VT-VT-0111A

ROCHESTER

1030 VT ROUTE 100
ROCHESTER, VT 05767
WINDSOR COUNTY

GENERAL NOTES

1. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK. THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES.

2. THE ARCHITECT/ENGINEER HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. THE CONTRACTOR BIDDING THE JOB IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.

3. THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE LESEE/LICENSEE REPRESENTATIVE OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK. IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED IN WRITING OTHERWISE.

4. THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR AND ALL OTHER MATERIALS AND LABOR DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED HEREIN.

5. THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE SUBMISSION OF BIDS OR PERFORMING WORK TO FAMILIARIZE HIMSELF WITH THE FIELD CONDITIONS AND TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

6. THE CONTRACTOR SHALL OBTAIN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS / CONTRACT DOCUMENTS.

7. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S / VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.

8. THE CONTRACTOR SHALL PROVIDE A FULL SET OF CONSTRUCTION DOCUMENTS AT THE SITE UPDATED WITH THE LATEST REVISIONS AND ADDENDUMS OR CLARIFICATIONS AVAILABLE FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.

9. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY CONSTRUCTION CONTROL SURVEYS, ESTABLISHING AND MAINTAINING ALL LINES AND GRADES REQUIRED TO CONSTRUCT ALL IMPROVEMENTS AS SHOWN HEREIN.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY.

12. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, ETCETERA DURING CONSTRUCTION. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.

13. THE CONTRACTOR SHALL KEEP THE GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.

14. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.

15. THE CONTRACTOR SHALL NOTIFY THE LESSEE/LICENSEE REPRESENTATIVE WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DOCUMENTS. THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONFLICT UNTIL CONFLICT IS RESOLVED BY THE LESSEE/LICENSEE REPRESENTATIVE.

16. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.

17. ALL UNDERGROUND UTILITY INFORMATION WAS DETERMINED FROM SURFACE INVESTIGATIONS AND EXISTING PLANS OF RECORD. THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO ANY SITE WORK. CALL THE FOLLOWING FOR ALL PRE-CONSTRUCTION NOTIFICATION 72-HOURS PRIOR TO ANY EXCAVATION ACTIVITY: DIG SAFE SYSTEM (MA, ME, NH, RI, VT): 1-888-344-7233 CALL BEFORE YOU DIG (CT): 1-800-922-4455

18. ALL DIMENSIONS SHOWN THUS ± ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS WHICH EFFECT THE CONTRACTORS WORK. CONTRACTOR TO VERIFY ALL DIMENSIONS WITH PROJECT OWNER PRIOR TO CONSTRUCTION.

19. NORTH ARROW SHOWN ON PLANS REFERS TO APPROXIMATE TRUE NORTH. PRIOR TO THE START OF CONSTRUCTION, ORDERING OR FABRICATING OF ANTENNA MOUNTS, CONTRACTOR SHALL CONSULT WITH PROJECT OWNER'S RF ENGINEER AND FIELD VERIFY ALL ANTENNA SECTOR LOCATIONS AND ANTENNA AZIMUTHS.

20. THE CONTRACTOR AND OR HIS SUB CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY.

21. ANTENNA INSTALLATION SHALL BE CONDUCTED BY FIELD CREWS EXPERIENCED IN THE ASSEMBLY AND ERECTION OF RADIO ANTENNAS, TRANSMISSION LINES AND SUPPORT STRUCTURES.

22. COAXIAL CABLE CONNECTORS AND TRANSMITTER EQUIPMENT SHALL BE PROVIDED BY THE PROJECT OWNER AND IS NOT INCLUDED IN THESE CONSTRUCTION DOCUMENTS. A SCHEDULE OF PROJECT OWNER SUPPLIED MATERIALS IS ATTACHED TO THE BID DOCUMENTS (SEE EXHIBIT 3). ALL OTHER HARDWARE TO BE PROVIDED BY THE CONTRACTOR. CONNECTION HARDWARE SHALL BE STAINLESS STEEL.

23. WHEN "PAINT TO MATCH" IS SPECIFIED FOR ANTENNA CONCEALMENT, PAINT PRODUCT FOR ANTENNA RADOME SHALL BE SHERWIN WILLIAMS COROTHANE II. SURFACE PREPARATION AND APPLICATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND PROJECT OWNER'S GUIDELINES.

24. COORDINATION, LAYOUT, AND FURNISHING OF CONDUIT, CABLE AND ALL APPURTENANCES REQUIRED FOR PROPER INSTALLATION OF ELECTRICAL AND TELECOMMUNICATION SERVICE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

25. ALL UTILITY WORK SHALL BE IN ACCORDANCE WITH LOCAL UTILITY COMPANY REQUIREMENTS AND SPECIFICATIONS.

26. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR PIER DRILLING AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW.

27. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF UTILITY COMPANY ENGINEERING. THE AREAS OF THE PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE EQUIPMENT, DRIVEWAY OR LEASE AREA SHALL BE RESTORED TO ORIGINAL CONDITION.

28. GRAVEL, SHALL BE GRADED TO A UNIFORM SLOPE, FERTILIZED, SEEDED AND COVERED WITH MULCH UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN SOIL EROSION AND SEDIMENTATION CONTROLS AT ALL TIMES.

29. DURING CONSTRUCTION, PER FCC MANDATE, ENHANCED EMERGENCY (E911) SERVICE IS REQUIRED TO MEET NATIONWIDE STANDARDS.

30. FOR WIRELESS COMMUNICATIONS SYSTEMS. PROJECT OWNER'S IMPLEMENTATION REQUIRES DEPLOYMENT OF EQUIPMENT AND ANTENNAS GENERALLY DEPICTED ON THIS PLAN, ATTACHED TO OR MOUNTED IN CLOSE PROXIMITY TO THE BTS RADIO CABINETS. PROJECT OWNER RESERVES THE RIGHT TO MAKE REASONABLE MODIFICATIONS TO E911 EQUIPMENT AND LOCATION AS TECHNOLOGY EVOLVES TO MEET REQUIRED SPECIFICATIONS.

31. SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:

AMERICAN CONCRETE INSTITUTE (ACI) 318; BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE;

AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)

MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION;

TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-H, STRUCTURAL STANDARDS FOR STEEL

ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES; REFER TO ELECTRICAL DRAWINGS FOR SPECIFIC ELECTRICAL STANDARDS.

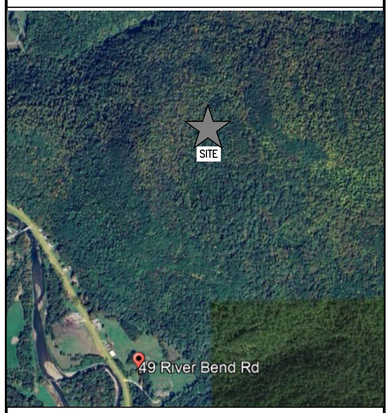
FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

APPLICABLE BUILDING CODES:
SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

BUILDING CODE:

2015 INTERNATIONAL BUILDING CODE
2015 VERMONT FIRE & SAFETY CODE
NFPA 780 2014
LOCAL CODE AS REQUIRED

VICINITY MAP



NORTH

VICINITY MAP

SCALE: NTS

SHEET INDEX

SHT. NO.	DESCRIPTION	REV. NO.
T-1	TITLE SHEET	1
C-1	VICINTY PLAN	1
C-2	EXISTING CONDTION SITE PLAN	1
Z-1.1	PROPOSED SITE PLAN	1
Z-1.2	PROPOSED SITE PLAN	1
Z-2.1	PROPOSED GRADING PLAN SECTION 1	1
Z-2.2	PROPOSED GRADING PLAN SECTION 2	1
Z-2.3	PROPOSED GRADING PLAN SECTION 3	1
Z-2.4	PROPOSED GRADING PLAN SECTION 4	1
Z-2.5	PROPOSED GRADING PLAN SECTION 5	1
Z-2.6	PROPOSED GRADING PLAN SECTION 6	1
Z-2.7	PROPOSED GRADING PLAN SECTION 7	1
Z-2.8	PROPOSED GRADING PLAN SECTION 8	1
Z-2.9	PROPOSED GRADING PLAN SECTION 9	1
Z-3	PROPOSED COMPOUND PLAN	1
Z-4	PROPOSED COMPOUND ELEVATIONS	1
Z-5	EROSTION CONTROL AND DETAILS	1
Z-6	DETAILS	1
Z-7	SITE HANDBOOK	1
Z-8	SITE HANDBOOK	1
Z-9	SITE HANDBOOK	1

PROJECT SUMMARY

SITE NUMBER:	VT-VT-0111A
SITE NAME:	ROCHESTER
SITE ADDRESS:	1030 VT ROUTE 100 ROCHESTER, VT 05767
ASSESSOR'S PARCEL NO.:	000RS245B
CONSTRUCTION TYPE:	NEW SITE DESIGN
PROPERTY OWNER:	JULIA W & CHARLES W MARTIN 49 RIVER BEND RD ROCHESTER, VT, 05767
APPLICANT, LESSEE/LICENSEE, PROJECT OWNER:	VERTEX TOWERS LLC 2 COMMERCIAL STREET SHARON, MA 02067
TOWER TYPE:	SELF SUPPORT TOWER
TOWER HEIGHT:	176'±

DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE PROJECT OWNER'S REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

Vertex Towers LLC
VERTEX TOWERS LLC
2 COMMERCIAL STREET
SHARON, MA 02067

AEG ADVANCED ENGINEERING GROUP, P.C.
Civil Engineering - Site Development
Surveying - Telecommunications
500 North Broadway
East Providence, RI 02914
Tel: (401) 354-2403
Fax: (401) 633-6354

AEG PROJECT #: 2023-0079

DRAWN BY: JWH

CHECKED BY: SNA

SUBMITTALS

REV#	DATE	DESCRIPTION
0	03/04/24	DRAFT
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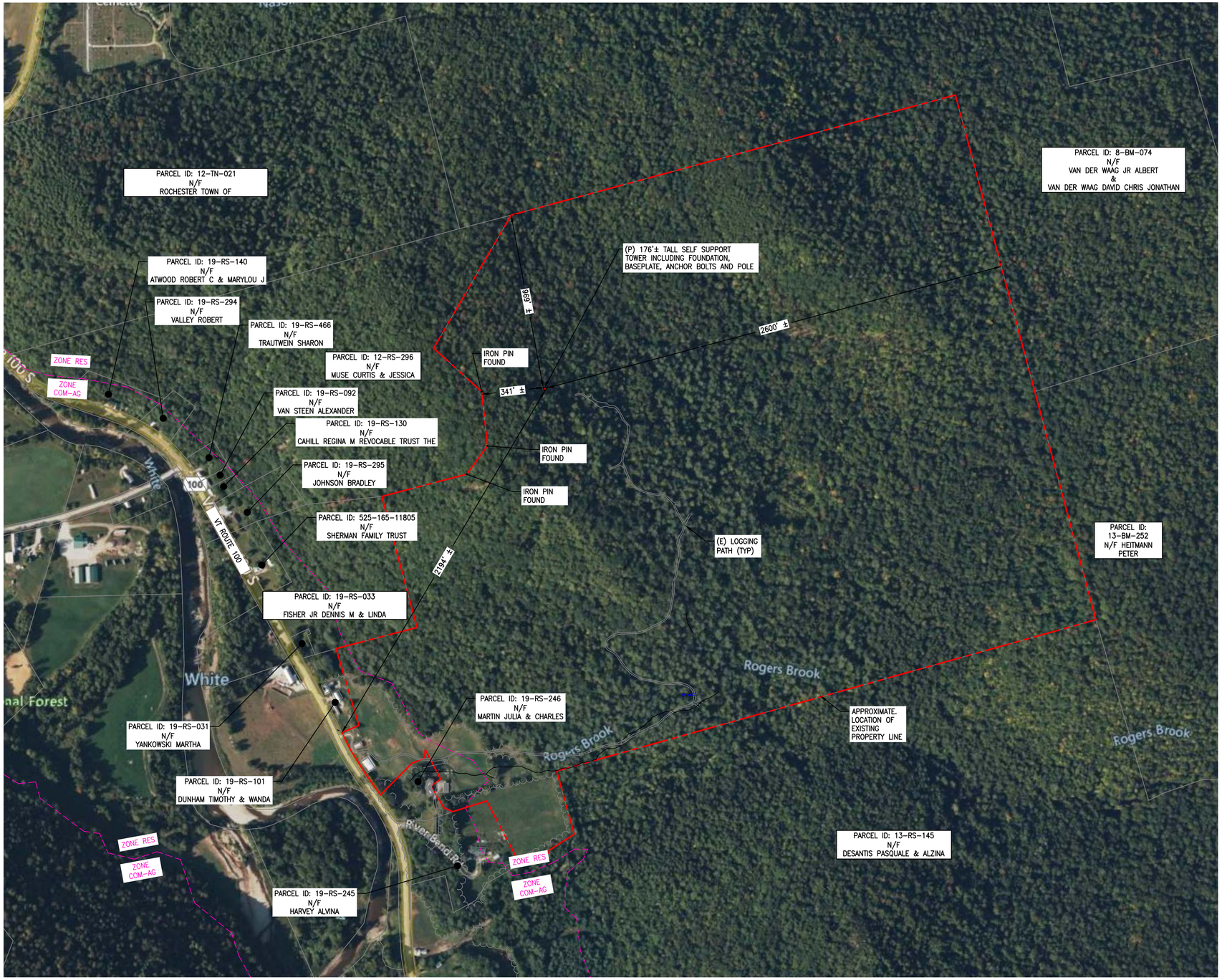
SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1



