

PREFACE

THE REGULATIONS OF ALL LOCAL, STATE, OR FEDERAL GOVERNMENTAL BODIES HAVING JURISDICTION OVER THE WORKING AREAS SHALL BE OBSERVED AT ALL TIMES.

ALL "WORK" SHALL BE PERFORMED IN A MANNER CONSISTENT WITH THE BEST PRACTICES OF THE TRADES INVOLVED.

CLEARING AND GRUBBING

DISPOSAL OF CLEARED/GRUBBED MATERIAL BY BURNING SHALL ONLY BE USED WHEN WRITTEN APPROVAL IS OBTAINED FROM LOCAL AUTHORITIES AND DOMINION ENERGY VIRGINIA. OTHERWISE, DISPOSAL SHALL BE OUTSIDE THE LIMITS OF DOMINION ENERGY VIRGINIA CONTROLLED LAND.

TOPSOIL MATERIAL USED AS A SURFACE DRESSING SHALL BE REASONABLY FREE OF CINDERS, DEBRIS, AND STONES. UNSUITABLE AND EXCESS TOPSOIL MATERIAL SHALL BE DISPOSED OFFSITE.

SOFT MATERIALS ENCOUNTERED SHALL BE COMPLETELY EXCAVATED AND REPLACED WITH APPROVED FILL MATERIALS.

SHALL NOT DEVIATE FROM A PLANE SURFACE BY MORE THAN 2.0 FT. AND SHALL NOT DEVIATE FROM THEIR THEORETICAL LOCATION BY MORE THAN 2.0 FT. MEASURED ALONG ANY LINE PERPENDICULAR TO THE THEORETICAL SLOPE LINE.

REQUESTS FOR SUBSTITUTIONS MUST BE APPROVED BY ENGINEERING. SUFFICIENT INFORMATION REGARDING REQUESTS MUST BE RECEIVED BY ENGINEERING 10 DAYS IN ADVANCE OF APPROVAL.

② EQUIPMENT ACCESS ROAD

PROJECT DESCRIPTION:
THIS PROJECT PROVIDES FOR THE INSTALLATION OF AIR CORE SERIES REACTOR ON LINE 2054 AT HOLLYMEADE SUBSTATION. THE SUBSTATION WILL BE EXPANDED TO PROVIDE SPACE FOR NEW EQUIPMENT. NEW PERIMETER FENCING WILL BE INSTALLED TO MATCH THE EXISTING STATION FENCE. AN INTERNAL SEPARATION FENCE MUST ALSO BE INSTALLED TO PROHIBIT PERSONNEL AND EQUIPMENT APPROACH TO REACTORS WHILE ENERGIZED.



1 OF 1 TOPOGRAPHIC SURVEY FOR PROPOSED HOLLYMEADE SUBSTATION EXPANSION

DRAWING LIST

1	OF	24	COVER SHEET, SPECIFICATIONS/GENERAL NOTES
2	OF	24	OVERALL SITE PLAN
3	OF	24	EROSION & SEDIMENT CONTROL GENERAL NOTES & NARRATIVE
4	OF	24	EROSION & SEDIMENT CONTROL MINIMUM STANDARDS AND DETAILS
5	OF	24	EROSION & SEDIMENT CONTROL DETAILS
6	OF	24	EROSION & SEDIMENT CONTROL AND DEMOLITION PLAN (1 OF 3)
7	OF	24	EROSION & SEDIMENT CONTROL AND DEMOLITION PLAN (2 OF 3)
8	OF	24	EROSION & SEDIMENT CONTROL AND DEMOLITION PLAN (3 OF 3)
9	OF	24	SITE PLAN (1 OF 3)
10	OF	24	SITE PLAN (2 OF 3)
11	OF	24	SITE PLAN (3 OF 3)
12	OF	24	FENCE PLAN
13	OF	24	GRADING & DRAINAGE PLAN (1 OF 2)
14	OF	24	GRADING & DRAINAGE PLAN (2 OF 2)
15	OF	24	GRADING SECTIONS AND PROFILES (1 OF 3)
16	OF	24	GRADING SECTIONS AND PROFILES (2 OF 3)
17	OF	24	GRADING SECTIONS AND PROFILES (3 OF 3)
18	OF	24	CONSTRUCTION DETAILS
19	OF	24	STORMWATER NARRATIVE
20	OF	24	WATER QUALITY
21	OF	24	STORMWATER MANAGEMENT DRAINAGE AREA MAPS & ROUTING DIAGRAMS
22	OF	24	STORMWATER MANAGEMENT PRE-DEVELOPED 1-, 2- AND 10-YR ROUTING
23	OF	24	STORMWATER MANAGEMENT POST-DEVELOPED 1-, 2- AND 10-YR ROUTING
24	OF	24	CALCULATIONS



THIS PROPERTY IS LOCATED IN ZONE "X" (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AS SHOWN ON FEMA PANEL #51003C0145D EFFECTIVE DATE: FEBRUARY 4, 2005. NO FLOODPLAIN LINES SHOWN ON PROPERTY.

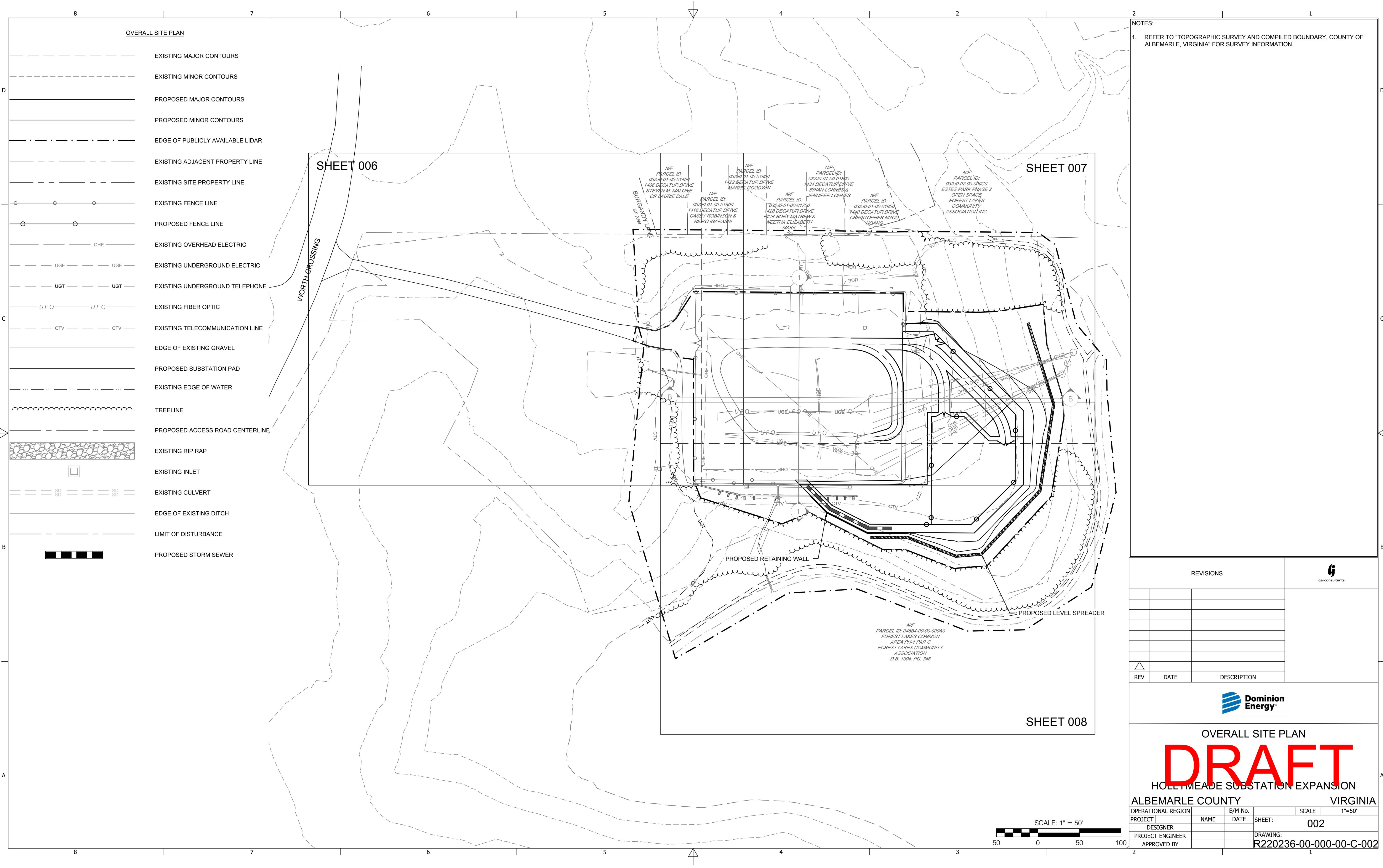
REVISIONS			 gai consultants
			
REV	DATE	DESCRIPTION	




DRAFT


ALBEMARLE COUNTY VIRGINIA

OPERATIONAL REGION		B/M No.		SCALE	NTS
PROJECT	NAME	DATE	SHEET: 001		
DESIGNER			DRAWING: R220236-00-000-00-C-001		
PROJECT ENGINEER					
APPROVED BY					



- NOTES:
- REFER TO "TOPOGRAPHIC SURVEY AND COMPILED BOUNDARY, COUNTY OF ALBEMARLE, VIRGINIA" FOR SURVEY INFORMATION.

REVISIONS			
REV	DATE	DESCRIPTION	



OVERALL SITE PLAN

DRAFT

HOLLYMEADE SUBSTATION EXPANSION

ALBEMARLE COUNTY VIRGINIA

OPERATIONAL REGION	B/M No.	SCALE	1"=50'
PROJECT	NAME	DATE	SHEET: 002
DESIGNER			
PROJECT ENGINEER			
APPROVED BY			

DRAWING: R220236-00-000-00-C-002

VIRGINIA EROSION AND SEDIMENT CONTROL MINIMUM STANDARDS

MINIMUM STANDARDS

THIS SECTION IDENTIFIES THE MINIMUM EROSION AND SEDIMENT STANDARDS THAT THE PROJECT NEEDS TO MEET ACCORDING TO VIRGINIA'S EROSION AND SEDIMENT CONTROL LAW AND REGULATIONS (4VAC50-30-40).

MINIMUM STANDARD 1. 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 AND PROVIDED AS THE SITE IS BROUGHT TO GRADE.

☒ APPLICABLE ☐ NOT APPLICABLE

PROJECT COMPLIANCE: TEMPORARY AND PERMANENT SEEDING SPECIFICATIONS HAVE BEEN INCLUDED AS A VEGETATIVE MEASURE. REFER TO E&SC PLANS AND DETAILS.

MINIMUM STANDARD 2. DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES 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.

☒ APPLICABLE ☐ NOT APPLICABLE

PROJECT COMPLIANCE: POTENTIAL STOCKPILE AREAS ARE TO BE KEPT ON-SITE AND WITHIN THE LIMITS OF DISTURBANCE UNDER THE CONTROL OF EROSION AND SEDIMENT CONTROL MEASURES.

MINIMUM STANDARD 3. 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.

☒ APPLICABLE ☐ NOT APPLICABLE

PROJECT COMPLIANCE: PERMANENT SEEDING WILL BE PROVIDED ON ANY DENUDED AREA ONCE THE SITE HAS BEEN BROUGHT TO FINAL GRADE.

MINIMUM STANDARD 4. 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.

☒ APPLICABLE ☐ NOT APPLICABLE

PROJECT COMPLIANCE: IN ACCORDANCE WITH THE CONSTRUCTION SEQUENCE SILT FENCE SHALL BE INSTALLED PRIOR TO MASS GRADING OR UP GRADIENT LAND DISTURBANCES.

MINIMUM STANDARD 5. STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.

☒ APPLICABLE ☐ NOT APPLICABLE

PROJECT COMPLIANCE: DAMS OR OTHER EARTHEN MEASURE SHALL BE STABILIZED IN ACCORDANCE WITH MINIMUM STANDARD 1.

MINIMUM STANDARD 6. SEDIMENT TRAPS AND SEDIMENT BASINS SHALL BE DESIGNED AND CONSTRUCTED BASED UPON THE TOTAL DRAINAGE AREA TO BE SERVED BY THE TRAP OR BASIN.

