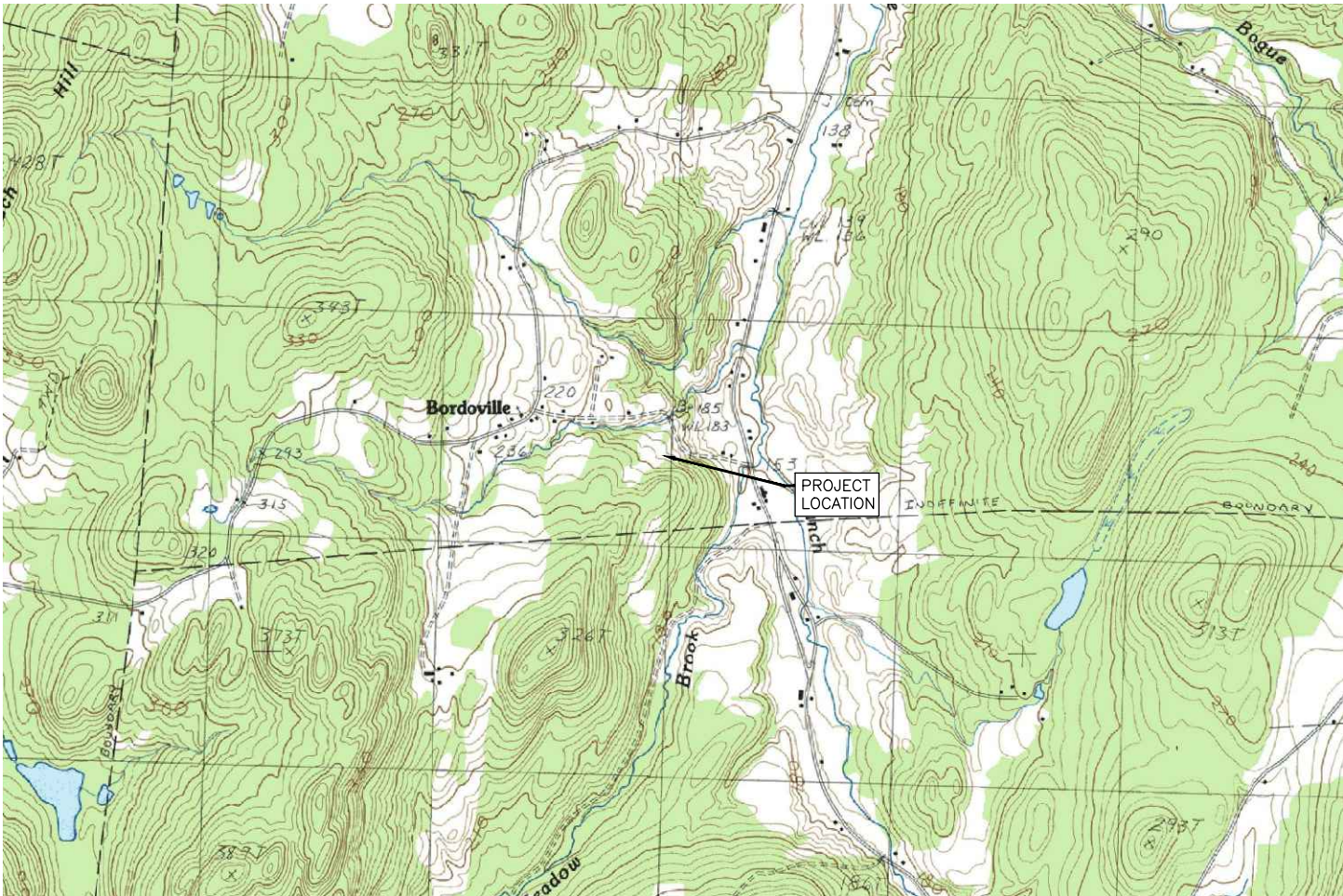




Industrial Tower and Wireless®

ENOSBURGH, VT



T-1 TITLE SHEET

T-1	TITLE SHEET
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C-2	ORTHOPHOTO PLAN
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BOROVILLE ROAD
ENOSBURGH, VT
05450

66100
SHEET TITLE

TITLE SHEET

PERMIT PLANS

DRAWN BY JWP	DATE JAN. 2022
CHECKED BY LJH	D&K PROJECT # 427611L1
PROJ. ENG. LJH	D&K ARCHIVE #

SHEET NUMBER	

T-1

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PROJECT DESCRIPTION:

1. TYPE OF PROJECT: TELECOMMUNICATION FACILITY
2. DESCRIPTION OF MAJOR PROJECT COMPONENTS: UNMANNED 80'x80' TELECOMMUNICATIONS COMPOUND TO BE CONSTRUCTED ON A 506 ACRE FORESTED PARCEL. THE PROPERTY MAINTAINS AN ACTIVE FARM, INCLUDING A FARM SHED AND A SUGARHOUSE. THE COMPOUND LOCATION IS SITED IN AN UNDEVELOPED CLEARING WITHIN THE FORESTED AREA. ACCESS TO THE COMPOUND WILL FOLLOW AN EXISTING TRAIL INTO THE CLEARING TO THE SITE. ACCESS IMPROVEMENTS INCLUDE WIDENING THE EXISTING ACCESS ROUTE AND STABILIZING THE ROAD BED. UNDERGROUND UTILITY SERVICES WILL CONNECT TO THE LAST PROPOSED UTILITY POLE ON BORDOVILLE ROAD. PROPOSED OVERHEAD SERVICE LINE ON BORDOVILLE ROAD WILL CONNECT TO THE LAST EXISTING UTILITY POLE. TREE CLEARING WILL BE MINIMIZED TO THE MINIMUM AREA NECESSARY FOR SITE IMPROVEMENTS AND CONSTRUCTION VEHICLE ACCESS. FOLLOWING CONSTRUCTIONS ALL DISTURBED AREAS OUTSIDE THE ACCESS AND COMPOUND WILL BE SEEDED AND MULCHED AND ALLOWED TO NATURALLY REVEGETATE.
3. POSTED SPEED LIMIT: N/A
4. TOTAL ACREAGE OF TEMPORARY EARTH DISTURBANCE: 28,757 S.F. (0.66 ACRE)

4.1. STORMWATER CONSTRUCTION GENERAL PERMIT REQUIRED: NO
5. TOTAL ACREAGE OF TREE CLEARING: 25,256 S.F. (0.58 ACRE)
6. TOTAL AREA OF PERMANENT EARTH DISTURBANCE: 26,420 S.F. (0.61 ACRE)
7. IMPERVIOUS AREA

7.1. EXISTING = 26,475 S.F. (0.61 ACRE)

7.2. PROPOSED = 6,724 S.F. (0.15 ACRE)

7.3. TOTAL = 33,199 S.F. (0.76 ACRE)

7.4. STORMWATER OPERATIONAL PERMIT REQUIRED: NO
8. SEQUENCE OF MAJOR PROJECT COMPONENTS:

8.1. DEMARCAT E LIMITS OF CONSTRUCTION

8.2. INSTALL CONSTRUCTION ENTRANCE

8.3. TREE CLEARING

8.4. INSTALL EPSC MEASURES

8.5. ESTABLISH ROUGH ACCESS ROAD

8.6. POUR TOWER FOUNDATION

8.7. INSTALL UNDERGROUND ELECTRIC/TELCO & ACCESS ROAD GRADING

8.8. FINISH COMPOUND CONSTRUCTION INCLUDING TOWER ERECTION

8.9. SITE STABILIZATION, SURFACE TREATMENT, RE-SEEDING
9. PROPOSED POLLUTION PREVENTION STRATEGIES: CONTRACTOR TO ENSURE THAT THE SITE REMAINS CLEAN AND ALL DEBRIS AND UNUSED MATERIALS ARE REMOVED AT THE END OF EACH DAY.
10. MAXIMUM CONCURRENT EARTH DISTURBANCE: THE PROJECT WILL BE LIMITED TO ONE ACRE OR LESS OF EARTH DISTURBANCE AT ANY ONE TIME.
11. USE OF VEGETATED BUFFERS: THE PROJECT WILL HAVE STORMWATER DISCHARGES FROM THE CONSTRUCTION SITE TO WETLANDS AND DRAINAGE CHANNELS FROM THE ACCESS ROAD THAT DO NOT FIRST FILTER THROUGH A 50 FT. VEGETATED BUFFER. SILT FENCE WILL BE INSTALLED AT THESE LOCATIONS UNTIL FINAL STABILIZATION IS ESTABLISHED. THE ACCESS ROAD AND COMPOUND WILL BE GRADED TO PROVIDE A MILD CROSS-SLOPE TO DIRECT RUNOFF TO THE UNDISTURBED VEGETATED FOREST ADJACENT TO THE ROAD.
12. NAME OF RECEIVING WATERS: UNNAMED TRIBUTARY TO THE BRANCH
13. NUMBER OF PROPOSED STREAM CROSSINGS: 0