VICINITY PLAN

NORTH

1 / C-1

SCALE: 22x34: 1" = 300'
11x17: 1" = 600'

0 300' 600' 900'

SURVEY NOTES

1. FIELD SURVEY DATE: 05/26/2023
2. VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83)
4. CENTER OF (P) TOWER: LAT: 43° 51' 35.39" N LONG: 72° 47' 53.37" W ELEV.: 1585'± A.M.S.L.
5. PROPERTY OWNER: JULIA W & CHARLES W MARTIN, 49 RIVER BEND RD, ROCHESTER, VT, 05767
6. SITE ADDRESS: 1030 ROUTE 100 S, ROCHESTER, NH 05767
7. APPLICANT: VERTEX TOWERS LLC, 2 COMMERCIAL STREET, SHARON, MA 02067
8. JURISDICTION: TOWN OF ROCHESTER
9. TAX ID: 000RS245B
10. DEED REFERENCE: BOOK: 3163 PAGE: 2520
11. PLAN REFERENCES: COMPILATION SITE PLAN COMPLETED BY: EMANUEL ENGINEERING, INC. DATE: 9/25/2012
12. ZONING JURISDICTION: RESIDENTIAL
13. TOTAL LAND AREA: 244.0± ACRES
14. ALL UNDERGROUND UTILITY INFORMATION WAS DETERMINED FROM SURFACE INVESTIGATIONS AND EXISTING PLANS OF RECORD. THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO ANY SITE WORK. CALL THE FOLLOWING FOR ALL PRE-CONSTRUCTION NOTIFICATION 72-HOURS PRIOR TO ANY EXCAVATION ACTIVITY:
DIG SAFE SYSTEM (MA, ME, NH, RI, VT): 1-888-344-7233
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15. PROPERTY LINE, TOPOGRAPHY, AND EXISTING FEATURES INFORMATION HAS BEEN COMPILED FROM "NH GRANIT" AND TOWN OF ROCHESTER GIS SYSTEMS. 2. A METES AND BOUNDS SURVEY WAS NOT CONDUCTED BY ADVANCED ENGINEERING GROUP, PC.
16. THE PURPOSE OF THIS SURVEY IS TO SUPPORT THE DESIGN AND CONSTRUCTION OF A TELECOMMUNICATION FACILITY. USE OF THIS SURVEY BY ANYONE OTHER THAN VERTEX TOWER ASSETS, LLC AND USE OF THIS SURVEY FOR ANY PURPOSE NOT RELATED TO THE DESIGN OF THE INTENDED FACILITY IS STRICTLY PROHIBITED.
17. BEARING SYSTEM OF THIS PLAN IS BASED ON TRUE NORTH. TRUE NORTH WAS ESTABLISHED FROM GPS READINGS ON 5/4/2023.
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LEGEND

- PROPERTY LINE
- ABUTTING PROPERTY LINE
- EXIST. TOWN LINE BOUNDARY
- EXIST. R.O.W. LAYOUT
- EXIST. CHAIN LINK FENCE
- EXIST. EDGE OF TREE CANOPY
- STREAM LOCATION
- WETLAND SETBACK LINE
- (E) MAJOR CONTOUR
- (E) MINOR CONTOUR
- (E) U/G GAS MAIN (APPROX.)
- (E) OVERHEAD UTILITY WIRES

ZONING SUMMARY TABLE

- ZONING DISTRICT: RESIDENTIAL
- ASSESSOR'S ID: 000RS245B
- PROPOSED USE: WIRELESS COMMUNICATION FACILITY

DIMENSION:	REQUIRED MINIMUM	PROVIDED
FRONT YARD SETBACK*	30 FT	2194± FT
SIDE YARD SETBACK*	30 FT	341± FT
REAR YARD SETBACK*	20 FT	2600± FT
AREA	2 ACRES	244± ACRES
FRONTAGE	150 FT	320± FT