A.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.

☐ APPLICABLE ☒ NOT APPLICABLE

PROJECT COMPLIANCE: N/A

B.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 TWENTY-FIVE 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.

☐ APPLICABLE ☒ NOT APPLICABLE

PROJECT COMPLIANCE: N/A

MINIMUM STANDARD 7. 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.

☒ APPLICABLE ☐ NOT APPLICABLE

PROJECT COMPLIANCE: ANY FILL SLOPE THAT MAY ERODE WILL BE MONITORED AND ADDITIONAL STABILIZATION WILL BE ADDED IF NEEDED.

MINIMUM STANDARD 8. CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME OR SLOPE DRAIN STRUCTURE.

☐ APPLICABLE ☒ NOT APPLICABLE

PROJECT COMPLIANCE: N/A

MINIMUM STANDARD 9. WHENEVER WATER SEEPS FROM A SLOPE FACE, ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED.

☒ APPLICABLE ☐ NOT APPLICABLE

PROJECT COMPLIANCE: INADEQUATE DRAINAGE SHALL BE CORRECTED PRIOR TO STABILIZATION.

MINIMUM STANDARD 10. 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.

☒ APPLICABLE ☐ NOT APPLICABLE

PROJECT COMPLIANCE: CULVERT INLET AND INLET PROTECTION TO BE INSTALLED. REFER TO E&SC PLANS AND DETAILS.

MINIMUM STANDARD 11. 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.

☐ APPLICABLE ☒ NOT APPLICABLE

PROJECT COMPLIANCE: N/A

MINIMUM STANDARD 12. 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.

☐ APPLICABLE ☒ NOT APPLICABLE

PROJECT COMPLIANCE: N/A

MINIMUM STANDARD 13. 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.

☐ APPLICABLE ☒ NOT APPLICABLE

PROJECT COMPLIANCE: N/A

MINIMUM STANDARD 14. ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS PERTAINING TO WORKING IN OR CROSSING LIVE WATERCOURSES SHALL BE MET.

☐ APPLICABLE ☒ NOT APPLICABLE

PROJECT COMPLIANCE: N/A

MINIMUM STANDARD 15. THE BED AND BANKS OF A WATERCOURSE SHALL BE STABILIZED IMMEDIATELY AFTER WORK IN THE WATERCOURSE IS COMPLETED.

☐ APPLICABLE ☒ NOT APPLICABLE

PROJECT COMPLIANCE: N/A

MINIMUM STANDARD 16. UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER

APPLICABLE CRITERIA:

- A. NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.
- B. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.
- C. 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.
- D. MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION.
- E. RESTABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE REGULATIONS.
- F. APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH.

☒ APPLICABLE ☐ NOT APPLICABLE

PROJECT COMPLIANCE: ALL REGULATIONS PERTAINING TO TRENCHING WILL BE MET AND FOLLOWED ON THIS SITE.

MINIMUM STANDARD 17. 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. WHERE 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.

☒ APPLICABLE ☐ NOT APPLICABLE

PROJECT COMPLIANCE: SEDIMENT TRANSPORTED ONTO PAVED PARKING FACILITIES AND PUBLIC ROADS WILL BE REMOVED AT THE END OF EACH WORK DAY. IN ADDITION, A CONSTRUCTION ENTRANCE WILL BE USED AS SHOWN ON THE APPROVED EROSION AND SEDIMENT CONTROL PLANS.

MINIMUM STANDARD 18. 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 LOCAL PROGRAM 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. ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES WILL BE REMOVED AFTER 30 DAY OF FINAL SITE STABILIZATION OR AFTER THE TEMPORARY DEVICES ARE NO LONGER NEEDED.

☒ APPLICABLE ☐ NOT APPLICABLE

PROJECT COMPLIANCE: ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES WILL BE REMOVED AFTER 30 DAY OF FINAL SITE STABILIZATION OR AFTER THE TEMPORARY DEVICES ARE NO LONGER NEEDED UPON THE APPROVAL OF THE CERTIFIED EROSION AND SEDIMENT CONTROL INSPECTOR.

MINIMUM STANDARD 19. PROPERTIES AND WATERWAYS DOWNSTREAM FROM DEVELOPMENT SITES SHALL BE PROTECTED FROM SEDIMENT DEPOSITION, EROSION AND DAMAGE DUE TO INCREASE 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:

- A. 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 FOR THE PIPE OR PIPE SYSTEM SHALL BE PERFORMED.

- B. 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

(2)(A) 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 BANK; AND

(B) ALL PREVIOUSLY CONSTRUCTED MAN MADE CHANNELS SHALL BE ANALYZED BY THE USE OF A TEN-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

(C) PIPES AND STORM SEWER SYSTEMS SHALL BE ANALYZED BY THE USE OF A TEN-YEAR STORM TO VERIFY THAT STORMWATER WILL BE CONTAINED WITHIN THE PIPE OR SYSTEM.

- C. IF EXISTING NATURAL RECEIVING CHANNELS OR PREVIOUSLY CONSTRUCTED MAN-MADE CHANNELS OR PIPES ARE NOT ADEQUATE THE APPLICANT SHALL:

(1) IMPROVE THE CHANNEL TO A CONDITION WHERE A TEN-YEAR STORM WILL NOT OVERTOP THE BANKS AND A TWO YEAR STORM WILL NOT CAUSE EROSION TO THE CHANNEL BED OR BANKS; OR

(2) IMPROVE THE PIPE SYSTEM TO A CONDITION WHERE THE TEN YEAR STORM IS CONTAINED WITHIN THE APPURTENANCES; OR

(3) 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 TEN YEAR STORM TO INCREASE WHEN RUNOFF OUTFALLS INTO A MAN MADE CHANNEL; OR

(4) PROVIDE A COMBINATION OF CHANNEL IMPROVEMENT, STORMWATER DETENTION OR OTHER MEASURES WHICH IS SATISFACTORY TO THE PLAN APPROVING AUTHORITY TO PREVENT DOWNSTREAM EROSION.

- D. THE APPLICANT SHALL PROVIDE EVIDENCE OF PERMISSION TO MAKE THE IMPROVEMENT.

- E. ALL HYDROLOGIC ANALYSES SHALL BE BASED ON EXISTING WATERSHED CHARACTERISTICS AND THE ULTIMATE DEVELOPMENT OF THE SUBJECT PROJECT.

- F. IF THE APPLICANT CHOOSES AN OPTION THAT INCLUDES STORMWATER DETENTION HE SHALL OBTAIN APPROVAL FROM THE LOCALITY 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.

- G. OUTFALL FROM A DETENTION FACILITY SHALL BE DISCHARGED TO A RECEIVING CHANNEL, AND ENERGY DISSIPATERS SHALL BE PLACED AT THE OUTFALL OF ALL DETENTION FACILITY AS NECESSARY TO PROVIDE A STABILIZED TRANSITION FROM THE FACILITY TO THE RECEIVING CHANNEL.

- H. ALL ONSITE CHANNELS MUST BE VERIFIED TO BE ADEQUATE.

- I. 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.

- J. IN APPLYING THESE STORMWATER RUNOFF 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.

- K. 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.

☒ APPLICABLE ☐ NOT APPLICABLE

- L. 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.

☐ APPLICABLE ☒ NOT APPLICABLE



- M. FOR PLANS APPROVED ON AND AFTER JULY 1, 2014, THE FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS OF 62.1-44.15:52 A OF THE ACT AND THIS SUBSECTION SHALL BE SATISFIED BY COMPLIANCE WITH WATER QUANTITY REQUIREMENTS IN THE STORMWATER MANAGEMENT ACT (62.1-44.15:24 ET SEQ. OF THE CODE OF VIRGINIA) AND ATTENDANT REGULATIONS, UNLESS SUCH LAND-DISTURBING ACTIVITIES ARE IN ACCORDANCE WITH 9VAC25-870-48 OF THE VIRGINIA STORMWATER MANAGEMENT PROGRAM (VSMP) REGULATIONS.


☒ APPLICABLE ☐ NOT APPLICABLE

- N. COMPLIANCE WITH THE WATER QUANTITY MINIMUM STANDARDS SET OUT IN 9VAC25-870-66 OF THE VIRGINIA STORMWATER MANAGEMENT PROGRAM (VSMP) REGULATIONS SHALL BE DEEMED TO SATISFY THE REQUIREMENTS OF SUBDIVISION 19 OF THIS SUBSECTION.

☒ APPLICABLE ☐ NOT APPLICABLE

PROJECT COMPLIANCE: SEE SWM NARRATIVE ON SHEET 15 FOR SWM CALCULATIONS.

REVISIONS					
					
REV	DATE		DESCRIPTION		



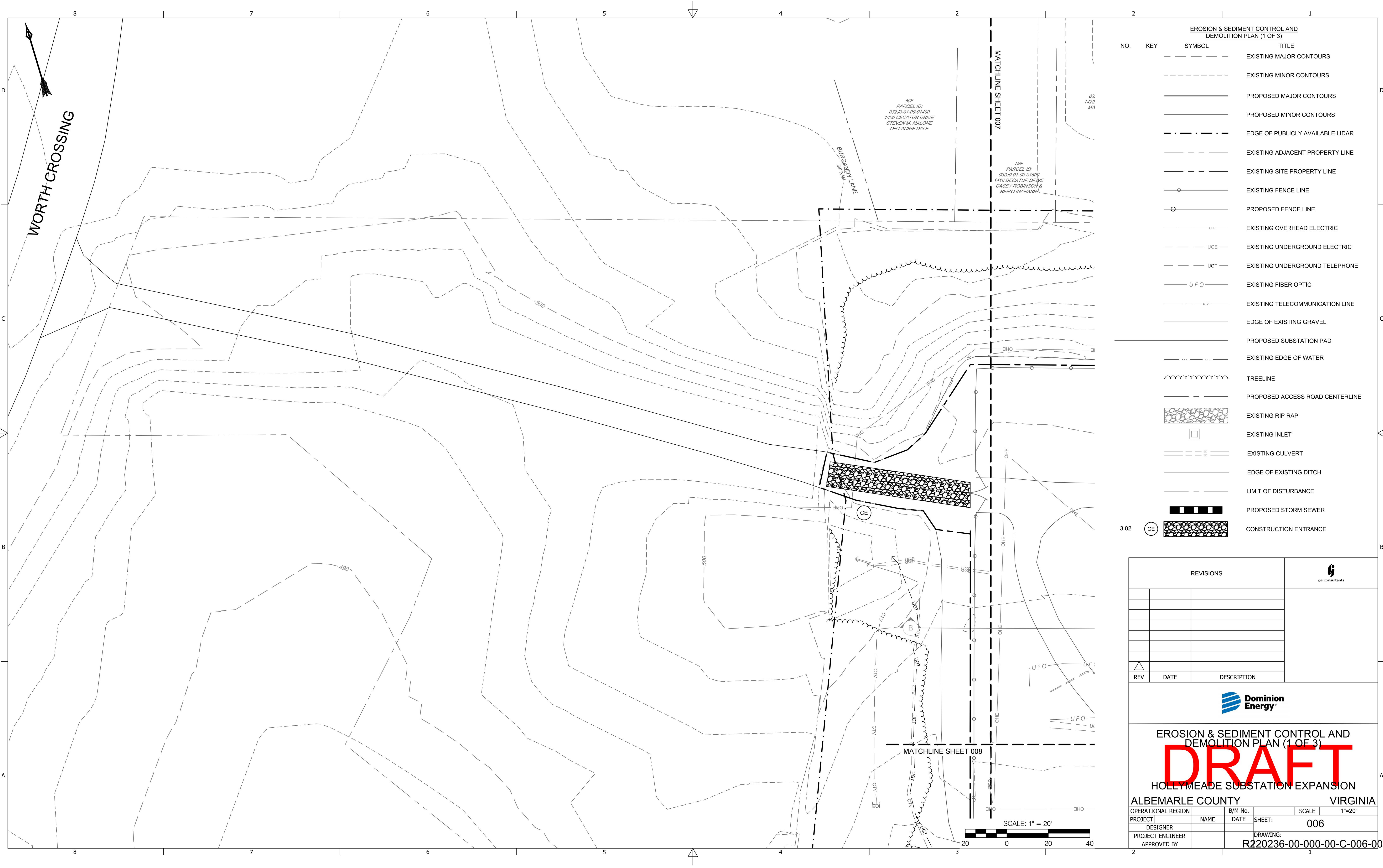
EROSION & SEDIMENT CONTROL
MINIMUM STANDARDS AND DETAILS

DRAFT

HOLLYMEADE SUBSTATION EXPANSION

ALBEMARLE COUNTY VIRGINIA

OPERATIONAL REGION		B/M No.		SCALE	NTS
PROJECT	NAME	DATE	SHEET:	004	
DESIGNER			DRAWING:		
PROJECT ENGINEER			R220236-00-000-00-C-004		
APPROVED BY					



