

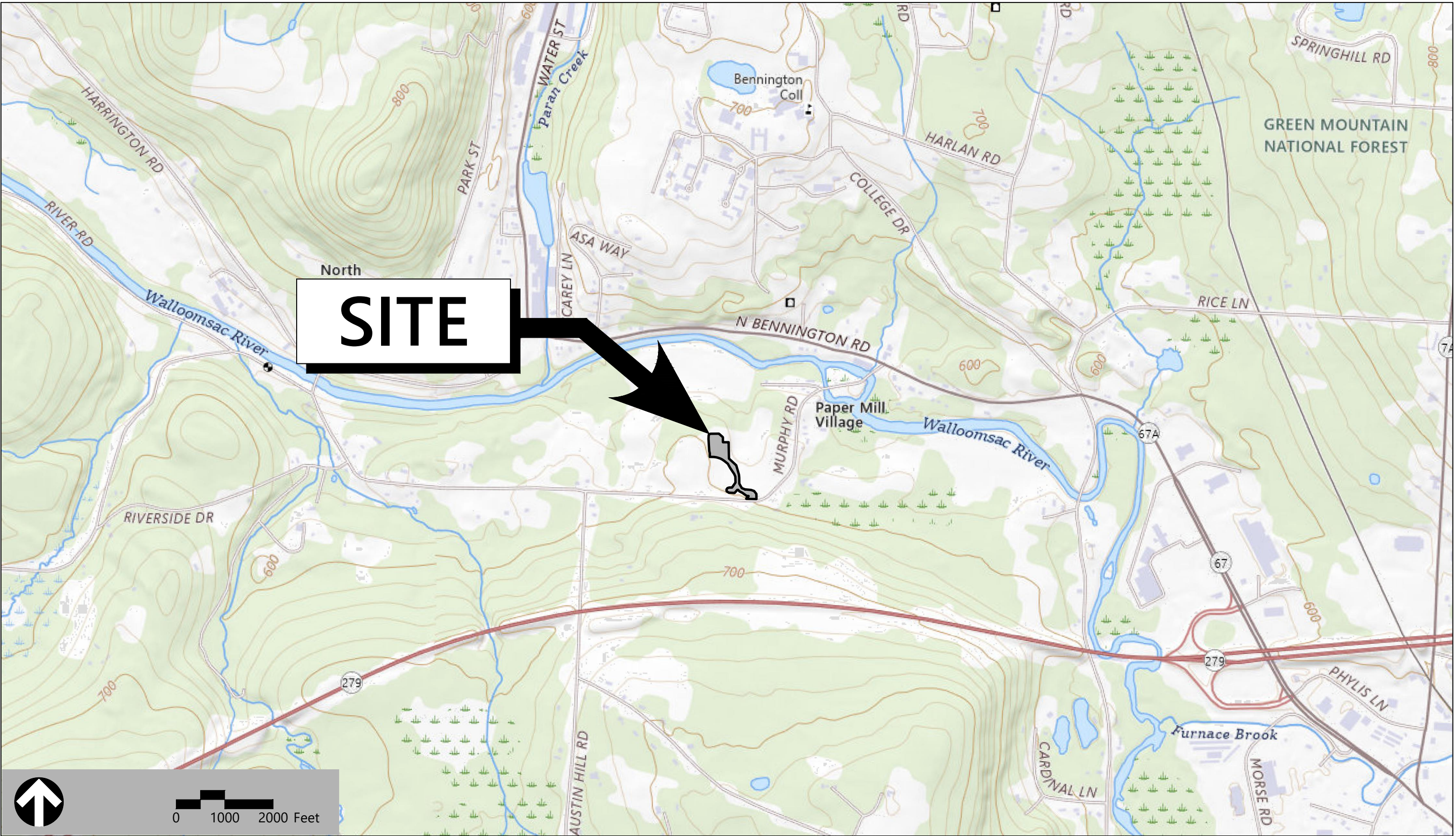
Site Plans

Issued for	Review
Date Issued	May 19, 2025
Latest Issue	May 19, 2025

Murphy Road Energy Storage

419 Murphy Road
Bennington, VT

Exh. MRES-TK-2

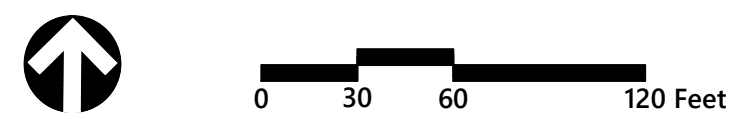


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3	C2.00 - Overall Site Plan	May 19, 2025
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Murphy Road Energy Storage

419 Murphy Road
Bennington, VT

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Designed by	NRG	Checked by	AGM
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Review

Not Approved For Construction

Drawing Title

Existing Conditions Plan

Summary Table

PROJECT COORDINATES (LAT/LONG)

N 42°54'39.4"
W 73°14'21.2"

B.E.S.S. SUMMARY

TOTAL PROJECT AREA WITHIN PERIMETER FENCE	0.37	AC
LENGTH OF PERIMETER FENCE	500	LF

NEW IMPERVIOUS AREA SUMMARY

ACCESS ROADS	18,010	SF
EQUIPMENT PADS	3,250	SF

AREA SUMMARY

EXISTING IMPERVIOUS AREA	4,350	SF
NEW IMPERVIOUS AREA	20,040	SF
REMOVED IMPERVIOUS AREA	1,800	SF
REDEVELOPED IMPERVIOUS AREA	1,210	SF
TOTAL FINISHED IMPERVIOUS AREA	22,590	SF
AREA OF POTENTIAL EARTH DISTURBANCE	93,290	SF
	=	2.14 AC
AREA OF TREE CLEARING	2340	SF

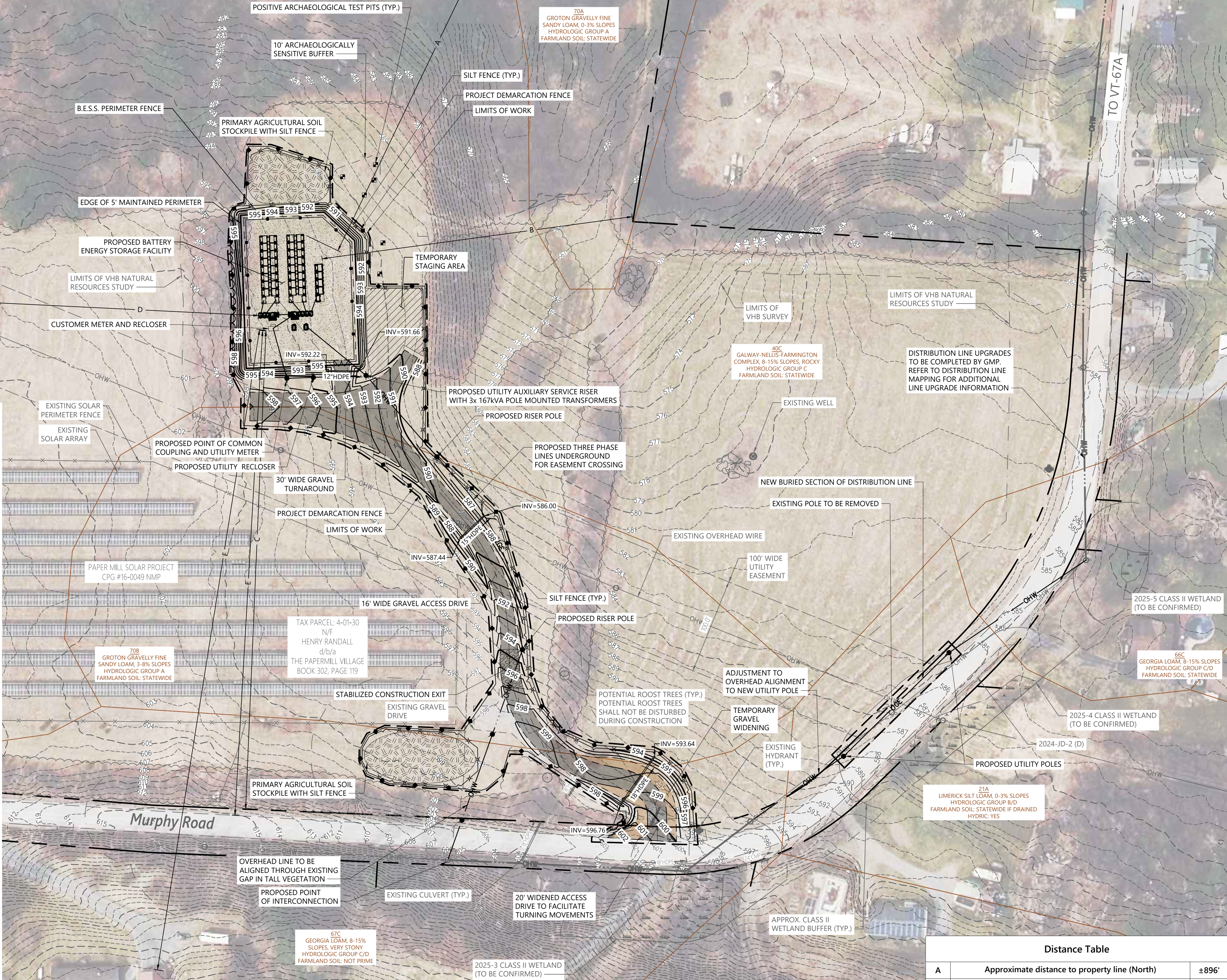
PRIMARY AGRICULTURAL SOIL IMPACT AREA (BASED ON NRCS SOIL MAP UNITS)