* DIMENSIONS MEASURED FROM EDGE OF TOWER TO THE NEAREST PROPERTY LINE

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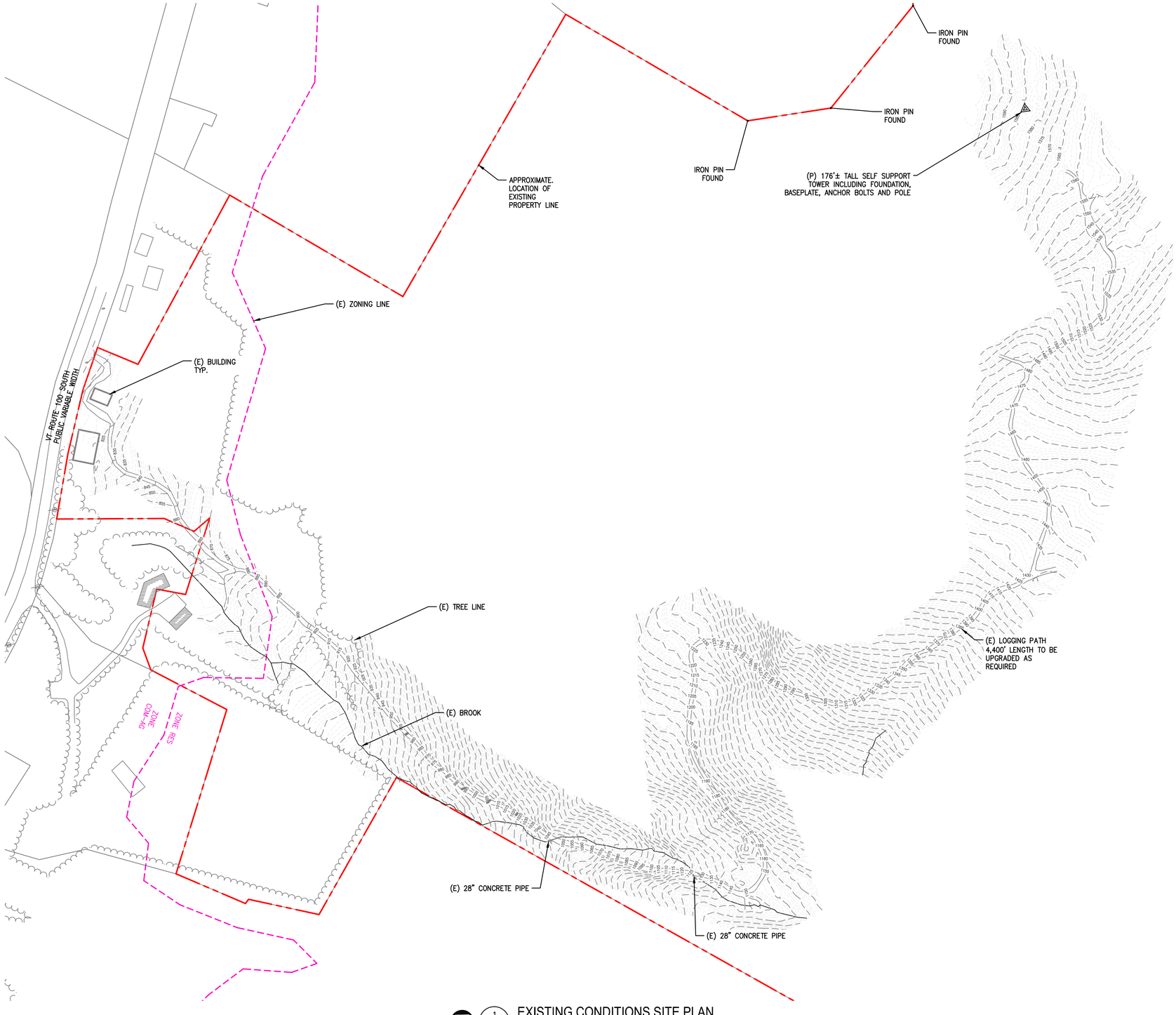

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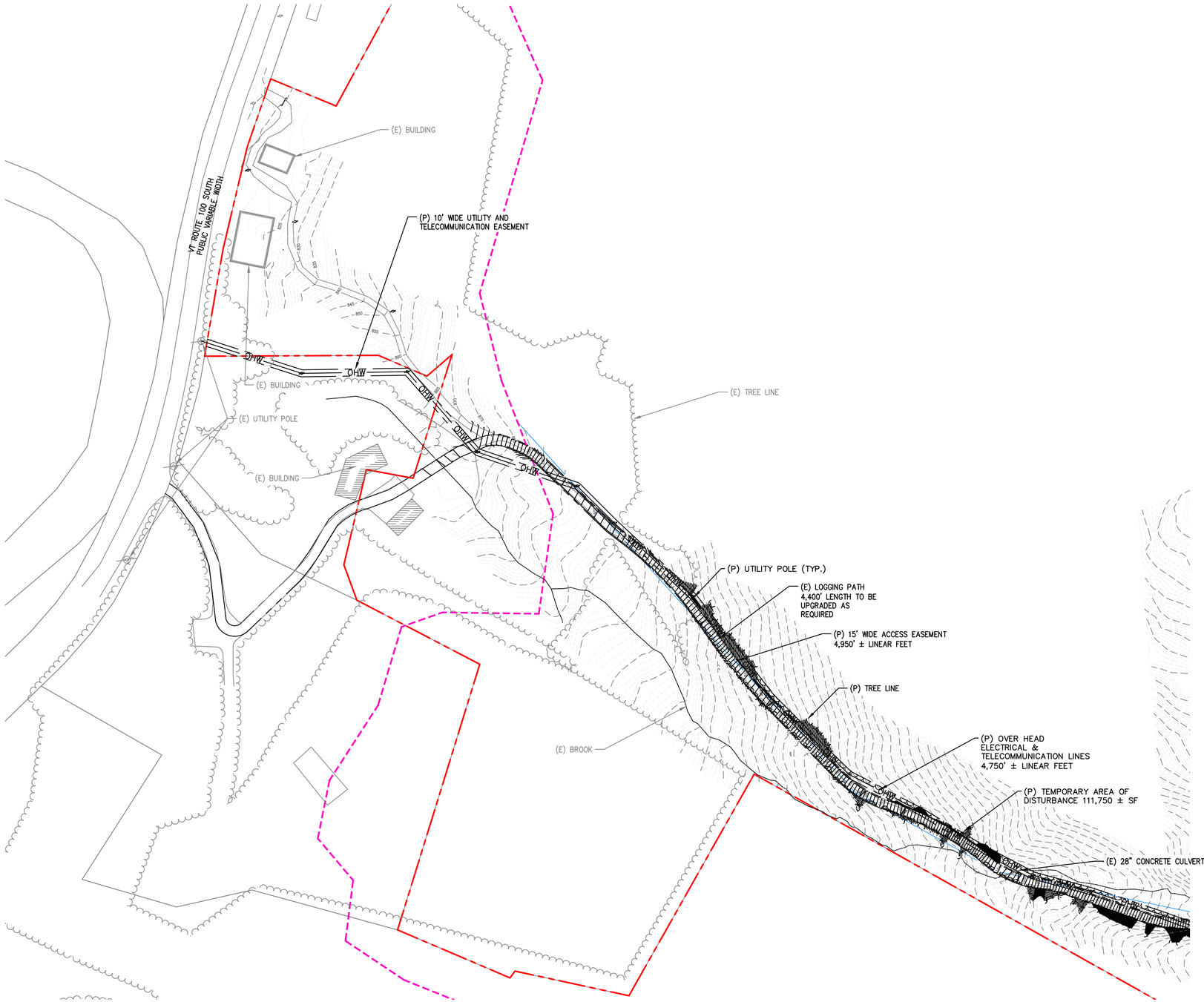
C-2