13.1. STREAM ALTERATION PERMIT REQUIRED: NO
14. WETLAND IMPACTS:

14.1. AREA OF WETLANDS IMPACTED BY PROPOSED ACTIVITIES: 0 S.F. (0.00 ACRE)

14.2. AREA OF WETLAND BUFFERS IMPACTED BY ROAD EXPANSION & GRADING LIMITS: 2,996 S.F. (0.07 ACRE)

14.3. AREA OF WETLAND BUFFERS IMPACTED BY EXISTING ROAD SURFACE IMPROVEMENTS: 2,197 S.F. (0.05 ACRE)

14.4. STATE WETLANDS PERMIT REQUIRED: YES

14.5. ARMY CORPS OF ENGINEERS PERMIT REQUIRED: NO
15. RIVER AND STREAM IMPACTS: NONE

15.1. LOCATED IN A FLOOD HAZARD AREA: NO

15.2. LOCATED IN A RIVER CORRIDOR: NO

15.3. LOCATED IN A RIPARIAN BUFFER: YES
16. RARE, THREATENED, OR ENDANGERED SPECIES IMPACTS: NO IDENTIFIED CONCERNS
17. SIGNIFICANT NATURAL COMMUNITY: NO IDENTIFIED CONCERNS
18. WATER SUPPLY SOURCE PROTECTION AREA IMPACTS: NONE
19. NATURAL RESOURCES HABITAT IMPACTS:

19.1. DEER WINTERING AREA: NO IDENTIFIED CONCERNS

19.2. BEAR HABITAT AREA: NO IDENTIFIED CONCERNS

19.3. SONG BIRD HABITAT: NO IDENTIFIED CONCERNS

19.4. BAT HABITAT AREA: NO IDENTIFIED ROOST TREES

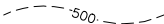
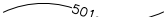
19.5. HABITAT BLOCK: MEDIUM PRIORITY LEVEL 6

19.6. BIOFINDER: ADJACENT TO PRIORITY INTERIOR FOREST BLOCK
20. LOCAL ZONING – TOWN OF ENOSBURGH

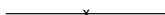
20.1. ZONING DISTRICT: RURAL RESIDENTIAL (RR)

20.2. OVERLAY DISTRICT:
21. PROPERTY LINE INFORMATION PROVIDED BY THE TOWN OF ENOSBURGH TAX MAPS. DUBOIS & KING, INC. DID NOT PERFORM A BOUNDARY SURVEY.
22. TOPOGRAPHIC SURVEY PERFORMED BY DUBOIS & KING, INC. ON NOVEMBER 4, 2021.
23. THE PROJECT WILL COMPLY WITH THE LOW RISK HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL BY THE VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION, 2020 EDITION.
24. ELEVATIONS FROM GPS OBSERVATIONS.
25. WETLANDS DELINEATION AND HABITAT REVIEW PERFORMED BY DUBOIS & KING, INC. ON NOVEMBER 8, 2021.

EXISTING FEATURES LEGEND

-  APPROXIMATE PROPERTY LINE
-  OVERHEAD UTILITY LINE
-  EXISTING TREE LINE
-  DELINEATED STREAM
-  RIPARIAN BUFFER
-  50' WETLAND BUFFER
-  DELINEATED WETLAND
-  MINOR CONTOUR LINE
-  MAJOR CONTOUR LINE
-  UTILITY POLE
-  BENCHMARK
-  DECIDUOUS TREE
-  EVERGREEN TREE

PROPOSED FEATURES LEGEND

-  LIMITS OF DISTURBANCE
-  LIMITS OF CONSTRUCTION
-  ACCESS & UTILITY EASEMENT
-  REINFORCED SILT FENCE
-  PROPOSED TREE LINE
-  UNDERGROUND ELEC & TEL LINE
-  CHAIN LINK FENCE
-  PROPOSED WATER BAR
-  TEMPORARY WATER BAR



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			LJH	LJH	LJH	LJH	LJH	LJH	CK'D
			JWP	JWP	JWP	JWP	JWP	JWP	BY
			RIPARIAN BUFFER NOTES PER ANR REDUCED TOWER HEIGHT TO 120' A.G.L. REVISED WETLAND BUFFER IMPACT REVISED PER ITW COMMENTS REVISED PER ITW COMMENTS ISSUED FOR PERMITTING						DESCRIPTION
			3-16-26	5 11-13-25	4 6-07-22	3 5-10-22	2 2-23-22	1 1-05-22	DATE
			6	5	4	3	2	1	NO.



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SHEET TITLE

GENERAL
NOTES

PERMIT PLANS

DRAWN BY JWP	DATE JAN. 2022
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PROJ. ENG. LJH	D&K ARCHIVE #

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C-1



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6	3-16-26	RIPARIAN BUFFER NOTES PER ANR	JWP	LJH
5	11-13-25	REDUCED TOWER HEIGHT TO 120' A.G.L.	JWP	LJH
4	6-07-22	REVISED WETLAND BUFFER IMPACT	JWP	LJH
3	5-10-22	REVISED PER ITW COMMENTS	JWP	LJH
2	2-23-22	REVISED PER ITW COMMENTS	JWP	LJH
1	1-05-22	ISSUED FOR PERMITTING	JWP	LJH
NO.	DATE	DESCRIPTION	BY	CK'D



