RUBIN LANE KENBRIDGE VA 23944
059-0A-0-19	MARTIN DOROTHY S	13301 KINGSMILL ROAD MIDLOTHIAN VA 2311

*If there are additional adjacent property owners, please include them on a separate sheet. Also, the letter that follows can be completed and mailed to adjacent property owners.

Notification of Application Submittal to Adjacent Property Owners

To: Adjacent Property Owner of Parcel(s) _____

From: Dominion Energy Virginia _____

Date: _____

The following application will be submitted for review to the Lunenburg County Planning Office:

☐ Rezoning

☒ Conditional Use Permit

☐ Special Exception

Requested Use or Exception:

This application is for a Conditional Use Permit to construct a 230/500kV Electric Transmission Substation (a major public utility) on a parcel that is zoned A-1 Agricultural.

The application will be available for viewing at the Lunenburg County Planning Office. The Planning Office shall notify all adjacent property owner(s) of the time, day, and location of the public hearing(s) to be held on this application. Should you have questions and/or comments, please contact the Planning Office at 434.696.2142 or taylor@lunenburgva.gov.

Section 4
Applicant's Report
Section 8.3(b) of Lunenburg Zoning Ordinance

Every application for a Conditional Use Permit shall be accompanied by a report from the applicant describing the proposed Conditional Use and explaining the manner which it complies with the requirements and standards of this article.

The following questions address the basic issues. The Planning Commission and/or Board of Supervisors may request additional information.

- 1.) What type of use is being requested?

The construction and operation of a Dominion Energy 500/230KV substation.

- 2.) Describe how you plan to develop the property for the proposed use and any associated uses.

The site will be cleared and graded for the installation of the substation and associate electrical equipment. A wet pond will be constructed to address stormwater management. An access road will be constructed from Laurel Branch Road to the substation.

- 3.) Describe why the proposed use is desirable and appropriate for the area. What measures will be taken to assure that the proposed use will not have a negative impact on the surrounding vicinity?

The construction of the electrical utility substation will help meet growing power demands.

The regulations of all local, state, or federal governmental bodies having jurisdiction over the project shall be observed at all times.

Also, address the following:

- a. Details of Operations: The substation will be unmanned with personnel on site only when needed.
-

- b. Hours of Operation: 24/7
-

- c. Traffic: Because the substation is unmanned there will be no increase in traffic and will only have personnel on site when maintenance is needed.
-

- d. Noise: We always work to design a new substation to meet the sound ordinance requirements of the locality where the substation resides which is typically specified as a specific "A" weighted sound level measured at the substation property line.
-

- e. Dust/Smoke: There will be no generation of dust or smoke from the proposed substation once constructed.
-

- f. Runoff: This project was analyzed for the 1-year and 10-year storm events to show compliance with VA DEQ IIB Stormwater Management Water Quantity Requirements. There is one wet pond on site.
-

- g. Intensity of Use: The substation will have be low intensity due to it being an unmanned station.
-

- h. Hazardous Materials: SF6 is the medium for the installed circuit breakers in the substation and has been listed as a hazardous material by OSHA but will not be a danger to the surrounding community.
-

- i. Outside Storage: N/A
-

- 4.) Is the use location on a floodplain, wetland area, or dam break inundation zone? No
-

- 5.) Are there any deed restrictions concerning the type of use proposed? If so, provide the date the said restrictions expire. No
-

- 6.) Has a survey of the parcel(s) been conducted to include project parcel, property boundaries, existing roadways and structures, and adjoining parcels, as well as, the parcel owner? If so, is it included in the application packet? A combination of field run survey and GIS was used to show the existing conditions of the parcels. Site plan is included in submission packet.
- 7.) Has a site plan been included to note the information required on the survey, but also any new construction, parking, clearing, planting, etc.? A site plan is included with this application.
- 8.) Has a business plan been established? If so, please provide it with application submittal. N/A
- 9.) Describe how the proposed project complies or refutes the goals and objectives noted in the Kenbridge-Victoria-Lunenburg Comprehensive Plan. This can be located the Lunenburg County, Virginia website. The construction of the electrical utility substation will help meet growing power demands. This complies with goals such as "Promote the expansion of a diversified economy"

Requirements for telecom site plans can be found in Section 22 Article III, items 22-81 thru 22-112 of the Lunenburg County Code.

Section 5

Construction Traffic Management Plan (CTMP)

VDOT and the County have identified that the construction phase of solar energy projects have an increased impact on VDOT's secondary road network. These impacts occur as VDOT's secondary road system was not designed to accommodate large numbers of truck traffic that results from the transport of the needed materials for the solar project to the construction sites. The increase in number of employees, also, impacts the roadways. To assist VDOT and the County in mitigating the increased maintenance costs associated with the increased traffic, the County requires the submission and approval of a CTMP. The outline below includes the needed elements for the required CTMP.

Construction Traffic Haul Routes

- Identify the routes to be used to transport supplies to the construction site. The plan shall begin at a VDOT maintained primary route and include all secondary routes to be used to access the site.
- The plan shall, also, include any truck routes that may be used to dispose of excess materials, clearing and grubbing debris, timber harvesting, or other activities that generate truck traffic leaving the site.

Roadway Condition Survey

- The applicant shall document by either photos, videos, or other method acceptable to VDOT and the County, the condition of the secondary roadways identified as haul routes. This condition survey will be utilized to identify areas damaged by the construction traffic that will be required to be repaired to the pre-existing conditions or better.

On-Site Storage, Unloading, and Turn-Around Areas

- The applicant shall demonstrate that they have adequate areas available on-site to unload trucks, store the materials on-site, and provide an area where trucks can turn around on-site prior to entering the VDOT roadway.

On-Site Parking Areas for Construction Employees

- The applicant shall provide an estimated number of employees to be on-site during construction and demonstrate that adequate on-site parking areas are available for the anticipated employees. Employees will not be allowed to park along roadways or within VDOT Right-of-Way (ROW) adjacent to the construction areas.

Staff Report

Planning Commission and Board of Supervisors Staff Report
Unity Substation
Conditional Use Permit CUP-#-23
Lunenburg County, Virginia

Report Date: June 7, 2024
Planning Commission Meeting Date: June 13, 2024

APPLICATION SUMMARY

Project: Unity Substation

Location: The proposed facility will be a public utility switchyard (the “Switchyard”) and substation (the “Substation”) located on an approximately 26-acre portion of the property located at 3832 Laurel Branch Road (accessed from Dusty Lane).

Parcel Record Numbers: 059-0A-0-18A, 059-01-0-2, 059-03-0-6

Proposal: The proposed public facility will be a public utility substation (the “Substation”) located on an approximately 213-acre portion of the property located at 3832 Laurel Branch Road (accessed from Dusty Lane). The proposed Substation will be located on a single parcel, with 2-3 other parcels being used for access roads. The total disturbed acreage is 26.25 acres.

Application Submitted: August 18, 2023
2232 Review on April 3, 2024

Applicant: Virginia Electric and Power Company dba Dominion Energy
Virginia
Kevin Fields
5000 Dominion Blvd
Glen Allen, VA 23060

Representative: Kevin Fields

(804) 771-3769

PLANNING COMMISSION ROLE

The Applicant has submitted a Conditional Use Permit (CUP) application for a switchyard and substation; as a major public utility, a CUP is required for the use in the A-1 zoning district. The Planning Commission previously completed their review of the Applicant’s proposal as a “public utility facility” under Virginia Code Section 15.2-2232(A) and determined that the general or

approximate location, character, and extent of the proposed facility is substantially in accord with the County's Comprehensive Plan. Now, the Planning Commission may proceed with review of the CUP. Pursuant to Article 8, *Conditional Use Permits*, of the Lunenburg County Zoning Ordinance, the Planning Commission shall review the application and provide a recommendation to the Board of Supervisors following a public hearing; the Planning Commission may recommend approval or disapproval of the CUP, along with written reasons for its decision, or may defer the application for further discussion and consideration. As part of its recommendation for approval, the Commission may recommend that conditions be imposed to ensure compliance. In considering their recommendation, the Planning Commission shall consider "at least" the criteria contained in Section 8-5, *General requirements for approval of conditional use permits*, of Article 8. The Planning Commission shall issue their recommendation by motion, with the reasons for the recommendation, including a statement of the relationship of the proposed used to the Comprehensive Plan.

PROPOSED DEVELOPMENT

The proposed public facility will be a public utility substation (the "Substation") located on an approximately 213-acre portion of the property located at 3832 Laurel Branch Road (accessed from Dusty Lane). The proposed Substation will be located on a single parcel, with 2-3 other parcels being used for access roads. The total disturbed acreage is 26.25 acres.

The proposed Substation, under CUP-#-23, to be developed on three (3) parcels, will have a capacity of 230/500kV. The Property is currently used for agriculture and is largely open pasture. The majority of the Project is located along Dusty Lane and Laurel Branch Road.

EXISTING CONDITIONS AND ZONING

The parcel subject to the Application is currently zoned A-1, Agricultural, and is located in an area of the County having a current and future land use designation as *Agricultural*, characterized as areas "foreseen as slow growth, low density areas...expected to remain primarily agricultural, forest, and rural residential land uses."

The Project site is largely cleared, open pasture. The Application contains a *Slopes* plan indicating topography of the site. According to the Application, on-site soils are moderately fine-grained sands, humus, and clay, including Appling sandy loam, 2 to 7 percent slopes, moderately eroded; Appling sandy loam, 7 to 15 percent slopes, moderately eroded; Cecil sandy loam, 2 to 7 percent slopes, eroded. The Erosion and Stormwater Control Plan indicating slopes 0% to 15%.

ADJACENT AND SURROUNDING USES

The areas surrounding the proposed project area share the same land use and zoning characteristics – rural, agricultural, forestry uses – as well as the same land use classifications.

The closest town to the site is the Town of Kenbridge. The project site boundary is located 6 miles from the Kenbridge town center.

COMPREHENSIVE PLAN CITATIONS

The following Comprehensive Plan citations should be considered:

Chapter V, *Special Policy Areas, Policy Area: Loss of Agricultural Land and Open Space*, references that “Future residential, commercial and industrial development should be encouraged to locate in areas where adequate public services are available or planned. Any development that does occur in the rural areas should be designed to incorporate significant open spaces and designed to minimize environmental impacts on the land and water resources,” and that “Environmental impacts of any newly planned development area should be considered. It is essential to maintain a balance between development and preservation objectives throughout the area.” This section recommends that “Commercial and/or industrial developments that are approved in the rural portions of the County should be consistent with the best interest of the community.”

Chapter V, *Special Policy Areas, Policy Area: Protection of Water Resources*, references that surface water resources within the County “provide recreational opportunities and are a critical component of the County’s infrastructure and quality of life. As such, protection and enhancement of these water resources should be a primary object of the County and the Towns.”

Chapter V, *Special Policy Areas, Policy Area: Corridor Development*, notes that road corridors, including Route 40, “maintain a high level of service,” and that “Future development along these roads should be planned and designed to ensure that the safety and capacity of these roads are maintained and managed,” and further references that road corridors including Route 40 are important “as “gateways to the County and Towns” these roads create first impressions to visitors coming into the area. The views and character of development is visible from the roadways. Maintenance and enhancement of these gateways can be critical to the success of the economic development and marketing activities in Lunenburg County, the Town of Kenbridge and the Town of Victoria.”

Chapter VI, *Goals, Objectives, and Strategies, B., Economy and Employment:*

- Goal: Promote the expansion of a diversified economy.
 - Objective 1: Encourage quality industries to locate within the County and Towns.
 - Strategy 4: County Government, and other parties, to promote the area to environmentally friendly industries.
 - Objective 2: Provide adequate land and resources for commercial and industrial uses.
 - Strategy 5: Guide community and industrial uses into areas with adequate public utilities and transportation access.

Chapter VI, *Goals, Objectives, and Strategies, C., Land Use:*

- Goal: Promote a balance of land uses that meet economic and demographic needs of Lunenburg County, the Town of Kenbridge and the Town of Victoria.
- Objective 4: Encourage quality industries to locate within the County and Towns.
 - Strategy 1: Encourage industries to locate in the County and Towns' industrial parks or in areas where they are compatible to adjacent uses.
 - Strategy 2: Guide community and industrial uses into areas with adequate public utilities and transportation access.
 - Strategy 3: Work with interest groups to attract new industries to the locality. Encourage industries to locate in the industrial parks or in areas where they are compatible to adjacent uses.
 - Strategy 4: Liaise with the Chamber of Commerce, and other parties, to promote the area to environmentally friendly industries.

Chapter VI, Goals, Objectives, and Strategies, F., Natural Resources:

- Goal: Protect and preserve the natural resources of the community.
- Objective 1: Prevent development in areas of critical environmental importance.
 - Strategy 1: Restrict development in flood plains, swamps and drainage ways.
 - Strategy 2: Restrict development on soils that will not adequately support structures.
 - Strategy 4: Identify and protect all open spaces which have recreational potential or which would enhance the environment in Lunenburg County, the Town of Kenbridge and the Town of Victoria.
 - Strategy 5: Promote the preservation and planting of trees, shrubs and other natural foliage.

ZONING ORDINANCE PROVISIONS

The County's Zoning Ordinance includes the following sections relevant to the review of the Conditional Use Permit:

Article 8, Conditional Use Permits, of the Zoning Ordinance, establishes the procedures and standards for consideration of conditional use permit applications. **Section 8-5, General requirements for approval of conditional use permits**, establishes that a conditional use permit shall be approved by the board of supervisors only if it finds that the proposed conditional use and related plans:

- (a) Will not be contrary to the purposes of this ordinance as stated in section 2-3;
- (b) Will not be in conflict with the objectives of the comprehensive plan for the county;
- (c) Conform with all applicable provisions of this article, all other applicable requirements of the district in which such use is located and any specific conditions applicable to the proposed conditional use specified elsewhere in this ordinance; and
- (d) Include satisfactory provision for or arrangement of the following, where applicable:
 - (1) Sewer, water and other public utilities;
 - (2) Ingress and egress, including access for fire and other emergency vehicles;
 - (3) Off-street parking, loading and vehicle circulation, including adequate consideration of the safety of motorists and pedestrians;
 - (4) Yards, open spaces, relationship among buildings and other elements of the site;
 - (5) Retention of natural vegetation and topographic features; and
 - (6) Landscaping, buffers, screening, fences and other features or means of separation to protect adjacent properties from potential adverse effects of the conditional use.