EROSION & SEDIMENT CONTROL AND DEMOLITION PLAN (1 OF 3)			
NO.	KEY	SYMBOL	TITLE
			EXISTING MAJOR CONTOURS
			EXISTING MINOR CONTOURS
			PROPOSED MAJOR CONTOURS
			PROPOSED MINOR CONTOURS
			EDGE OF PUBLICLY AVAILABLE LIDAR
			EXISTING ADJACENT PROPERTY LINE
			EXISTING SITE PROPERTY LINE
			EXISTING FENCE LINE
			PROPOSED FENCE LINE
			EXISTING OVERHEAD ELECTRIC
			EXISTING UNDERGROUND ELECTRIC
			EXISTING UNDERGROUND TELEPHONE
			EXISTING FIBER OPTIC
			EXISTING TELECOMMUNICATION LINE
			EDGE OF EXISTING GRAVEL
			PROPOSED SUBSTATION PAD
			EXISTING EDGE OF WATER
			TREELINE
			PROPOSED ACCESS ROAD CENTERLINE
			EXISTING RIP RAP
			EXISTING INLET
			EXISTING CULVERT
			EDGE OF EXISTING DITCH
			LIMIT OF DISTURBANCE
			PROPOSED STORM SEWER
3.02			CONSTRUCTION ENTRANCE

REVISIONS

REV	DATE	DESCRIPTION

EROSION & SEDIMENT CONTROL AND DEMOLITION PLAN (1 OF 3)

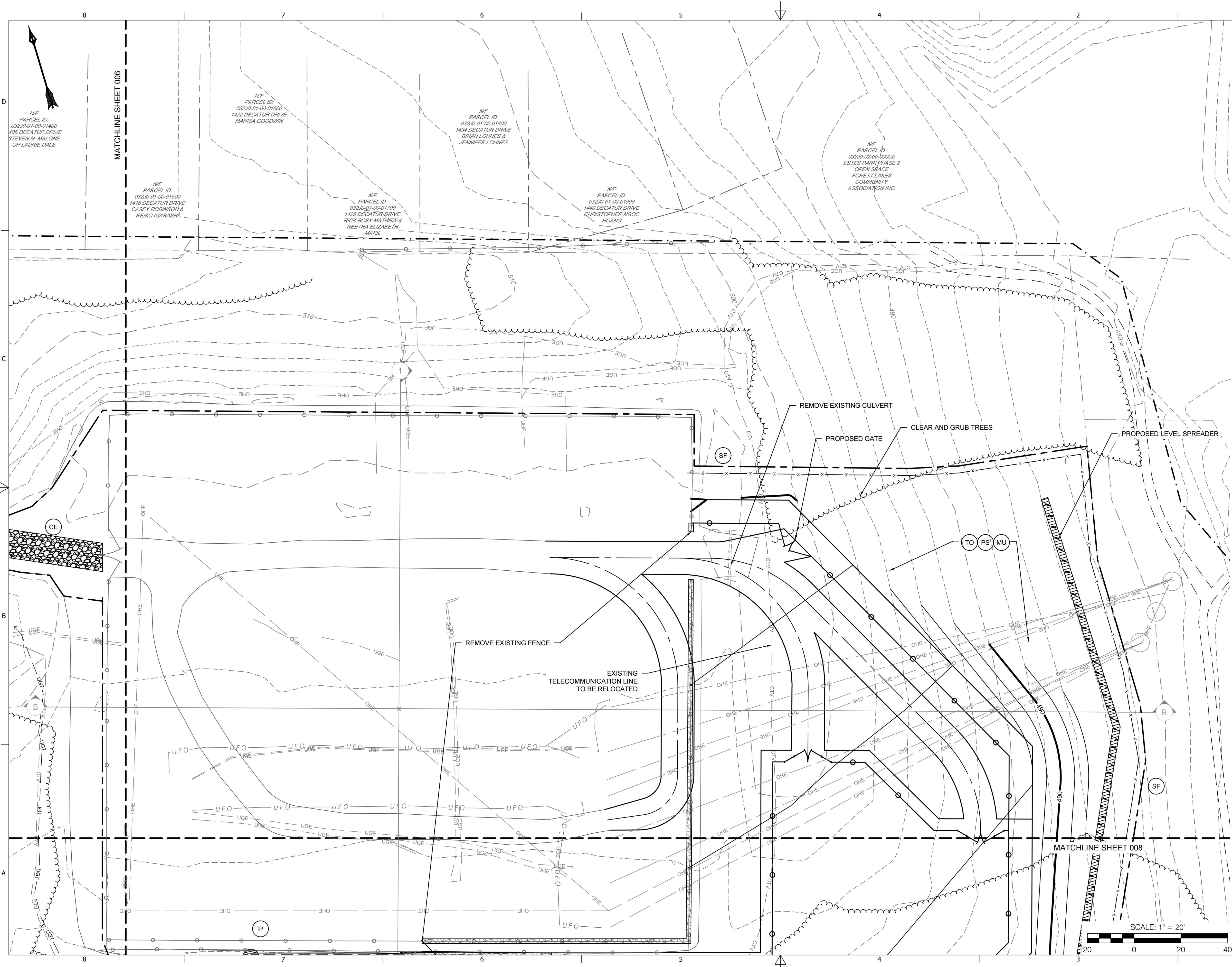
DRAFT

HOLLYMEADE SUBSTATION EXPANSION

ALBEMARLE COUNTY VIRGINIA

OPERATIONAL REGION	B/M No.	SCALE	1"=20'
PROJECT	NAME	DATE	SHEET: 006
DESIGNER			
PROJECT ENGINEER			
APPROVED BY			

DRAWING: R220236-00-000-00-C-006-008



EROSION & SEDIMENT CONTROL AND DEMOLITION PLAN (2 OF 3)			
NO.	KEY	SYMBOL	TITLE
			EXISTING MAJOR CONTOURS
			EXISTING MINOR CONTOURS
			PROPOSED MAJOR CONTOURS
			PROPOSED MINOR CONTOURS
			EDGE OF PUBLICLY AVAILABLE LIDAR
			EXISTING ADJACENT PROPERTY LINE
			EXISTING SITE PROPERTY LINE
			EXISTING FENCE LINE
			PROPOSED FENCE LINE
			EXISTING OVERHEAD ELECTRIC
			EXISTING UNDERGROUND ELECTRIC
			EXISTING UNDERGROUND TELEPHONE
			EXISTING FIBER OPTIC
			EXISTING TELECOMMUNICATION LINE
			EDGE OF EXISTING GRAVEL
			PROPOSED SUBSTATION PAD
			EXISTING EDGE OF WATER
			TREELINE
			PROPOSED ACCESS ROAD CENTERLINE
			EXISTING RIP RAP
			EXISTING INLET
			EXISTING CULVERT
			EDGE OF EXISTING DITCH
			LIMIT OF DISTURBANCE
			EXISTING TO BE REMOVED
3.02			CONSTRUCTION ENTRANCE
3.05			SILT FENCE
3.07			STORM DRAIN INLET PROTECTION
3.30			TOPSOILING
3.32			PERMANENT SEEDING
3.35			MULCHING

REVISIONS

REV	DATE	DESCRIPTION

EROSION & SEDIMENT CONTROL AND DEMOLITION PLAN (2 OF 3)

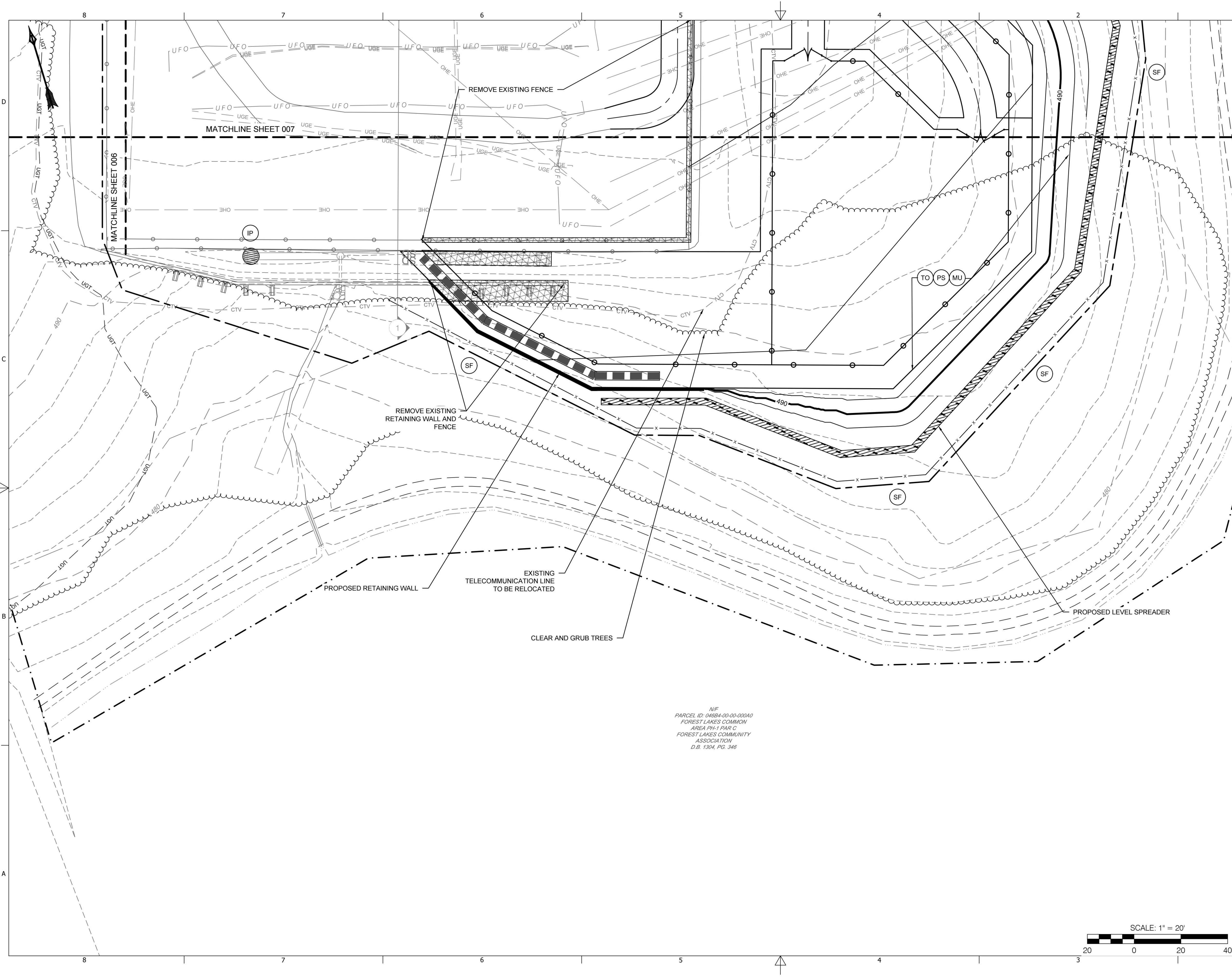
DRAFT

HOLLYMEADE SUBSTATION EXPANSION

ALBEMARLE COUNTY VIRGINIA

OPERATIONAL REGION	B/M No.	SCALE	1"=20'
PROJECT	NAME	DATE	SHEET: 007
DESIGNER			
PROJECT ENGINEER			
APPROVED BY			

DRAWING: R220236-00-000-00-C-006-008



N/F
PARCEL ID: 048B4-00-00-000A0
FOREST LAKES COMMON
AREA PH-1 PAR C
FOREST LAKES COMMUNITY
ASSOCIATION
D.B. 1304, PG. 346