**ITW
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SHEET TITLE

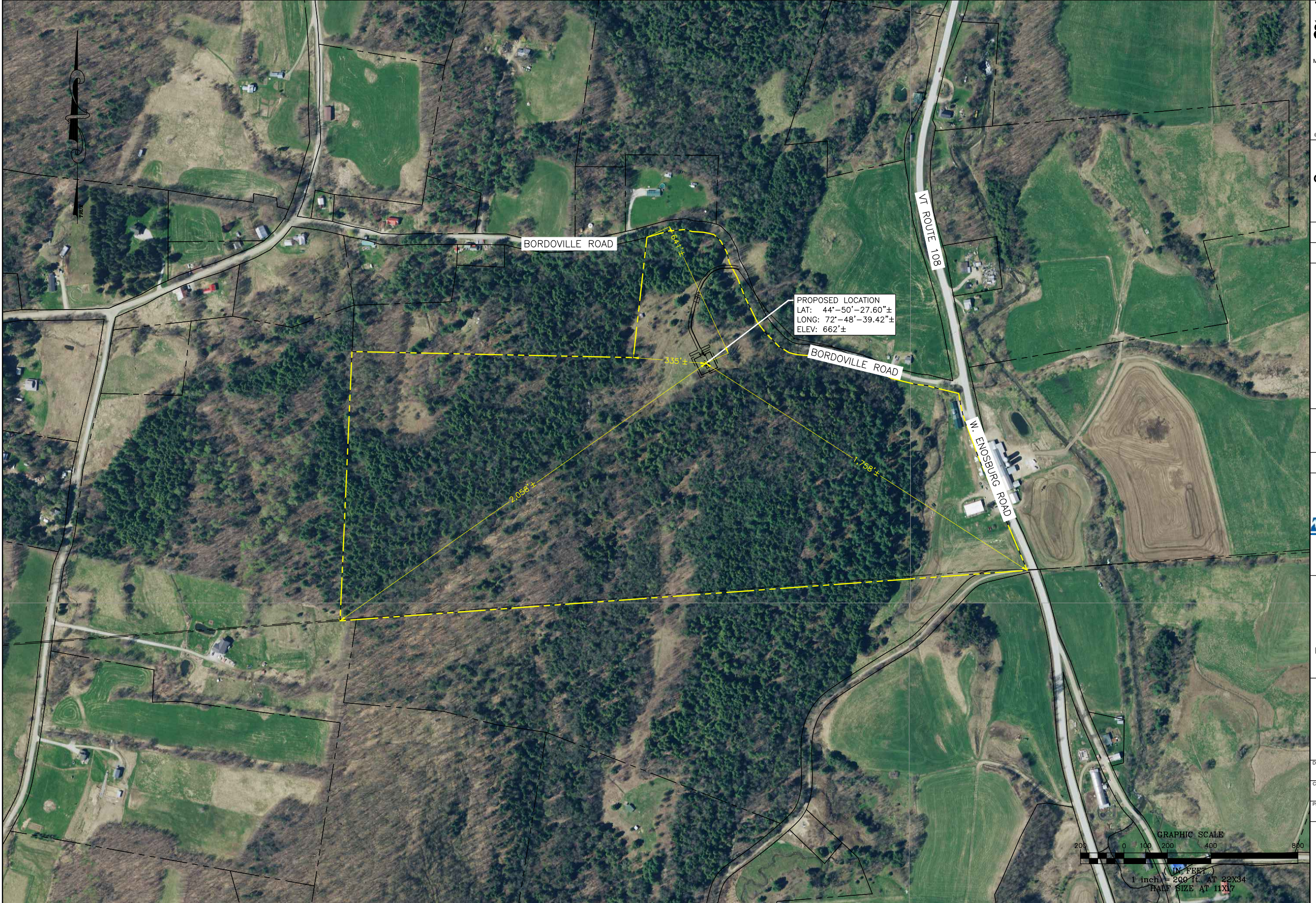
ORTHOPHOTO
PLAN

PERMIT PLANS

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PROJ. ENG. LJH	D&K ARCHIVE #

SHEET NUMBER

C-2



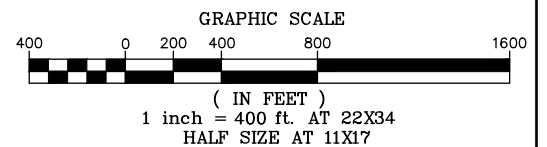


LAND OWNER
PARCEL #: WE4756-
N/F MATTHEW HULL
4014 W. ENOSBURG ROAD
ENOSBURG FALLS, VT 05450

PROPOSED LOCATION
LAT: 44°-50'-27.60"±
LONG: 72°-48'-39.42"±
ELEV: 662'±

ABUTTER LIST:

- P. PARCEL #: CA7961—
N/F NANCY MURPHIE
7961 CHESTER ARTHUR ROAD
ENOSBURG FALLS, VT 05450
 - Q. PARCEL #: J0030A.
N/F CHESTER & BRENDA HALL
215 JONES ROAD
ENOSBURG FALLS, VT 05450
 - B. PARCEL #: CA8059—
N/F LYNN McMORROW
8059 CHESTER ARTHUR ROAD
ENOSBURG FALLS, VT 05450
 - R. PARCEL #: CA6880—
N/F ARTHUR & JAYE LUNDBORG
55 JONES ROAD
ENOSBURG FALLS, VT 05450
 - C. PARCEL #: CA8129—
N/F BRIAN & SABRINA CORLISS
8129 CHESTER ARTHUR ROAD
ENOSBURG FALLS, VT 05450
 - S. PARCEL #: BV0537—
N/F VICTOR & DEBRA TIRRITO
70 GAIL STREET
WINOOSKI, VT 05404
 - D. PARCEL #: CA8264—
N/F MAURICE & PIERRETTE PARENT
4001 EAST SHELTON ROAD
ENOSBURG FALLS, VT 05450
 - T. PARCEL #: BV0394—
N/F PHILIPPA DORFMANN
394 BORDOVILLE ROAD
ENOSBURG FALLS, VT 05450
 - E. PARCEL #: WE3895—
N/F CAITLIN SHAW
3895 W. ENOSBURG ROAD
ENOSBURG FALLS, VT 05450
 - U. PARCEL #: BV0352—
N/F WILLIAM & GLORIA HUGHES
352 BORDOVILLE ROAD
ENOSBURG FALLS, VT 05450
 - F. PARCEL #:
N/F
 - V. PARCEL #: BV0494—
N/F CYRUS HOUSE
& TARA LOMBARDI
494 BORDOVILLE ROAD
ENOSBURG FALLS, VT 05450
 - G. PARCEL #: WE4072—
N/F MARIE HULL
4072 W. ENOSBURG ROAD
ENOSBURG FALLS, VT 05450
 - W. PARCEL #:
N/F
 - H. PARCEL #: WE4232—
N/F ERIC & DANIELLE HULL
4232 W. ENOSBURG ROAD
ENOSBURG FALLS, VT 05450
 - X. PARCEL #:
N/F
 - I. PARCEL #: WE4382—
N/F NANCY BUZZELL
4382 W. ENOSBURG ROAD
ENOSBURG FALLS, VT 05450
 - Y. PARCEL #: CA7984—
N/F COURTNEY BENNETT
7984 CHESTER ARTHUR ROAD
ENOSBURG FALLS, VT 05450
 - J. PARCEL #: WE4569—
N/F SHERWOOD & MONA JEAN SMITH
4569 W. ENOSBURG ROAD
ENOSBURG FALLS, VT 05450
 - K. PARCEL #: WE4543—
N/F ELROY & LINDA HUNT
P.O. BOX 328
ENOSBURG FALLS, VT 05450
 - L. PARCEL #: OOV001.
N/F DUANE OVITT
249 OVITT ROAD
ENOSBURG FALLS, VT 05450
 - M. PARCEL #: OOV001.
N/F DUANE OVITT
249 OVITT ROAD
ENOSBURG FALLS, VT 05450
 - N. PARCEL #: OCY110.
N/F KRISTEN SLADE
2326 VT ROUTE 109
WATERVILLE, VT 05492
 - O. PARCEL #: OCY130.
N/F DUANE & ANDREW OVITT
249 OVITT ROAD
ENOSBURG FALLS, VT 05450
 - P. PARCEL #: OCY111.
N/F MICHAEL & HOLLY RIVERS
27 O'BRIEN DRIVE
SOUTH BURLINGTON, VT 05403



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SHEET TITLE

ABUTTER
PLAN

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DRAWN BY JWP	DATE JAN. 2022
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SHEET TITLE