STAFF REVIEW, ANALYSIS, AND COMMENTS

Staff has reviewed the subject Application pursuant to Article 8, *Conditional Use Permits*, of the County's Zoning Ordinance, and specifically Section 8-5, *General requirements for approval of conditional use permits*, with respect to whether the application will not be contrary to the purposes of the Zoning Ordinance, or in conflict with the objectives of the Comprehensive Plan for the County, will conform with the provisions and requirements of the Zoning Ordinance, and includes satisfactory provision for or arrangement of certain infrastructure and physical development conditions. Please consider the following:

Whether the proposed conditional use and related plans will not be contrary to the purposes of this ordinance as stated in section 2-3

The purpose of the County's Zoning Ordinance, as provided in Section 2-3, Purpose, is as follows:

"...to classify the unincorporated territory of the county into zoning districts for the general purpose of promoting the health, safety and general welfare of the public and of further accomplishing the objectives of Code of Virginia, § 15.2-2200. To these ends, and pursuant to the provisions of Code of Virginia, § 15.2-2283, this ordinance is designed to give reasonable consideration to each of the following purposes, where applicable:

- (a) To provide for adequate light, air, convenience of access and safety from fire, flood, crime and other dangers;
- (b) To reduce or prevent congestion in the public streets;
- (c) To facilitate the creation of a convenient, attractive and harmonious community;
- (d) To facilitate the provision of adequate police and fire protection, disaster evacuation, civil defense, transportation, water, sewerage, flood

- protection, schools, parks, forests, playgrounds, recreational facilities, airports and other public requirements;
- (e) To protect against destruction of or encroachment upon historic areas;
 - (f) To protect against one or more of the following: overcrowding of land, undue density of population in relation to the community facilities existing or available, obstruction of light and air, danger and congestion in travel and transportation or loss of life, health or property from fire, flood, panic or other dangers;
 - (g) To encourage economic development activities that provide desirable employment and enlarge the tax base;
 - (h) To provide for the preservation of agricultural and forestal lands and other lands of significance for the protection of the natural environment;
 - (i) To protect approach slopes and other safety areas of licensed airports, including United States government and military air facilities;
 - (j) To promote the creation and preservation of affordable housing suitable for meeting the current and future needs of the county as well as a reasonable proportion of the current and future needs of the planning district; and
 - (k) To protect surface water and ground water as defined in Code of Virginia, § 62.1-255.

Staff is of the opinion that the proposed use and related plans, with the imposition of reasonable conditions, will be consistent with the purposes of the Zoning Ordinance. Further elaboration on Staff's position is provided below with respect to relevant policies contained in the Comprehensive Plan.

Whether the proposed conditional use and related plans will not be in conflict with the objectives of the comprehensive plan for the county

As noted herein, the Planning Commission previously completed their review of the Applicant's proposal as a "public utility facility" under Virginia Code Section 15.2-2232(A) and determined that the general or approximate location, character, and extent of the proposed facility is substantially in accord with the County's Comprehensive Plan. This determination was made at the Planning Commission's meeting on April 4, 2024.

As noted within the staff report for the 2232 review, Staff reviewed and analyzed the Application with respect to the above referenced Comprehensive Plan citations and offered the following opinions with respect to whether the project is substantially in accord with the Comprehensive Plan, or for these purposes, whether the proposed conditional use and related plans conflict with the objectives of the comprehensive plan for the County:

- With respect to the Loss of Agricultural Land and Open Space policy area, significant areas of the project will remain undeveloped, and the project is designed to minimize environmental impacts, and/or such impacts will be

minimized through reasonable conditions. It is also important to note that none of the leased lands comprising the Project rank as having suitability (high or otherwise) under the Agricultural Model used for the Virginia Department of Conservation and Recreation's (DCR's) Virginia Natural Heritage Data Explorer.

- With respect to the Protection of Water Resources policy area, Staff is of the opinion that the project will be subject to Virginia Department of Environmental Quality regulations and permitting, which will work to ensure protection of the County's water resources. It is important to note that there are areas along streams within the Project that rank low impact under the Watershed Impact Model used for the Virginia DCR's Virginia Natural Heritage Data Explorer.
- With respect to applicable Economy and Employment goals, objectives, and strategies. Staff is of the opinion that the proposed development works to expand a diversified economy within the County and would constitute an environmentally friendly industrial use.
- With respect to applicable Land Use goals, objectives, and strategies, while the area has adequate and necessary access and constitutes a more environmentally friendly industrial use, it is not inherently compatible with adjacent uses, which are almost entirely residential and agricultural. Setbacks and buffers/screening work to mitigate for this incompatibility.
- With respect to applicable Natural Resources goals, objectives, and strategies, Staff is of the opinion that the proposed development does not negatively impact natural resources of the County, especially areas of critical environmental importance. Staff acknowledges that the project works to promote the preservation of existing trees by retaining existing vegetated areas along the periphery of the site and would suggest that additional reasonable conditions to support the long-term maintenance of these areas be considered as part of the review of the Conditional Use Permit. It is important to note that while some areas of the Project rank as Moderate for Forest Conservation Value on Virginia DCR's Virginia Natural Heritage Data Explorer, most forested areas rank as Moderate or Average. Further, areas of the Project rank as Low or Moderate for Ecological Cores on Virginia DCR's Virginia Natural Heritage Data Explorer, with no areas ranking as High, Very High, or Outstanding.

Whether the proposed conditional use and related plans will conform with all applicable provisions of Article 8, *Conditional Use Permits*, all other applicable requirements of the district in which such use is located and any specific conditions applicable to the proposed conditional use specified elsewhere in the Zoning Ordinance

Staff had previously determined, in a report dated March 14, 2024 that the subject Application was complete and compliant/conforming) with all applicable requirements of the County's Zoning Ordinance.

Whether the proposed conditional use and related plans include satisfactory provision for or arrangement of the following, where applicable:

- (1) Sewer, water and other public utilities;
- (2) Ingress and egress, including access for fire and other emergency vehicles;
- (3) Off-street parking, loading and vehicle circulation, including adequate consideration of the safety of motorists and pedestrians;
- (4) Yards, open spaces, relationship among buildings and other elements of the site;
- (5) Retention of natural vegetation and topographic features; and
- (6) Landscaping, buffers, screening, fences and other features or means of separation to protect adjacent properties from potential adverse effects of the conditional use.

Staff is of the opinion that the proposed use and related plans satisfactorily provide or arrange for:

1. Necessary utilities;
2. Ingress and egress, including access for fire and other emergency services;
3. Parking, loading, and vehicle circulation, including adequate consideration of the safety of motorists and pedestrians;
4. Yards, open spaces, and the relationship among buildings and other elements of the site;
5. The retention of natural vegetation and topographic features; and
6. Landscaping, buffers, screening, fences, and other means of separation to protect adjacent properties from potential adverse effects of the conditional use.

Staff would recommend reasonable conditions to ensure this satisfactory position remains, especially relating to ingress and egress to the site, the construction/development stage of the project, and the long-term maintenance of existing trees and vegetated areas.

STAFF RECOMMENDATION

Based upon the above review, and for the reasons noted herein, Staff recommends **approval of the Conditional Use Permit as proposed with conditions.**

PLANNING COMMISSION ACTION; DRAFT OPTIONS

As noted, after holding a public hearing on the Conditional Use Permit, the Planning Commission may recommend approval or disapproval of the Conditional Use Permit, or approval with conditions to ensure compliance with the requirements of the County's Zoning Ordinance. In making its recommendation, the Commission shall consider, at least, the aforementioned criteria specified in Section 8-5, *General requirements for approval of*

conditional use permits, of Article 8, *Conditional Use Permits*. The recommendation of the Commission shall be in the form of a motion, giving the reasons for the Commission's action and the vote of each member. The motion and recommendation to the board shall include a statement of the relationship of the proposed conditional use to the comprehensive plan. In any case where the commission is unable to adopt a motion to recommend approval, approval with conditions or disapproval, it shall report to the board of supervisors stating such fact and summarizing its deliberations. Failure of the Commission to provide a recommendation or report to the Board of Supervisors within 100 days after the first meeting of the Commission after the conditional use permit application was referred to the Commission shall be considered a recommendation of approval, unless the Application has been withdrawn by the Applicant prior to expiration of the time period.

Staff Recommendation - Option 1 - Recommend approval of the application with the stated (or amended) conditions.

I move to recommend to the Board of Supervisors that Virginia Electric and Power Company's Conditional Use Permit for a proposed Switchyard and Substation, as presented, be approved with conditions to ensure the project's consistency with the following findings and compliance with the applicable requirements of the County's Zoning Ordinance:

1. The proposed use and plans are not contrary to the purposes of the County's Zoning Ordinance.
2. The proposed use and plans are consistent with the objectives of the comprehensive plan for the County, namely that:
 - a. The project will be subject to Virginia Department of Environmental Quality regulations and permitting, which will work to ensure protection of the County's water resources;
 - b. The proposed development works to expand a diversified economy within the County, and would constitute an environmentally friendly industrial use, primarily due to the proposed scale of operation, generally sited in an area with adequate and necessary utility access;
 - c. The area of the proposed project has adequate and necessary utility access and the project constitutes a more environmentally friendly industrial use; while not inherently compatible with adjacent uses, which are almost entirely residential and agricultural, significant setbacks and buffers/screening will work to mitigate for this incompatibility and additional conditions can be considered as part of the review of the Conditional Use Permit; and
 - d. The proposed development does not negatively impact natural resources of the County, especially areas of critical environmental importance.
3. The proposed use and plans conform with all applicable provisions of Article 8, *Conditional Use Permits*, all other applicable requirements of the district in which the use is located.

4. The proposed use and plans include satisfactory provision for or arrangement of:
 - a. Sewer, water and other public utilities;
 - b. Ingress and egress, including access for fire and other emergency vehicles;
 - c. Off-street parking, loading and vehicle circulation, including adequate consideration of the safety of motorists and pedestrians;
 - d. Yards, open spaces, relationship among buildings and other elements of the site;
 - e. Retention of natural vegetation and topographic features; and
 - f. Landscaping, buffers, screening, fences and other features or means of separation to protect adjacent properties from potential adverse effects of the conditional use.

Conditions recommended by the Commission are as follows: *please refer to the end of this Report below*

Option 2 - Recommend denial of the application

I move to recommend to the Board of Supervisors that Virginia Electric and Power Company's Conditional Use Permit for a Switchyard and Substation, as presented, be denied; among other concerns, the Planning Commission finds the following:

1. The proposed use and plans are contrary to the purposes of the County's Zoning Ordinance.
2. The proposed use and plans are inconsistent with the objectives of the comprehensive plan for the County, namely that:
 - a. The location of the proposed solar facility is a rural area, the amount of undeveloped area within the project is insufficient and the project is not designed to minimize environmental impacts;
 - b. Despite being subject to Virginia Department of Environmental Quality regulations and permitting, the project will have negative effects on the County's water resources;
 - c. The proposed development does not work to expand a diversified economy within the County, and, given the scale of the proposal, would not constitute an environmentally friendly industrial use; furthermore, utility and transportation access to support the development are inadequate;
 - d. The proposed project is not compatible with adjacent residential and agricultural uses; setbacks and buffers/screening are insufficient, and cannot be improved in a manner that would improve the compatibility of the project with adjacent uses; and
 - e. The proposed development negatively impacts natural resources of the County, especially areas of critical environmental importance such as existing stands of trees and the isolated wetland to the east of the project site.

3. The proposed use and plans do not include satisfactory provision for or arrangement of:
 - a. Sewer, water and other public utilities;
 - b. Ingress and egress, including access for fire and other emergency vehicles;
 - c. Off-street parking, loading and vehicle circulation, including adequate consideration of the safety of motorists and pedestrians;
 - d. Yards, open spaces, relationship among buildings and other elements of the site;
 - e. Retention of natural vegetation and topographic features; or
 - f. Landscaping, buffers, screening, fences and other features or means of separation to protect adjacent properties from potential adverse effects of the conditional use.

Option 3 - Deferral of the application

I move that the Planning Commission defer issuance of a recommendation on Virginia Electric and Power Company's proposed Substation until the Planning Commission meeting scheduled to begin at _____ p.m. on _____, in the 2nd floor Courtroom; Lunenburg Courts Building, Lunenburg, VA 23952.

OPTION 1 RECOMMENDED CONDITIONS

Conditions recommended by the Commission (to ensure the project's consistency with the aforementioned findings and compliance with the applicable requirements of the County's Zoning Ordinance) are as follows:

1. The Applicant shall develop, construct, operate, and maintain the site in substantial conformance with the conceptual plans (dated August 18, 2023), all assurances and commitments made within the Application materials, and the conditions imposed on the issued conditional use permit, as determined by the Zoning Administrator. Substantial conformance will be determined by the Zoning Administrator based on his/her review of the record. Deviations determined not to be in substantial conformance with the conceptual plans shall require review and approval as an amendment to the conditional use permit, following the process for the granting of a conditional use permit. As used in these conditions, the term "Applicant" shall include the terms "Applicant, Owner, Developer, or Operator," and the successors and assigns thereof, and the term "Zoning Administrator" shall include the designee of the Zoning Administrator.
2. The project, as presented, does not include battery energy storage systems; the addition of battery energy storage shall require amendment of this conditional use permit.
3. Prior to the approval of the site plan for the project, the Applicant shall establish and submit to the County for review and record all permanent access and temporary construction easements.

4. The Substation facility shall be monitored at all times via installed surveillance cameras and electrical system monitoring equipment.
5. All exterior lighting associated with the site, both temporary and permanent, shall be full-cutoff, shielded, and directed downward. Emergency and/or safety lighting not meeting this requirement shall be presented to the County for approval prior to installation.
6. Unless approved in writing by the County, no signage, temporary or permanent, shall be permitted to be installed on the property. It is anticipated that signage containing notices, warnings, safety and security information, environmental information, and temporary signage concerning construction activities may be installed; the Owner will be required to submit sign packages to the County for approval prior to installation.
7. The Applicant will submit a final "Erosion and Sediment Control Plan" for review and approval by the Zoning Administrator. The owner or operator shall construct, maintain, and operate the Project in compliance with the approved plan. As authorized and allowed by Virginia DEQ, a separate Erosion and Sediment Control Plan may be submitted for various development areas on the Project Area. An erosion and sediment control bond (herein, an "E&S Bond") will be posted for the construction portion of the Project in accordance with the County's Erosion and Sediment Control Ordinance (codified as Lunenburg County Code Chapter 42, Article II) and/or the VESCP authority and applicable regulations. If the Project is subsequently sold to a non-investment grade entity or the Applicant's credit rating is downgraded to below investment grade, a bond or other security will be required from the transferee.
 - a. The Applicant shall not disturb, grade, or clear any land that has a slope greater than eight percent (8%).
8. Prior to the commencement of construction of the Substation, the Applicant will drill test wells within the Perimeter (as defined in Condition 6.a herein) and at the locations shown on the Concept Plan, in areas approved by the County. The Applicant will conduct an initial study of the groundwater in those wells prior to the commencement of construction, which study will test for contaminants in the National Primary Drinking Water Regulations (the "Drinking Water Regulations") as compiled by the United States Environmental Protection Agency. Once each year for the first two years after completion of construction of the Switchyard, the Applicant will test the groundwater in those wells to determine if there are any contaminants in the groundwater that is in excess of the limits set by the Drinking Water Regulations that were not already present in the pre-construction test. The Applicant shall provide the results of these tests to the County. On year three, this condition (and every three years thereafter) shall be reviewed and the scope and/or frequency of the testing shall be reduced unless there is a showing (after year two) that the Switchyard and Substation has introduced contaminants into the groundwater in those monitoring wells.
9. Pollinator habitats. The portions of the land within the Perimeter where the Substation will be installed (the "Project Area"), any other area where the Developer has caused land

disturbance during construction and operation, except those areas designated as right of ways, setbacks with required natural or vegetative buffers, and where the VESCP authority requires stabilization and/or replanting, will be seeded or replanted with appropriate pollinator- friendly plants, shrubs, trees, forbs, and wildflowers native to the County where compatible with site conditions and where practicable and, in all cases, shall be approved by the Zoning Administrator, or a third-party consultant for the County, which shall be paid for by the Applicant. Such portions of the Project Area will be seeded immediately following completion of construction, in an approved section, in such a manner as to reduce invasive weed growth and sediment in the Project Area.