EROSION & SEDIMENT CONTROL AND DEMOLITION PLAN (3 OF 3)		
NO.	KEY	TITLE
		EXISTING MAJOR CONTOURS
		EXISTING MINOR CONTOURS
		PROPOSED MAJOR CONTOURS
		PROPOSED MINOR CONTOURS
		EDGE OF PUBLICLY AVAILABLE LIDAR
		EXISTING ADJACENT PROPERTY LINE
		EXISTING SITE PROPERTY LINE
		EXISTING FENCE LINE
		PROPOSED FENCE LINE
		EXISTING OVERHEAD ELECTRIC
		EXISTING UNDERGROUND ELECTRIC
		EXISTING UNDERGROUND TELEPHONE
		EXISTING FIBER OPTIC
		EXISTING TELECOMMUNICATION LINE
		EDGE OF EXISTING GRAVEL
		PROPOSED SUBSTATION PAD
		EXISTING EDGE OF WATER
		TREELINE
		PROPOSED ACCESS ROAD CENTERLINE
		EXISTING RIP RAP
		EXISTING INLET
		EXISTING CULVERT
		EDGE OF EXISTING DITCH
		LIMIT OF DISTURBANCE
		EXISTING TO BE REMOVED
		PROPOSED STORM SEWER
3.05		X SILT FENCE
3.07		STORM DRAIN INLET PROTECTION
3.30		TOPSOILING
3.32		PERMANENT SEEDING
3.35		MULCHING

REVISIONS

REV	DATE	DESCRIPTION

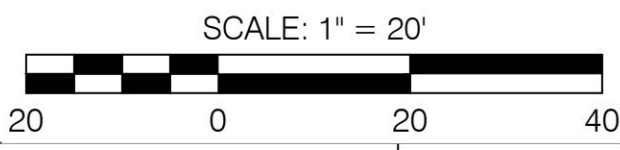
EROSION & SEDIMENT CONTROL AND DEMOLITION PLAN (3 OF 3)

DRAFT

HOLLYMEADE SUBSTATION EXPANSION

ALBEMARLE COUNTY VIRGINIA

OPERATIONAL REGION	B/M No.	SCALE	1"=20'
PROJECT	NAME	DATE	SHEET: 008
DESIGNER	PROJECT ENGINEER		
APPROVED BY	DRAWING: R220236-00-000-00-C-006-008		



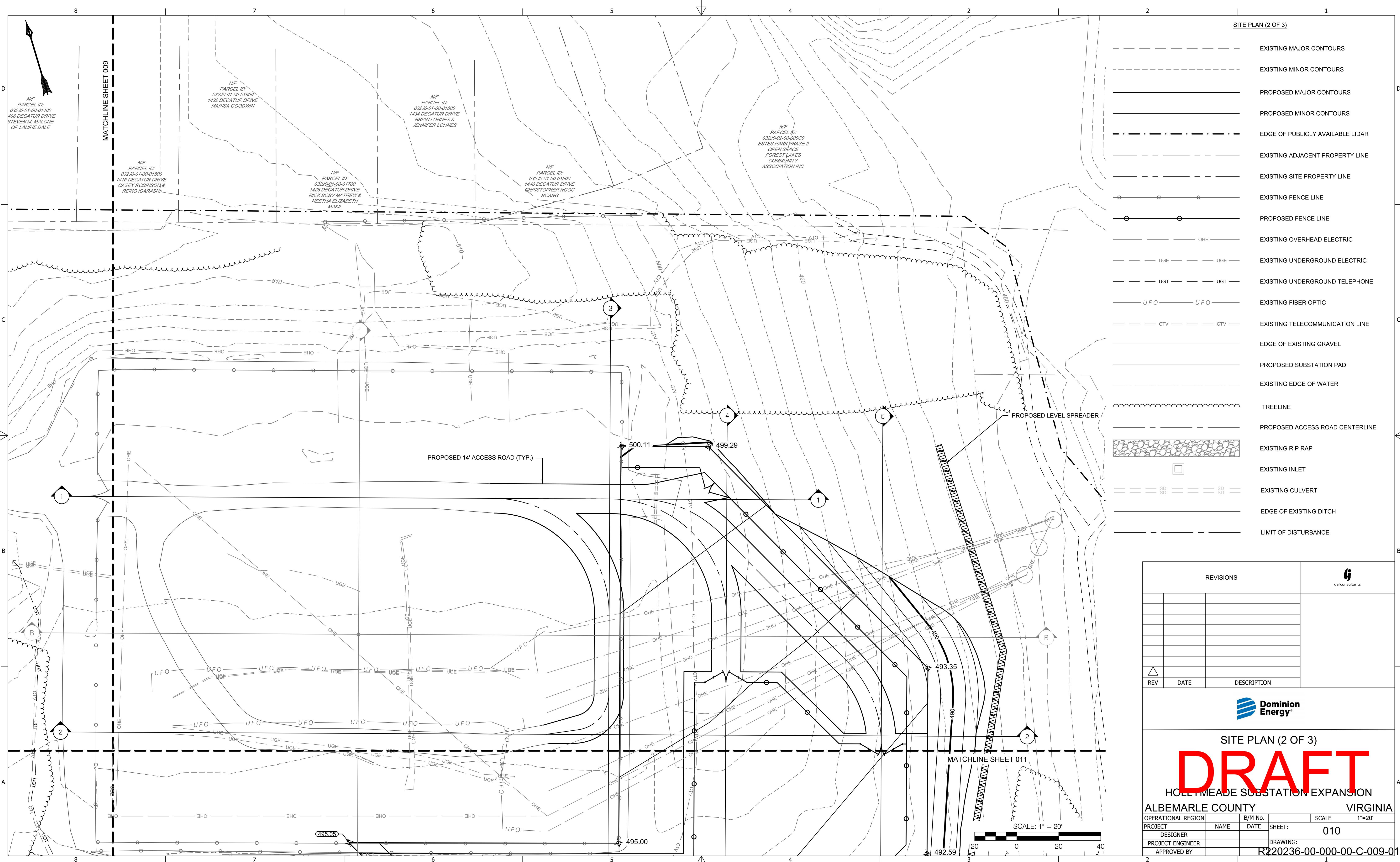


SITE PLAN (1 OF 3)	
	EXISTING MAJOR CONTOURS
	EXISTING MINOR CONTOURS
	PROPOSED MAJOR CONTOURS
	PROPOSED MINOR CONTOURS
	EDGE OF PUBLICLY AVAILABLE LIDAR
	EXISTING ADJACENT PROPERTY LINE
	EXISTING SITE PROPERTY LINE
	EXISTING FENCE LINE
	PROPOSED FENCE LINE
	EXISTING OVERHEAD ELECTRIC
	EXISTING UNDERGROUND ELECTRIC
	EXISTING UNDERGROUND TELEPHONE
	EXISTING FIBER OPTIC
	EXISTING TELECOMMUNICATION LINE
	EDGE OF EXISTING GRAVEL
	PROPOSED SUBSTATION PAD
	EXISTING EDGE OF WATER
	TREELINE
	PROPOSED ACCESS ROAD CENTERLINE
	EXISTING RIP RAP
	EXISTING INLET
	EXISTING CULVERT
	EDGE OF EXISTING DITCH
	LIMIT OF DISTURBANCE

REVISIONS			
REV	DATE	DESCRIPTION	




SITE PLAN (1 OF 3)				
<div>DRAFT</div>				
HOLLYMEADE SUBSTATION EXPANSION				
ALBEMARLE COUNTY VIRGINIA				
OPERATIONAL REGION	B/M No.	SCALE		
PROJECT	NAME	DATE	SHEET:	009
DESIGNER				
PROJECT ENGINEER			DRAWING:	
APPROVED BY			R220236-00-000-00-C-009-011	



SITE PLAN (2 OF 3)

- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- PROPOSED MAJOR CONTOURS
- PROPOSED MINOR CONTOURS
- EDGE OF PUBLICLY AVAILABLE LIDAR
- EXISTING ADJACENT PROPERTY LINE
- EXISTING SITE PROPERTY LINE
- EXISTING FENCE LINE
- PROPOSED FENCE LINE
- EXISTING OVERHEAD ELECTRIC
- EXISTING UNDERGROUND ELECTRIC
- EXISTING UNDERGROUND TELEPHONE
- EXISTING FIBER OPTIC
- EXISTING TELECOMMUNICATION LINE
- EDGE OF EXISTING GRAVEL
- PROPOSED SUBSTATION PAD
- EXISTING EDGE OF WATER
- TREELINE
- PROPOSED ACCESS ROAD CENTERLINE
- EXISTING RIP RAP
- EXISTING INLET
- EXISTING CULVERT
- EDGE OF EXISTING DITCH
- LIMIT OF DISTURBANCE

REVISIONS			
REV	DATE	DESCRIPTION	



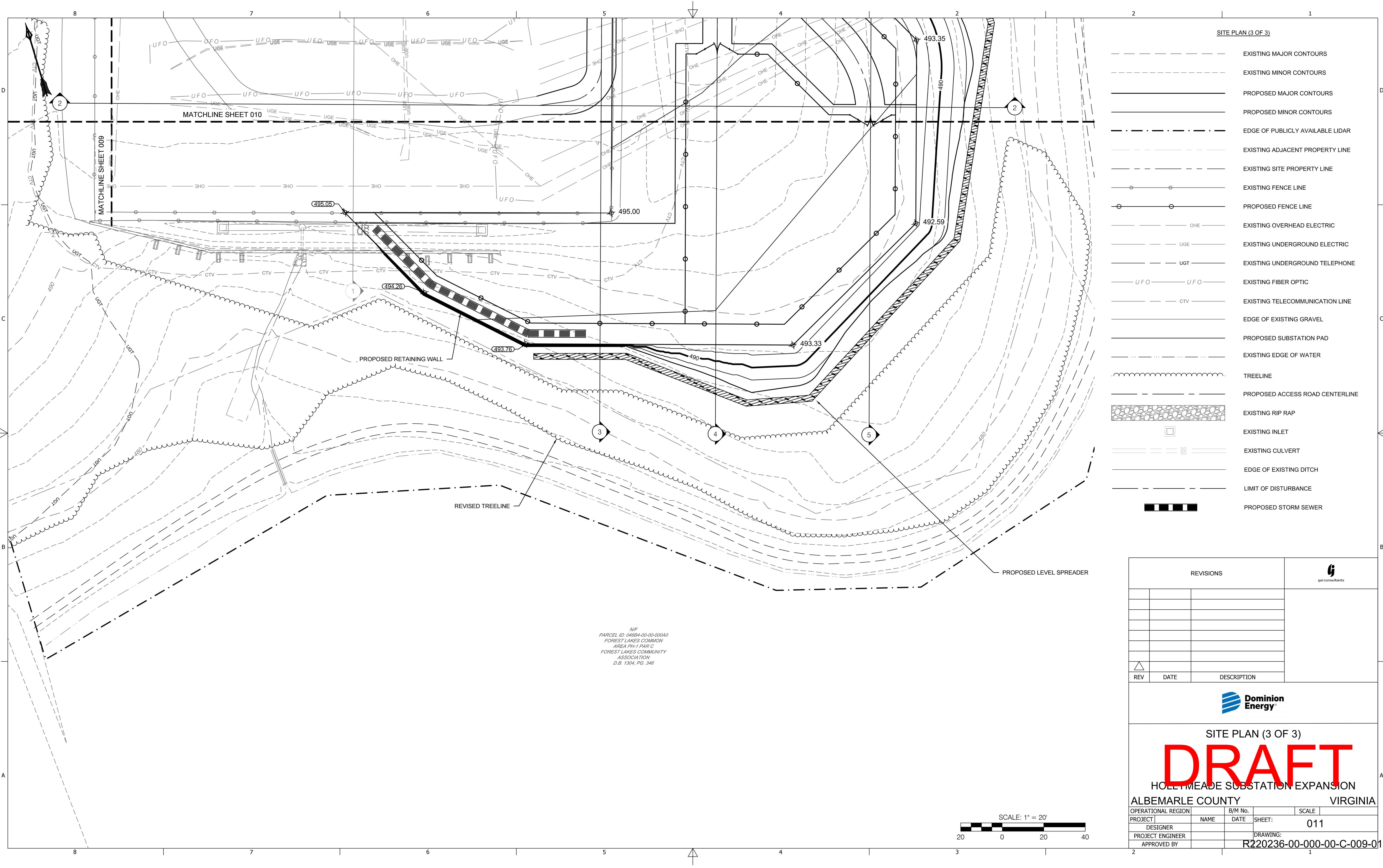
SITE PLAN (2 OF 3)