OVERHEAD
UTILITY LINE
EXTENSION

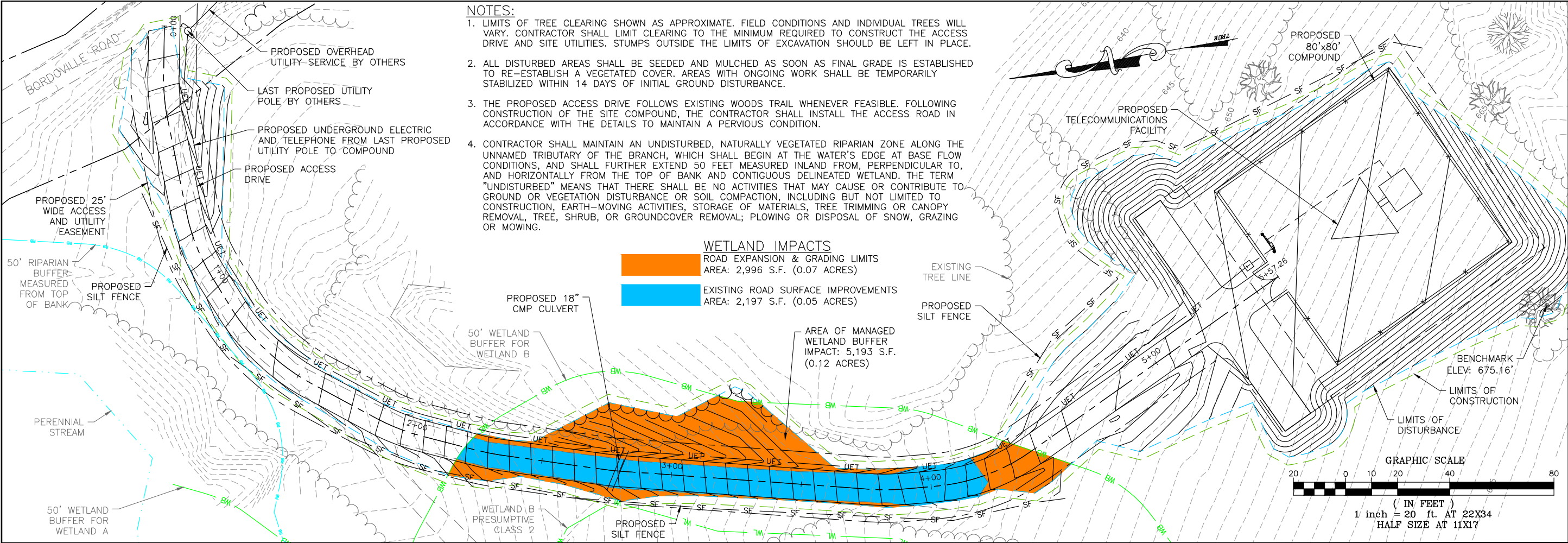
PERMIT PLANS

DRAWN BY JWP	DATE JAN. 2022
CHECKED BY LJH	D&K PROJECT # 427611L1
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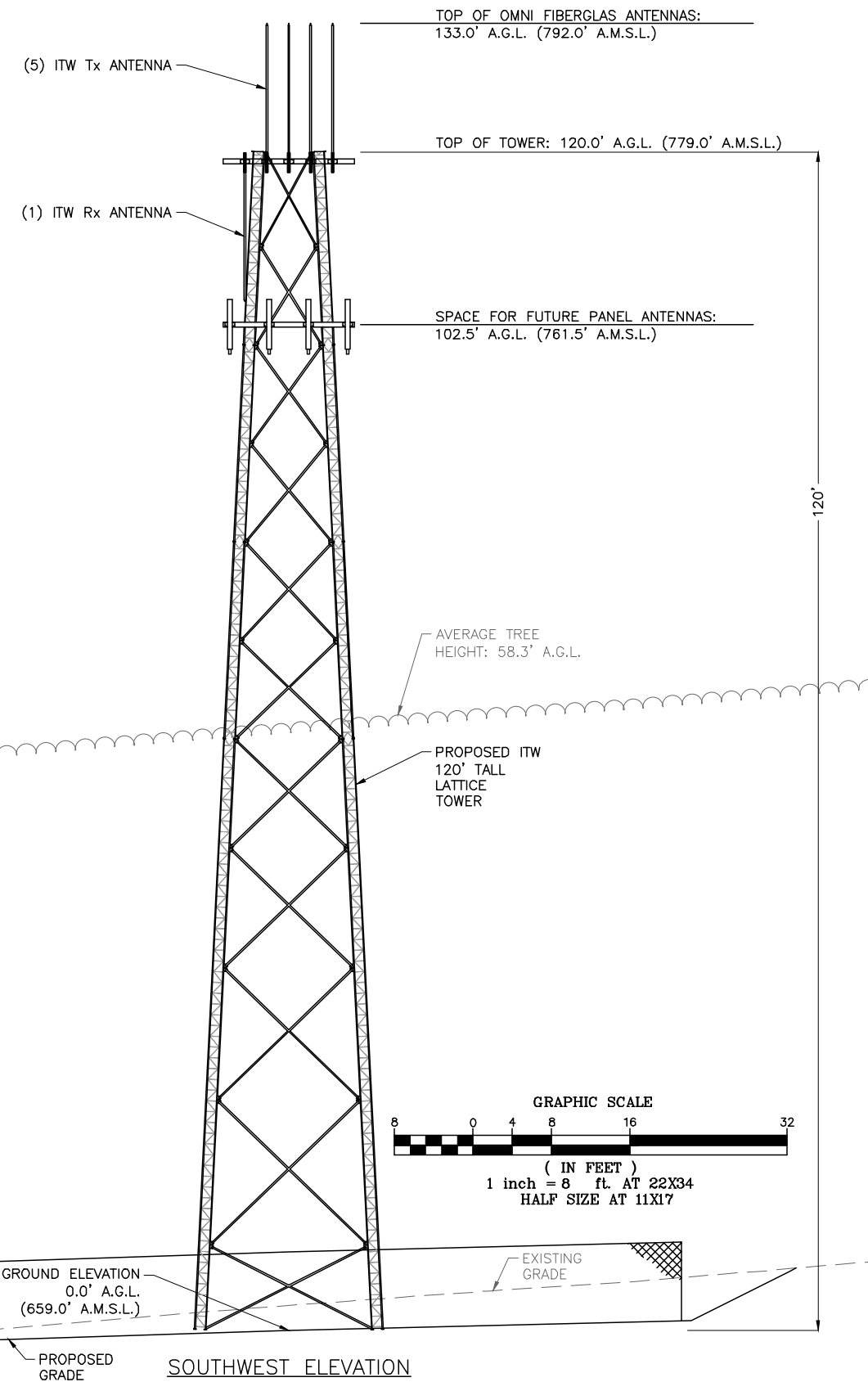
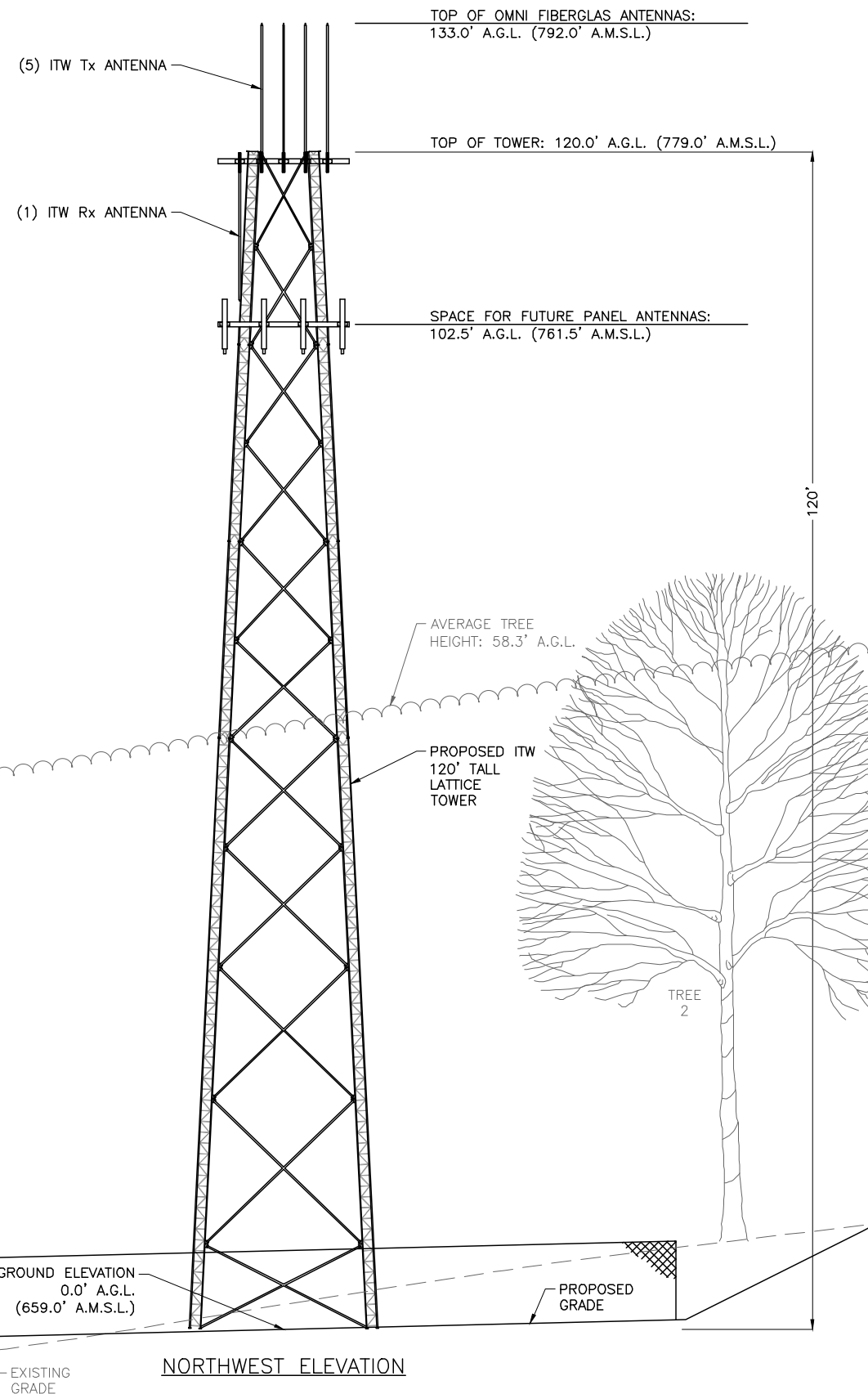
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PLANS