10. Groundcover and screening vegetation shall include appropriate pollinator-friendly plants, shrubs, trees, forbs, and wildflowers native to the County where compatible with site conditions and, in all cases, shall be approved by the Zoning Administrator, or a third-party consultant for the County, which shall be paid for by the Applicant.
11. Only EPA approved herbicides shall be used for vegetative and weed control at the Switchyard and Substation by a Licensed Applicator. No herbicides shall be used within one-hundred and fifty (150) feet of the location of an approved groundwater well. The Applicant shall submit an Herbicide Land Application Plan prior to approval of the Certificate of Occupancy (or equivalent). The plan shall specify the type of herbicides to be used, the frequency of land application, the identification of approved groundwater wells, wetlands, streams, and the distances from land application areas to features such as wells, wetlands, streams, and other bodies of water. The operator shall notify the County a week prior to application of pesticides and fertilizers with weather being taken into consideration. The County reserves the right to request soil and water testing.
12. All topsoil removed from land that is situated within the Perimeter or Project Area shall remain within the Perimeter or Project Area and shall be used to stabilize the soil and to facilitate growth of Pollinator habitats, screening vegetation, and other vegetation required under the Landscaping and Screening Plan. Removal of any topsoil from the Project Area or the County, shall be deemed grounds for revocation of the Applicant's Conditional Use Permit pursuant to the terms of Section 8-9 of the Zoning Ordinance.
13. The Applicant/Owner shall provide materials, education, and/or training on how to safely respond to any on-site emergencies and a key or code to access the facility in case of an on-site emergency.
14. The Applicant/Owner shall grant all necessary easements to the County for inspections of or access to the facility.

Lunenburg County School Board

VA Department of Transportation



VDOT Call Center - 1-800-367-ROAD

South Hill Residency – Richmond District

Lunenburg County

BOS Meeting – June 13, 2024

Maintenance Forces

- Primary and secondary mowing ongoing.
- Cut brush and limbs on secondary routes.
- Patched potholes on various routes.
- Cleaned pipes and ditches on various routes.
- Machined non-hard surface routes and hauled stone as needed.
- Checked various routes for maintenance and safety issues.
- Performed litter patrol on various routes.

Planning Update

CRC'S MAY ITEMS OF INTEREST

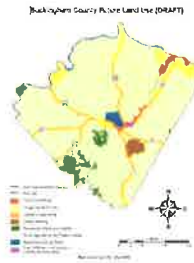
Grant Assistance:

- **VDACS, AFID Infrastructure Grant:** The CRC assisted Virginia Food Works with a grant application to purchase a variety of equipment for the Prince Edward County Cannery.
- **DCR, Recreational Trails Grant:** The CRC assisted Lunenburg County and the Towns of Victoria and Kenbridge with an application to DCR's Recreational Trails Grant Program to expand the Tobacco Heritage Trail. The Town of Victoria served as the applicant.
- **CENTRA:** The CRC assisted the Drakes Branch Volunteer Fire Department with an application to purchase a variety of equipment to perform lifesaving duties.

Project Updates:

- **SEED Innovation Hub Project Update:** EDA has authorized Longwood Real Estate Foundation to move forward with construction. The lowest bidder, English Construction, has been awarded and construction of the project has begun.
- **Town of Crewe, CBDG Planning Grant:** The Town of Crewe has received grant funding from DHCD to conduct a Planning Grant for the Town's Business District. The CRC is assisting the Town of Crewe with the procurement of a consulting firm to complete a series of studies on the business district.

Buckingham County Comprehensive Plan Update



The CRC staff attended the Planning Commission Work Session on May 20th. At this meeting, the Commission reviewed changes to Draft Section Three (Community Facilities), discussed the Future Land Use Map, and reviewed an updated schedule of remaining work. At the next Planning Commission meeting, CRC staff will begin discussions on Draft Section Five (Land Use) and review the changes to the Future Land Use Map.

Lunenburg/Kenbridge/Victoria Comprehensive Plan Update



The CRC did not hold a working committee meeting in May. The CRC worked with Committee members to develop a citizen survey and create advertisement flyers with a QR code. The Citizen Survey was released on May 13th in both English and in Spanish. The survey was distributed to students through the school system and has been placed at various locations throughout the County to encourage citizen participation in the survey. As of May 24th, the CRC has received 108 surveys.

Creation of the Virginia's Heartland Regional Economic Development Alliance

CRC staff corresponded with local business owners and local government staff to schedule three meetings for the Refinement Taskforce and the Evaluation Committee. Both the Refinement Taskforce and the Evaluation Committee have met. The Refinement Taskforce reviewed the strategies proposed from the draft prospectus and refined the plan to include measurable outcomes. This draft plan will be used to develop the Case for Investment to attract potential investors. The Evaluation Committee reviewed the original list of potential prospects from the Feasibility Study and refined the list. Convergent Non-profit Solutions is in the process of developing the Case of Investment to move forward with the capital campaign.

CRC Regional Hazard Mitigation Plan Update



FEMA Region III has given the plan Approval Pending Adoption (preliminary approval). Local Adoptions are underway. As of May 28th, 15 out of the 18 covered localities have adopted the Plan. Once all localities have adopted the plan, it will be sent back to FEMA for final approval.

CRC Affordable Workforce Housing Development Program



The CRC has a remaining \$225,357.46 in grant funding that has not been obligated to a housing partner or CRC staff time. The CRC released a third round of grant funding to seek funding applications from experienced housing partners to establish affordable workforce housing units throughout the CRC region by June 30, 2025. The CRC received five applications and awarded the remaining \$225,357.46 in grant funding to the Town of Blackstone. Congratulations to the Town of Blackstone!



Piedmont Habitat has completed the remaining two homes on E California Ave in Crewe. CRC staff completed a final compliance review on both properties.

Upcoming Funding Opportunities:

VDACS AFID Planning Grant: Open; Rolling Basis

VDOF, Virginia Trees for Clean Water: Open - Rolling Basis

DHCD CBDG Planning Grant: Opens 6/15/24

DHCD CBDG Grant: Closes 6/12/24

VOF, Preservation Trust Fund: Summer 2024

VEDP, Site Remediation Grant: Fall 2024

Charging and Fueling Infrastructure (CFI) Grants: Summer 2024

DEQ, Litter Prevention and Recycling Fund: Closes 6/17/24

The CRC provides free grant writing services for member localities and local 501C3 non-profits.

County Offices and Departments



11512 Courthouse Road, Suite 101
Lunenburg, Virginia 23952

Telephone
(434) 696-2516
Fax
(434) 696-4023

COMMISSIONER OF THE REVENUE COUNTY OF LUNENBURG

Elizabeth Y. "Liz" Hamlett
Master Commissioner

Amy S. Williams
Chief Master Deputy

Leah D. Wells
Master Deputy

May 14, 2024

Dear Taylor:

RE: 2024 Global Refining Group, Inc. EZ Incentive

	Assessed Value	2023 Taxes Paid
Real Estate (Shell Bldg & Addition) PRN 11550 2016	\$1,384,800	\$5,262.24
Real Estate (Addition) PRN 11550 2016 (Bldg #2)	\$577,400	\$2,194.12
Real Estate (Addition) PRN 11550 2020 (Bldg #2)	\$425,000	\$1,615.00
Real Estate PRN 13393 added for 2018	\$937,800	\$3,563.64
Machinery & Tools 2016	\$623,037	\$7,476
Machinery & Tools 2018	\$127,635	\$2,297.43
Machinery & Tools 2021	\$3,265,137	\$58,772.46

Machinery & Tools and Real Estate assessed in name of Global Refining Group, Inc.

As of May 10, 2024, Global Refining Group has not filed their 2024 Return of Business Tangible Property as required by Virginia Code §58.1-3518.

Thank you,

Liz Hamlett

Commissioner of the Revenue

June 3, 2024

To: Tracy Gee

From: Rodney Newton

Subject: Surplus Radios

The Lunenburg Communications Cache was started in 2010 as part of the Virginia Communications Cache. The portable radios that were purchased in 2010 have reached end of life and are no longer supported by Motorola. The radios were purchased using State Homeland Security Grant funds. These radios are not compatible with many of the new radio systems being built today. The Virginia Civil Air Patrol has used these radios to support their training and would benefit from the donation of these surplus radios for their use. This request is to declare the 75 VHF Motorola XTS 75 portable radios and accessories as surplus and to donate them to the Virginia Civil Air Patrol, an IRS 501(c)(3) non-profit organization.

Thank you for your continued support of the communications cache program.



HEADQUARTERS VIRGINIA WING
CIVIL AIR PATROL
UNITED STATES AIR FORCE AUXILIARY
7401 Airfield Dr.
Richmond, Virginia 23237-2259



24 Mar 2024

MEMORANDUM FOR Virginia Communications Cache-Lunenburg Team
Attn: Rodney Newton
1421 Main St
VICTORIA VA 23974

FROM: CC

SUBJECT: VHF Portable Radio Donation

1. I am writing to thank you and your organization for the charitable donation of 75 Very High Frequency (VHF) Portable radios and accessories. Civil Air Patrol (CAP) is a non-profit organization under section 501(c)(3) of the Internal Revenue Code and contributions to Civil Air Patrol may be deductible under section 170 of the Internal Revenue Code.
2. These radios will support multiple Virginia Wing missions. Specifically, they will enhance our ability to provide service to our communities in emergency and disaster response and help us train future leaders of our nation and commonwealth.
3. This additional equipment will allow us to have equipment at each of our 21 units throughout the wing to conduct training on proper radio procedures. Communications is a key component of safe and effective operations for everything we do.
4. Thank you again for your continued support of our organization.

ELIZABETH A. SYDOW, Colonel, CAP
Virginia Wing Commander

DocuSigned by:

10E49FB8BE5D472

Nicole Clark

From: Wanda Barnes
Sent: Friday, June 7, 2024 11:40 AM
To: Nicole Clark
Subject: Broken Printer

Nicole,

I have a broken printer here that needs to be disposed of. The model number is L8900-csw.

Thank you,

Wanda B. Barnes, MGD
Treasurer
Lunenburg County
P-434-696-3354
F-434-696-3447

*****Please note a change in my email address. It is now wbarnes@lunenburgva.gov. Please update your records.*****



DISCLAIMER:

The information contained in this e-mail is intended for the sole confidential use of the designated recipients and may contain confidential information. If you have received this information in error, any review, dissemination, distribution or copying of this information is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return the original message to us by mail or if electronic, reroute back to the sender. Thank you.

A. TOWNSEND, JR.
SHERIFF



DJ PENLAND
MAJOR

Lunenburg County Sheriff's Office
160 Courthouse Square
Lunenburg, VA 23952
Ph: (434) 696-4452
Fax: (434) 696-2531

June 7, 2024

Office of the County Administrator
ATTN: Tracy Gee/Nicole Clark
11453 Lunenburg County Road
Lunenburg, VA 23952

RE: Comp Board Transfer

Dear Tracy and Nicole,

For the months of April and May, 2024, we have transferred a total of nineteen thousand four hundred seventy-one and sixteen cents (\$19,471.16) from the Sheriff's Compensation Board funds to the county to be added to the following line item:

4-100-031200-6001	Office	\$19,471.16
-------------------	--------	-------------

Please advise should you need anything further.

Thank you,

A handwritten signature in dark ink, appearing to read "Corrie Duvall". The signature is written in a cursive style with a large, looping initial "C".

Corrie Duvall
Administrative Assistant

BOARD OF SUPERVISORS

T. Wayne Hoover
Election District 1

Mike Hankins
Election District 2

Frank W. Bacon
Election District 3

Greg Currin
Election District 4

Edward Pennington
Election District 5

Alvester L. Edmonds
Election District 6

Robert G. Zava
Election District 7



Lunenburg County Administration
11413 Courthouse Road
Lunenburg, VA 23952

Tracy M. Gee
County Administrator

Telephone: (434) 696-2142
Facsimile: (434) 696-1798

Animal Control Report to the Board of Supervisors

Date: June 3, 2024

The following activities were conducted by Animal Control during the month of May 2024 :

6 Stray Cat(s) Picked Up
18 Stray Dog(s) Picked Up
1 Injured or Ill Cat(s)
18 Injured or Ill Dog(s)
18 Cat Calls Dispatched
47 Dog Calls Dispatched
13 Cats, Surrendered by Owner
13 Dogs, Surrendered by Owner
1 Cat Bite
4 Dog Bite
1 Cat(s) Euthanized
4 Dog(s) Euthanized
3 Cat Trap(s) Set
1 Dog Trap(s) Set
1 Summons Issued
1 Animal(s) Released to ACO
448 Expired at Shelter and/or DOA
32 Telephone Calls for Animal Issues
3 Check License
3 Lost Cat(s) – Incoming Calls
8 Lost Dog(s) – Incoming Calls
5 Cat(s) Returned to Owner
5 Dog(s) Returned to Owner
2 Quarantine
2 Adoption—Dogs
2 Adoption—Cats

\$ Surrender Fees
\$ 80.00 Impoundment Fees
\$ 50.00 Adoption Fees
\$ 130.00 Total Fees Collected

11 Dog(s) Transferred to SPCA Southside
2 Cat(s) Transferred to SPCA Southside
4 Wildlife Calls
1 Dog transferred to Sanctuary Rescue
5 Dogs transferred to Charlottesville SPCA
6 Dogs transferred to Richmond SPCA
1 Positive Case Rabies (S Kunk)
5 Agriculture Animal Call

38 Total Number of Animals Handled

D. Ray Elliott ACO

D. Ray Elliott
Animal Control Officer



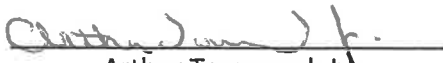
Lunenburg County Sheriff's Office
Report To The Board Of Supervisors
May 2024



Jury Summons Served	10
Subpoenas Served	114
Summons Served	88
Levies Executed	0
Other Civil Process	76
Traffic Citations	93
Protective Orders	41
Arrests	18
Inmates Transported	6
Mental Patients	0
Extraditions	0
Circuit Court Days	3
General District Court Days	4
J&DR Court Days	4

Expense Report

Dues	\$ -
Postage	\$ -
Office Supplies	\$ 589.81
Telephone	\$ 56.07
Police Supplies	\$ 1,255.95
Vehicle Maintenance & Repairs	\$ 1,551.80
Fuel (April)	\$ 3,796.62
Gallons of Fuel Use	1,349.52


Arthur Townsend, Jr.
Sheriff, Lunenburg County

6-4-24
Date

FY2024-2025 Budget Discussions

Good evening,

The final Calculation template from May 2024 is available on the Department of Education website. There is an increase in State Share by \$5,007, but an increase in Required Local Match of \$50,255. This is comprised of the following changes:

1. **Reduction in Sales Tax of -\$136,990 from the State.** This amount does not have a Local Share, therefore, it is not responsible for any changes in Local Match. See screen shot from the Calculation Template for additional information on the Sales Tax estimates:

NUM	DIVISION	Projected FY 2025 Unadjusted ADM ²	Projected FY 2025 Adjusted ADM ²	Projected FY 2025 Unadjusted ADM ²
055	LUNENBURG	1,483.20	1,483.20	1,483.20
2024-2026 Composite Index		FY 2025		
0.2614		FY 2025 State Share	FY 2025 Local Share	FY 2026 State Share
Standards of Quality Programs:				
⇒ Basic Aid		8,048,143	2,848,341	7,900,000
⇒ Sales Tax ⁴				2,848,341
⇒ Textbooks ⁵				1,000,000
⇒ Vocational Education				600,000
⇒ Gifted Education				1,000,000
⇒ Special Education				1,000,000
⇒ VRS Retirement (Includes RHCC) ⁶				500,000
⇒ Social Security				500,000
⇒ Group Life				500,000
		28,483	10,080	

The sales tax estimates contained in this Excel calculation file represent the Department of Taxation's official forecast of sales tax. The sales tax estimates contained in the appropriation act must be used to compute the Basic Aid payment.