DRAFT

HOLLYMEADE SUBSTATION EXPANSION
ALBEMARLE COUNTY VIRGINIA

OPERATIONAL REGION	B/M No.	SCALE	1"=20'
PROJECT	NAME	DATE	SHEET: 010
DESIGNER			
PROJECT ENGINEER			
APPROVED BY			

DRAWING: R220236-00-000-00-C-009-011



N/F
PARCEL ID: 04884-00-00-000A0
FOREST LAKES COMMON
AREA PH-1 PAR C
FOREST LAKES COMMUNITY
ASSOCIATION
D.B. 1304, PG. 346

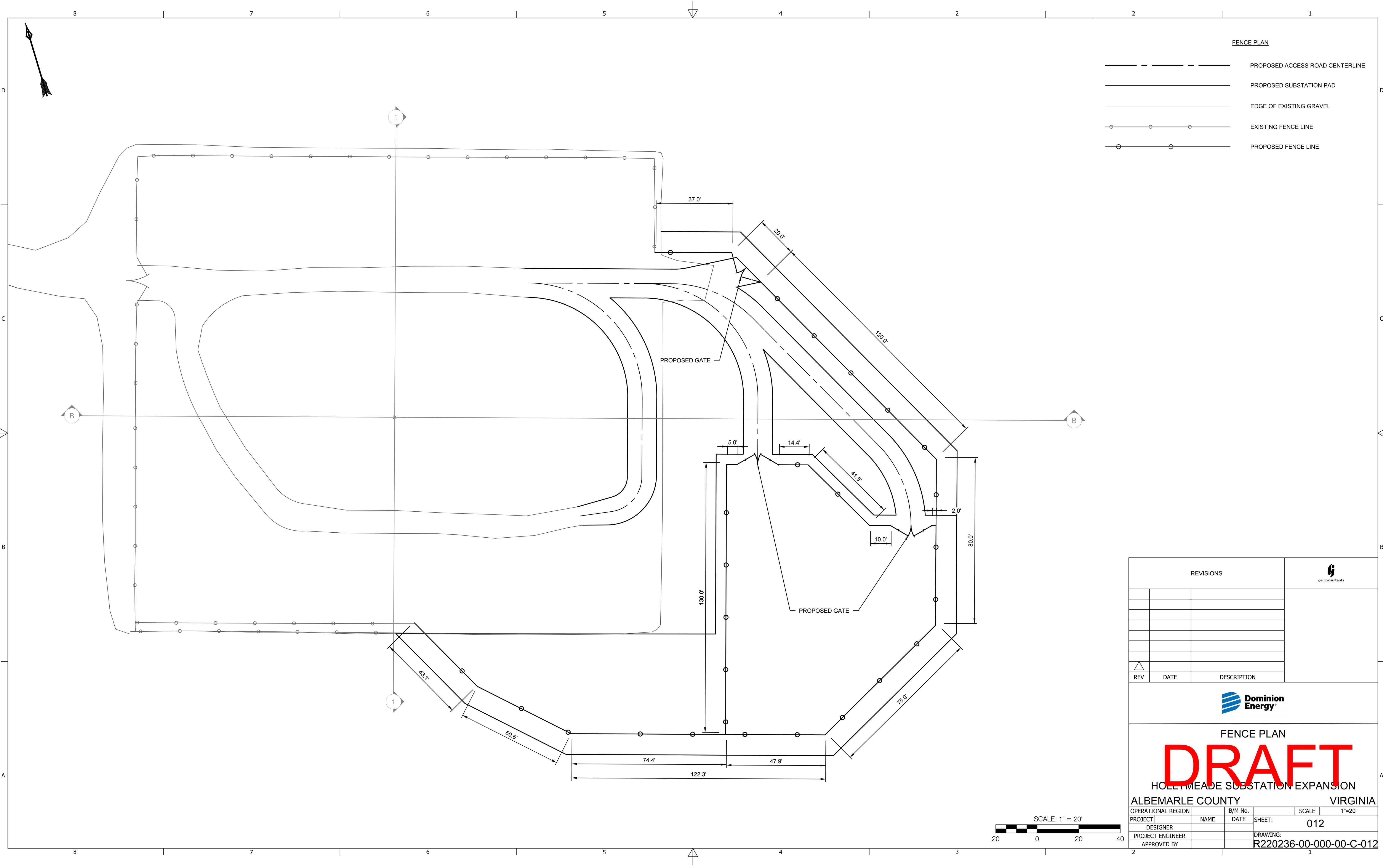
- SITE PLAN (3 OF 3)
- EXISTING MAJOR CONTOURS
 - EXISTING MINOR CONTOURS
 - PROPOSED MAJOR CONTOURS
 - PROPOSED MINOR CONTOURS
 - EDGE OF PUBLICLY AVAILABLE LIDAR
 - EXISTING ADJACENT PROPERTY LINE
 - EXISTING SITE PROPERTY LINE
 - EXISTING FENCE LINE
 - PROPOSED FENCE LINE
 - EXISTING OVERHEAD ELECTRIC
 - EXISTING UNDERGROUND ELECTRIC
 - EXISTING UNDERGROUND TELEPHONE
 - EXISTING FIBER OPTIC
 - EXISTING TELECOMMUNICATION LINE
 - EDGE OF EXISTING GRAVEL
 - PROPOSED SUBSTATION PAD
 - EXISTING EDGE OF WATER
 - TREELINE
 - PROPOSED ACCESS ROAD CENTERLINE
 - EXISTING RIP RAP
 - EXISTING INLET
 - EXISTING CULVERT
 - EDGE OF EXISTING DITCH
 - LIMIT OF DISTURBANCE
 - PROPOSED STORM SEWER

REVISIONS			
REV	DATE	DESCRIPTION	




SITE PLAN (3 OF 3)
DRAFT
HOLLYMEADE SUBSTATION EXPANSION
ALBEMARLE COUNTY VIRGINIA

OPERATIONAL REGION	B/M No.	SCALE
PROJECT	NAME	DATE
DESIGNER		
PROJECT ENGINEER		
APPROVED BY		
SHEET: 011		
DRAWING: R220236-00-000-00-C-009-011		




REVISIONS

REV	DATE	DESCRIPTION



gat consultants



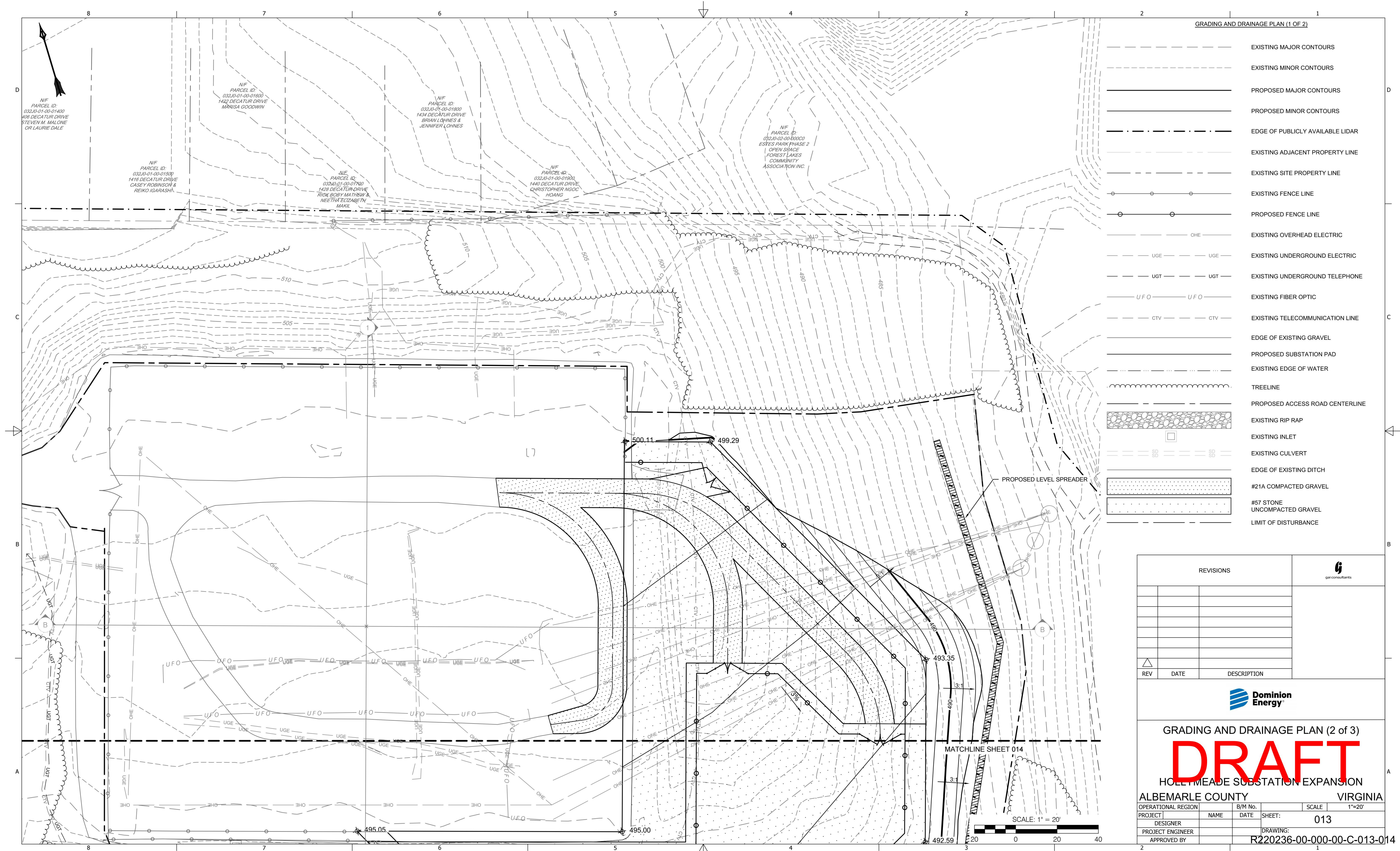
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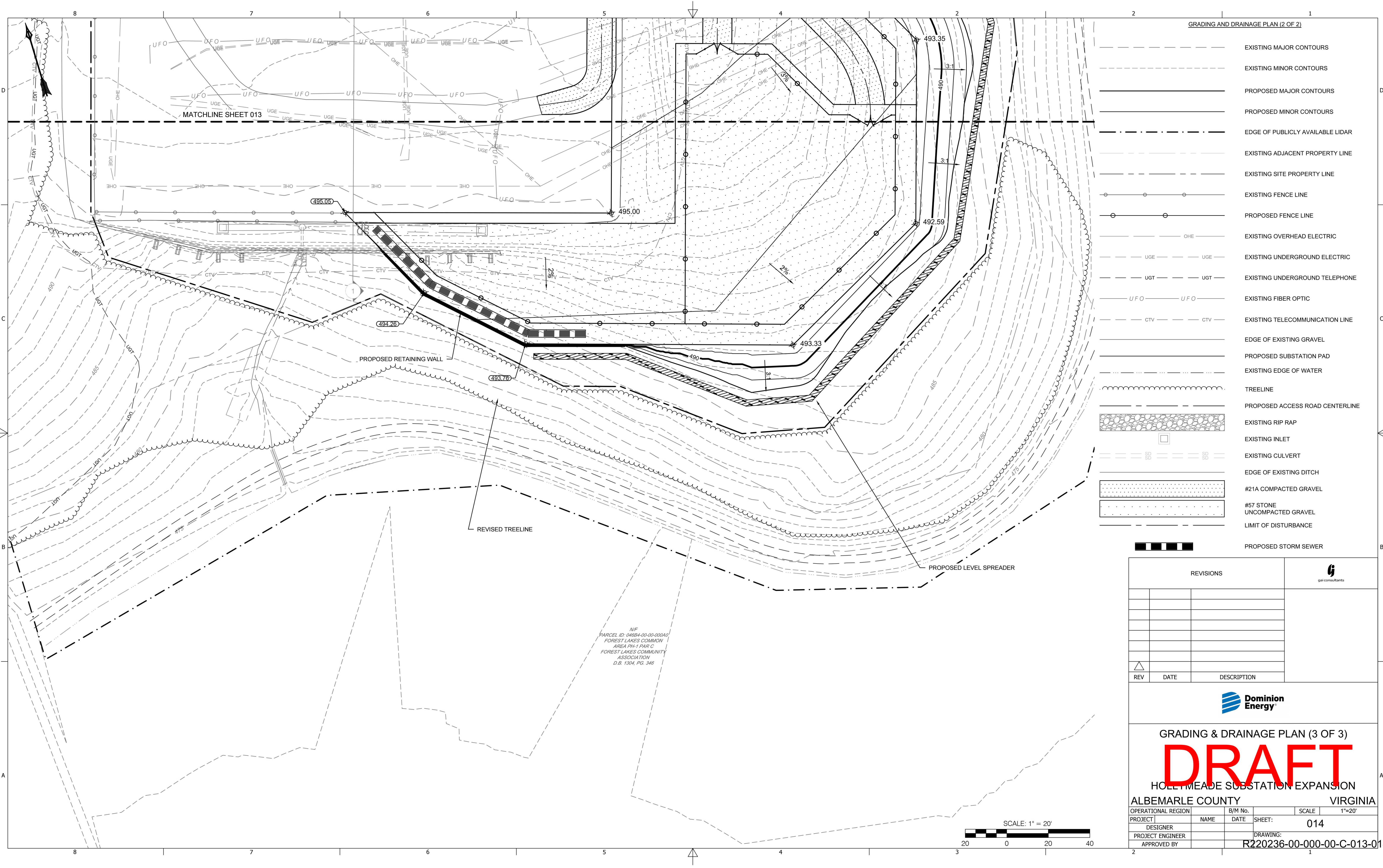
HOLTYMEADE SUBSTATION EXPANSION