	LJH	LJH	LJH	LJH	LJH	LJH	CK'D
	JWP	JWP	JWP	JWP	JWP	JWP	BY
	RIPARIAN BUFFER NOTES PER ANR REDUCED TOWER HEIGHT TO 120' A.G.L. REVISED WETLAND BUFFER IMPACT REVISED PER ITW COMMENTS REVISED PER ITW COMMENTS ISSUED FOR PERMITTING						DESCRIPTION
	6	3-16-26	DATE				
	5	11-13-25					
	4	6-07-22					
	3	5-10-22					
	2	2-23-22					
	1	1-05-22					
	NO.						

Station	Proposed Grade (ft)	Existing Grade (ft)
0+00	607.94	607.94
0+10	610.1	610.06
0+20	612.2	612.19
0+30	614.3	614.30
0+40	616.2	616.19
0+50	618.0	618.04
1+00	618.7	618.74
1+50	620.6	620.60
2+00	623.1	623.09
2+50	626.2	626.20
3+00	632.5	632.46
3+50	635.1	635.05
4+00	638.0	637.98
4+50	640.9	640.89
5+00	643.7	643.73
5+50	646.7	646.65
5+60	649.8	649.78
5+70	652.0	651.99
5+80	653.4	653.37
5+90	654.1	654.12
6+00	655.9	655.93
6+10	657.8	657.82
6+20	658.27	658.27

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NO.	DATE	DESCRIPTION	BY	CK'D
1	1-05-22	ISSUED FOR PERMITTING	JWP	LJH
2	2-23-22	REVISED PER TW COMMENTS	JWP	LJH
3	5-10-22	REVISED PER TW COMMENTS	JWP	LJH
4	6-07-22	REVISED WETLAND BUFFER IMPACT	JWP	LJH
5	11-13-25	REDUCED TOWER HEIGHT TO 120' A.G.L.	JWP	LJH
6	3-16-26	RIPIARIAN BUFFER NOTES PER ANR	JWP	LJH



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SHEET TITLE	
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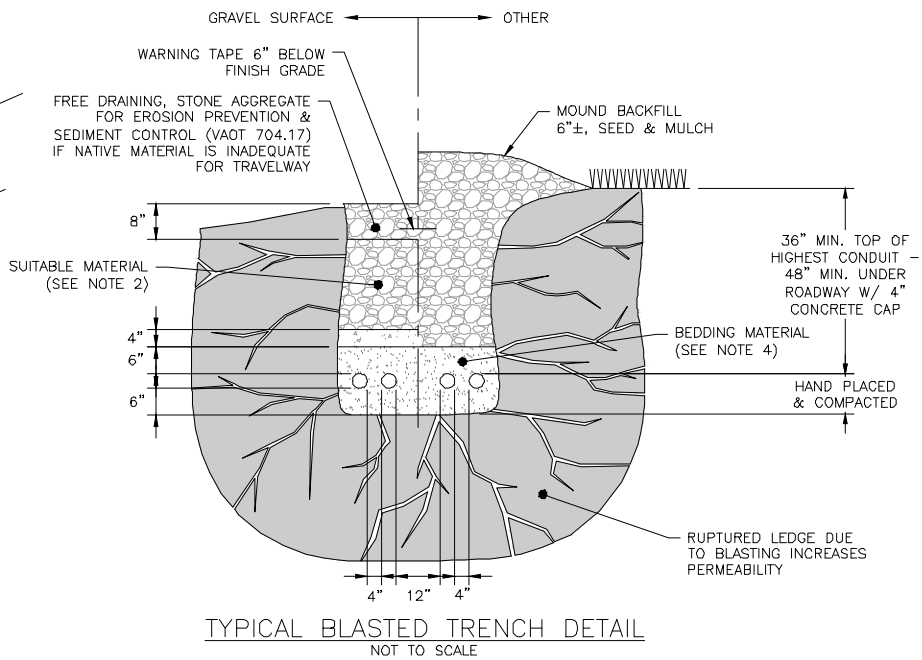
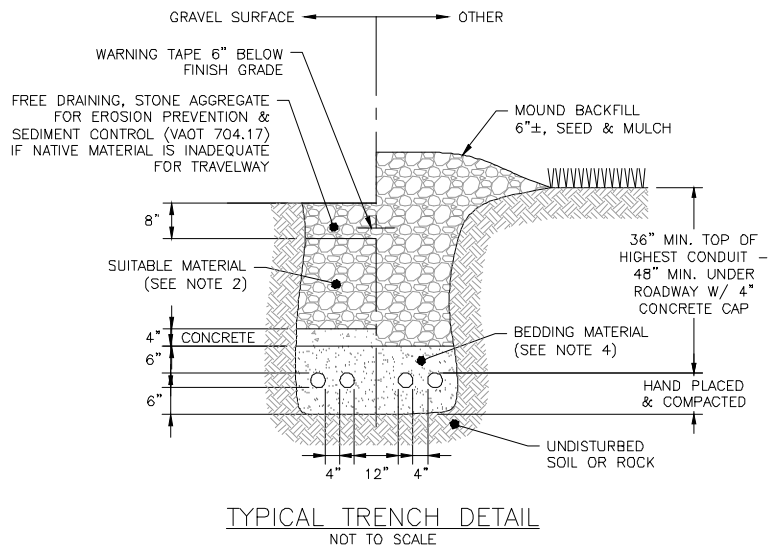
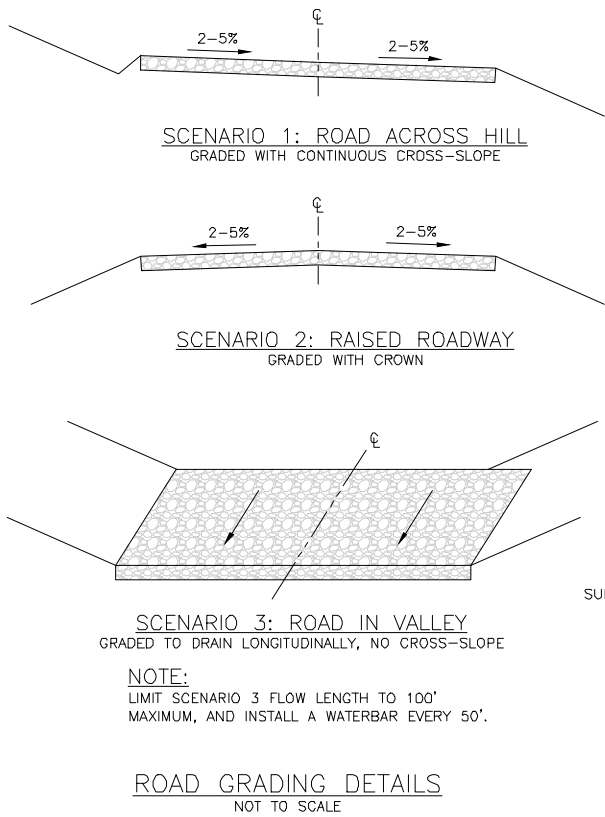
TOWER
ELEVATIONS

PERMIT PLANS

DRAWN BY JWP	DATE JAN. 2022
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PROJ. ENG. LJH	D&K ARCHIVE #

SHEET NUMBER	
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C-8



TRENCH NOTES:

1. WHERE BACKFILL IS DESIGNATED "COMPACTED", THIS MEANS 90% TO 95% STANDARD PROCTOR, AASHTO T-99. ALL LIFT PLACED BELOW PIPES MUST MEET THIS REQUIREMENT.
2. SUITABLE MATERIAL SHALL CONTAIN NO STONES GREATER THAN 4" IN DIAMETER, NO FROZEN LUMPS, AND ONLY MINOR AMOUNTS OF CLAY OR ORGANIC MATERIAL. ALL MATERIAL TO BE PLACED IN MAXIMUM OF 12" LIFTS AND COMPACTED TO THE SAME LEVEL AS SURROUNDING EXISTING SUBGRADE BEFORE PLACING NEXT LIFT.
3. SEE ELECTRICAL PLANS FOR QUANTITY OF CONDUITS.
4. BEDDING MATERIAL MAY BE CRUSHED STONE, SAND, OR NATIVE MATERIAL FREE FROM ORGANICS AND STONES LARGE ENOUGH TO DAMAGE THE PIPE.