Please be aware that final sales tax payments to school divisions are based on actual revenues collected for the state sales and use tax dedicated to public education. These actual payments may differ from the estimates provided in this worksheet.

2. Increase in State Basic Aid of \$101,182 and Required Local Match by \$35,810.
3. Increase in State Infrastructure and Operations Per Pupil Allocation of \$40,815 with a Required Local Match of \$14,445.

I have contacted the School Administration/Finance to request an updated budget for the School Board to present to the Board of Supervisors at the meeting on June 13th as we prepare for budget adoption and appropriation for FY25. I will keep you informed.

Respectfully,

Tracy M. Gee
Lunenburg County Administrator
Clerk to the Board of Supervisors
Lunenburg County Administration
11413 Courthouse Road
Lunenburg, VA 23952
Email: tgee@lunenburgva.gov
Voice: 434-696-2142 Fax: 434-696-1798
Website: [Lunenburg County, Virginia \(lunenburgva.gov\)](http://Lunenburg County, Virginia (lunenburgva.gov))

Virginia Department of Education					
Projected FY 2025 and Projected FY 2026 State Payments, Based on Amendments Adopted by the 2024 Special Session I General Assembly to the 2024-2026 Biennial Budget (Chapter 2)					
Standards of Quality (SOQ), Incentive, Categorical, and Lottery-Funded Programs in Direct Aid to Public Education					
As of May 13, 2024					
055 - LUNENBURG					
NUM	DIVISION	Projected FY 2025 Unadjusted ADM ²	Projected FY 2025 Adjusted ADM ²	Projected FY 2026 Unadjusted ADM ²	Projected FY 2026 Adjusted ADM ²
055	LUNENBURG	1,483.20	1,483.20	1,475.65	1,475.65
2024-2026 Composite Index		FY 2025		FY 2026	
0.2614		FY 2025 State Share	FY 2025 Local Share	FY 2026 State Share	FY 2026 Local Share
Standards of Quality Programs:					
⇒ Basic Aid		8,048,143	2,848,341	7,931,887	2,807,196
Sales Tax ⁴		2,192,105	N/A ¹	2,281,168	N/A ¹
⇒ Textbooks ⁵		175,432	62,088	174,539	61,772
⇒ Vocational Education		616,762	218,280	613,622	217,169
⇒ Gifted Education		69,016	24,426	68,665	24,301
⇒ Special Education		1,037,430	367,160	1,031,060	364,905
⇒ VRS Retirement (Includes RHCC) ⁶		985,942	348,938	980,924	347,161
⇒ Social Security		459,011	162,450	456,674	161,623
⇒ Group Life		28,483	10,080	28,338	10,029
⇒ English Learner Teacher Payments ¹²		209,968	74,310	218,190	77,220
At-Risk (Split funded - See Lottery section below) ¹⁷		2,238,634	792,281	2,353,870	833,065
Remedial Summer School ^{7,9}		91,191	N/A ¹	101,103	N/A ¹
Subtotal - SOQ Accounts ³		16,152,117	4,908,354	16,240,040	4,904,441
Incentive Programs:					
Compensation Supplement ¹³		330,170	116,851	667,375	236,193
Academic Year Governor's School ⁸		0	N/A ¹	0	N/A ¹
Alleghany School Consolidation Incentive		0	N/A ¹	0	N/A ¹
Virginia Preschool Initiative ¹¹		323,944	114,648	323,944	114,648
Virginia Preschool Initiative - Additional Programs ¹⁵		0	N/A ¹	0	N/A ¹
School Meals Expansion		0	N/A ¹	0	N/A ¹
Supplemental GF Payments in Lieu of Food and Hygiene Tax ¹⁰		349,204	N/A ¹	350,614	N/A ¹
Math/Reading Instructional Specialists		0	0	0	0
Early Reading Specialists Initiative		0	0	0	0
Technology - VPSA ¹⁰		154,000	30,800	154,000	30,800
Subtotal - Incentive Accounts ³		1,157,318	262,299	1,495,933	381,641
Categorical Programs:					
Adult Education ⁷		0	N/A ¹	0	N/A ¹
American Indian Treaty Commitment ⁷		0	N/A ¹	0	N/A ¹
School Lunch ⁷		8,560	N/A ¹	8,560	N/A ¹
Special Education - Homebound ⁷		20,564	N/A ¹	20,769	N/A ¹
Special Education - State-Operated Programs ⁷		0	N/A ¹	0	N/A ¹
Special Education - Jails ⁷		0	N/A ¹	0	N/A ¹
Subtotal - Categorical Accounts ³		29,124	0	29,329	0
Lottery-Funded Programs					
Foster Care ⁷		0	N/A ¹	0	N/A ¹
At-Risk (Split funded - See SOQ section above) ¹⁷		818,287	289,602	698,840	247,328
Accomack-Northampton Distribution		0	N/A ¹	0	N/A ¹
⇒ Early Reading Intervention		78,606	27,820	78,606	27,820
Mentor Teacher Program		1,953	N/A ¹	1,953	N/A ¹
K-3 Primary Class Size Reduction		396,515	140,332	396,293	140,253
School Breakfast ⁷		13,665	N/A ¹	14,241	N/A ¹
⇒ SOL Algebra Readiness		41,696	14,757	38,584	13,655
Project Graduation		4,036	N/A ¹	4,036	N/A ¹
Alternative Education ^{7,8}		0	N/A ¹	0	N/A ¹
ISAP		8,203	N/A ¹	8,203	N/A ¹
Special Education-Regional Tuition ^{7,8}		5,229	N/A ¹	5,229	N/A ¹
Career and Technical Education ^{7,8}		7,614	N/A ¹	7,614	N/A ¹
Supplemental Basic Aid		0	N/A ¹	-	N/A ¹
Infrastructure and Operations Per Pupil Allocation ¹⁴		487,302	172,462	445,283	157,591
Subtotal - Lottery-Funded Programs ³		1,863,106	644,973	1,698,882	586,647
Total State & Local Funds		\$19,201,665	\$5,815,626	\$19,464,184	\$5,872,729
1 "N/A" = no local match required for this program.					
2 ADM values shown are based on the March 31 ADM projections used in the amendments adopted by the 2024 Special Session I General Assembly to the 2024-2026 biennial budget for FY 2025 and FY 2026					
3 Columns may not add due to rounding.					
4 Projected revenue estimate. Semi-monthly payments will be based on actual sales tax receipts. Pursuant to the Appropriation Act, the Basic Aid state payment calculation is based on the appropriated sales tax distribution only and is not adjusted for actual sales tax revenues received.					

Virginia Department of Education

Projected FY 2025 and Projected FY 2026 State Payments, Based on Amendments Adopted by the 2024 Special Session I General Assembly to the 2024-2026 Biennial Budget (Chapter 2)

**Standards of Quality (SOQ), Incentive, Categorical, and Lottery-Funded Programs in Direct Aid to Public Education
As of May 13, 2024**

055 LUNENBURG

NUM	DIVISION	Projected FY 2025 Unadjusted ADM ¹	Projected FY 2025 Adjusted ADM ²	Projected FY 2026 Unadjusted ADM ³	Projected FY 2026 Adjusted ADM ³
055	LUNENBURG	1,483.20	1,483.20	1,475.65	1,475.65
2024-2026 Composite Index		FY 2025		FY 2026	
0.2614		FY 2025 State Share		FY 2026 State Share	
		FY 2025 Local Share		FY 2026 Local Share	

- ¹ The amendments adopted by the 2024 Special Session I General Assembly to the 2024-2026 Biennial Budget assign the entire funding for Textbooks to the SOQ area. Required Local Effort for Textbooks is based on the payments in the SOQ area.
- ² VRS Retirement includes payments for the Retiree Health Care Credit (RHCC). Please see the Budget Variables tab for the funded RHCC rate.
- ³ Projected state payment. Final payments will be based on actual expenditures, up to the projected state payment, subject to the availability of funds.
- ⁴ Includes state funding for regional vocational, special, and alternative education programs and Academic Year Governor's Schools.
- ⁵ Payments for Remedial Summer School are based on projected FY 2025 and FY 2026 enrollment used in the amendments adopted by the 2024 Special Session I General Assembly to the 2024-2026 biennial budget.
- ⁶ Payments for the VPSA Technology Grants are made from bond proceeds on a reimbursement basis and may begin following each bond issuance. These payments include funding for the school division and the regional programs for which the division serves as the fiscal agent.
- ⁷ Payments for the Virginia Preschool Initiative are based on projected FY 2025 and FY 2026 student slots used in the amendments adopted by the 2024 Special Session I General Assembly to the 2024-2026 biennial budget.
- ⁸ Payments for English Learner Teachers projected for FY 2025 and FY 2026 are based on a new funding methodology adopted by the 2024 General Assembly. The new methodology bases state payments on student proficiency level aligned to corresponding instructional position ratios, in lieu of the current standard that provides one position per 50 identified English Language Learners. Please refer to the Account Funding Explanations tab for more detail.
- ⁹ The amendments adopted by the 2024 Special Session I General Assembly to the 2024-2026 biennial budget calculate the state share of Compensation Supplement funds based on a 3% salary increase effective July 1, 2024 and an additional 3% salary increase effective July 1, 2025 for funded SOQ instructional and support positions, Academic Year Governor's Schools, and regional alternative education centers.
- ¹⁰ The proposed per pupil funding amount for the Infrastructure and Operations Per Pupil Allocation Payment is projected at \$446.67 for FY 2025 and \$410.62 for FY 2026. Divisions will be paid up to their calculated entitlement based on actual March 31 ADM, pending sufficient appropriation. The per pupil amount is adjusted for the local composite index. Estimates will not change when local ADM projections are selected.
- ¹¹ Additional VPI programs include mixed delivery grants and additional VPI slots for 3-year olds, expanded class sizes, and waitlist students.
- ¹² According to the amendments adopted by the 2024 Special Session I General Assembly to the 2024-2026 biennial budget, the Supplemental General Fund Payments in Lieu of Food and Hygiene Tax Products shall be distributed on the basis of the latest annual estimate of school age population provided by the Weldon Cooper Center for Public Service.
- ¹³ State funding for the Prevention, Intervention, and Remediation program has been absorbed by the new At-Risk Add-on program.
- ⇒ = SOQ accounts requiring a local match for purpose of meeting Required Local Effort.
- BOLD** = Account funding based on ADM; any changes in ADM numbers will result in a change in the state payment amount.

LUNENBURG COUNTY PUBLIC SCHOOLS

FY25 BUDGET SCHOOL
BOARD APPROVED



LCPS Highlights

- Chronic absenteeism has decreased by almost 20% as compared to last year this time.
- All In Tutoring has begun on the elementary and middle school levels
- The pay accrual period has been adjusted to pay 10-month teachers at the end of the month in August as to avoid them waiting 2 months. This will enhance the recruitment process and provide more flexibility in planning the school calendar.
- The high school finished very strong first semester with all subgroups showing improvement.
- LCPS has obtained the following grants: Strong Connections, Safety Security Grant, and Mental Health Grant.

LCPS Budget Parameters

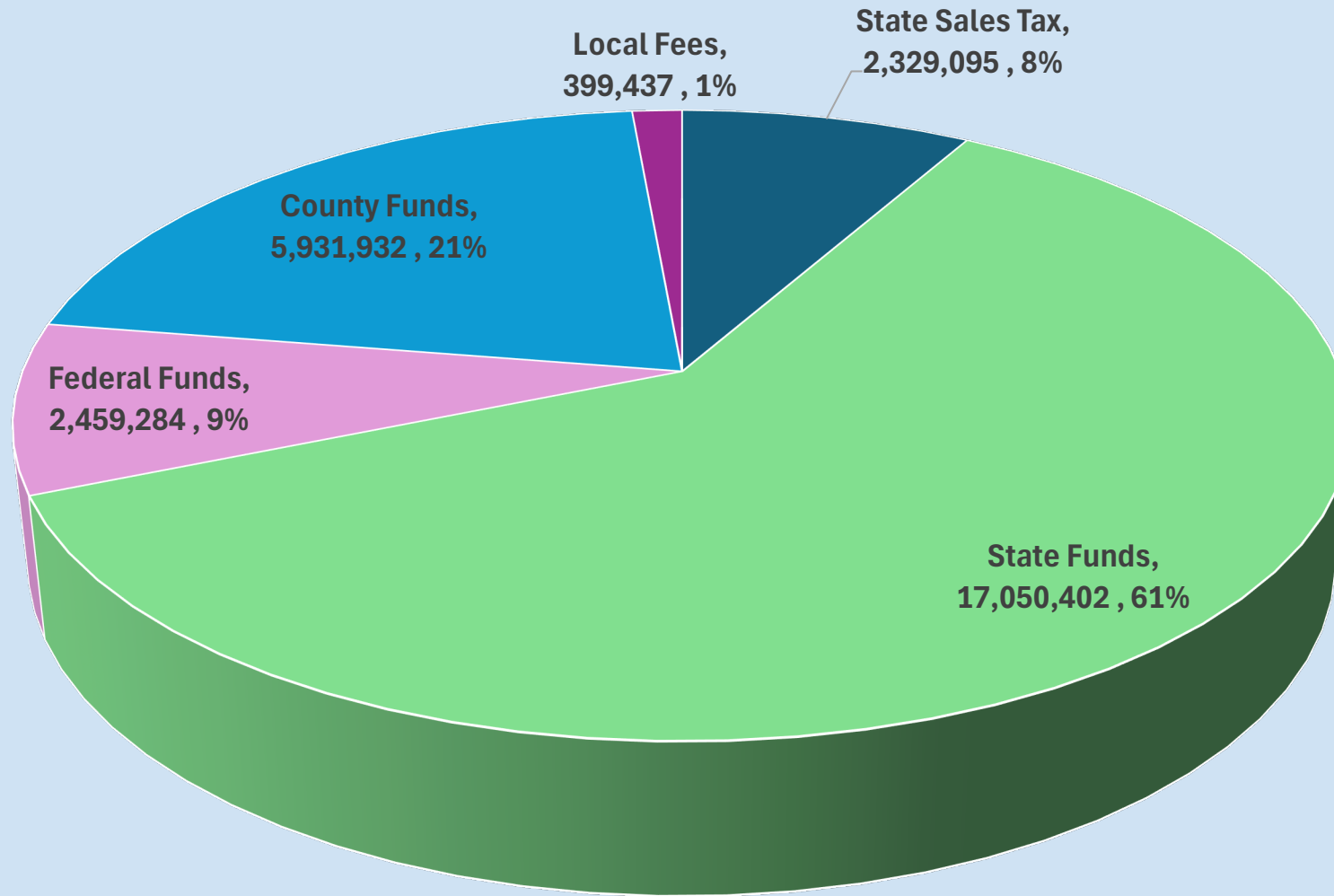
- Projected March 31 **ADM = 1483.2**
- Local Composite Index (LCI) increased from .2604 to .2614
- Increased state revenue from amended FY24 Budget to FY25
Proposed Budget is **\$2,269,972**
- Increased Local Match from FY24 Amended Budget to FY25 Proposed Budget is **\$970,714** to meet the minimum RLE and RLM
- Part of this local match will be **\$313,715** from the existing construction fund.
- Proposed revisions to VRS is **\$203,645** reduction in expenditures.
- All In Expenditure Budget reduced from FY 24 **\$881,070** to **\$0** for FY25