TOTAL PRIMARY AGRICULTURAL SOIL IMPACTS (WITHIN LOD)	1.72	AC
TOTAL POTENTIAL INDIRECT IMPACT (WITHIN LOD)	0.46	AC
TOTAL DIRECT IMPACTS	1.26	AC
• TEMPORARY DIRECT IMPACTS (STAGING AREAS, CONSTRUCTION EXIT, TRENCHES, ETC.)	0.1	AC
• PERMANENT DIRECT IMPACTS (ACCESS ROADS, GRADING, PADS, STOCKPILES)	1.16	AC

Legend

EXISTING	PROPOSED	
		NATURAL RESOURCE STUDY AREA
		APPROXIMATE PROPERTY LINE
		ABUTTING PROPERTY LINE
		WETLAND
		50 FT RIPARIAN BUFFER
		STREAM / DITCH
		TREE/SHRUB LINE
		TREE
		NRCS SOIL LAYER BOUNDARY
		UTILITY EASEMENT
		OVERHEAD UTILITY
		UNDERGROUND UTILITY
		MINOR CONTOUR
		MAJOR CONTOUR
		SILT FENCE
		REINFORCED SILT FENCE
		PROJECT DEMARCATION FENCE
		EDGE OF PAVEMENT
		EDGE OF GRAVEL
		PERIMETER FENCE
		LIMITS OF WORK
		TEMPORARY STAGING AREA
		GRAVEL ACCESS ROAD/TURN AROUND
		PRIMARY AGRICULTURAL SOIL STOCKPILE
		STABILIZED CONSTRUCTION EXIT
		TEMPORARY ACCESS ROAD WIDENING

- NOTES:
- ALL DISTURBED AREAS NOT STABILIZED WITH GRAVEL OR OTHER HARDSCAPE SHALL BE STABILIZED WITH PERMANENT, VEGETATED COVER IN ACCORDANCE WITH CONSTRUCTION GENERAL PERMIT 3-9020
 - ALL EXCAVATION AND GRADING WITHIN MAPPED PRIMARY AGRICULTURAL SOIL AREAS SHALL BE CONDUCTED IN ACCORDANCE WITH THE VERMONT AGENCY OF AGRICULTURE, FOOD, AND MARKETS ACT 250 PROCEDURE: RECLAMATION OF VERMONT AGRICULTURAL SOILS



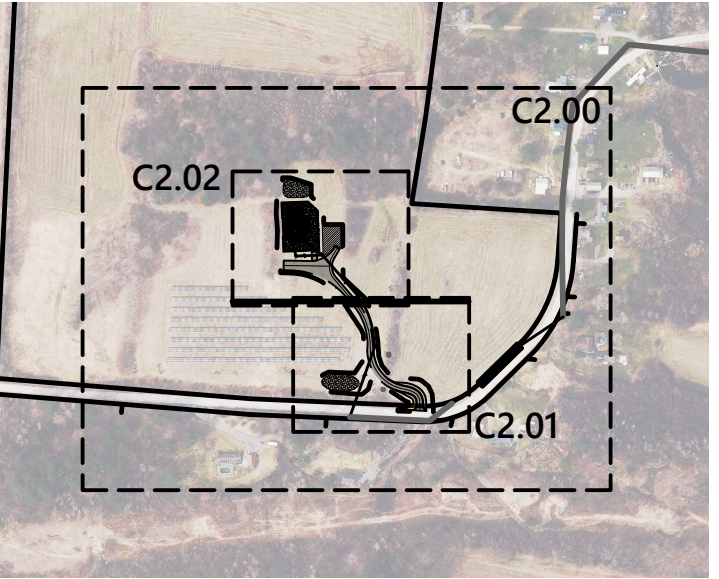
Distance Table

A	Approximate distance to property line (North)	±896'
B	Approximate distance to property line (East)	±326'
C	Approximate distance to property line (South)	±500'
D	Approximate distance to property line (West)	±883'
E	Approximate distance to road (Murphy Road)	±507'
F	Approximate distance to nearest residence	±677'

Note: All distances measured to the closest portion of the electric equipment.

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Key
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Overall Site Plan

Drawing Number

C2.00

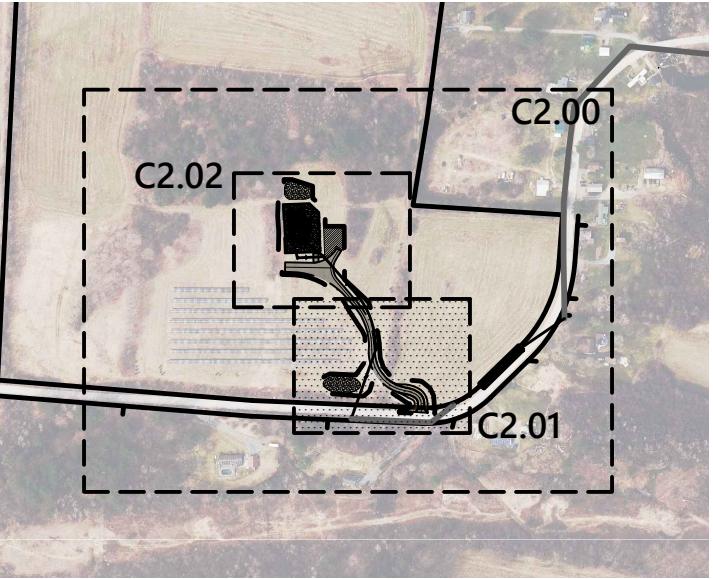
Sheet 3 of 8

Project Number
58952.13

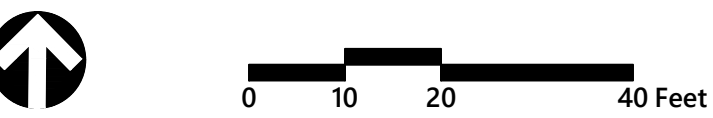




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Drawing Title
Site Plan (1 of 2)

Drawing Number

C2.01

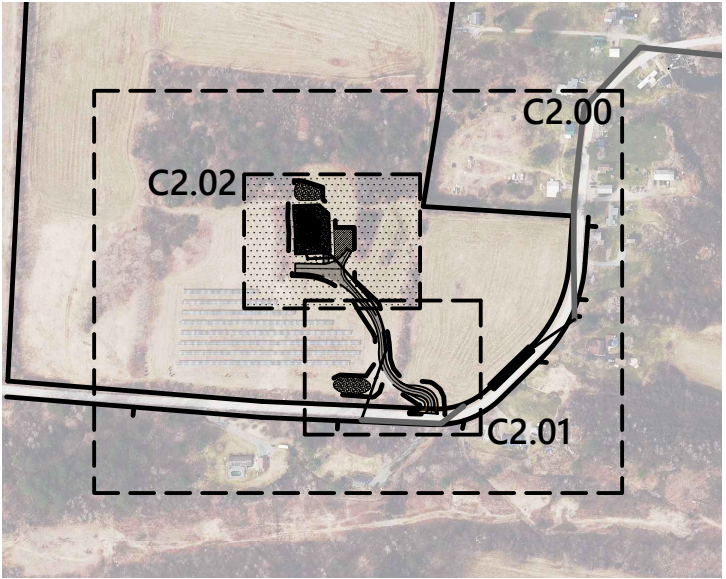
Sheet 4 of 8

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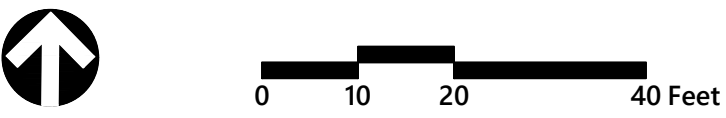
NOTE:
SOME UNDERGROUND CONDUIT WITHIN THE
FENCELINE HAS BEEN OMITTED FOR CLARITY.
FINAL CONDUIT COUNTS AND LAYOUT IS TBD.