ACCESS ROAD NOTES:

- ACCESS TO FOLLOW EXISTING PATHS WHENEVER FEASIBLE.
3. TREE CLEARING SHALL BE LIMITED TO THE MINIMUM REQUIRED TO PERMIT CONSTRUCTION VEHICLE ACCESS. SEE PLAN FOR CLEARING LIMITS. STUMPS OUTSIDE THE ACCESS, UTILITY TRENCH, OR FILL LIMITS SHALL BE LEFT IN PLACE.
4. CONSTRUCTION STANDARDS SHALL MEET OR EXCEED THOSE OUTLINED IN "THE ACCEPTABLE MANAGEMENT PRACTICES FOR MAINTAINING WATER QUALITY ON LOGGING JOBS IN VERMONT" HANDBOOK.
5. UTILITY TRENCH LOCATION SHOWN AS TYPICAL. REFER TO SITE PLAN FOR UTILITY PLACEMENT.
6. STABILIZE ALL EXPOSED SOILS IN CONFORMANCE WITH THE LOW RISK HANDBOOK OR STORMWATER CONSTRUCTION GENERAL PERMIT. AT A MINIMUM ALL SOILS SHALL BE STABILIZED WITHIN 14 DAYS.
7. CONTRACTOR TO FOLLOW STATE OF VERMONT LOW RISK HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL. SEE EPSC LOW RISK HANDBOOK.
8. REMOVE UNSUITABLE SUBGRADE MATERIAL AND REPLACE WITH CRUSHED STONE AGGREGATE OR NATIVE MATERIAL AND SLOPE TO PROVIDE STABLE WORKING SURFACE.
9. CUT/FILL SLOPES TO BE RE-SEEDED AND STABILIZED WITH MULCH, EROSION CONTROL MATTING, STONE RIPRAP, AND/OR WOOD CHIPS ONCE FINAL GRADE HAS BEEN ESTABLISHED.
10. ACCESS ROAD TO BE GRADED WITH A MINIMUM OF 2% CROSS-SLOPE.
11. RE-VEGETATED SLOPES EXCEEDING 3H:1V UPON RESTORATION TO BE MATTED WITH JUTE MAT EROSION CONTROL BLANKETS, NORTH AMERICAN GREEN S150BN, OR APPROVED EQUIVALENT.
12. INSTALL EROSION CONTROLS IN ACCORDANCE WITH THE SITE PLANS AND PROJECT PERMITS. ADDITIONAL EROSION CONTROLS MAY BE REQUIRED AS DIRECTED BY THE PROJECT ENVIRONMENTAL COMPLIANCE INSPECTOR OR THE ON-SITE PLAN COORDINATOR.
13. INSTALL PERMANENT WATER BARS IN ACCORDANCE WITH TYPICAL DETAIL.
14. MINIMALLY COMPACT EXISTING SUBGRADE MATERIAL AS NECESSARY TO CREATE A STABLE WORKING SURFACE FOR CONSTRUCTION ACCESS, WITHOUT OVER-COMPACTING AND CREATING AN IMPERVIOUS SURFACE. FOLLOWING HEAVY CONSTRUCTION TRAFFIC, TILL OR BACK BLADE THE ACCESS ROAD SUBGRADE PRIOR TO SURFACE COURSE PLACEMENT TO PROMOTE INFILTRATION.

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05450

SHEET TITLE

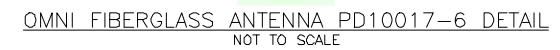
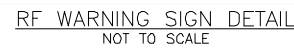
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PERMIT PLANS

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OMNI FIBERGLASS ISOMETRIC VIEW
NOT TO SCALE

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**Industrial
Tower and Wireless**