Compensation

Full Year Additional Cost of 2.0% Salary Increase Effective Jan 1, 2024	\$178,390
Bus drivers pay increase starting at \$75 a day	\$ 90,594
3 year phase in - New Teacher Salary Schedule	\$439,919
2 year phase in - Market Adjusted Admin Salary Scale	\$ 118,886
Market Adjusted Unified Salary Schedule	\$251,263
Market Adjusted Food Service Salary Schedule	\$ 42,291
TOTAL	\$ 942,953

REVENUE BY SOURCE - FY25 APPROVED

\$28,170,150



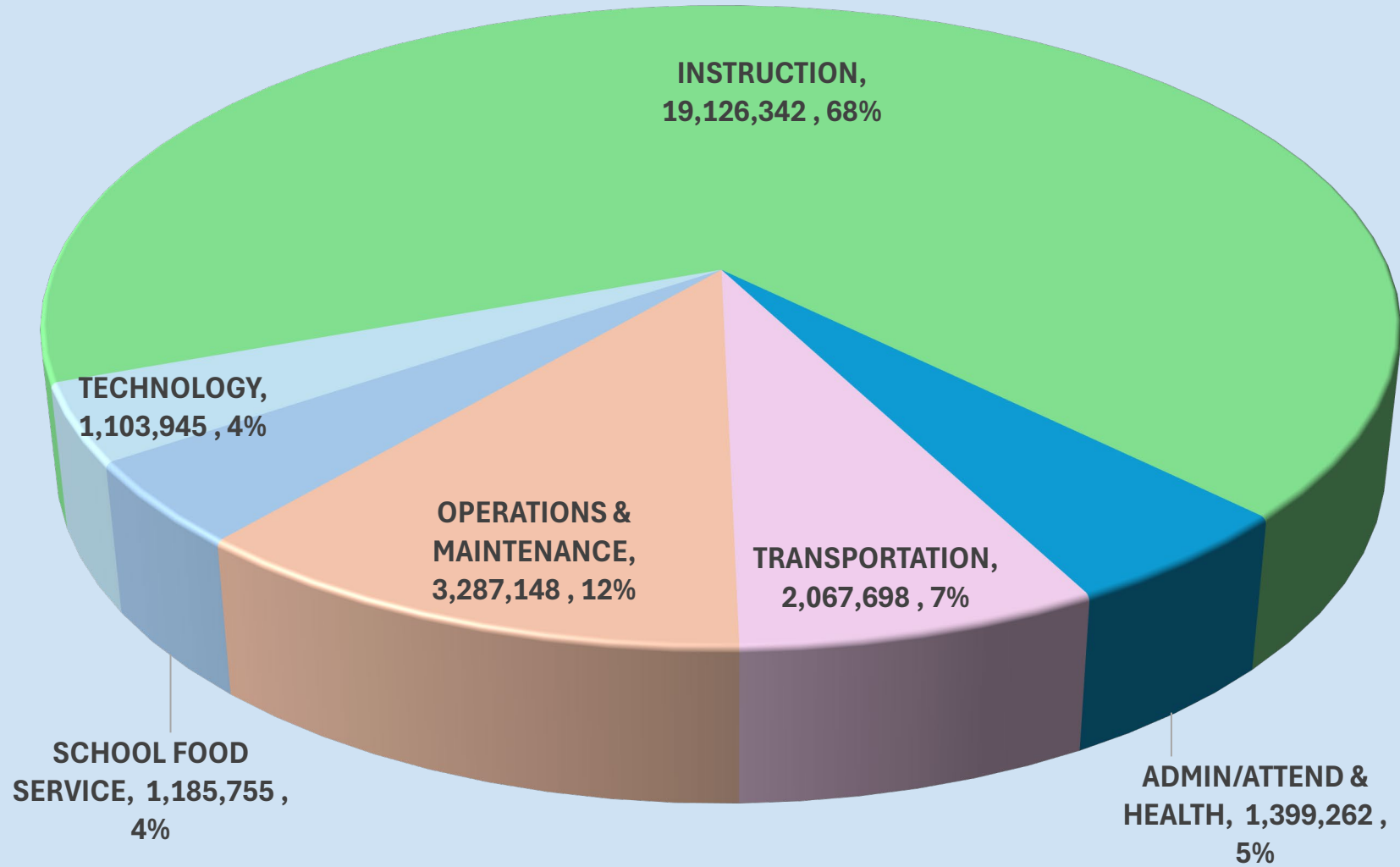
Revenue By Source

Note: FY25 County Funds include \$313,715 from the construction fund

Revenue Source	Actuals FY 23	ADM: 1485 Amended FY 24	ADM: 1483.2 APPROVED FY 25	Change	% Change
State Sales Tax	2,251,756	2,274,386	2,192,105	82,281	-3.6
State Funds	15,208,018	14,840,146	17,009,560	2,171,414	14.6%
Federal Funds	4,776,825	4,858,596	2,459,284	(2,399,312)	-49.4%
County Funds	4,785,949	4,811,014	5,815,626	1,004,612	20.9%
Local Fees	458,831	305,768	399,437	93,669	30.6%
Total	27,481,379	27,089,910	27,876,012	788,102	2.9%

EXPENDITURE BY STATE CATEGORY - FY25

\$28,170,150



EXPENDITURE BY CATEGORY

STATE CATEGORY	ACTUALS FY23	AMENDED FY24	APPROVED FY25	CHANGE	% CHG
INSTRUCTION	16,627,892	19,131,804	19,126,342	(5,462)	0.0%
ADMIN/ATTEND & HEALTH	1,463,393	1,367,372	1,399,262	31,890	2.3%
TRANSPORTATION	1,731,858	1,478,263	2,067,698	589,435	39.9%
OPERATIONS & MAINTENANCE	3,607,829	3,093,069	3,287,148	194,079	6.3%
SCHOOL FOOD SERVICE	1,282,221	1,167,931	1,185,755	17,824	1.5%
TECHNOLOGY	976,927	851,471	1,103,945	252,474	29.7%
TOTAL	25,690,120	27,089,910	28,170,150	1,080,240	4.0%

ADDITIONAL POSITIONS

KES \$ 304,753	VES \$163,626	LMS \$417,794	CHS \$74,858	Division \$407,640
<ul style="list-style-type: none">• 1 EL TEacher• 1 Assistant to Speech Pathologist• 2 Grade Level Teachers	<ul style="list-style-type: none">• 1 Assistant to Speech Pathologist• 1 Special Education Position	<ul style="list-style-type: none">• 1 Interventionist• 5 Math Teachers• 1 Special Education Teacher	<ul style="list-style-type: none">• 1 CTE Teacher	<ul style="list-style-type: none">• Remedial Summer School - (was ESSER funded FY24)• Before & After School Remediation Stipends (was ESSER funded FY24)

Total: 1,368,671

Other Expenditure Items

Eliminate ALL IN VA Grant Funds	(\$ 889,783)
Remove ESSER III Funding	(\$ 841,389)
Electronic Purchase Orders to improve efficiency	\$ 8,000
Replace Revenues - School Fees	\$ 30,000
Professional Development	\$ 40,000
Library books	\$ 20,000
Additional Software Packages	\$ 60,000
Reinstate cut to vehicle purchases	\$ 30,000
Maintain Bus Replacements - 3 Buses	\$ 420,000
Reinstate KES Pavement Repair	\$ 45,000
Capital Repairs & Maintenance	\$1,247,629

VRS RETIREMENT CHANGES

	FY24	FY25
RATE FOR DEFINED <u>BENEFIT</u> COMPONENT		
16.62% 14.21%		
RATE FOR <u>MANDATORY</u> DEFINED <u>CONTRIBUTION</u>		(incl above)
1.00%		
RATES FOR <u>OPTIONAL</u> DEFINED CONTRIBUTION – 9 TIERS		0% to 2.5%
0% to 2.5%		
EMPLOYEE ELECTION	EMPLOYER MATCH	
0.5%	0.5%	
1.0%	1.0%	
1.5%	1.25%	
2.0%	1.50%	
2.5%	1.75%	
3.0%	2.00%	
3.5%	2.25%	
4.0%	2.50%	

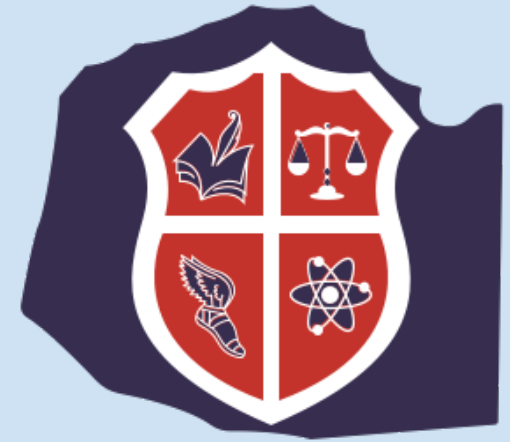
VRS Retirement – Hybrid Changes

- **Employer must begin managing optional defined contributions**
 - Previously managed by state retirement system
- **Employee may change optional contribution % quarterly**
 - Employer's matching cost will vary as employees increase/decrease optional contributions
 - Year 1 (FY25) the net effect will be a decrease in retirement expense of approximately **\$203,645.**
 - Year 2 and after will likely increase as employees elect to contribute greater % to their retirement and new employees become part of the hybrid retirement plan
 - Employees new to VRS after January 1, 2014 are placed in hybrid plan

Health Insurance Changes

Rate Increase- 20%	\$264,572
Increased Participation	\$170,493

LCPS 2024-2025 Proposed Budget



BUDGET COMPARISON WORKSHEET FY2025											
CATEGORY	FY2023 BUDGET		above/ below	CURRENT FY2024 BUDGET		%	FY2024 Projected	%	FY2024 PROPOSED		
REVENUE: 100	BUDGET	FINAL	projection	BUDGET	As of 3/31/24	Received	Year-end	Received	BUDGET	Difference	
1 Real Estate Tax	-3,475,000	(3,543,082)	68,082	-3,650,000	(1,771,792)	49%	(3,809,353)	104%	-4,000,000	350,000	Reassessment
2 PP Tax	-2,550,000	(2,925,836)	375,836	-2,700,000	(1,587,646)	59%	(3,175,292)	118%	-3,000,000	300,000	Values up
3 Mobile Home	-21,000	(22,659)	1,659	-20,000	(11,449)	57%	(22,898)	114%	-22,000	2,000	
4 Registration Fees	-210,000	(213,132)	3,132	-210,000	(21,558)	10%	(43,116)	21%	-212,000	2,000	
5 Machinery & Tools	-275,000	(311,096)	36,096	-260,000	(162,816)	63%	(325,632)	125%	-300,000	40,000	
6 Merchant's Capital	-85,000	(125,220)	40,220	-80,000	(71,774)	90%	(143,548)	179%	-100,000	20,000	
7 Public Service	-260,000	(223,942)	(36,058)	-250,000	(90,329)	36%	(180,658)	72%	-230,000	(20,000)	
8 Delinquent Taxes	-90,000	(246,849)	156,849	-119,000	(114,156)	96%	(142,695)	120%	-125,000	6,000	
9 Interest/Penalty Taxes	-90,000	(151,236)	61,236	-100,000	(111,209)	111%	(139,011)	139%	-120,000	20,000	
10 Local Sales/Use Tax	-450,000	(642,734)	192,734	-530,000	(395,238)	75%	(494,048)	93%	-550,000	20,000	based on recent
11 Consumer Utility Tax	-20,000	(24,232)	4,232	-20,000	(16,198)	81%	(20,248)	101%	-20,000	0	
12 Record/Will/Deeds Tax	-58,000	(95,609)	37,609	-69,000	(67,197)	97%	(83,996)	122%	-70,000	1,000	
13 Interest/Penalty Clerk	-500	(1,064)	564	-1,000	(830)	83%	(1,038)	104%	-1,000	0	
14 Animal License Fees	-6,000	(5,480)	(520)	-6,000	(4,110)	69%	(5,138)	86%	-5,000	(1,000)	
15 Animal Fines/Kennel Fees	-3,000	(1,575)	(1,425)	-5,000	(2,740)	55%	(3,425)	69%	-3,000	(2,000)	
16 Transfer Fees	-300	(526)	226	-400	(302)	76%	(378)	94%	-400	0	
17 Building Permits	-30,000	(30,571)	571	-135,000	(27,379)	20%	(34,224)	25%	-45,000	(90,000)	solar not added
18 Septic Permits	-400	(250)	(150)	-400	(600)	150%	(750)	188%	-500	100	
19 Events	0	(1,500)		-2,200	(3,500)		(4,375)		-3,500	1,300	
20 Conditional Use Permits	-7,500	(12,400)	4,900	-10,000	(9,858)	99%	(12,323)	123%	-10,000	0	
21 FOIA Fees				0	(225)		(225)		0	0	
22 County Landfill Host Fees	-450,000	(563,583)	113,583	-450,000	(272,494)	61%	(340,618)	76%	-650,000	200,000	
23 Landfill Liaison Fee	-72,000	(75,057)	3,057	-75,000	(38,920)	52%	(48,650)	65%	-78,000	3,000	
24 Local Fines	-3,000	(4,337)	1,337	-3,000	(6,279)	209%	(7,849)	262%	-4,000	1,000	
25 CH Renovation Fees	-2,500	(2,399)	(101)	-2,000	(1,646)	82%	(2,058)	103%	-2,000	0	
26 Clerk Misc Fees	-7,000	(8,061)	1,061	-7,000	(4,555)	65%	(5,694)	81%	-7,000	0	
27 Courthouse Security Fees	-10,000	(17,387)	7,387	-12,000	(12,206)	102%	(15,258)	127%	-14,000	2,000	
28 E-Summons Fee	-1,000	(2,075)	1,075	-1,000	(1,673)	167%	(2,091)	209%	-1,000	0	
29 Prisoner Processing Fees	-500	(931)	431	-500	(599)	120%	(749)	150%	-500	0	
30 Interest-Cking/Investments	-13,000	(41,318)	28,318	-22,000	(271,924)	1236%	(339,905)	1545%	-350,000	328,000	Sweep accounts
31 Rent/Property Receipts	-31,700	(31,733)	33	-31,700	(24,800)	78%	(31,000)	98%	-31,700	0	
32 Sheriff/Comm Atty Fees	-650	(791)	141	-600	(746)	124%	(908)	151%	-600	0	
33 Judgment Reimbursement				0	(8,957)		(8,957)		0	0	
34 TDO/ECO DCJS grant				0					-2,000	2,000	
35 Blood DNA Test	-200	(241)	41	-200	(102)	51%	(128)	64%	-100	(100)	
36 Document Reproduction Costs	-2,000	(1,699)	(301)	-2,000	(1,740)	87%	(2,175)	109%	-1,500	(500)	
37 Comm. Atty. Fees	-800	(956)	156	-800	(779)	97%	(974)	122%	-800	0	
38 Misc Refunds		(86)	86		(14,597)		(18,246)		0	0	