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Not Approved For Construction
Drawing Title
Site Plan (2 of 2)

Drawing Number

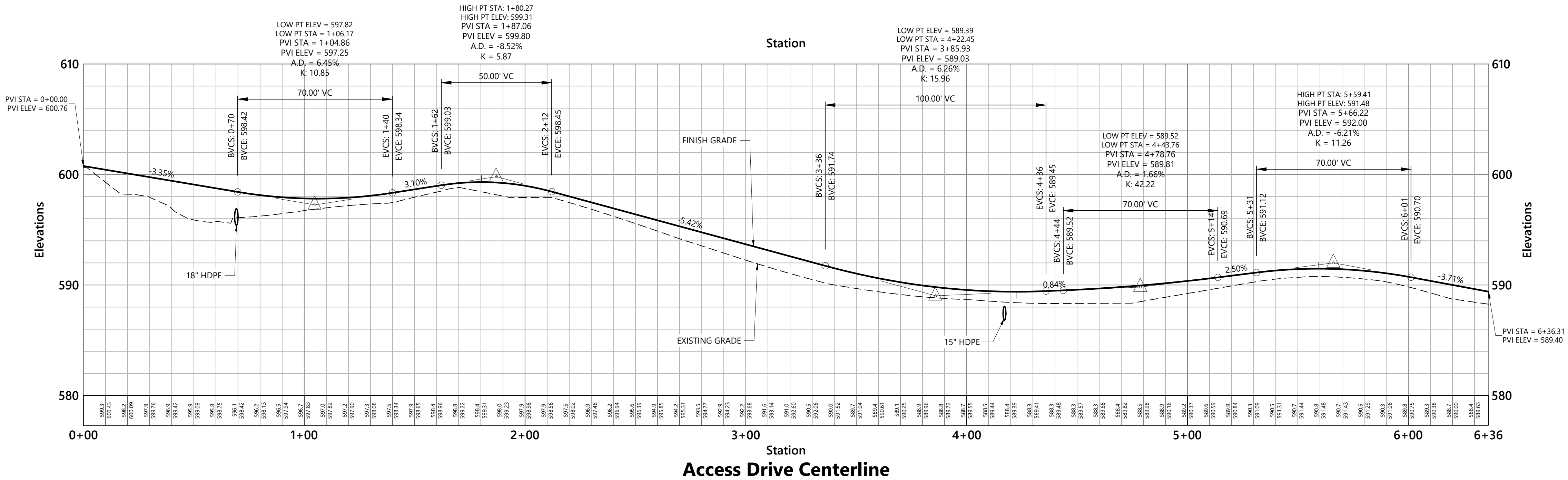
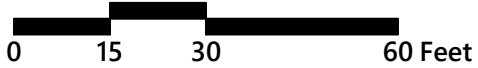
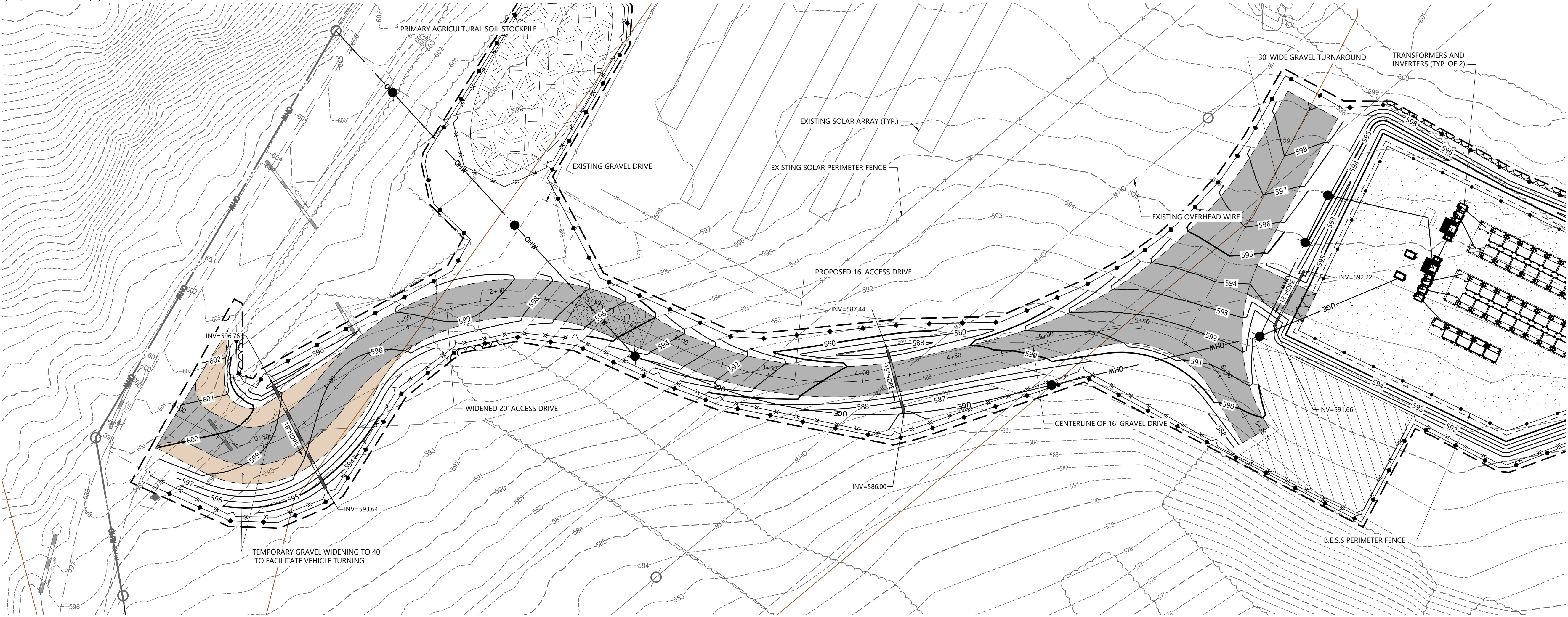
C2.02

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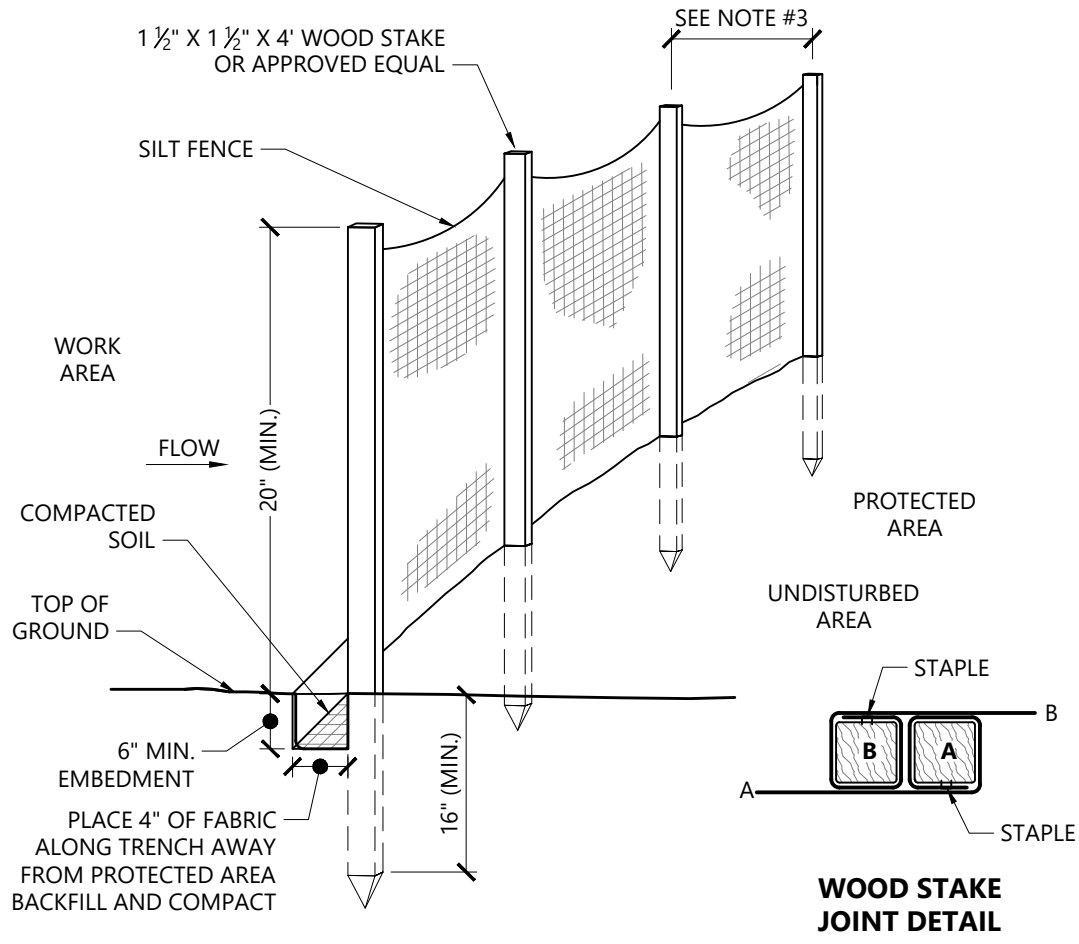
Not Approved For Construction
Drawing Title
Profile and Grading Plan