BOROVILLE ROAD
ENOSBURGH, VT
05450

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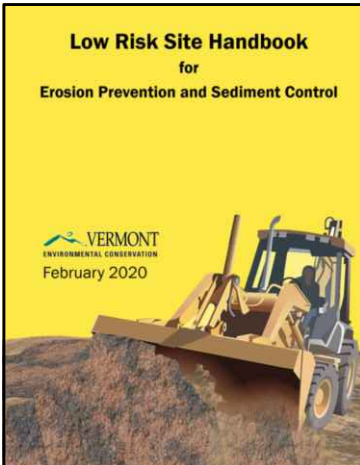
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Low Risk Site Handbook for Erosion Prevention and Sediment Control 	Low Risk Site Handbook for Erosion Prevention and Sediment Control A construction stormwater discharge permit must be obtained for construction activity that results in total land disturbance of equal to or greater than 1 acre, including construction activities where disturbance is less than 1 acre, but is part of a larger common plan of development, if the larger development will ultimately result in the disturbance of 1 or more acres. Vermont Construction General Permit (CGP) 3-9020 guides an applicant in assessing the potential risk to water quality from the proposed construction activity and categorizes the project activity as Low Risk, Moderate Risk, or that which requires an Individual Permit. The practices in this handbook serve as the required Erosion Prevention and Sediment Control Plan for construction activity that is determined to be "Low Risk" under CGP 3-9020. Table of Contents Section 1: Introduction What is erosion prevention and sediment control? . . . 1	Section 2: The Requirements 1. Demarcate Limits of Disturbance 3 2. Pollution Prevention 5 3. Limit Concurrent Earth Disturbance 7 4. Site Stabilization 9 5. Stabilize Construction Access 14 6. Divert Upland Runoff 17 7. Install Perimeter Controls 21 8. Storm Inlet Protection 33 9. Water Bars 37 10. Slow Down Channelized Runoff 39 11. Slope Stabilization 45 12. Winter Construction Requirements 49 13. Dewatering Activities 55 14. Concrete Washout 57 15. Permanent Controls 59 16. Inspection, Maintenance, and Discharge Reporting 61 Section 3: Additional Resources How to calculate slope 63 How to estimate area 63 Section 1 Introduction What is erosion prevention and sediment control? Stormwater runoff carrying sediment into streams, lakes, and wetlands is a large contributor to surface water quality problems in Vermont. Sediment discharges from unmanaged construction sites can adversely impact aquatic habitat, and may have lasting impacts on fish and other aquatic organisms. On most construction sites, the existing vegetation that holds the soil in place and protects it from the erosive forces of rain and runoff is removed, leaving large areas of soil exposed. During rainfall or snowmelt, the exposed soil may be easily eroded and transported to nearby streams, lakes, or wetlands*.  1 Introduction 2 Section 2 The Requirements 1. Demarcate Limits of Disturbance Purpose: Delineating the site will help to: limit the area of disturbance to only what is necessary for construction, prevent unauthorized disturbance, preserve existing vegetation, and limit erosion potential on the site. Requirement: You must physically mark the limits of construction activity using one of the methods described below.  3 How to comply: Before initiating any earth disturbing activities, install a perimeter fence, orange barrier tape, or flagging on stakes or trees to physically demarcate the approved limits of earth disturbance.  Properly placed barrier tape marks the boundaries and limits of construction on this site.  Demarcate Limits of Disturbance 4 2. Pollution Prevention Purpose: Many construction sites require storage of chemicals and materials that have detrimental effects if released into our waterways. A storage plan for these potential pollution sources as well as a spill prevention and clean up plan are required to mitigate these risks. Requirement: Design, install, implement, and maintain effective pollution prevention measures to minimize the discharge of pollutants. At a minimum, such measures must be designed, installed, implemented and maintained in accordance with the following requirements. 5 DuBois & King Inc. ENGINEERING • PLANNING • MANAGEMENT • DEVELOPMENT 6 GREEN TREE DRIVE SO. BURLINGTON, VT 05403 TEL: (802) 878-7661 FAX: (866) 783-7101 www.dubois-king.com RANDOLPH, VT SPRINGFIELD, VT BRANDON, VT BEDFORD, NH LACONIA, NH © Copyright 2025 Dubois & King Inc. PROFESSIONAL SEAL NOT FOR CONSTRUCTION PRELIMINARY PLANS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
How to comply: 1. Minimize the exposure of the following to precipitation and to stormwater: • building materials, • building products, • construction wastes, • trash, • landscape materials, • fertilizers, • pesticides, • herbicides, • detergents, • sanitary waste, and • other materials present on the site. 2. Minimization of exposure is not required in cases where the exposure to precipitation and to stormwater will not result in a discharge of pollutants, or where exposure of a specific material or product poses little risk of stormwater contamination (such as final products and materials intended for outdoor use).	3. Limit Concurrent Earth Disturbance Purpose: Limit the amount of soil exposed at one time to reduce the potential erosion on the construction site. Requirement: The maximum area of concurrent earth disturbance is specified on the site's written authorization to discharge. Earth disturbance at any one time cannot exceed the maximum concurrent disturbance identified in the authorization. Areas that are at final stabilization or that have been temporarily stabilized in accordance with Section 4 of this handbook, are not counted toward the maximum concurrent disturbance area.	How to comply: Plan ahead and phase the construction activities to ensure that no more than the permitted maximum concurrent acreage is disturbed and unstabilized at one time. Be sure to properly stabilize exposed soil using one of the methods introduced in Section 4 of this handbook before beginning work in a new section of the site.  Limit Concurrent Earth Disturbance 8	4. Site Stabilization Purpose: Seeding and mulching, applying erosion control matting, and hydroseeding are all methods to temporarily stabilize exposed soil and prevent soil erosion prior to vegetative growth. Mulches and matting protect the soil surface while grass is establishing. Areas of earth disturbance may also be stabilized with stone, such as rip-rap or gravel, or other impervious surfaces such as pavement and concrete. Requirements for Temporary Stabilization: All areas of earth disturbance must have temporary or final stabilization within 14 days of initial disturbance, as stated in the project authorization. After this time, disturbed areas must be temporarily stabilized or permanently stabilized in advance of any runoff producing event. A runoff producing event is an event that produces runoff from the construction site. The following exception applies: • Temporary stabilization is not required if the work is occurring in a self-contained excavation (i.e. no outlet) with a depth of 2 feet or greater (e.g. house foundation excavation, utility trenches), provided any dewatering, if necessary, is conducted in accordance with Part 13.	How to comply: As required by the authorization, temporary stabilization for areas of earth disturbance shall be completed utilizing one or more of the methods below: Hay or Straw Mulch Mulching Rates April 16 - Oct. 14 – Hay or Straw*: 1 inch deep (1-2 bales/1000 s.f.) Oct. 15 - April 15 – Hay or Straw*: 2 inch deep (2-4 bales/1000 s.f.) *seed may also be incorporated  Excellent application of hay mulch. Good mulch cover and perimeter control around soil stockpile. Site Stabilization 10	Wood Chip Mulch or Stump Grindings Cover entire area with 2-7 inches or more of wood chip mulch or stump grindings.  Good application of wood chip mulch and stump grindings. 11	Hydroseed As per manufacturer's instructions. • Must include mulch component • Not acceptable stabilization for winter construction period  Excellent application of hydroseed with a mulch component. Entire soil surface has been covered and is temporarily stabilized.  Poor hydroseed application. Not applied at the appropriate rate, soil not prepared, and very little mulch component in mix. Site Stabilization 12	Requirements for Dust Control: Construction roads, access points, and other disturbed areas subject to surface dust movement and dust blowing during dry periods where off-site damage may occur if dust is not controlled shall be sprayed with water to prevent dust mobilization. Chemical applications, including the use of chloride, shall not be applied without written approval from the VT DEC. Requirements for Final Stabilization: All areas of disturbance must have permanent stabilization within 48 hours of reaching final grade. • Bring the site or sections of the site to final grade as soon as possible after construction is completed. This will reduce the need for additional sediment and erosion control measures and will reduce the total disturbed area. • Prepare bare soil for seeding by grading the top 4 to 6 inches of soil and removing any large rocks or debris, and apply seed per suppliers specifications. 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HANDBOOK

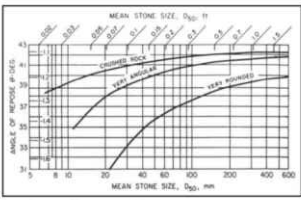
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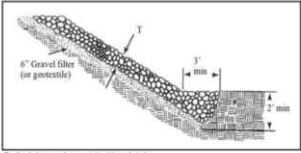
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Angle of repose of riprap stones (FHBA)



Typical riprap slope protection detail

Slope Stabilization

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Rolled Erosion Control Product:

A preformed protective blanket of straw or other plant residue, formed into a mat, with a supporting mesh framework on one or both sides. This mesh cannot be made of a material with welded joints.



Install blankets and mats vertically on long slopes. Unroll from top of hill and staple as you unroll it. Do not stretch blankets.

Erosion Control Matting:

Install per manufacturer's instructions.



Excellent stabilization of large slopes to limit the area of disturbance. Make sure to install erosion control matting within 48 hours of grading to ensure good contact between soil and mat.

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IMPORTANT NOTE:

Rolled Erosion Control Product (RECP) materials have the potential to ensnare animals such as snakes and birds, which can lead to injury or fatality. This has been observed to be most problematic in products with a plastic mesh, whether biodegradable or not.



Accordingly, only woven and interlinked products are approved for use in RECP applications.

(See Tables 4.3 and 4.4 of the Vermont Standards & Specifications for Erosion Prevention and Sediment Control)

Slope Stabilization

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12. Winter Construction Requirements October 15 - April 15

Purpose:

'Winter construction' as discussed here, describes the period from October 15 through April 15, when erosion prevention and sediment control is significantly more difficult. There are specific requirements for sites that conduct earth disturbance during the defined Winter Construction Period and for sites where disturbed areas have not reached final stabilization by October 15.

Rains in late fall, thaws throughout the winter, and spring melt and rains can produce significant flows over frozen and saturated ground, greatly increasing the potential for erosion. A construction site can be managed to anticipate these conditions to prevent erosion and thus minimize the risk to water quality during this time period.

Requirements for Winter Shutdown:

For projects or areas of a site that will have completed earth disturbance activities prior to the winter construction period (October 15 through April 15), the following requirements must be adhered to:

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- For areas to be stabilized for the winter through the establishment of vegetation, seeding and mulching shall be completed no later than September 15 to ensure adequate growth and cover before the start of the winter period.



Stabilization and seeding of slopes before winter will reduce or eliminate erosion in the spring.

Winter Stabilization

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- If seeding is not completed by September 15, additional non-vegetative protection must be used to stabilize the site for the winter period. Areas of disturbance not seeded and mulched by September 15 are required to temporarily stabilize by one of the following methods:

- Implement Rolled Erosion Control Products (i.e. matting) over the areas of earth disturbance.
- Apply a 2" mulch layer to areas of earth disturbance, equivalent to double the standard rate. Mulch should be tracked in open areas vulnerable to wind.
- Seeding with winter rye is recommended to allow for early germination during wet spring conditions.

Requirements for Winter Construction

If construction activities involving earth disturbance continue into the winter construction period, the following requirements apply:

- Enlarged access points, stabilized to provide for snow stockpiling.
- Snow shall be managed with adequate storage and control of meltwater, requiring cleared snow to be stored down slope of all areas of disturbance and out of stormwater treatment structures.

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Winter Stabilization

- For areas of disturbance within 100 ft of a waterbody, the following must be installed across the slope, down gradient of the earth disturbance:

- a combination of one practice from group A placed in front of a practice from group B, or
- two group B practices, or
- a single row of Reinforced Silt Fence

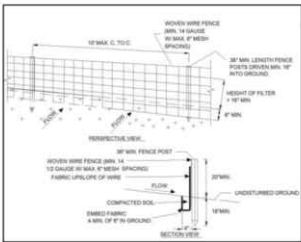
Group A	Group B
Filter Socks	Silt Fence
Straw Wattles	Erosion Control Berms



Use of a combination of silt fence and filter sock in place of reinforced silt fence for winter construction perimeter control requirements in proximity to a water resource area.