ALBEMARLE COUNTY VIRGINIA

OPERATIONAL REGION	B/M No.	SCALE	1"=20'
PROJECT	NAME	DATE	SHEET: 012
DESIGNER			
PROJECT ENGINEER			
APPROVED BY			

DRAWING: R220236-00-000-00-C-012





GRADING AND DRAINAGE PLAN (2 OF 2)

- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- PROPOSED MAJOR CONTOURS
- PROPOSED MINOR CONTOURS
- EDGE OF PUBLICLY AVAILABLE LIDAR
- EXISTING ADJACENT PROPERTY LINE
- EXISTING SITE PROPERTY LINE
- EXISTING FENCE LINE
- PROPOSED FENCE LINE
- EXISTING OVERHEAD ELECTRIC
- EXISTING UNDERGROUND ELECTRIC
- EXISTING UNDERGROUND TELEPHONE
- EXISTING FIBER OPTIC
- EXISTING TELECOMMUNICATION LINE
- EDGE OF EXISTING GRAVEL
- PROPOSED SUBSTATION PAD
- EXISTING EDGE OF WATER
- TREELINE
- PROPOSED ACCESS ROAD CENTERLINE
- EXISTING RIP RAP
- EXISTING INLET
- EXISTING CULVERT
- EDGE OF EXISTING DITCH
- #21A COMPACTED GRAVEL
- #57 STONE UNCOMPACTED GRAVEL
- LIMIT OF DISTURBANCE
- PROPOSED STORM SEWER

N/F
PARCEL ID: 04884-00-00-000A0
FOREST LAKES COMMON
AREA PH-1 PAR C
FOREST LAKES COMMUNITY
ASSOCIATION
D.B. 1304, PG. 346



REVISIONS			
REV	DATE	DESCRIPTION	



GRADING & DRAINAGE PLAN (3 OF 3)

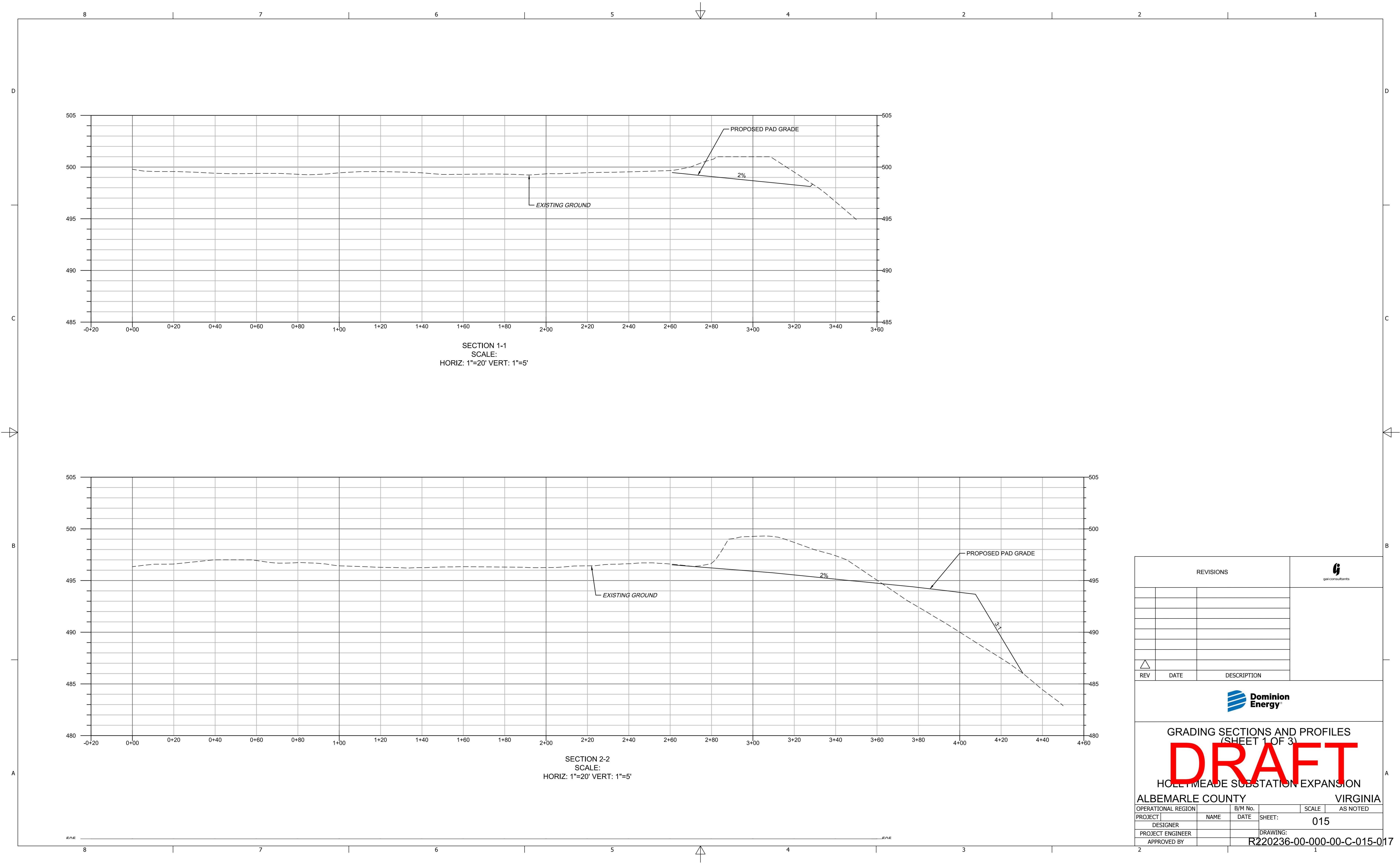
DRAFT

HOLTYMEADE SUBSTATION EXPANSION

ALBEMARLE COUNTY VIRGINIA

OPERATIONAL REGION	B/M No.	SCALE	1"=20'
PROJECT	NAME	DATE	SHEET: 014
DESIGNER			
PROJECT ENGINEER			
APPROVED BY			

DRAWING: R220236-00-000-00-C-013-014



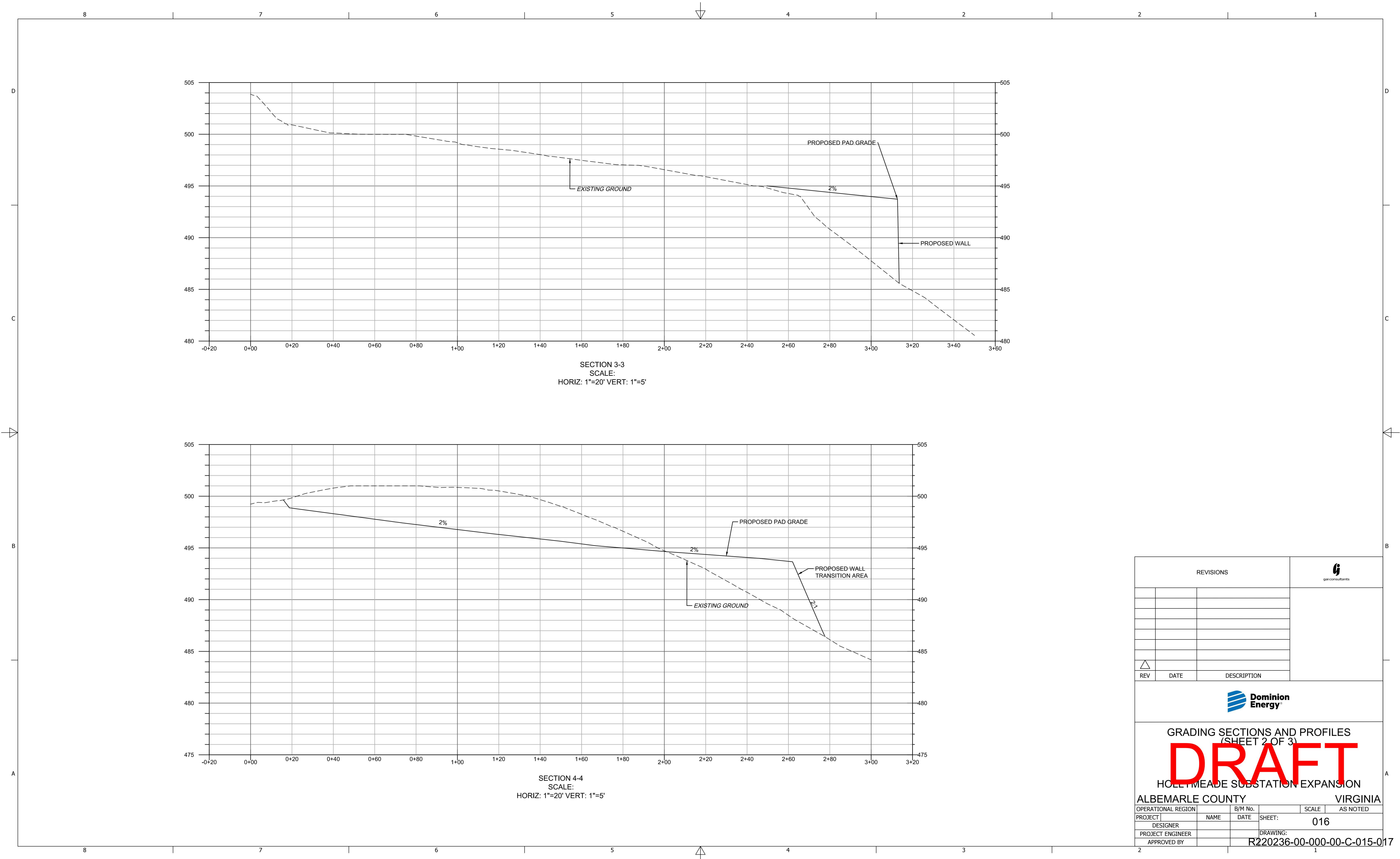
REVISIONS					
△					
REV	DATE	DESCRIPTION			


GRADING SECTIONS AND PROFILES
(SHEET 1 OF 3)