Drawing Number

C4.00

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Project Number
58952.13

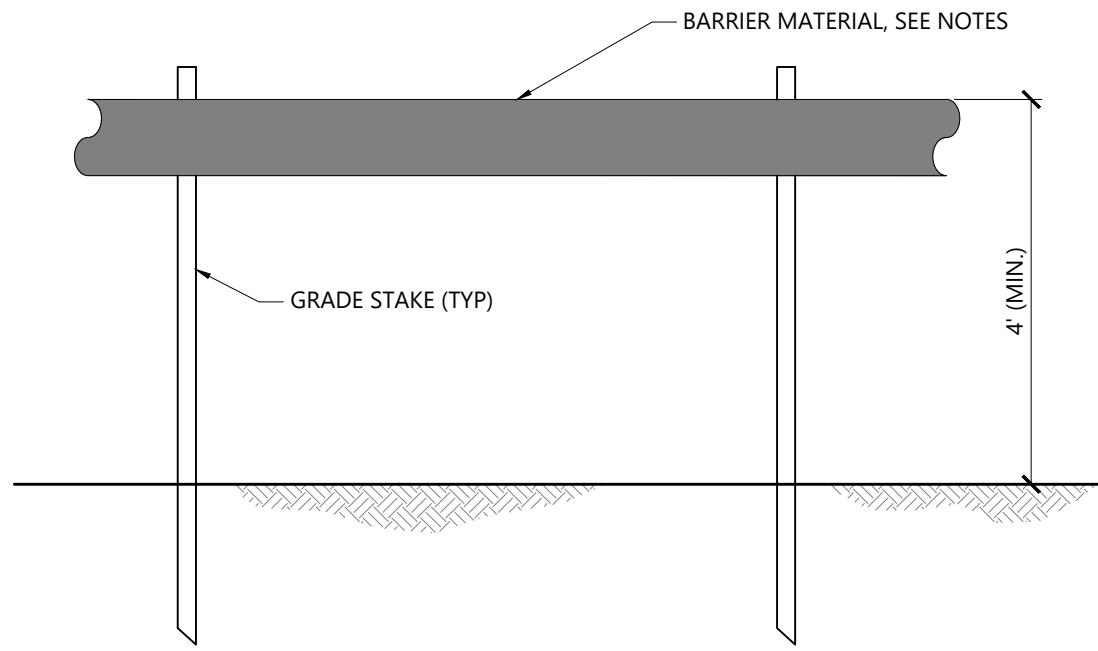


NOTES

- WOVEN WIRE FENCE REINFORCEMENT IS REQUIRED WITHIN 100 FT UPSLOPE OF RECEIVING WATERS. REINFORCEMENT SHALL BE WOVEN WIRE, MIN. 14 GAUGE WITH A 6" MESH OPENING SHALL BE USED.
- FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N OR APPROVED EQUIVALENT.
- POST SPACING SHALL BE 6 FT FOR NON-REINFORCED FENCE AND 10 FT FOR REINFORCED FENCE.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY 6 INCHES AND FOLDED.
- PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE OR APPROVED EQUIVALENT.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN SEDIMENT REACHES HALF OF FABRIC HEIGHT.
- SILT FENCE SHALL NOT BE USED TO DEMARCATE LIMITS OF DISTURBANCE.

Silt Fence/ Reinforced Silt Fence Barrier

N.T.S. Source: VHB LD_650-VT 09/24



NOTES

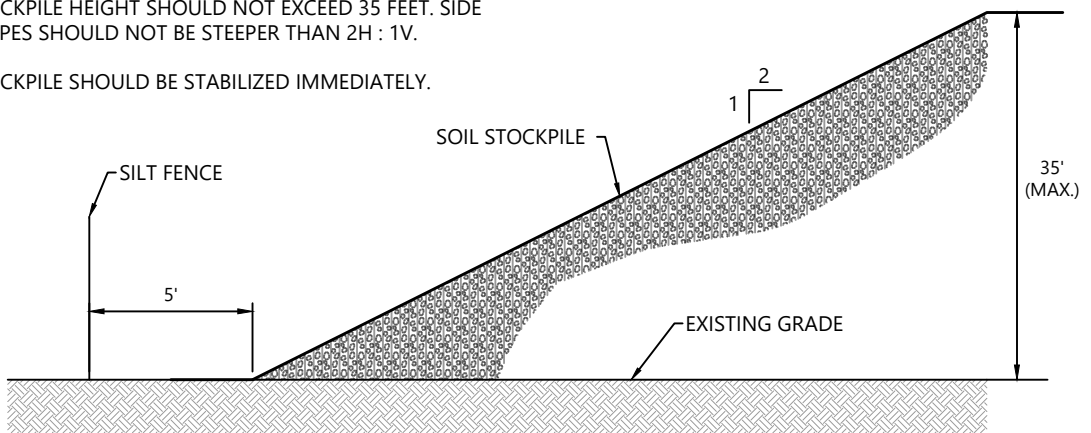
- PROJECT DEMARCATION FENCE SHALL BE INSTALLED ALONG THE PERIMETER OF THE PROJECT AREA OR ALONG PHASE BOUNDARIES TO DEMARCATE THE LIMIT OF DISTURBANCE. NO EARTHWORK OR STORAGE OF MATERIALS SHALL BE CONDUCTED BEYOND THIS LIMIT WITHOUT PRIOR APPROVAL FROM THE OSPC.
- BARRIER MATERIAL SHALL BE 3" ORANGE BARRIER MESH TAPE, 1/2" YELLOW POLYPROPYLENE ROPE, OR ORANGE CONSTRUCTION/SNOW FENCE
- WITHIN 50' OF WATER RESOURCE AREAS, USE CONSTRUCTION/SNOW FENCE OR 2 ROWS OF TAPE/ROPE. BEYOND 50' FROM WATER RESOURCE AREAS USE 1 ROW OF TAPE/ROPE.
- TAPE OR ROPE MAY BE FASTENED TO STAKES, TREES, OR OTHER APPROPRIATE FIXED OBJECTS.
- PROJECT DEMARCATION SHALL NOT CROSS ACTIVE ACCESS ROUTES (E.G. ROADS). PROJECT DEMARCATION MAY CROSS RESOURCES AREAS WITH EXCEPTION OF LARGER WATER BODIES WHERE IT IS NOT FEASIBLE OR ADVISABLE.
- PROJECT DEMARCATION SHALL REMAIN IN PLACE AND BE MAINTAINED/REPLACED AS NEEDED UNTIL FINAL STABILIZATION IN THE AREA HAS BEEN ACHIEVED.

Project Demarcation Fence (PDF)

N.T.S. Source: VHB LD_651A-VT 10/24

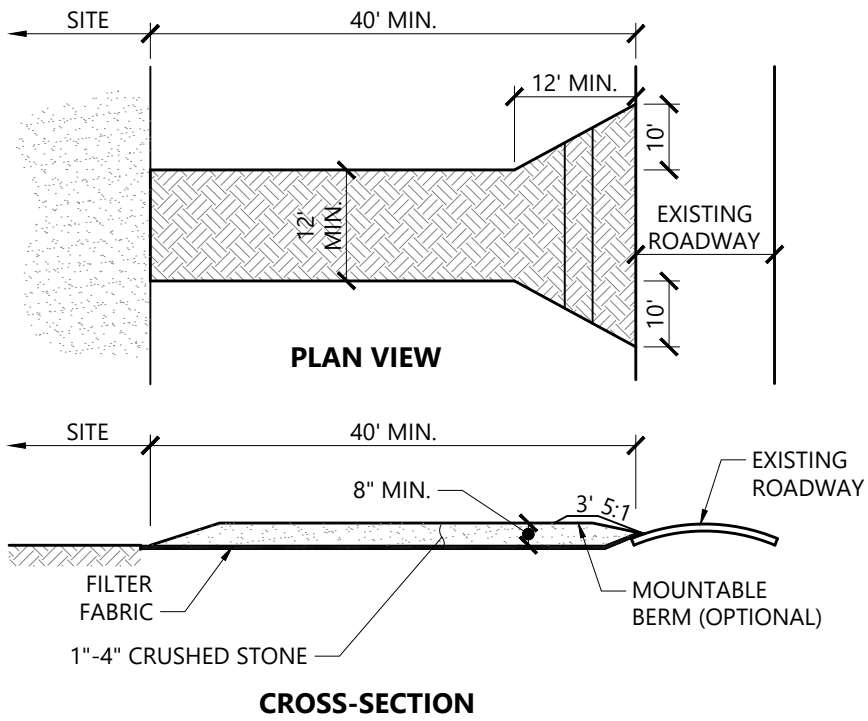
NOTES:

- INSTALL SILT FENCE AROUND PERIMETER OF STOCKPILE.
- DO NOT BLOCK NATURAL DRAINAGE PATHS WITH STOCKPILE PLACEMENT.
- STOCKPILE HEIGHT SHOULD NOT EXCEED 35 FEET. SIDE SLOPES SHOULD NOT BE STEEPER THAN 2H : 1V.
- STOCKPILE SHOULD BE STABILIZED IMMEDIATELY.



Soil Stockpile and Covering Detail

N.T.S. Source: VHB LD_699-VT 11/15



NOTES

- AGGREGATE SIZE: USE A MATRIX OF 1 TO 4 INCH STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- LENGTH: NOT LESS THAN 40 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM APPLIES)
- THICKNESS: NOT LESS THAN EIGHT (8) INCHES
- WIDTH: TWELVE (12) FOOT MINIMUM (FLARED AT ROAD FOR VEHICLE TURNING) BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO THE SITE.
- GEOTEXTILE MUST BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. GEOTEXTILE SHALL BE TREVIA SPUNBOND 1135, MIRAFI 600X, OR APPROVED EQUIVALENT.
- ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION EXITS SHALL BE PIPED BENEATH THE EXIT. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- WHEN WASHING IS REQUIRED IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED ACCORDING TO PERMIT REQUIREMENTS.