ENGINEERING NOTES

1. THE TYPE, DIMENSIONS, MOUNTING HARDWARE, AND POSITIONS OF ALL PROJECT OWNER'S EQUIPMENT ARE SHOWN IN ILLUSTRATIVE FASHION. THESE DRAWINGS ARE NOT INTENDED FOR CONSTRUCTION. ACTUAL HARDWARE DETAILS AND FINAL LOCATIONS MAY DIFFER SLIGHTLY FROM WHAT IS SHOWN.
2. THE PROJECT OWNER'S PCS FACILITY IS AN UNMANNED PRIVATE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY ACCESSED BY TRAINED TECHNICIANS FOR PERIODIC ROUTINE MAINTENANCE AND THEREFORE DOES NOT REQUIRE ANY WATER OR SANITARY SEWER SERVICE. THE FACILITY IS NOT GOVERNED BY REGULATIONS REQUIRING PUBLIC ACCESS PER ADA REQUIREMENTS.
3. THE PROJECT OWNER'S BASE TRANSMISSION STATION (BTS) CABINET IS A VANDAL RESISTANT STEEL CABINET CONTAINING RECTIFIERS, AMPLIFIERS, RADIOS, AND OTHER INTEGRATED ELECTRONIC CONTROL EQUIPMENT. BATTERY BACKUP FOR EMERGENCY STANDBY POWER IS CONTAINED WITHIN A SEPARATE BATTERY RACK CONTAINING 12-VOLT, CLOSED-CELL DC BATTERIES. THE BATTERIES ARE LEAD-ACID RECHARGEABLE STANDBY INDUSTRIAL POWER CELLS MANUFACTURED TO MEET ENVIRONMENTAL QUALITY AND RUGGEDNESS STANDARDS OF THE INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA). THE BATTERY CHARGING SYSTEM IS COMPUTER-CONTROLLED AND THE EQUIPMENT CABINET IS REMOTELY MONITORED AT PROJECT OWNER'S NETWORK OPERATIONS CONTROL CENTER 24-HOURS A DAY, 7 DAYS A WEEK FOR FAULTS AND ALARMS.
4. THE DESIGN OF THE ANTENNA MOUNTING HARDWARE AND STRUCTURAL REINFORCEMENT OF EXISTING BUILDING ROOF/FLOOR (IF NECESSARY) TO SUPPORT THE BTS EQUIPMENT CABINETS WILL MEET THE ANSI/EIA/TIA-222-G STANDARDS FOR STRUCTURAL STEEL ANTENNA SUPPORTING STRUCTURES AND STATE BUILDING CODE REQUIREMENTS. DETAILED CONSTRUCTION DRAWINGS AND STRUCTURAL CALCULATIONS WILL BE PREPARED BY A REGISTERED PROFESSIONAL ENGINEER AND SUBMITTED WITH A BUILDING PERMIT APPLICATION FOR REVIEW AND APPROVAL BY THE LOCAL BUILDING CODE ENFORCEMENT OFFICIAL.
5. ONCE THE FACILITY BECOMES FULLY OPERATIONAL, NORMAL AND ROUTINE MAINTENANCE BY PROJECT OWNER'S TECHNICIANS WILL BE PERFORMED ON A MONTHLY BASIS. THEREFORE, THE ESTIMATED VEHICLE TRIP GENERATION RATE IS 2 TRIPS PER MONTH. THE AVERAGE DAILY TRIP GENERATION RATE (ADT) IS 0.07.
6. PER FCC MANDATE, ENHANCED EMERGENCY (E911) SERVICE IS REQUIRED TO MEET NATIONWIDE STANDARDS FOR WIRELESS COMMUNICATIONS SYSTEMS. PROJECT OWNER'S IMPLEMENTATION REQUIRES DEPLOYMENT OF EQUIPMENT AND ANTENNAS GENERALLY DEPICTED ON THIS PLAN, ATTACHED TO OR MOUNTED IN CLOSE PROXIMITY TO THE BTS RADIO CABINETS. RESERVES THE RIGHT TO MAKE REASONABLE MODIFICATIONS TO E911 EQUIPMENT AND LOCATION AS TECHNOLOGY EVOLVES TO MEET REQUIRED SPECIFICATIONS.
7. APPLICANT: VERTEX TOWERS LLC
2 COMMERCIAL STREET
SHARON, MA 02067
8. OWNER: JULIA W & CHARLES W MARTIN
49 RIVER BEND RD
ROCHESTER, VT, 05767
9. ZONING DISTRICT: RESIDENTIAL
10. JURISDICTION: TOWN OF ROCHESTER
11. TAX ID: 000RS245B
12. ALL MEASUREMENTS ARE SHOWN IN FEET ± UNLESS OTHERWISE NOTED.
13. PLOT PLAN MEASUREMENTS ARE APPROXIMATE AND BASED ON SCALED ASSESSORS MAPS AND OTHER AVAILABLE INFORMATION.
14. ALL SETBACKS SHOWN FROM PROPOSED ANTENNAS TO THE EDGE OF THE ROOF ARE APPROXIMATE AND SHOULD BE USED FOR REFERENCE ONLY.