DRAFT

HOLLYMEADE SUBSTATION EXPANSION
ALBEMARLE COUNTY VIRGINIA

OPERATIONAL REGION	NAME	B/M No.	DATE	SHEET:	SCALE	AS NOTED
PROJECT	DESIGNER	PROJECT ENGINEER	APPROVED BY	DRAWING:	015	
R220236-00-000-00-C-015-017				1		



REVISIONS				
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REV	DATE	DESCRIPTION		

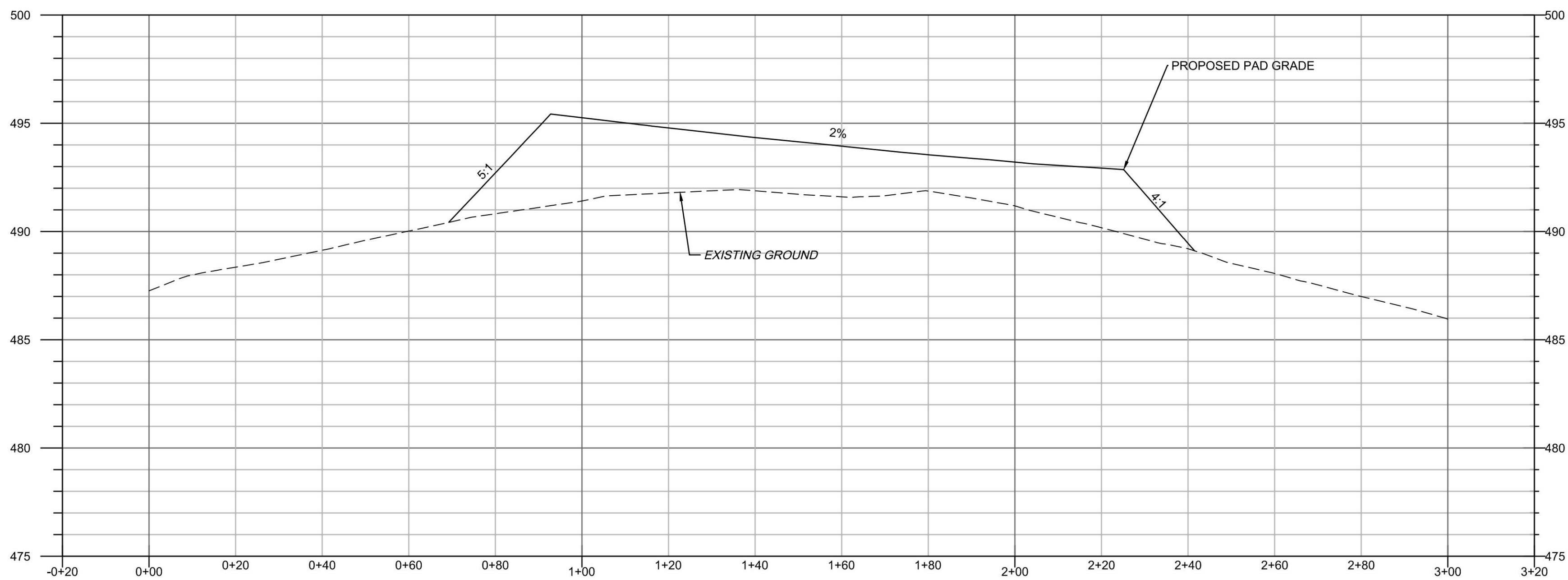


GRADING SECTIONS AND PROFILES
(SHEET 2 OF 3)

DRAFT

HOLLYMEADE SUBSTATION EXPANSION
ALBEMARLE COUNTY VIRGINIA

OPERATIONAL REGION	B/M No.	SCALE	AS NOTED
PROJECT	NAME	DATE	SHEET: 016
DESIGNER			
PROJECT ENGINEER	DRAWING:		
APPROVED BY	R220236-00-000-00-C-015-017		



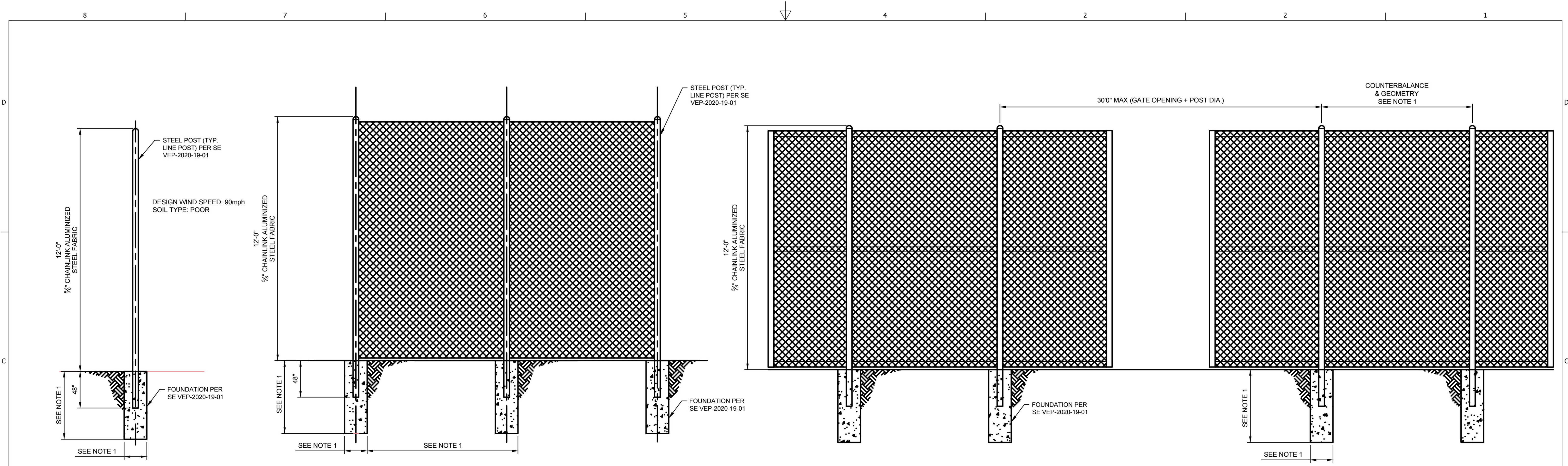
SECTION 5-5
SCALE:
HORIZ: 1"=20' VERT: 1"=5'

REVISIONS

REV	DATE	DESCRIPTION

GRADING SECTIONS AND PROFILES
(SHEET 3 OF 3)
DRAFT
HOLLYMEADE SUBSTATION EXPANSION
ALBEMARLE COUNTY VIRGINIA

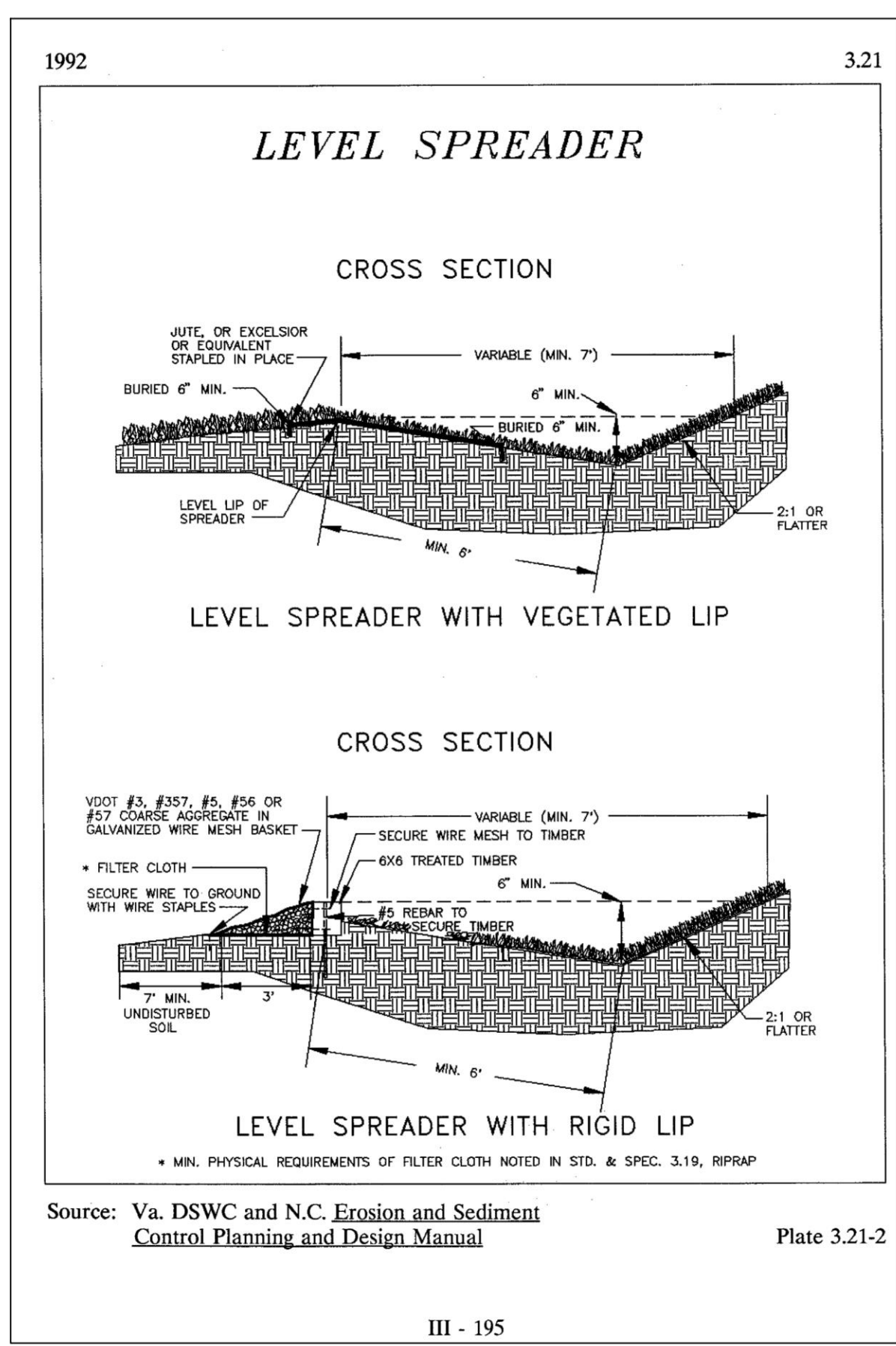
OPERATIONAL REGION	NAME	B/M No.	DATE	SHEET:	SCALE	AS NOTED
PROJECT	DESIGNER	PROJECT ENGINEER	APPROVED BY	DRAWING:	017	
				R220236-00-000-00-C-015-017		



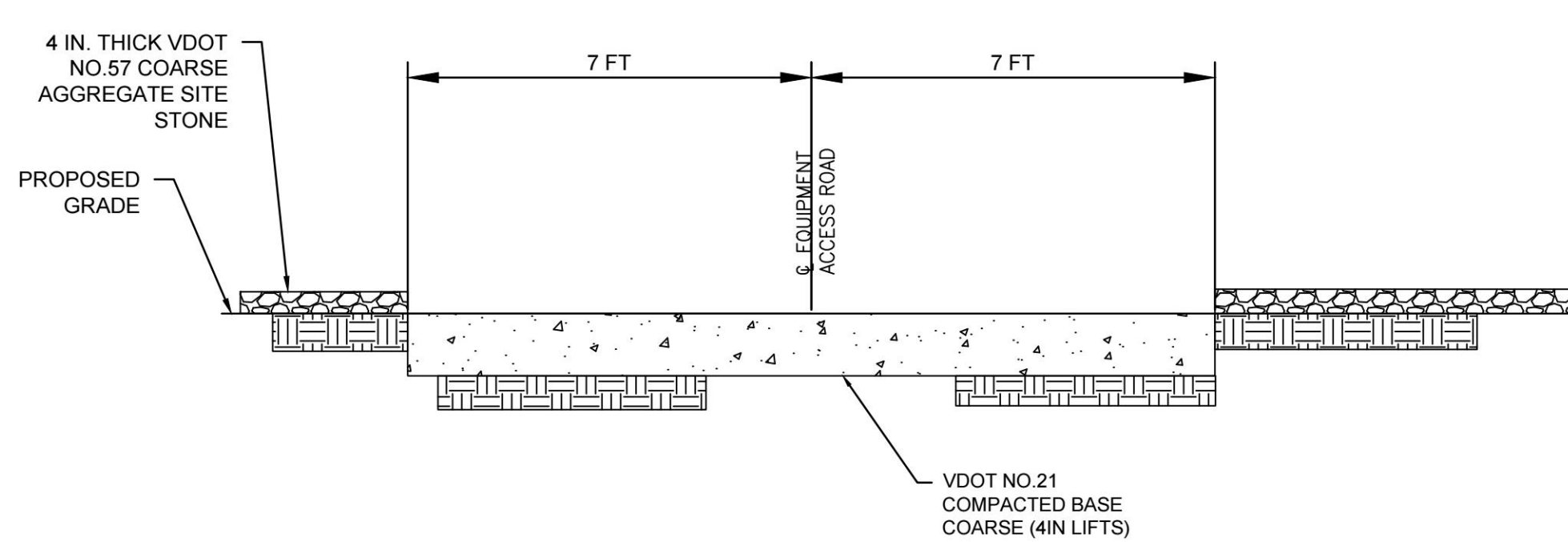
SUBSTATION FENCE DETAIL
NOT TO SCALE

**SUBSTATION FENCE ELEVATION
FOR ILLUSTRATIVE PURPOSES ONLY**
NOT TO SCALE

**BI-PARTING SLIDE TYPE GATE
FOR ILLUSTRATIVE PURPOSES ONLY**
NOT TO SCALE



Source: Va. DSWC and N.C. Erosion and Sediment Control Planning and Design Manual
Plate 3.21-2