Stabilized Construction Exit

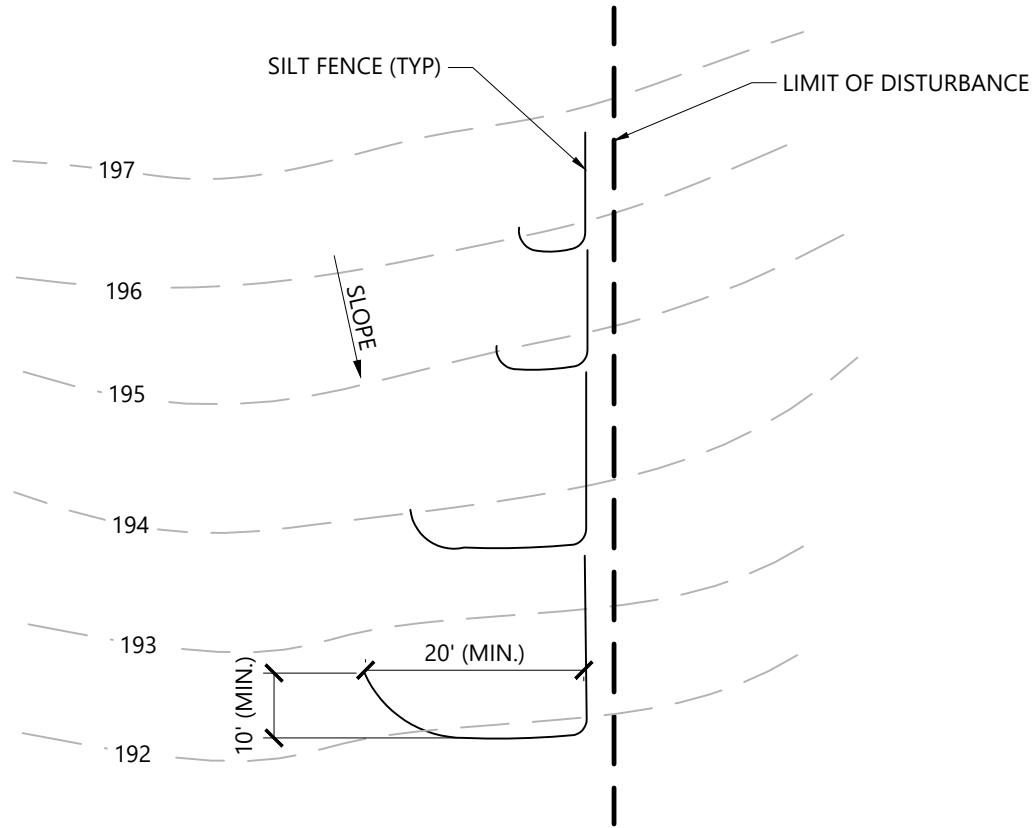
N.T.S. Source: VHB LD_682-VT 10/24



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NOTES

- SILT FENCE SHALL BE INSTALLED IN SHORTER RUNS WITH "J-HOOKS" TO AVOID CONCENTRATION OF FLOWS AT ONE LOCATION BY TRAPPING RUNOFF AT MULTIPLE POINTS ALONG A SLOPE.
- MINIMUM WIDTH OF J-HOOK RECOMMENDED AT 20 FT WITH A DEPTH OF 10 FT. WHERE SPACE IS LIMITED (E.G. ALONG NARROW RIGHTS OF WAY), NARROWER HOOKS CAN BE USED WITH A HIGHER SPACING FREQUENCY.
- START DOWN-GRADIENT SILT FENCE LINE AS CLOSE AS POSSIBLE TO UP-GRADIENT J-HOOK.

Installation of "J-Hooks" on Slopes

N.T.S. Source: VHB LD_VT 08/16

MULCH MATERIAL AND APPLICATION				
MULCH MATERIAL	QUALITY STANDARDS	PER 1,000 SQ-FT	PER ACRE	DEPTH OF APPLICATION
WOOD CHIPS OR SHAVINGS	AIR DRIED, FREE OF OBJECTIONABLE MATERIAL	500 - 900 LBS	10 - 20 TONS	2" - 7"
WOOD FIBER CELLULOSE (PARTIALLY DIGESTED WOOD FIBERS)	MADE FROM NATURAL WOOD USUALLY WITH GREEN DYE AND DISPERSING AGENT	50 LBS	2,000 LBS	N/A
GRAVEL, CRUSHED STONE OR SLAG	WASHED; SIZE 2B OR 3A - 1 1/2"	9 CY	405 CY	3"
HAY OR STRAW	AIR-DRIED; FREE OF UNDESIRABLE SEEDS AND COARSE MATERIALS	90 - 100 LBS, 2-3 BALES	2 TONS (100-120 BALES)	COVER ABOUT 90% SURFACE
COMPOST	UP TO 3" PIECES. MODERATELY TO HIGHLY STABLE	3 - 9 CY	3 - 9 CY	1-3"
EROSION CONTROL MIX	WELL-GRADED MIXTURE OF PARTICLE SIZES. ORGANIC CONTENT BETWEEN 80-100% DRY WEIGHT. PARTICLE SIZE SHALL PASS 6" SCREEN (100%)	*SLOPES 3(HZ):1(VERT.) = 2 INCH DEPTH PLUS ADDITIONAL 1/2 INCH DEPTH PER 20 FT. OF SLOPE UP TO 100 FT. **SLOPES BETWEEN 3(HZ):1(VERT.) AND 2(HZ):1(VERT.) = 4 INCH DEPTH PLUS ADDITIONAL 1/2 INCH PER 20 FT. OF SLOPE UP TO 100 FT. ***SLOPES STEEPER THAN 2(HZ):1(VERT.) APPLICABILITY TO SPECIFIC SITE AND MULCH DEPTH TO BE REVIEWED AND APPROVED PRIOR TO USE BY OPSC OR EPSC SPECIALIST		

- APPLY TACKIFIER AS NEEDED TO MINIMIZE POTENTIAL FOR MULCH TO BLOW AWAY.
- MULCH MUST NOT CONTAIN INVASIVE PLANT SPECIES, (SEEDS OR SEEDLINGS)
- TACKIFIER MAY BE WATER, NETTING, OR SIMILAR.
- OTHER THAN EROSION CONTROL MIX, MULCH IS NOT TO BE INSTALLED ON SLOPES > 3:1.

Mulching Notes and Specifications

N.T.S. Source: VHB LD_VT 08/16

TEMPORARY SEEDING

- AREA TO BE SEEDED MUST BE ROUGH GRADED AND SLOPES PHYSICALLY STABLE.
- SEEDING METHOD TO RESULT IN GOOD SOIL TO SEED CONTACT.
- AFTER SEEDING, MULCH THE AREA WITH HAY OR STRAW AT 2 TONS/AC (APPROX 90 LBS/1,000 SF OR 2 BALES/1,000 SF); SEE MULCH DETAIL AND SPECIFICATIONS.
- MULCH ANCHORING MAY BE NEEDED WHERE WIND OR AREAS OF CONCENTRATED WATER ARE POSSIBLE.
- WOOD FIBER HYDROMULCH OR OTHER SPRAYABLE PRODUCTS APPROVED FOR EROSION CONTROL MAY BE USED IF APPLIED ACCORDING TO MANUFACTURERS' SPECIFICATIONS.

PERMANENT SEEDING

- SEE SEEDING SPECIFICATIONS FOR RECOMMENDED SEED MIXES. USE RIPARIAN AND WETLAND SEEDING MIX WITHIN 50 FEET OF STREAM CROSSINGS AND IN DISTURBED WETLAND AREAS. USE UPLAND NATURAL COMMUNITY MIX WITHIN AREAS IDENTIFIED AS SIGNIFICANT NATURAL COMMUNITIES. USE PERMANENT SEEDING MIX FOR ALL OTHER DISTURBED UPLAND AREAS. SEE VERMONT STANDARDS AND SPECIFICATIONS FOR EROSION PREVENTION AND SEDIMENT CONTROL FOR ADDITIONAL SEED MIXTURES.
- AREA TO BE SEEDED MUST BE ROUGH GRADED AND SLOPES PHYSICALLY STABLE; CHISELING OR DISKING MAY BE NEEDED IF SOIL IS COMPACTED.
- SEEDING METHOD TO RESULT IN GOOD SOIL TO SEED CONTACT.
- PERMANENT SEEDING TO OCCUR PRIOR TO SEPTEMBER 15TH UNLESS WEATHER PERMITS SEEDING BEYOND SEPTEMBER 15TH.
- AFTER SEEDING, MULCH THE AREA WITH HAY OR STRAW AT 2 TONS/AC (APPROX 90 LBS/1,000 SF OR 2 BALES/1,000 SF); SEE MULCH DETAIL AND SPECIFICATIONS.
- MULCH ANCHORING MAY BE NEEDED WHERE WIND OR AREAS OF CONCENTRATED WATER ARE POSSIBLE.
- WOOD FIBER HYDROMULCH OR OTHER SPRAYABLE PRODUCTS APPROVED FOR EROSION CONTROL MAY BE USED IF APPLIED ACCORDING TO MANUFACTURERS' SPECIFICATIONS.
- IRRIGATION MAY BE NEEDED TO FACILITATE GRASS GROWTH AND ESTABLISH ADEQUATE GRASS COVER.