	CATEGORY	FY2023 BUDGET		above/ below	FY2024 BUDGET		%		%	FY2025 PROPOSED		
	REVENUE: 100	BUDGET	FINAL	projection	BUDGET	As of 3/31/24	Received	FY24 Projection	Received	BUDGET	Difference	
39	Unclaimed Taxes		(49,991)	49,991		(16,507)				0	0	
40	Miscellaneous & Surplus		(4,029)	4,029		(14,084)		(8,503)		0	0	
41	DMV Stops	-25,000	(32,375)	7,375	-25,000	(25,375)	102%	(31,719)	127%	-30,000	5,000	
42	Town Contributions	-5,000		(5,000)	-5,000		0%	0	0%	-5,000	0	
43	Siting Agreement	0	(126,666)							0		
44	Opioid Settlement	0	(26,232)			(6,098)				0		
45	DMV Mobile Home Titling Tax	-20,000	(31,528)	11,528	-30,000	(36,937)	123%	(46,171)	154%	-32,000	2,000	
46	Railroad Rolling Stock	-4,000	(4,765)	765	-4,000		0%	0	0%	-4,000	0	
47	PPTRA - State Reimburse	-1,048,240	(1,048,232)	(8)	-1,048,200	(995,821)	95%	(1,048,232)	100%	-1,048,200	0	
48	DMV Rental Tax	-600	(802)	202	-600	(919)	153%	(1,149)		-800	200	
49	DMV Animal Plates	-100	(158)	58	-100	(114)	114%	(143)	143%	-100	0	
50	DMV Moped ATV Tax	-500	(2,132)	1,632	-600	(830)	138%	(1,038)	173%	-1,500	900	
51	Constitutional Offices											
52	Comm. Atty.	-313,520	(273,667)	(39,853)	-320,000	(180,264)	56%	(225,330)	70%	-344,900	24,900	Comp
53	Sheriff	-850,000	(836,950)	(13,050)	-920,000	(601,315)	65%	(751,644)	82%	-996,000	76,000	Board
54	Comm. Of Revenue	-101,000	(118,102)	17,102	-126,000	(84,084)	67%	(105,105)	83%	-135,300	9,300	and State
55	Treasurer	-112,000	(114,391)	2,391	-122,000	(77,287)	63%	(96,609)	79%	-138,600	16,600	Estimates
56	Registrar	-57,000	(66,084)	9,084	-65,000		0%	0	0%	-70,000	5,000	
57	Clerk Circuit Court	-240,000	(242,169)	2,169	-258,000	(171,028)	66%	(213,785)	83%	-274,000	16,000	
58	Library of VA - Clerk		(28,375)	28,375	-54,558	(54,558)		(68,198)		0		
59	Clerk TTF		(111,460)	111,460	-110,726					0		
60	Victim Witness Coordinator	-75,000	(70,959)	(4,041)	-66,000	(33,669)	51%	(42,086)	64%	-66,000	0	
61	School Resource Officer	-129,600	(126,131)	(3,469)	-154,500	(36,802)		(39,000)		-154,500	0	SRO grants
62	Fire Program ATL	-41,000	(36,470)	(4,530)	-36,000	(40,927)	114%	(40,200)	112%	-36,000	0	
63	Four-for-Life EMS	-13,500	(12,303)	(1,197)	-12,000		0%	(12,000)	100%	-12,000	0	OEMS?
64	Radiocache	-100,000	(29,148)	(70,852)	-75,000	(187,407)	250%	(234,259)	312%	-60,000	(15,000)	grant amount
65	SHSP Radio Grant					(90,000)		(90,000)				
66	Selective Enforcement	-4,000	(5,869)	1,869	0	(6,099)		(7,624)	#DIV/0!		0	
67	LEMPGrant	-7,500	(5,567)	(1,933)	-7,500		0%	0		-7,500	0	
	CATEGORY	FY2023 BUDGET		above/ below	FY2024 BUDGET		%		%	FY2025 PROPOSED		
	TRANSFERS IN:	BUDGET	FINAL	projection	BUDGET	As of 3/31/24	Received		Received	BUDGET	Difference	
68	DCJS LE Grant			0		(2,888)		(3,610)		0		
69	ARPA Local LE				-259,000	(144,020)				0		one-time grant
70	Byrne JAG Grant		(3,825)	3,825				0		0		
71	TRANSFER in Solid Waste 137			0				0				
72	BEG FUND BALANCE SCHOOL	-258,026			-166,315	moved -313715		0		-313,715	147,400	
73	TRANSFER from Reserve	-\$1,453,599	\$0	-\$1,453,599	-\$1,575,234	\$0		\$0		-\$1,165,547	-\$409,687	USE OF RESERVE
74	ANNUAL REVENUE TOTAL	-\$13,085,235	-\$12,738,027	-\$243,580	-\$14,217,133	-\$7,939,956	\$54	-\$12,534,028		-\$14,856,262	\$1,061,413	

	CATEGORY	FY2023 BUDGET		above/ below	FY2024 BUDGET		%	0	%	FY2025 PROPOSED		
	General Fund EXPENSE:	BUDGET	FINAL	projection	BUDGET	As of 3/31/24	Spent	FY24 Projection	Spent	BUDGET	Difference	
75	BOS	54,070	48,544	(5,526)	55,070	42,548	77%	53,185	97%	55,000	(70)	
76	County Administration	299,970	297,959	(2,011)	325,000	240,533	74%	300,666	93%	345,750	20,750	
77	Professional Services	115,000	131,299	16,299	130,000	140,112	108%	155,000	119%	130,000	0	
78	Comm. Of Revenue	246,860	249,976	3,116	254,100	199,970	79%	249,963	98%	281,500	27,400	
79	Treasurer	263,440	260,771	(2,669)	271,000	206,569	76%	258,211	95%	277,100	6,100	
80	Data Processing	64,000	76,367	12,367	82,000	131,903	161%	135,000	165%	75,000	(7,000)	
81	Electoral Board	61,900	55,791	(6,109)	72,100	91,081	126%	106,000	147%	94,550	22,450	3 elections/maint cont
82	Registrar	148,140	151,609	3,469	157,750	138,177	88%	172,721	109%	172,400	14,650	
83	Circuit Court	13,400	1,012	(12,388)	12,000	670	6%	11,000	92%	12,000	0	
84	General District Court	2,600	2,692	92	2,500	1,732	69%	2,165	87%	2,600	100	
85	Magistrate	1,325	1,595	270	1,550	1,065	69%	1,500	97%	1,550	0	
86	Juv/Domestic Court	78,300	108,230	29,930	67,350	37,160	55%	55,740	83%	67,350	0	
87	Juv Det Ctr Debt 2023-2038				41,200	41,214	100%	41,214	100%	45,200	4,000	back to \$43,200 FY26
88	Clerk Circuit Court	342,660	336,359	(6,301)	361,000	274,105	76%	342,631	95%	378,500	17,500	
89	Library of VA Grant		28,375	28,375	54,558	54,558	100%	54,558		0		
90	Clerk Technology TF		111,460	111,460	110,726	67,316		84,145		0		
91	Courthouse Security	21,600	17,607	(3,993)	21,600	13,506	63%	16,883	78%	19,800	(1,800)	
92	Victim/Witness Coord	74,280	71,685	(2,595)	69,350	52,293	75%	65,366	94%	76,450	7,100	
93	Comm. Attorney	387,000	348,612	(38,388)	406,600	241,576	59%	301,970	74%	409,000	2,400	
94	Sheriff's Office	1,368,500	1,456,326	87,826	1,986,800	1,427,867	72%	1,986,800	100%	2,235,000	248,200	Staff support & SRO
95	Fire/Rescue Appropriations	194,900	194,240	(660)	194,100	149,775	77%	187,219	96%	444,100	250,000	EMS SUPPORT
96	Radiocache Grant	100,000	148,640	48,640	75,000	18,288	24%	75,000	100%	60,000	(15,000)	
97	CODE RED/LEMP Grant	15,000	8,277	(6,723)	15,000	6,556	44%	15,000	100%	15,000	0	
98	Fire Programs/EMS State	54,500	54,773	273	48,000	40,927	85%	51,159	107%	48,000	0	
99	Piedmont Regional Jail	725,000	515,277	(209,723)	847,000	722,750	85%	844,000	100%	840,000	(7,000)	new CB funding
100	PRJ Debt 2018-2033		49,932		50,000	49,930		49,930		50,000		
101	Building Official	104,360	101,916	(2,444)	109,220	81,136	74%	101,420	93%	116,700	7,480	
102	Animal Control	134,330	130,849	(3,481)	156,770	128,930	82%	161,163	103%	165,630	8,860	FT deputy
103	Buildings & Grounds	245,090	234,684	(10,406)	256,700	204,805	80%	256,006	100%	274,000	17,300	electric & ins
104	Health Dept	95,500	86,324	(9,176)	98,500	85,066	86%	98,500	100%	88,000	(10,500)	
105	Medical Examiner	200	220	20	200	80	40%	100	50%	200		
106	Crossroads	53,000	53,000	0	57,700	43,228	75%	57,700	100%	64,630	6,930	
107	Madeline's House	2,000	2,000	0	3,000	3,000	100%	3,000		7,000	4,000	
108	Planning/Zoning/JCP	16,100	10,987	(5,113)	40,700	39,772	98%	49,715	122%	43,400	2,700	Comp Plan Yr. 2
109	Community Dev	297,480	300,801	3,321	302,230	250,454	83%	302,230	100%	318,680	16,450	minor adjustments
110	Econ/Comm Dev Dept	85,890	85,384	(506)	93,220	68,773	74%	85,966	92%	101,400	8,180	
111	IDA Tax Incentives	67,000	62,882	(4,118)	50,000	0	0%		0%	50,000	0	
112	Cooperative Extension	51,800	30,160	(21,640)	55,510	22,554	41%	28,193	51%	61,700	6,190	
113	WC/LODA/Liability Ins.	73,500	75,660	2,160	77,000	76,487	99%	76,487	99%	85,000	8,000	WC increase
114	Refunds/DMV Stops	25,000	32,475	7,475	25,000	20,125	81%	25,156	101%	30,000	5,000	

	CATEGORY	FY2023 BUDGET		above/ below	FY2024 BUDGET		%	0	%	FY2025 PROPOSED		
	EXPENSE: 100	BUDGET	FINAL	projection	BUDGET	As of 3/31/24	Spent	FY24 Projection	Spent	BUDGET	Difference	
115	Capital Improvements	200,000	128,381	(71,619)	155,000	2,301	1%	150,000	97%	75,000	(80,000)	
116	Reserve for Contingency			0				0				
117	Total for GF Departmental Expenses	\$6,083,695	\$6,013,199	-\$70,496	\$7,192,104	\$5,418,892		\$6,773,615		\$7,617,190	\$425,086	
	Transfers to Other Funds											
118	Reassessment	50,000	50,000		180,000	134,923		134,923	75%	0	(180,000)	complete
119	911 Fund									0	0	911 fund depleted
120	Airport fund 221	5,000	8,072	3,072	77,100	77,100	100%		0%	18,700	(58,400)	
121	Schools 250	4,662,614	4,742,168	79,554	4,811,014	4,511,019	94%	3,810,700	79%	5,451,657	640,643	RLM 1,483 ADM
122	Schools Carryover 250	258,026		(258,026)	166,315					0	(166,315)	
123	Social Services 260	190,000	98,658	(91,342)	205,000	135,570	66%	205,000	100%	247,000	42,000	full staff
124	CSA 262	325,000	439,018	114,018	224,000	-6,929	-3%	250,000	112%	225,000	1,000	
125	Voting Machine Fund 319	5,000		(5,000)	5,000			5,000	100%	0	(5,000)	
126	School Carryover to 320				0	moved 313,715		313,715		313,715	313,715	
127	ED Grants Fund 226										0	
128	Debt Service 420	1,506,900	1,506,839	(61)	1,504,000	950,142	63%	1,438,000	96%	983,000	(521,000)	
129	Total Transfers:	7,002,540	6,844,755	-157,785	7,172,429	5,801,825		5,843,623		7,239,072	66,643	
130	Totals General Fund:	\$13,086,235	\$12,857,954	-\$228,281	\$14,364,533	\$11,220,717		12,617,238		\$14,856,262	\$491,729	
131	USE OF RESERVE:				\$147,400	School carryover change				0	will be on #71	
	SPECIAL FUNDS:	FY2023 BUDGET		above/ below	FY2024 BUDGET					FY2025 PROPOSED		
	Reassessment Fund 132	BUDGET		projection	BUDGET					BUDGET	Difference	
132	Reassessment Transfers IN	-50,000		50,000	-180,000					0	(180,000)	
133	Reassessment Fund Balance				-100,000	?						
134	Reassessment Expense	50,000			280,000					0	280,000	
	Fund balance											
135	135			0								
136	Solid Waste Revenue	-180,000		180,000	-193,000					-193,000	0	
137	Solid Waste Transfers IN	-135,300			-119,300					-162,000	42,700	
138	Solid Waste Expense	315,300		-315,300	312,300					355,000	(42,700)	
139	Solid Waste Transfers OUT											
140	Solid Waste Operations	315,300		-315,300	312,300					355,000	(42,700)	
	Fund balance					506,913						
141	Solid Waste Sites 137											
142	SW Fund Balance Transfer IN	-114,000			-114,000					-117,000		
143	SW 137 Revenue Total	-114,000			-114,000					-117,000		
144	SW Transfer to GF to balance											
145	SW Sites Expense			0	114,000					117,000		
146	Solid Waste Sites	114,000			114,000					117,000		
147	SW Site Cap Outlay ending Fund Bal					384,464						
	SPECIAL FUNDS:	FY2023 BUDGET		above/ below	FY2024 BUDGET					FY2025 PROPOSED		