REVISIONS			gar consultants	
REV	DATE	DESCRIPTION		

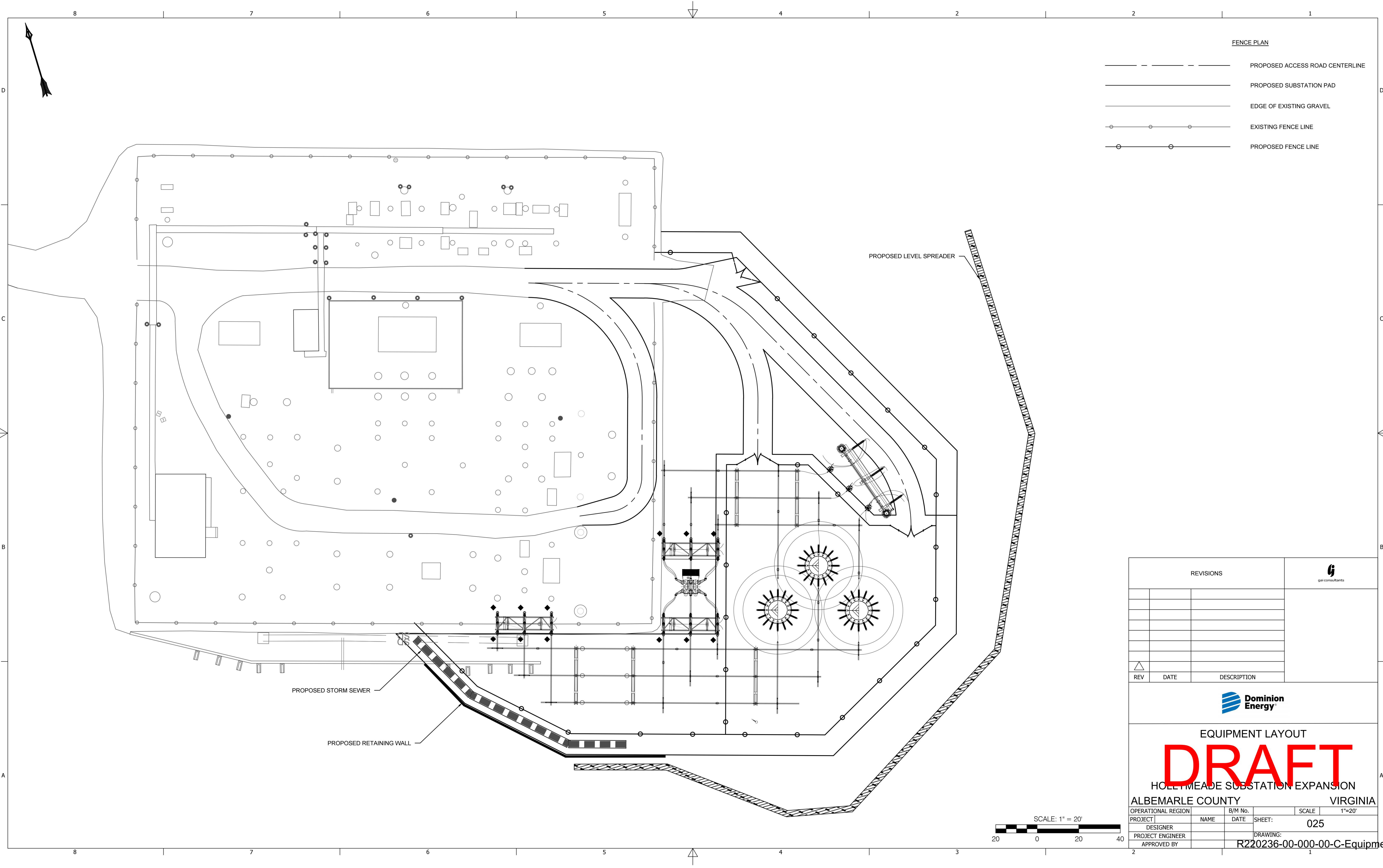
CONSTRUCTION DETAILS

DRAFT

HOLLYMEADE SUBSTATION EXPANSION


ALBEMARLE COUNTY VIRGINIA

OPERATIONAL REGION	B/M No.	SCALE	NTS
PROJECT	NAME	DATE	SHEET: 018
DESIGNER	DRAWING: R220236-00-000-00-C-018		
PROJECT ENGINEER	APPROVED BY		



FENCE PLAN

- PROPOSED ACCESS ROAD CENTERLINE
- PROPOSED SUBSTATION PAD
- EDGE OF EXISTING GRAVEL
- EXISTING FENCE LINE
- PROPOSED FENCE LINE

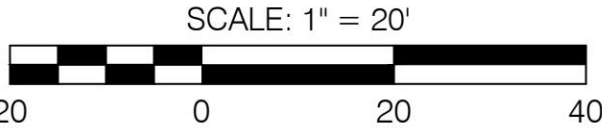
REVISIONS			
REV	DATE	DESCRIPTION	

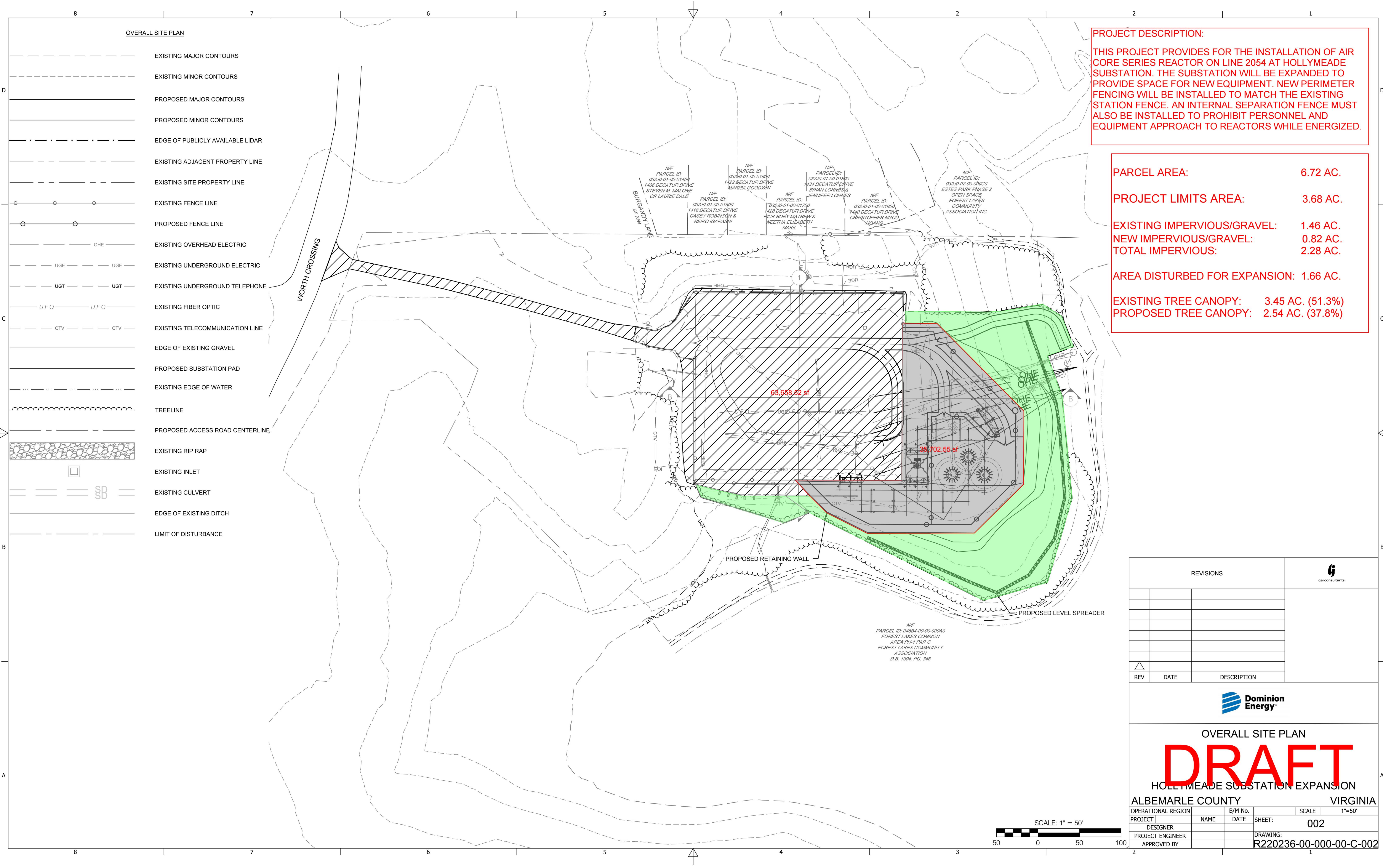


EQUIPMENT LAYOUT
DRAFT
HOLTYMEADE SUBSTATION EXPANSION
ALBEMARLE COUNTY VIRGINIA

OPERATIONAL REGION	B/M No.	SCALE	1"=20'
PROJECT	NAME	DATE	SHEET: 025
DESIGNER			
PROJECT ENGINEER			
APPROVED BY			

DRAWING: R220236-00-000-00-C-Equipment





PROJECT DESCRIPTION:

THIS PROJECT PROVIDES FOR THE INSTALLATION OF AIR CORE SERIES REACTOR ON LINE 2054 AT HOLLYMEADE SUBSTATION. THE SUBSTATION WILL BE EXPANDED TO PROVIDE SPACE FOR NEW EQUIPMENT. NEW PERIMETER FENCING WILL BE INSTALLED TO MATCH THE EXISTING STATION FENCE. AN INTERNAL SEPARATION FENCE MUST ALSO BE INSTALLED TO PROHIBIT PERSONNEL AND EQUIPMENT APPROACH TO REACTORS WHILE ENERGIZED.


PARCEL AREA: 6.72 AC.

PROJECT LIMITS AREA: 3.68 AC.

EXISTING IMPERVIOUS/GRAVEL: 1.46 AC.
NEW IMPERVIOUS/GRAVEL: 0.82 AC.
TOTAL IMPERVIOUS: 2.28 AC.

AREA DISTURBED FOR EXPANSION: 1.66 AC.

EXISTING TREE CANOPY: 3.45 AC. (51.3%)
PROPOSED TREE CANOPY: 2.54 AC. (37.8%)

REVISIONS			
REV	DATE	DESCRIPTION	



OVERALL SITE PLAN

DRAFT

HOLLYMEADE SUBSTATION EXPANSION

ALBEMARLE COUNTY VIRGINIA

OPERATIONAL REGION	B/M No.	SCALE	1"=50'
PROJECT	NAME	DATE	SHEET: 002
DESIGNER			
PROJECT ENGINEER			DRAWING:
APPROVED BY			R220236-00-000-00-C-002