TEMPORARY SEEDING MIX		
TYPE	SEASON	RATE (LBS/ACRE)
RYEGRASS (ANNUAL OR PERENNIAL)	APRIL 15 - SEPTEMBER 15	20
"AROOSTOOK" WINTER RYE	SEPTEMBER 15 - APRIL 15	90
PERMANENT SEEDING MIX*		
TYPE	SEASON	RATE (LBS/ACRE)
BIRDSFOOT TREFOIL(1)**	APRIL 15 - SEPTEMBER 15	5
COMMON WHITE CLOVER (1)**	APRIL 15 - SEPTEMBER 15	8
TALL FESCUE (2)	APRIL 15 - SEPTEMBER 15	10
REDTOP (3)	APRIL 15 - SEPTEMBER 15	2
RYEGRASS (PERENNIAL) (3)	APRIL 15 - SEPTEMBER 15	5
*PERMANENT SEEDING MIX IS A COMBINATION OF BIRDSFOOT TREFOIL OR COMMON WHITE CLOVER PLUS TALL FESCUE PLUS REDTOP OR RYEGRASS (PERENNIAL). I.E. PERMANENT SEEDING MIX = (1) + (2) + (3). (SEE PAGE 4.27 OF THE VERMONT STANDARDS AND SPECIFICATIONS FOR EROSION PREVENTION AND SEDIMENT CONTROL)		
** ADD INOCULANT IMMEDIATELY PRIOR TO SEEDING		
RIPARIAN AND WETLAND SEEDING MIX		
TYPE	SEASON	RATE (LBS/ACRE)
"WET MEADOW AND DETENTION BASIN" OR APPROVED EQUAL	APRIL 15 -SEPTEMBER 15	35
*SEED SPECIFIED IS FROM VERMONT WETLAND PLANT SUPPLY AND COMPOSED OF THE FOLLOWING SPECIES: PANICUM VIRGATUM, ELYMUS VIRGINICUS, FESTUCA RUBRA, CAREX VULPINOIDEA, CAREX SCOPARIA, SCIRPUS CYPERINUS, SCIRPUS ATROVIRENS, BIDENS CERNUA, EUPATORIUM PERFOLIATUM, EUPATORIADELPHUS MACULATUS, JUNCUS EFFUSUS, ONOCLEA SENSIBILIS, VERBENA HASTATA, SYMPHYOTRICHUM NOVAE-ANGLIAEA		
UPLAND NATURAL COMMUNITY MIX		
TYPE	SEASON	RATE (LBS/ACRE)
"VERMONT CONSERVATION AND WILDLIFE" OR APPROVED EQUIVALENT	APRIL 15 -SEPTEMBER 15	25
*SEED SPECIFIED IS, IN PART, FROM VERMONT WETLAND PLANT SUPPLY AND COMPOSED OF THE FOLLOWING SPECIES: ELYMUS VIRGINICUS, FESTUCA RUBRA, SCHIZACHYRIUM SCOPARIUM, ANDROPOGON GERARDII, PANICUM CLANDESTINUM, SORGHASTRUM NUTANS, ASCLEPIA SYRIACA, VERBENA HASTATA, EUPATORIUM FISTULOSUM, EUTHAMIA GRAMINIFOLIA, SOLIDAGO JUNCEA, SYMPHYOTRICHUM NOVAE-ANGLIAEA		
NOTE: SEE MIX SHOULD EXCLUDE BOTH CHAMAECRISTA FASCICULATA AND HELIOPSIS HELIANTHOIDES, WHICH ARE BOTH COMMONLY INCLUDED IN THIS COMMERCIAL MIX.		

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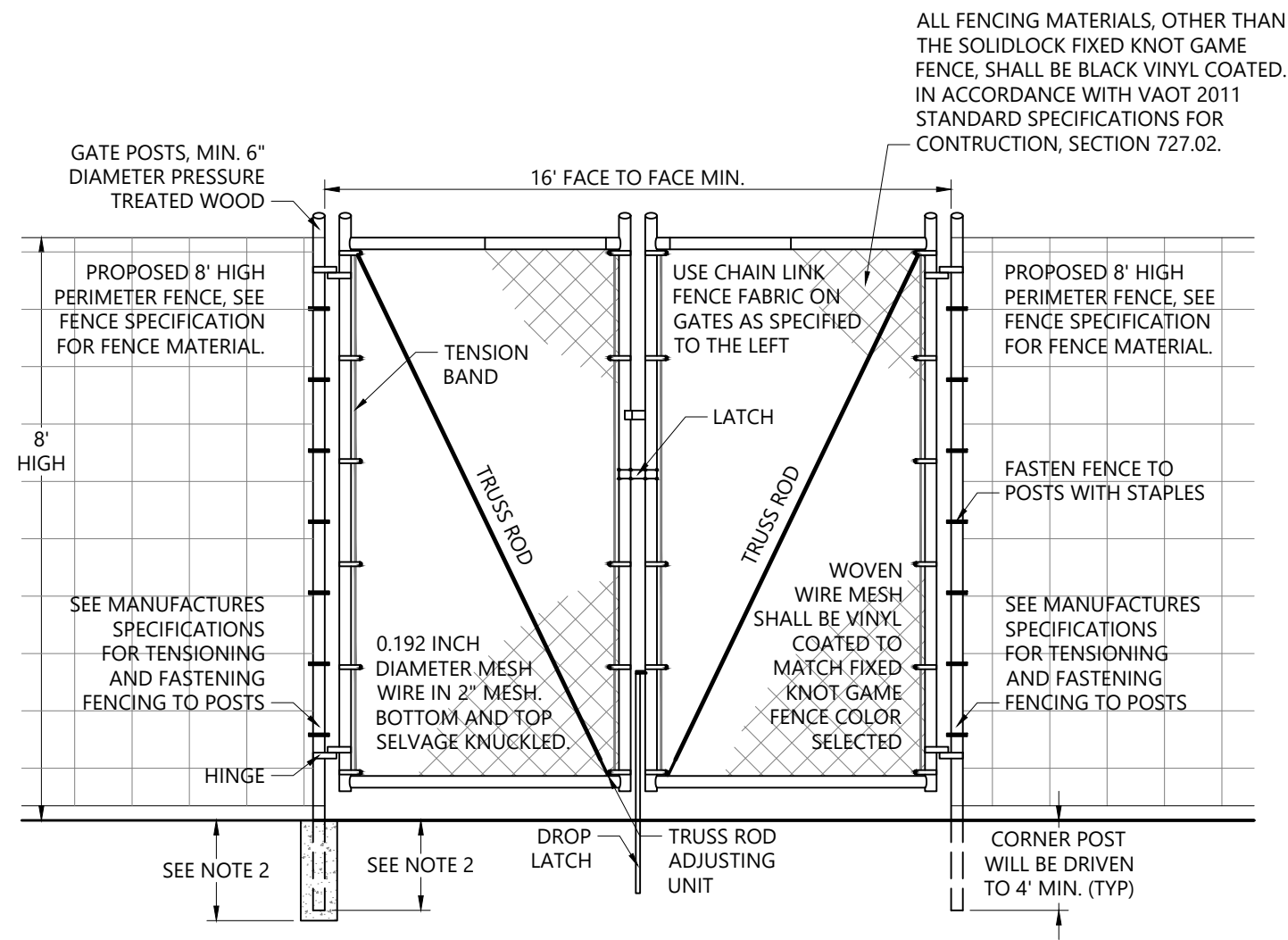
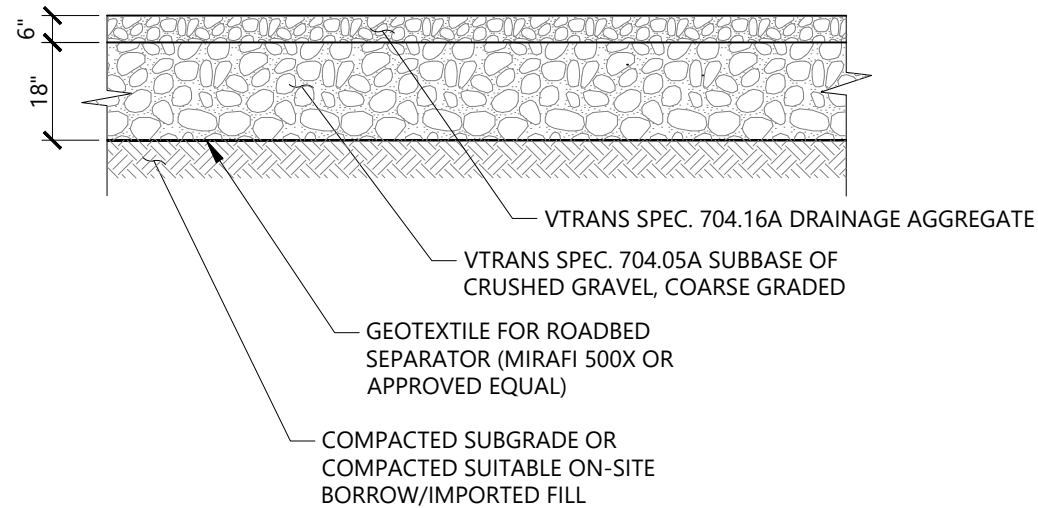
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EPSC Details