LEGEND

- PROPERTY LINE
- ZONING SETBACK LINE
- ABUTTING PROPERTY LINE
- EXIST. R.O.W. LAYOUT
- PROP. EASEMENT/LEASE AREA
- EXIST. CHAIN LINK FENCE
- PROP. CHAIN LINK FENCE
- EROSION CONTROL BARRIER
- EXIST. EDGE OF TREE CANOPY
- PROP. EDGE OF TREE CANOPY
- WETLAND BOUNDARY & FLAG
- WETLAND SETBACK LINE
- (E) MAJOR CONTOUR
- (E) MINOR CONTOUR
- (E) U/G GAS MAIN (APPROX.)
- (E) OVERHEAD UTILITY WIRES
- (P) ELECTRICAL UTILITY CONDUIT
- (P) TELCO/DATA UTILITY CONDUIT
- (P) CONTOUR

Vertex Towers LLC
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Civil Engineering - Site Development
Surveying - Telecommunications
500 North Broadway
East Providence, RI 02914
Tel: (401) 354-2403
Fax: (401) 633-6354

AEG PROJECT #: 2023-0079

DRAWN BY: JWH

CHECKED BY: SNA

SUBMITTALS

REV#	DATE	DESCRIPTION
0	03/04/24	DRAFT
1	05/17/24	REVISED

VT-VT-0111A

ROCHESTER

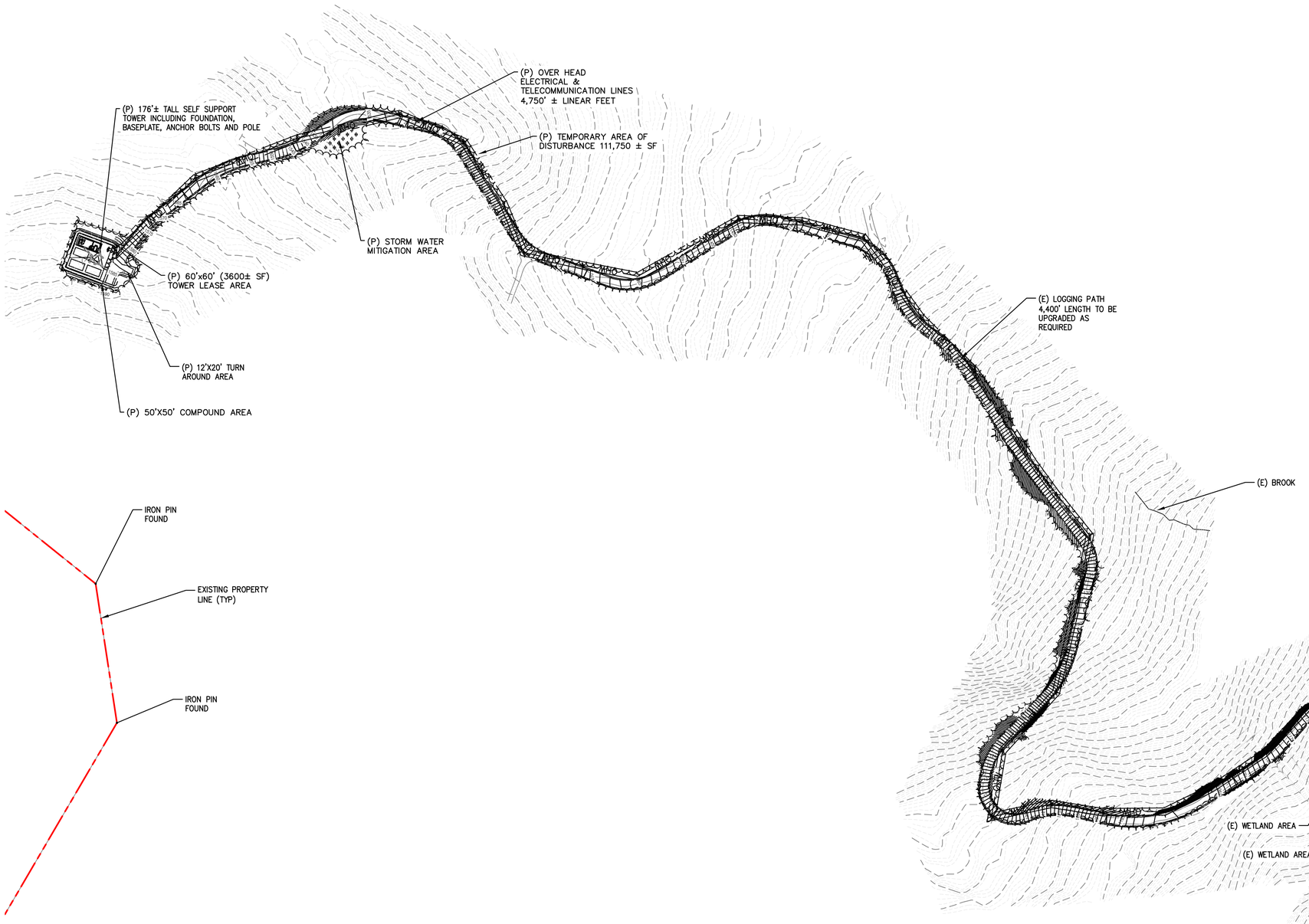
1030 VT ROUTE 100
ROCHESTER, VT 05767
WINDSOR COUNTY

SHEET TITLE

PROPOSED SITE PLAN

SHEET NUMBER

Z-1.1



1 / Z-1.2 PROPOSED SITE PLAN

SCALE: 22x34: 1" = 80'
11x17: 1" = 160'

0 80' 160' 240'

LEGEND

- PROPERTY LINE
- ZONING SETBACK LINE
- ABUTTING PROPERTY LINE
- EXIST. R.O.W. LAYOUT
- PROP. EASEMENT/LEASE AREA
- EXIST. CHAIN LINK FENCE
- PROP. CHAIN LINK FENCE
- EROSION CONTROL BARRIER
- EXIST. EDGE OF TREE CANOPY
- PROP. EDGE OF TREE CANOPY
- WETLAND BOUNDARY & FLAG
- WETLAND SETBACK LINE
- (E) MAJOR CONTOUR
- (E) MINOR CONTOUR
- (E) U/G GAS MAIN (APPROX.)
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ROCHESTER