Winter Stabilization

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- Drainage structures must be kept open and free of snow and ice dams.
- Silt fence and other practices requiring earth disturbance must be installed ahead of frozen ground.
- Mulch used for temporary stabilization must be applied at a minimum of 2 inches with an 80-90% cover.

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- To ensure cover of disturbed soil in advance of a precipitation or melt event, areas of disturbed soil must be stabilized prior to any runoff producing event.
 - Stabilization is not required if the work is occurring in a self-contained excavation (i.e. no outlet) with a depth of 2 feet or greater (e.g. house foundation excavation, utility trenches), provided any dewatering, if necessary, is conducted in accordance with Part 13.

- Prior to stabilization, snow or ice must be removed to the extent practicable.

- Use stone to stabilize areas such as the perimeter of buildings under construction or where construction vehicle traffic is anticipated. Stone paths should be sufficient width to accommodate vehicle or equipment traffic.

Winter Stabilization

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13. Dewatering Activities

Purpose:

To minimize and prevent discharges of sediment as a result of dewatering activities.

Requirements:

Stormwater and groundwater from dewatering activities shall be uncontaminated and shall be filtered or passed through a sediment trapping device, or both, and routed in a manner that does not result in visually turbid discharges to waters. Pump intake for dewatering must be at or near the surface of the ponding area to prevent disturbance of the settled material. Visually turbid water must not be pumped directly to storm drains or other conveyance that leads to waters without implementing one or more of the practices described below.

How to comply:

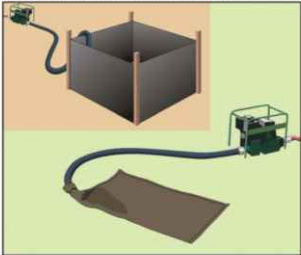
Implement one or more of the following practices when dewatering:

- Implement sock filters or sediment filter bags on dewatering pump discharge hoses or pipes.
- Route dewatering pump into silt fence enclosures or into staked hay bale enclosures lined with fabric.

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- Route dewatering pump to vegetated area at least 50 feet from surface waters and at a slope no greater than 5%.

Remove accumulated sediment after the water has dispersed or infiltrated and stabilize the area with seed and mulch as necessary. A sufficient area of vegetation greatly improves the efficacy of filtering/settling of turbid water discharged from a dewatering enclosure.



Water is pumped from the construction site into a silt fence enclosure on a vegetated area or into a sock filter away from waterways.

Dewatering Activities

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14. Concrete Washout

Purpose:

Concrete wash water often contains a slurry of heavy metals, can be caustic, and has a high pH. As a result, concrete washwater is not a permitted discharge.

Requirements:

Concrete washwater and excess washout concrete should go in a lined washout. This washout should be accessible to the cement truck and at least 50 feet away from stormwater inlets and surface water.

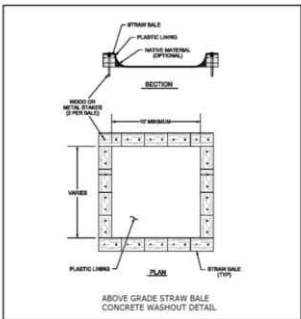
Concrete Washout Installation:

If cement washout is going to occur on site, a lined concrete washout as shown below shall be used onsite. Care should be given to assure that the washout does not overtop during a storm event. Proprietary lined and contained concrete washout basins may also be utilized in accordance with manufacturer's specifications.

Concrete Washout Maintenance:

Concrete washout shall be pumped to a concrete truck as necessary, for disposal or reuse at a batch plant. Washout may also be allowed to evaporate/harden for disposal in accordance with all applicable local, state, and federal regulations.

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Concrete Washout

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15. Permanent Controls

Permanent stormwater treatment practices are constructed to maintain water quality, preserve existing water table elevations, prevent downstream flooding, and are often required for a project under a Vermont operational stormwater discharge permit applicable to the construction or redevelopment of impervious surfaces.*

Permanent Stormwater Treatment Practices (STPs) include infiltration and filtering practices as well as detention ponds and treatment wetlands. **It is critical that infiltration practices do not receive runoff until the site area has reached final stabilization.**

The outlet of permanent controls that are used as temporary storage and sediment basins during construction constitutes a potential discharge point and therefore must be managed to minimize and prevent sediment laden stormwater discharges. These practices will often need to be reshaped to meet the operational design criteria for volumes, grades and geometry once final grading and stabilization has occurred.

*An impervious surface is a manmade surface, including, but not limited to, paved and unpaved roads, parking areas, roofs, driveways, and walkways, from which precipitation runs off rather than infiltrates.

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Infiltrating stormwater practices such as this bioretention system should be kept offline until the drainage area has been fully stabilized.



Install all permanent stormwater treatment practices before constructing any impervious surfaces on site. This stormwater wetland treats stormwater runoff from the adjacent parking lot.

Permanent Controls

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16. Inspection, Maintenance, and Discharge Reporting

Site inspections are required to ensure that all erosion prevention and sediment control practices are sufficient and functioning properly. Regular inspections and maintenance of practices will help to reduce costly repairs and minimize the risk to water quality from construction stormwater discharges.

Requirements:

Inspect the site at least once every 7 days and after every rainfall or snowmelt that results in stormwater runoff. Perform maintenance to ensure that practices are functioning according to the specifications outlined in this handbook.

In the event of a visibly turbid discharge from the construction site, you must take immediate action to inspect and maintain existing erosion prevention and sediment control practices. Additional erosion prevention and sediment control measures must be installed as necessary, including temporary stabilization, to minimize and prevent the discharge of sediment laden stormwater runoff.

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If after maintaining and supplementing BMPs, a discharge of visibly discolored stormwater from the construction site to surface waters continues, the permittee is required to notify DEC within 24 hours.

While documentation of a routine inspection is not required, example inspection forms and forms for required discharge reporting are available at the Stormwater Program website. Permittees shall review Construction General Permit 3-9020 for all discharge reporting requirements.

- A copy of the Low Risk Site Handbook shall be kept on-site.
- Daily inspections are required from October 15 through April 15.

Inspection, Maintenance, and Reporting

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Section 3 Additional Resources

How to calculate slope:



Steepness	Percent	Slope ratio (ft./ft.)	Degrees
Very steep	100%	1:1	45°
	50%	2:1	27°
Moderate	33%	3:1	18°
	25%	4:1	14°
	10%	10:1	6°
Slight	5%	20:1	3°

How to estimate disturbance area:

1 acre = 43,560 square feet = 4,840 square yards

Area in acres		(width in feet x length in feet)									
(ft) x (ft)		100	150	200	300	400	500				
100	0.2	0.3	0.5	0.7	0.9	1.1					
150	0.3	0.5	0.7	1.0	1.4	1.7					
200	0.5	0.7	0.9	1.4	1.8	2.3					
300	0.7	1.0	1.4	2.1	2.8	3.4					
400	0.9	1.4	1.8	2.8	3.7	4.6					
500	1.1	1.7	2.3	3.4	4.6	5.7					

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Acknowledgements

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PLANS**

		LJH	LJH	LJH	LJH	LJH	LJH	LJH	CK'D
		JWP	JWP	JWP	JWP	JWP	JWP	JWP	BY

		RIPARIAN BUFFER NOTES PER ANR	REDUCED TOWER HEIGHT TO 120' A.G.L.	REVISED WETLAND BUFFER IMPACT	REVISED PER ITW COMMENTS	REVISED PER ITW COMMENTS	ISSUED FOR PERMITTING	DESCRIPTION
		3-16-26	11-13-25	6-07-22	5-10-22	2-23-22	1-05-22	
		6	5	4	3	2	1	

		NO.	DATE

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SHEET TITLE

EPSC
LOW RISK
HANDBOOK

PERMIT PLANS

DRAWN BY	DATE
JWP	JAN. 2022
CHECKED BY	D&K PROJECT #
LJH	427611L1
PROJ. ENG.	D&K ARCHIVE #
LJH	

SHEET NUMBER

C-14