148	213	<u>BUDGET</u>		<u>projection</u>	<u>BUDGET</u>					<u>BUDGET</u>	<u>Difference</u>	
149	Law Library Revenue	-1,000		1,000	-1,000					-1,000		
150	Law Library Expense	1,000			1,000					1,000		
151	215											
152	E-911 Fund Revenue State	-40,000		40,000	-48,000					-45,000	3,000	
153	transfer from GF			0						0		
154	Revenue from Solar 225			0	-100,000					-102,000	(2,000)	Solar Siting \$\$\$
155	Transfer in from Fund Balance	-123,760		123,760	-90,000					-100,000	(10,000)	Depleted Fund
156	E-911 Fund Revenue Comm Tax	-140,000		140,000	-145,000					-140,000	5,000	
157	Total Revenue	-303,760		303,760	-383,000					-387,000	(4,000)	
158	E-911 Expense	118,760		-118,760	383,000					387,000	4,000	Radio costs
159	Transfer to EMS Capital	185,000			0					0	0	No transfer
160	Total	303,760		-303,760	383,000					387,000	4,000	
161	911 Fund Balance					-131,947						
	<u>SPECIAL FUNDS:</u>	<u>FY2023 BUDGET</u>		<u>above/ below</u>	<u>FY2024 BUDGET</u>					<u>FY2025 PROPOSED</u>		
		<u>BUDGET</u>		<u>projection</u>	<u>BUDGET</u>					<u>BUDGET</u>	<u>Difference</u>	
	221											
162	Airport Fund Revenue	-40,400			-900,300					-10,300	890,000	
163	Transfer IN from GF	-5,000			-77,100					-18,700	58,400	
164	Total Airport Revenue	-45,400			-977,400					-29,000	948,400	paving done
165	Airport Fund Expense	45,400		-45,400	977,400					29,000	(948,400)	no grants yet
166	Fund Balance					22,113						
167	225											
168	Econ Dev Fund revenue				-1,573,000					0		
169	use of fund balance	-2,400								-102,000	(102,000)	to cover 911
170	Total Expense	2,400			1,573,000					102,000	(1,471,000)	
171	Econ Dev Fund Bal 225					830,612						
172	226											
173	Econ Dev Grant Funds Rev State/Fed	0		0	-15,000					0		
174	Econ Dev Fund Bal Transfer IN 225			0								
175	Econ Dev Match Funds Local			0								
176	Econ Dev Revenue Total	0		0	-15,000					0		
177	Econ Dev Expense	0		0	15,000					0		
178	226 Fund balance					52,958						
	<u>SPECIAL FUNDS:</u>	<u>FY2023 BUDGET</u>		<u>above/ below</u>	<u>FY2024 BUDGET</u>					<u>FY2025 PROPOSED</u>		

		<u>BUDGET</u>	<u>projection</u>	<u>BUDGET</u>					<u>BUDGET</u>	<u>Difference</u>	
179	250										
180	School Fund Revenue										
181	State Sales Tax	-2,087,296	(2,087,296)	-2,274,386				-2,329,095	54,709		
182	State Funds	-15,030,475	(15,030,475)	-14,221,455				-16,867,563	2,646,108		
183	Federal Funds	-2,726,920	(2,726,920)	-2,244,573				-2,459,284	214,711		
184	County Funds Transfer	-4,662,614	(4,662,614)	-4,811,014	Modified by			-5,451,657	640,643	819,715 in fund 355	
185	CARES Act Relief ESSER II&III	-4,575,544		-2,224,090	Supplements			0	(2,224,090)		
186	Prior Year Carryover	-258,026		166,315	for grants and			0		RLE	
187	Other	-216,825	(216,825)	-216,822	other funding			-399,437	182,615		
188	Total Revenue	-29,557,700	(29,557,700)	-25,992,340	-27,975,581			-27,507,036	(1,514,696)		
189	School Fund Expense	29,557,700	(29,557,700)	25,992,340	27,975,581			27,507,036	1,514,696		
190	260										
191	Soc Serv Revenue State	-544,000	-544,000	-557,200				-563,000	(5,800)		
192	Soc Serv Local Transfer	-190,000	-190,000	-205,000				-247,000	(42,000)		
193	Soc Serv Revenue Fed	-900,000	-900,000	-835,800				-865,000	(29,200)		
	<u>SPECIAL FUNDS:</u>	<u>FY2023 BUDGET</u>	<u>above/ below</u>	<u>FY2024 BUDGET</u>				<u>FY2025 PROPOSED</u>			
		<u>BUDGET</u>	<u>projection</u>	<u>BUDGET</u>				<u>BUDGET</u>	<u>Difference</u>		
194	Soc Serv Revenue Total	-1,645,000	-1,634,000	-1,605,000				-1,675,000	(70,000)		
195	Social Services Expenses	1,645,000	1,645,000	1,605,000				1,675,000	70,000		
	262										
196	CSA Revenue State	-865,000	-865,000	-908,000				-877,000	(31,000)		
197	CSA Revenue Local Transfer	-325,000	-325,000	-224,000				-225,000	1,000		
198	CSA Reimburse Local		0								
199	CSA Revenue Total	-1,190,000	-1,190,000	-1,132,000				-1,102,000	(30,000)		
200	CSA Expense	1,190,000	-1,190,000	1,132,000				1,102,000	30,000		
201	280										
202	CARES Act Fund Rev	-1,184,465	1,184,465						0		
203	CARES Act Fund Balance	-900,000	900,000	-1,127,000	-707,815			-677,000			
204	CARES Act Fund Total	-2,084,465	2,084,465	-1,127,000				-677,000	(450,000)		
205	CARES Act Fund Expense	2,084,465	-2,084,465	1,127,000				677,000	450,000		
206	316										
207	Emerg Capital Revenue/Grants	-185,000		-50,000				-50,000	0		
208	Revenue from Solar Siting Agreement		0	-410,000				-360,000	(50,000)		
209	Emerg Capital Fund Balance		0		-526,247				0	Meridian	
210	Fire/Rescue Total Revenue	-537,950	537,950	-460,000				-410,000	(50,000)		
211	Fire/Rescue Capital Expense	537,950	-537,950	460,000				410,000	50,000		
212	317										
213	Proj Lifesaver Revenue Total	-800	800	-800				-1,000	200		
214	Project Lifesaver Capital Outlay	800	-800	800				1,000	(200)		
	<u>SPECIAL FUNDS:</u>	<u>FY2023 BUDGET</u>	<u>above/ below</u>	<u>FY2024 BUDGET</u>				<u>FY2025 PROPOSED</u>			

		<u>BUDGET</u>		<u>projection</u>	<u>BUDGET</u>					<u>BUDGET</u>	<u>Difference</u>	
215	319											
216	Voting Machine Transfer In	-5,000			-5,000					0	(5,000)	
217	Voting Machine Fund Expense	5,000		-5,000	5,000					0	5,000	
218	Voting Machine Fund Bal											put in reg budget
219	320											
220	Capital Outlay Fund											
221	Bond Proceeds (LUIS)	-2,500,000			-1,200,000					0		
222	Use of Carryover				-75,000					0		
223	School Prior Yr Carryover				0					0	0	
224	Capital Outlay Fund Balance				0	-1,536,996					0	School Construction
225	Capital Outlay & Transfers	2,500,000		(2,500,000)	-1,275,000					0	1,275,000	
226	Total Capital Outlay	2,500,000			1,275,000					0	(1,275,000)	
227												
228	355											
229	School Construction Fund											
230	School Prior Yr Carryover									-313,715	313,715	
231	School				0					-1,439,108	1,439,108	
232	Capital Outlay School	2,500,000		(2,500,000)						-1,752,823	527,823	from 320 to 355
233	Total Capital Outlay	2,500,000								1,752,823	527,823	
234		<u>BUDGET</u>		<u>projection</u>	<u>BUDGET</u>					<u>BUDGET</u>	<u>Difference</u>	
235	420											
236	Debt Service Transfer	-1,506,900		-1,506,900	-1,504,000					-983,000	(521,000)	
237	Transfer in Fund 320											
238	Debt Service Refunds 2010 QSCB Int	-143,000		-143,000	-143,000					-143,000		
239	Total Debt Service Revenue	-1,649,900		-1,649,900	-1,647,000					-1,126,000	(521,000)	
240	Debt Service Schools	984,560		-984,560	983,200					977,000	(6,200)	
241	Debt Service Courthouse	514,220		-514,220	513,700					0	(513,700)	
242	Debt Service LUIS/bond	149,910		-149,910	148,900					148,000	(900)	
243	Fees	1,210			1,200					1,000		
244	Debt Service Expense	1,649,900		-1,649,900	1,647,000					1,126,000	(521,000)	
245	Total Revenue General Fund	-13,085,235		-243,580	-14,217,133					-14,856,262	(639,129)	
246	Total Revenue/Transfers Special Funds	-40,002,675		-30,873,625	-36,899,840					-35,241,859	1,657,981	
247	Total All Special Funds	40,002,675		-34,045,275	36,899,840					35,241,859	(1,657,981)	
248	Total Expense General Fund	13,086,235		-228,281	14,364,533					14,856,262	491,729	
249	Budget Totals:	53,088,910		-34,273,556	51,264,373					50,098,121	(1,166,252)	

LUNENBURG COUNTY, VIRGINIA
PROPOSED BUDGET FOR THE YEAR ENDING JUNE 30, 2025

UPDATED FOR CHANGES FROM 5-23-24 BUDGET PUBLIC HEARING

<u>TAX LEVIES - PROPOSED BUDGET</u>	ADOPTED	PROPOSED	
<u>TAX LEVY Category</u>	<u>2023 Calendar Year</u>	<u>2024 Calendar Year</u>	
Real Estate	\$0.38	\$0.33	
Personal Property	\$3.80	\$3.80	
Merchant's Capital	\$1.20	\$1.20	
Aircraft	\$2.10	\$2.10	
Machinery & Tools	\$1.80	\$1.80	
Mobile Homes/Barns	\$0.38	\$0.33	
			Tax Levies are based on a Calendar Year and the Proposed Budget is based on a Fiscal Year (July 1-June 30). The Fiscal Year budget potentially sets rates for two different calendar years of tax collection. Tax levies are based on a per \$100 assessed value. The 2024 levies include the previously adopted tax rate adjustment from \$0.38/\$100 to \$0.33/\$100 in valuation following the reassessment adopted in January 2024.
			GENERAL FUND TRANSFER TO:
			FY 2024 ADOPTED FY 2025 PROPOSED
			Reassessment Fund 180,000 0
			Airport Fund 77,100 18,700
			School Fund 4,811,014 5,451,657
			School (Carryover) to <u>Construction Fund</u> 166,315 313,715
			Social Services 205,000 247,000
			C.S.A./At-Risk Fund 224,000 225,000
			Voting Machine Fund 5,000 0
			Debt Service <u>1,504,000</u> <u>983,000</u>
			Total Transfers to other Funds 7,172,429 7,239,072
			TOTAL GENERAL FUND EXPENDITURES 14,364,533 14,856,262
GENERAL FUND REVENUES	FY 2024 ADOPTED	FY 2025 PROPOSED	
Real Estate Taxes	-3,650,000	-4,000,000	
Personal Property Taxes	-2,700,000	-3,000,000	
Mobile Home	-20,000	-22,000	
Registration Fees	-210,000	-212,000	
Machinery & Tools	-260,000	-300,000	
Merchant's Capital	-80,000	-100,000	
Public Service Corporations	-250,000	-230,000	
Delinquent Tax Collections	-119,000	-125,000	
Interest/Penalty on Taxes	-100,000	-120,000	
Local Sales & Use Taxes	-530,000	-550,000	
Consumer Utility Consumption Tax	-20,000	-20,000	
Taxes on Recordation & Wills	-69,000	-70,000	
Interest/Penalties-Clerk	-1,000	-1,000	
Animal Licenses	-6,000	-5,000	
Animal Fines/Kennel Fees	-5,000	-3,000	
Transfer Fees	-400	-400	
Building Permits	-135,000	-45,000	
Septic Permits	-400	-500	
Event Permits/Fees	-2,200	-3,500	
Conditional Use Permits	-10,000	-10,000	
Landfill Host Fees	-450,000	-650,000	
Landfill Liaison Fee	-75,000	-78,000	
County Fines & Fees	-3,000	-4,000	
Courthouse Renovation Fees	-2,000	-2,000	
Clerk -Misc Fees	-7,000	-7,000	
Courthouse Security Fees	-12,000	-14,000	
e-Summons Fees	-1,000	-1,000	
Prisoner Processing Fees	-500	-500	
Interest Checking/Investments	-22,000	-350,000	
Rental/General Property	-31,700	-31,700	
Sheriff/Comm. Atty. Fees	-3,600	-5,000	
DMV Stops	-25,000	-30,000	
Town Contributions/Grants	-5,000	-5,000	
DMV Mobile Home Tax	-30,000	-32,000	
Railroad Rolling Stock	-4,000	-4,000	
DMV Animal Plates	-100	-100	
DMV Rental Tax	-600	-800	
DMV Moped ATV	-600	-1,500	
PPTRA-State Reimbursement	-1,048,200	-1,048,200	
Constitutional Offices-State Reimbursement	-1,811,000	-1,958,800	
Grants	-610,000	-336,000	
School Carryover from Fund Balance	-313,715	-313,715	
<u>Use of General Fund Reserve</u>	<u>-1,722,634</u>	<u>-1,165,547</u>	
TOTAL GENERAL FUND REVENUES	-14,346,649	-14,856,262	
			SPECIAL FUNDS:
			FY 2024 ADOPTED FY 2025 PROPOSED
			<u>Reassessment Fund</u>
			<u>Transfers in & Use of Fund Balance</u> -280,000 0
			<u>Expenditures</u> 280,000 0
			<u>Solid Waste Operations Fund</u>
			<u>Revenue/Use of Fund Balance</u> -312,300 -355,000
			<u>Expenditures</u> 312,300 355,000
			<u>Solid Waste Convenience Sites</u>
			<u>Revenue/Use of Fund Balance</u> -114,000 -117,000
			<u>Sites Expense & Construction</u> 114,000 117,000
			<u>Law Library</u>
			<u>Revenue</u> -1,000 -1,000
			<u>Expenditures</u> 1,000 1,000
			<u>E-911 Fund</u>
			State Revenue -193,000 -185,000
			Solar Siting Agreement Revenue -100,000 -102,000
			Transfer in from Fund Balance <u>-90,000</u> <u>-100,000</u>
			<u>Total Revenue</u> -383,000 -387,000
			Operations 142,600 139,000
			Transfer to Public Safety Capital Fund 0 0
			Emergency Radio System Expenses <u>240,400</u> <u>248,000</u>
			<u>Total</u> 383,000 387,000
			<u>Airport Fund</u>
			Revenue from State/Grants -870,000 -2,700
			Revenue: Local & GF Transfer <u>-107,400</u> <u>-26,300</u>
			<u>Total Revenue</u> -977,400 -29,000
			<u>Expenditures</u> 977,400 29,000
			<u>Economic Development Fund</u>
			<u>Fund Balance: Solar Siting/Escrow</u> -1,573,000 -102,000
			<u>Expenditure: Transfer to E-911 Fund</u> 1,573,000 102,000