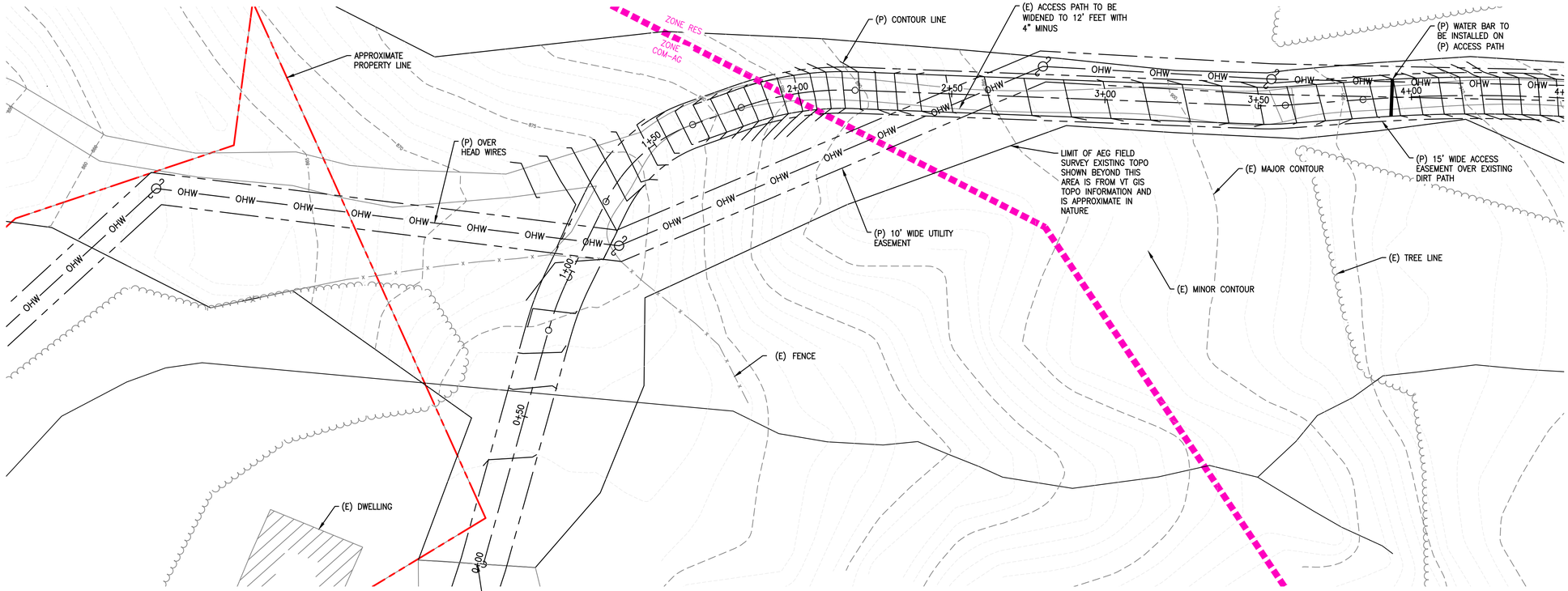
1030 VT ROUTE 100
ROCHESTER, VT 05767
WINDSOR COUNTY

SHEET TITLE

PROPOSED SITE PLAN

SHEET NUMBER

Z-1.2

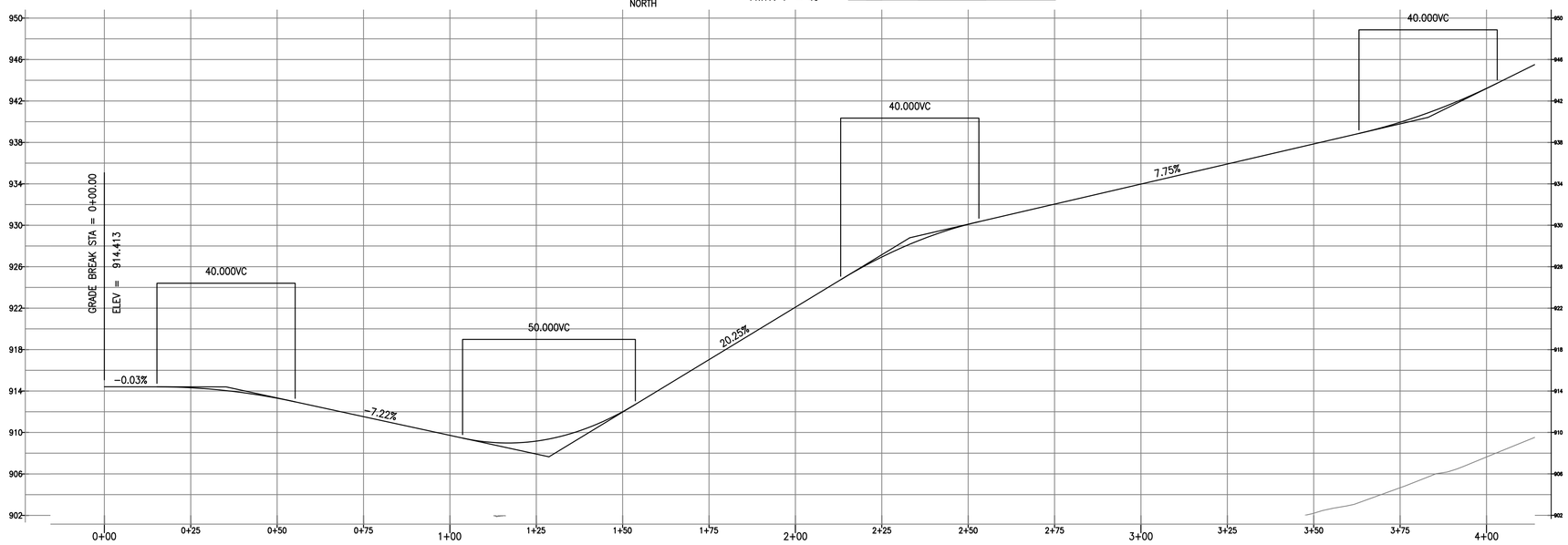


1 Z-2.1 PROPOSED SITE PLAN SEGMENT 1

SCALE: 22x34: 1" = 20' 11x17: 1" = 40'

0 20' 40' 60'

NORTH



2 Z-2.1 PROFILE VIEW (SEGMENT 1)

SCALE: 22x34: 1" = 20' 11x17: 1" = 40'

0 20' 40' 60'