Drawing Number

C5.01

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Project Number
58952.13

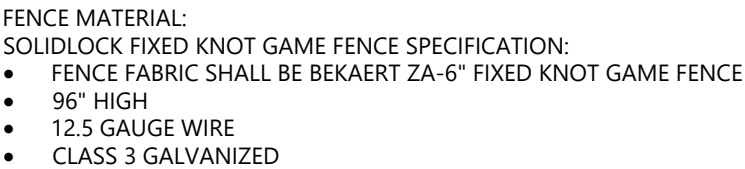


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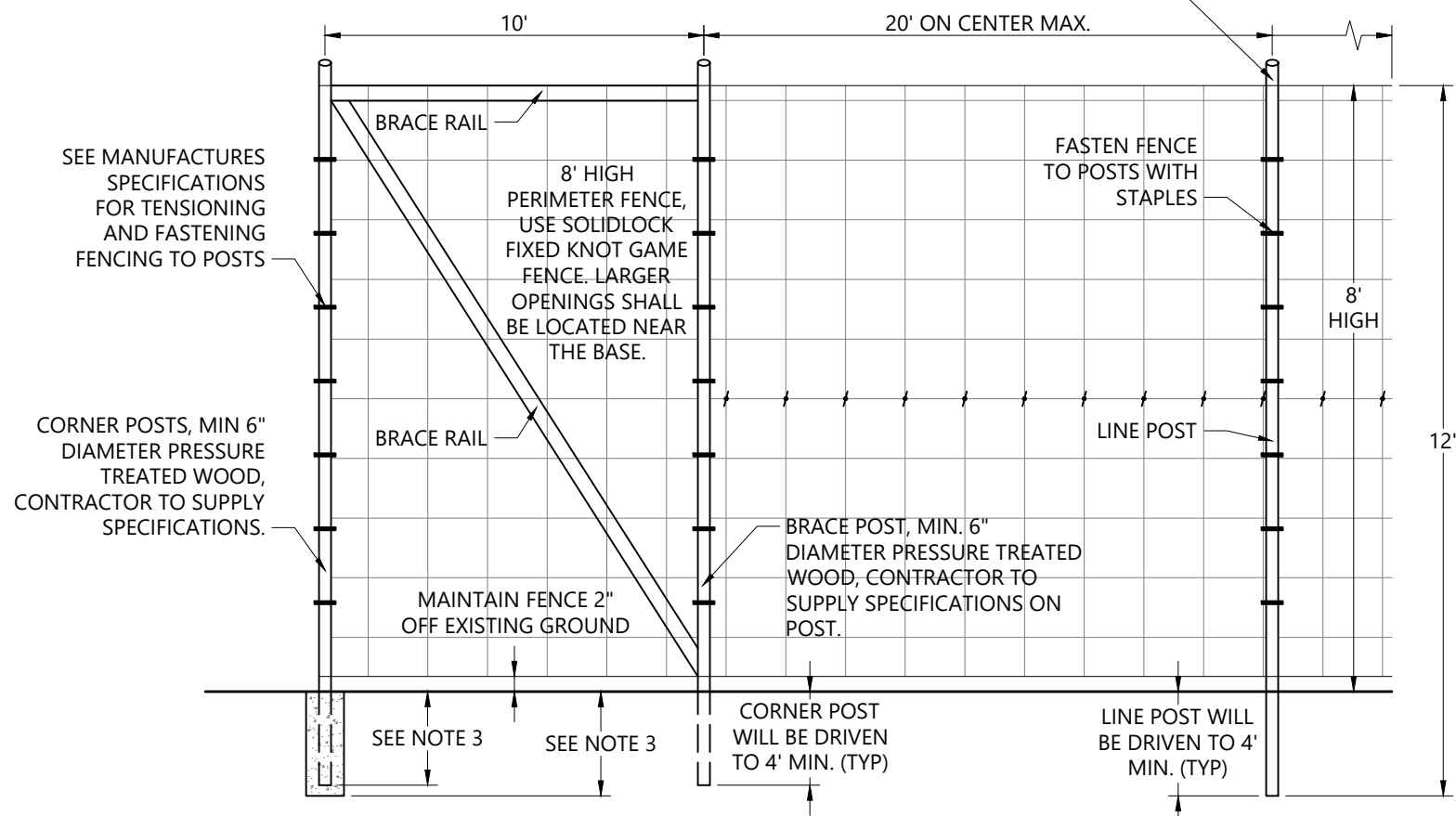
1. PAINT ALL GALVANIZED PIPE AND FITTINGS TO MATCH SOLIDLOCK FIXED KNOT GAME FENCE. PAINT SHALL BE SUITABLE FOR USE ON GALVANIZED SURFACES.
2. CONCRETE EMBEDMENT SHALL ONLY BE USED IN POST WHEN DRIVEN POST EMBEDMENT IS LESS THAN 4' DEPTH

Typical Yard Surface

N.T.S. Source: VHB LD_



INSTALL ALL FENCE COMPONENTS IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS, SEE "FIXED KNOT BRAE SPECIFICATIONS AND INSTALLATION GUIDE" BY BEKAERT.



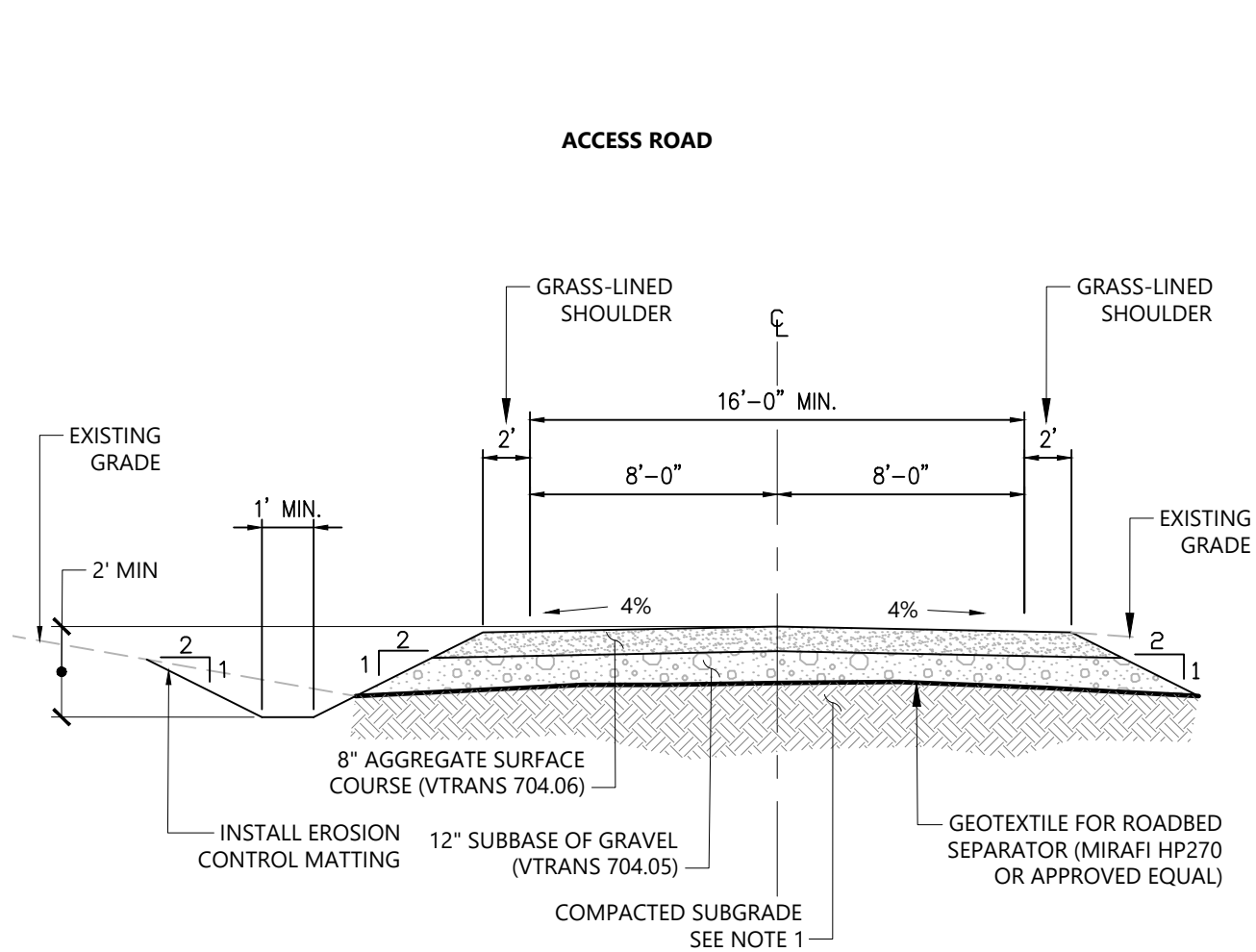
TYPICAL FIXED KNOT GAME FENCE AROUND ARRAY
N.T.S.

NOTES

1. ADDITIONAL BRACING MAY BE REQUIRED ON LONGER FENCE RUNS. CONTRACTOR TO ADD ADDITIONAL BRACING WHEN CONTRACTOR OBSERVES CORNER POST DEFLECTION DURING FENCE TENSIONING/FASTENING.
2. FABRIC TO BE FASTENED TO POSTS WITH STAPLES APPROVED BY THE ENGINEER.
3. CONCRETE EMBEDMENT SHALL ONLY BE USED IN POST WHEN DRIVEN POST EMBEDMENT IS LESS THAN 4' DEPTH.
4. REFER TO ELECTRICAL ENGINEERING DRAWINGS FOR REQUIRED PERIMETER FENCE SIGNAGE.