<u>GENERAL FUND Expenditures</u>	<u>FY 2024 ADOPTED</u>	<u>FY 2025 PROPOSED</u>	<u>Economic Development Grants Fund</u>		
Board of Supervisors	55,070	55,000	Revenue: Grants	-15,000	0
County Administration	325,000	345,750	Expenditures	15,000	0
Professional Services	130,000	130,000			
Commissioner of the Revenue	254,100	281,500	<u>School Fund</u>		
Treasurer	271,000	277,100	State Sales Tax	-2,274,386	-2,329,095
Data Processing	82,000	75,000	State Funds	-14,221,455	-16,867,563
Electoral Board	72,100	94,550	Federal Funds	-4,468,663	-2,459,284
Registrar	157,750	172,400	County - Local Match	-4,811,014	-5,451,657
Circuit Court	12,000	12,000	Other Funds	-216,822	-399,437
General District Court	2,500	2,600	Total Revenue	-25,992,340	-27,507,036
Magistrate	1,550	1,550	Total Expenditures	25,992,340	27,507,036
Juvenile/Domestic Relations Court	67,350	67,350			
Juvenile Detention Center Debt Service	41,200	45,200	<u>Social Services Fund</u>		
Clerk, Circuit Court	361,000	378,500	Revenue State/Federal	-1,400,000	-1,428,000
Clerk Grants	165,284	0	Local Funds	-205,000	-247,000
Courthouse Security	21,600	19,800	Total Revenue	-1,605,000	-1,675,000
Victim Witness	69,350	76,450	Expenditures	1,605,000	1,675,000
Commonwealth Attorney	406,600	409,000			
Sheriff's Department	1,986,800	2,235,000	<u>Comprehensive Services Act</u>		
Volunteer Fire/EMS Operations & Grants	332,100	567,100	Revenue State/Local	-908,000	-877,000
Piedmont Regional Jail	847,000	840,000	General Fund Transfer In	-224,000	-225,000
Piedmont Regional Jail Debt Service	50,000	50,000	Total Revenue	-1,132,000	-1,102,000
Building Inspector	109,220	116,700	Expenditures	1,132,000	1,102,000
Animal Control	156,770	165,630			
Maintenance/Buildings	256,700	274,000	<u>American Rescue Plan - Federal Funds</u>		
Health Dept	98,500	88,000	Revenue/Use of 911 Fund Balance	-1,127,000	-677,000
Medical Examiner	200	200	Expenditures	1,127,000	677,000
Crossroads	57,700	64,630			
Domestic Violence Prevention	3,000	7,000	<u>Emergency Services Capital Equipment</u>		
Planning Commission/Zoning	40,700	43,400	Revenue Transfer/Use of Fund Balance	-460,000	-410,000
Lunenburg Public Library System	150,280	160,000	Expenditures	460,000	410,000
Commonwealth Reg Council	19,000	19,000			
Soil & Water Conservation	8,500	8,500	<u>Project Lifesaver</u>		
Lunenburg Literacy	8,000	6,000	Revenue/Transfer IN	-800	-1,000
SVCC	5,750	5,480	Total Expenditure	800	1,000
Longwood Small Business	2,000	2,000			
SPCA	1,000	1,000	<u>Voting Machine Fund</u>		
VA's Retreat	4,500	4,500	Transfer from General Fund	-5,000	0
Town & County Bus	5,300	5,300	Total Expenditure	5,000	0
Piedmont Sr. Resources	12,000	14,000			
Forestry Service	22,100	22,100	<u>Capital Outlay Fund</u>		
Rec Sports Leagues	15,000	20,000	Bond (LUIIS)/School Transfers	-1,275,000	0
People's Comm Center	500	500	Capital Outlay LUIS/School Construction	1,275,000	0
Victoria Community/Senior Citizens Center	500	500			
Kenbridge Comm Center	1,000	1,000	<u>School Construction Fund</u>		
Piedmont Area Veterans Center	4,000	6,000	School Transfers	0	-1,752,823
VA Legal Aid Society	4,800	4,800	School Construction	0	1,752,823
VA's Growth Alliance	16,500	16,500			
Community Action Agency	21,500	21,500	<u>Debt Service</u>		
Community/Econ Dev. (Office)	93,220	101,400	Refunding Interest QSCB	-143,000	-143,000
IDA Tax Incentives	50,000	50,000	General Fund Transfer In	-1,504,000	-983,000
Cooperative Extension	55,510	61,700	Total Revenue	-1,647,000	-1,126,000
Refunds / DMV Stops	25,000	30,000	Debt Service School	983,200	983,200
Prop/Liability/LODA/WC Coverage	77,000	85,000	Debt Service Courthouse	513,700	0
Capital Improvements	155,000	75,000	Debt Service Radio System	148,900	148,900
Total General Fund Operations	7,192,104	7,617,190	Total Expenditures Debt Service	1,647,000	1,126,000
			<u>FY 2024 ADOPTED</u>	<u>FY 2025 PROPOSED</u>	
			36,899,840	35,241,859	
			<u>TOTAL BUDGET SPECIAL FUNDS:</u>		
			<u>TOTAL COUNTY BUDGET:</u>	<u>51,264,373</u>	<u>50,098,121</u>

Meherrin Fireworks Permit



MEHERRIN VOLUNTEER FIRE & RESCUE, INC.

102 Moore's Ordinary Road / P.O. Box 94
Meherrin, Virginia 23954
Station: 434-736-0633 / E-Mail: mvfr@mvfrco5.org
www.mvfrco5.org

May 30, 2024

Lunenburg County Administrator
11413 Courthouse Road
Lunenburg, Virginia 23952

Mrs. Gee

On behalf of Meherrin Volunteer Fire & Rescue, Inc., we are respectfully requesting a firework display permit per Chapter 45 Article II Sec. 46-31 of the Code of Lunenburg County. The proposed fireworks display will take place during our annual Independence Day celebration, currently scheduled for July 6th, 2024.

The property where the show will be shot from is adjoining our property and is owned by Forest Baptist Church. We were granted written permission for use of the grounds for this event, and a copy of written permission is attached.

Flashover Fireworks LLC, a federally licensed fireworks company, will be responsible for the design, set-up, and supervision of the fireworks display.

We greatly appreciate your consideration on this matter and look forward to your future correspondence.

If you have any questions or need any further information, please feel free to contact me directly.

Respectfully

Howard E. Pyle, III
Chief
434-547-7861

Forest Baptist Church

Exalting Jesus, Equipping the Saints, Evangelizing the Sinner



Deacon Lorraine Williams, Chairwoman of Deacon Board
Trustee Calvin Streat, Chairman of Trustees Board

Mrs. Dashannon Whitehead, Church Clerk
Mrs. Inez Meeks, Assistant Church Clerk

Wednesday, March 08, 201

We the Forest Baptist Church Official Board and members authorized Meherrin Volunteer Fire Department to use Forest Baptist Church property in Lunenburg, Virginia 23952 to shooting off annual 4th of July Celebration Fireworks.

Meherrin Volunteer Fire Department will clean-up all visible debris, display and disposal all fireworks after the event.

Yours in Christ,

Rev. Otis R. Spellman
Rev. Otis R. Spellman, Pastor

Mrs. Dashannon Whitehead, Church Clerk

Mrs. Dashannon Whitehead

Trustee Calvin Streat, Chairman of Trustees

Trustee Calvin Streat

cc: Forest Baptist Church
Meherrin Volunteer

Rev. Otis R. Spellman, Pastor

P.O. Box 17, Meherrin, VA 23952
434-207-1257
and each Sunday at 10:00am.

ADMINISTRATOR'S UPDATE

-- As necessary

Board of Supervisors June Meeting – 6/13/24

County Administrator's Monthly Report

Events in May:

April 29 - May 3 – Tracy PTO
May 7 – Team meeting – make plan for Planning/ED work
May 9 – Finance Committee meeting
May 9 – BOS meeting
May 10 – meet w/ Brande re: CSA financials
May 14 – Industrial Development Authority meeting
May 14-16 – RFCA Audit Preliminary Fieldwork
May 15 – Piedmont Juvenile Detention Center and Jail Authority Board meetings
May 16 – meet w/ Lisa Nagorsky, Acting Social Services Director
May 20 – Attend Field Day at KES
May 20 – Southern Dominion Health Systems Board meeting
May 21-24 – Nicole PTO
May 22 – Attend Kindergarten graduation at KES
May 22 – Community Policy Management Team (CPMT) meeting
May 22 – CHS Senior Class Night – Scholarship Award presentation for SEC
May 23 – Meeting with Town Managers
May 23 – BOS Public Hearing FY24/25 Budget
May 27 – Memorial Day Holiday
May 28 – meet w/ Beverley Hawthorne for PT help
May 29 – call w/ Benchmark re: Sweep account for IDA
May 29 – Solid Waste Committee meeting

Administration

- Nicole is finalizing Board of Equalization findings and ruling.
- Mr. Campbell of Love's Mill District indicated that the noise from the kennel next to his home has improved with the owner's removal of many pups. He asked that the Board still consider limiting proximity of kennels to property lines in the future. If he has further issues, he will seek legal representation for a civil case.
- I attended Class Night at CHS on May 22nd to distribute scholarships to two CHS students on behalf of SEC's Southside Opportunity Fund.
- We held an administrative team meeting to divide and conquer the tasks that Taylor has not been able to handle while on maternity leave.

Airport

- We received funding and I immediately filed for reimbursement for the parking lot from DOAV. It was funded at 80%. I then sent an invoice to the two towns for their share of costs.
- Filed for Automated Weather Observation System reimbursements for annual maintenance and recent repairs.

Animal Control

- Officer Elliott continues to handle tasks with some volunteer assistance and part-time sanitation assistance by Dickie Richards.

Budget & Finance-

- Met with members of the finance committee together before the BOS meeting and had multiple discussions separately to review the budget and how to best cover the needs of the County.

- The School's Required Local Match and the subsequent funding data was exhaustively reviewed.
- The new budget data from the State budget, adopted 5/13, was posted in the VDOE calculation template on 5/29. This was after our budget public hearing on 5/23. I have included the updated data in the budget agenda item, which adds approximately \$50,000 in local funding.
- The IDA will now be participating in the ICS sweep account program.

Building Official and Building & Grounds –

- New flooring replaced the damaged floor in the Dispatch Center.
- The newest estimate for a resolution to the Tax Office leaks is \$13,700. We will need to get bids for that amount of work. Then, we can schedule replacement of carpet with LVT.
- The Registrar's Office will receive their new LVT flooring in July.
- Many of our lighting problems lately require replacement of ballasts, which can be resolved with our incremental implementation of LED lighting installation. That started at the Tax Office and continues with the Human Resource building.

Community/Economic Development/Planning –

- Taylor remains on modified leave, working up to 16 hours per week remotely. We are all praying for Baby Gwen and family. I met with Beverley Hawthorne, and she will complete some part-time hours as-needed to assist with the Planning Commission and other tasks.
- The IDA met on 5/14 and voted to support the first year of membership in the VHREDA with the Commonwealth Regional Council.
- Worked on the questions and distribution to the Schools of the Joint Comprehensive Plan survey. Surveys are due early July, please feel free to share the survey with others.
- We have a joint public hearing for the Unity Substation by Dominion Energy at the meeting.
- Discussed solar inspections with CRC members. We use TRC/Draper Aden.
- Met with the Town Managers to discuss items that affect our area and local developments.

Elections –

- Registrar Baldwin would like to apply for SHSP cybersecurity grant funds for the Local Election Security Standards.
- The primary will be held June 18th.
- Registrar Baldwin would like to publicly recognize long-time poll workers at the August BOS meeting.

Emergency Management & Public Safety –

- The Sheriff's Office is applying for several grants for staffing and vehicle support.
- I am working on the Four-for-Life EMS funds reporting with EMS agencies.
- Meherrin Fireworks will take place July 6th if the permit is approved by the BOS.

Piedmont Regional Jail Authority and Juvenile Detention Center Board -

- The Juvenile Detention Center ABM project staff manager is providing regular updates to the Commission regarding their extended timeline for repairs.

Schools

- School closed on May 23rd. The School Board will send over a new FY25 budget based on the new State calculation template. In the interim, I have the updated form in your packet.
- Worked with School Administration to understand funding and researched formulas and per diem calculations.

Social Services and Children's Services –

- The advertisement for the Social Services Director position posted on June 3rd and will close June 24th.
- The Acting Director Lisa Nagorsky has some part-time assistance from the Nottoway Director for specialized reviews, which has aided Lisa in learning much more about the programs.
- The new CSA Coordinator, Brande Crutchfield has caught up all previous pool reimbursements, including the refunds necessary to net the expenditures reported as duplicates. Her method of tracking has simplified our cross-referencing of expenditures. It used to take me a full day to reconcile, now it takes me no more than an hour.
- The CPMT and FAPT teams will have a joint worksession/team-building event in July.

Solid Waste -

- I met with the Town Managers to discuss commercial waste. They came up with a new best practice for paying for commercial waste. We await input from Meridian Waste.
- Meridian has requested to go from 1,500 tons per day to 2,000 tons per day. Their management has asked for a meeting to discuss the proposed increase. The Solid Waste Committee will meet on June 4th at 2pm.
- Meridian has applied for their vertical expansion permit modification with DEQ. The public meeting will be at the Courthouse on July 2nd, starting at 6pm.

UPCOMING dates of interest:

June 3 – Carl Ashworth's Birthday!

June 4 – Solid Waste Committee meeting

June 6-8 – Tracy at VLGMA Conference - VA Beach

June 6 – Bobby Zava's Birthday!

June 13 – Board of Supervisors meeting 6PM Courthouse

June 19 – Juneteenth – Office closed

June 20 – Taylor King's Birthday!

July 4 – Independence Day – Office closed

“Greater love has no one than this, than to lay down one’s life for his friends.”

--John 15:13 KJV

In memory of our fallen military and public servants, who lay down their lives for loved ones and strangers.

Public Notice – Environmental Permit

PURPOSE OF NOTICE: To seek public comment and announce a public hearing on a draft permit from the Department of Environmental Quality regarding a landfill in Lunenburg County, Virginia.

PUBLIC COMMENT PERIOD: May 29, 2024 to July 17, 2024.

PUBLIC HEARING: General District Courtroom, 160 Courthouse Square, Lunenburg, VA 23952 on July 2, 2024 at 7:00 p.m.

INFORMATION BRIEFING: General District Courtroom, 160 Courthouse Square, Lunenburg, VA 23952 on July 2, 2024 at 6:00 p.m.

PERMIT NAME AND NUMBER: Disposal and Recycling Services of Lunenburg Sanitary Landfill, Solid Waste Permit 544.

PERMIT APPLICANT: RWG5, LLC.

FACILITY NAME AND LOCATION: Disposal and Recycling Services of Lunenburg Sanitary Landfill, 45 Landfill Road, Victoria, Virginia. The facility is located on Route 659 (Old Mansion Road), approximately four and a half miles south of the Town of Victoria and approximately seven miles southwest of the Town of Kenbridge.

PROJECT DESCRIPTION: RWG5, LLC has applied for a modification to a permit that allows the Disposal and Recycling Services of Lunenburg Sanitary Landfill to operate an existing landfill in Lunenburg County, Virginia. This modification to the permit would allow the vertical expansion to 672 feet above mean sea level, adding approximately 800,000 cubic yards of landfill capacity.

HOW TO COMMENT: DEQ accepts comments by hand-delivery, e-mail, or postal mail. All comments must include the name, address and telephone number of the person commenting and be received by DEQ within the comment period. DEQ also accepts written and oral comments at public hearings. The public may review the draft permit and application online at <https://www.deq.virginia.gov/permits/public-notices/land-protection> or at the DEQ office named below. Copies of the permit documents are also available at the Lunenburg County Administration Building at 11413 Courthouse Road, Lunenburg, VA 23952.

CONTACT FOR PUBLIC COMMENTS, DOCUMENT REQUESTS AND ADDITIONAL INFORMATION: Christopher Keehan; Piedmont Regional Office, 4949-A Cox Road, Glen Allen, VA 23060; Phone: (804) 385-5570; E-mail: christopher.keehan@deq.virginia.gov; Fax: (804) 527-5106.

County Attorney Update