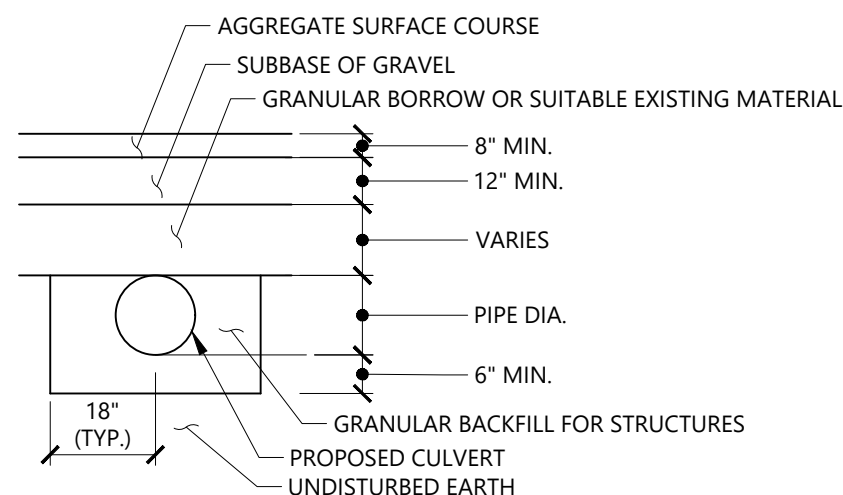
Fixed Knot Game Fence and Gate

N.T.S.	Source: VHB	LD
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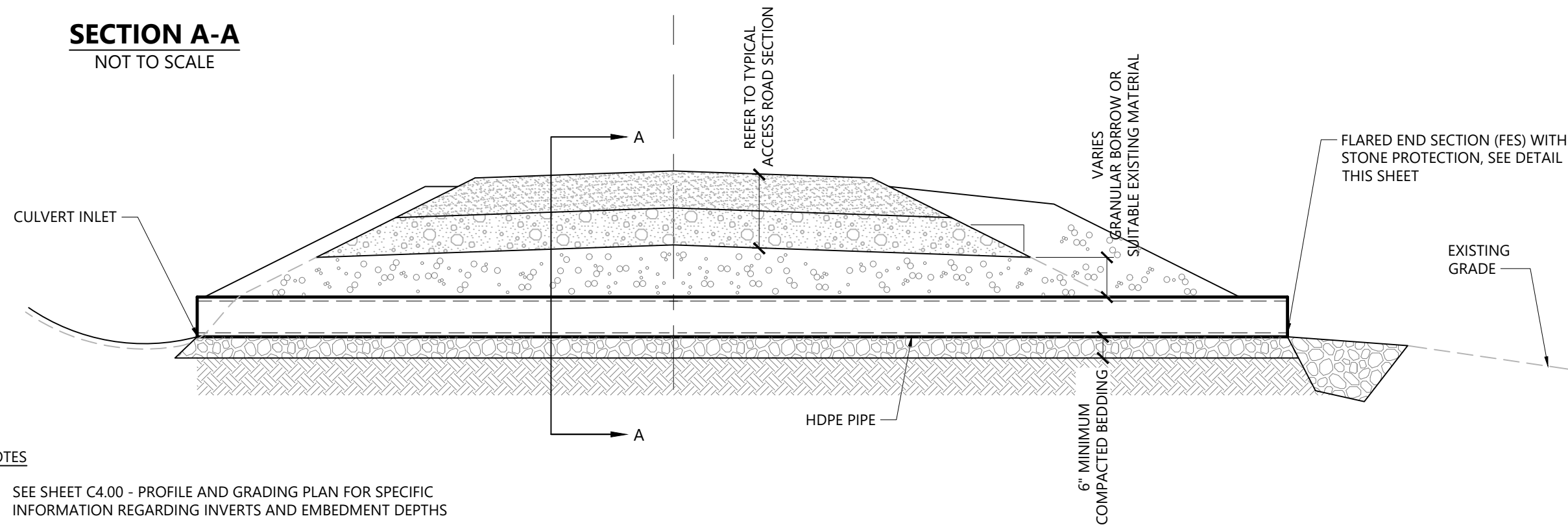


NOTES

1. COMPACTED SUBGRADE SHALL COMPLY WITH THE STANDARDS OUTLINED IN THE EARTHWORK SECTION OF THE GEOTECHNICAL REPORT. ROADWAY SUBGRADES SHOULD BE PROOFROLLED TO AID IN THE IDENTIFICATION OF WEAK OR UNSTABLE AREAS WITHIN THE NEAR SURFACE SOILS. PROOF-ROLLING SHOULD BE PERFORMED WITH AN ADEQUATELY LOADED VEHICLE SUCH AS A FULLY-LOADED TAND-EM-AXLE DUMP TRUCK. THE PROOF-ROLLING SHOULD BE PERFORMED UNDER THE DIRECTION OF THE GEOTECHNICAL ENGINEER. AREAS EXCESSIVELY DEFLECTED UNDER THE PROOFROLL SHOULD BE DELINEATED AND SUBSEQUENTLY ADDRESSED BY THE GEOTECHNICAL ENGINEER.



SECTION A-A
NOT TO SCALE

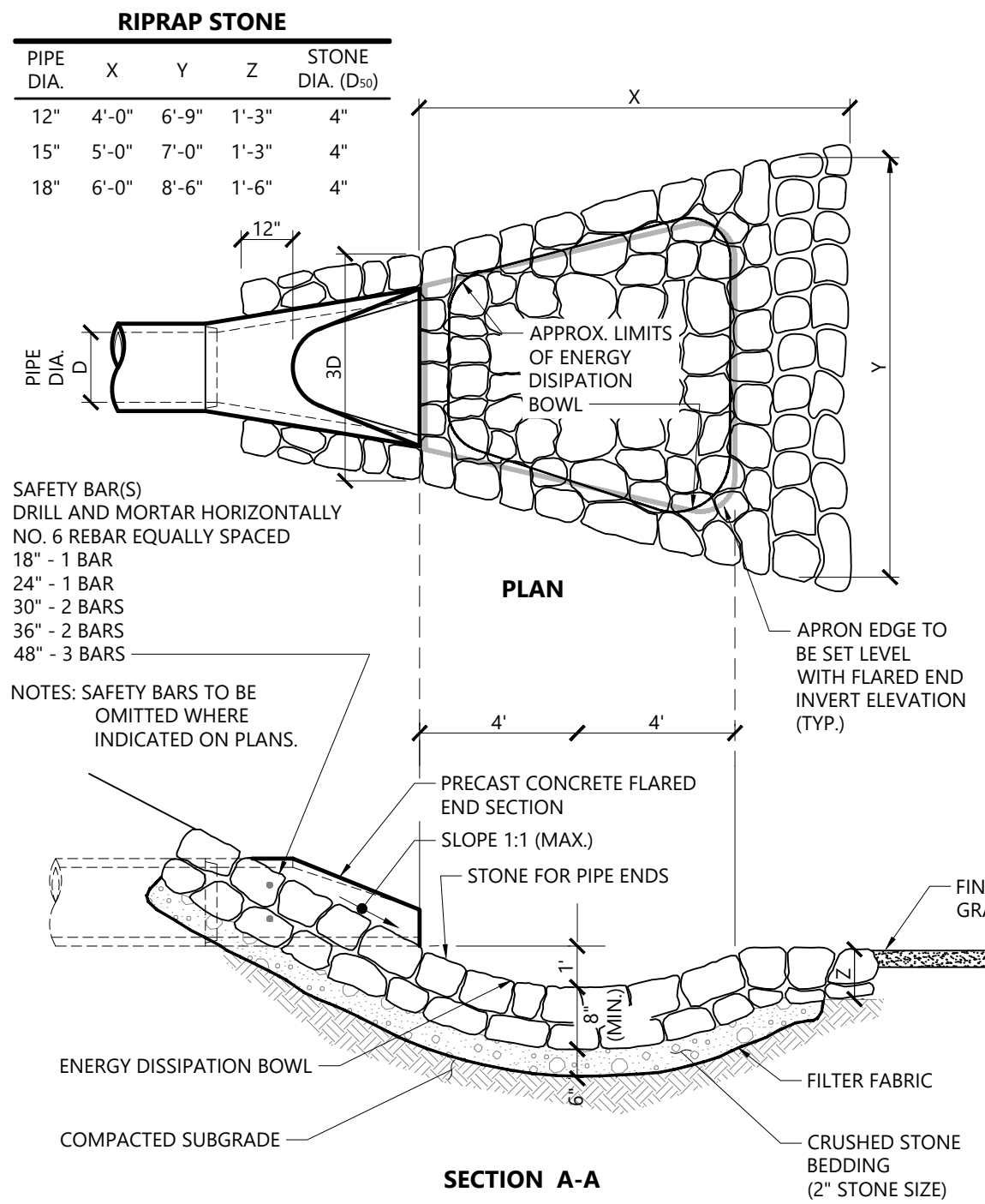


NOTES

1. SEE SHEET C4.00 - PROFILE AND GRADING PLAN FOR SPECIFIC INFORMATION REGARDING INVERTS AND EMBEDMENT DEPTHS

Proposed Access Road Section

N.T.S.	Source: VHB	LD
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Flared End Section (FES) with Stone Protection

N.T.S. Source: VHB REV LD 134

Murphy Road Energy Storage

419 Murphy Road
Bennington, VT

No.	Revision	Date	Apprd.

Designed by NRG	Checked by AGM
Issued for	Date
Review	May 19, 2025

Not Approved For Construction

Site Details

Drawing Number

C5.02

Sheet 8 of 8

Project Number
58952.13