4 TO 1 VERTICAL EXAGGERATION

LEGEND

- PROPERTY LINE
- ZONING SETBACK LINE
- ABUTTING PROPERTY LINE
- EXIST. R.O.W. LAYOUT
- PROP. EASEMENT/LEASE AREA
- EXIST. CHAIN LINK FENCE
- PROP. CHAIN LINK FENCE
- EROSION CONTROL BARRIER
- EXIST. EDGE OF TREE CANOPY
- PROP. EDGE OF TREE CANOPY
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ROCHESTER

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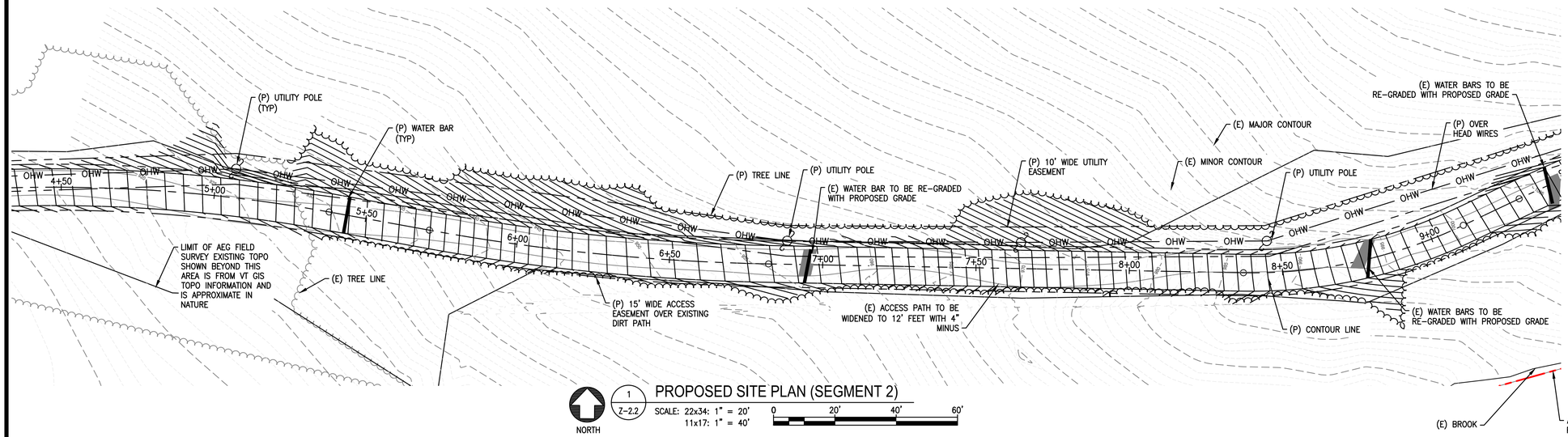
ROCHESTER, VT 05767
WINDSOR COUNTY

SHEET TITLE

ENLARGED PLAN & PROFILE (SEGMENT 2)

SHEET NUMBER

Z-2.1



NORTH

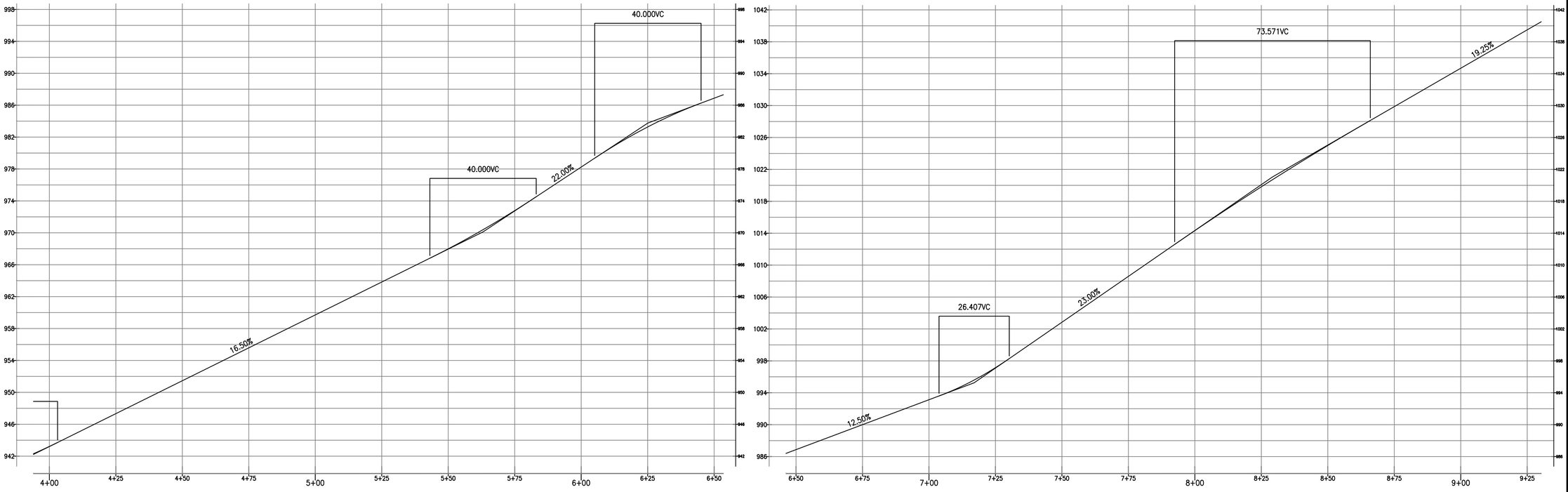
1 / Z-2.2 PROPOSED SITE PLAN (SEGMENT 2)

SCALE: 22x34: 1" = 20' 11x17: 1" = 40'

0 20' 40' 60'

LEGEND

- PROPERTY LINE
- ZONING SETBACK LINE
- ABUTTING PROPERTY LINE
- EXIST. R.O.W. LAYOUT
- PROP. EASEMENT/LEASE AREA
- EXIST. CHAIN LINK FENCE
- PROP. CHAIN LINK FENCE
- EROSION CONTROL BARRIER
- EXIST. EDGE OF TREE CANOPY
- PROP. EDGE OF TREE CANOPY
- WETLAND BOUNDARY & FLAG
- WETLAND SETBACK LINE
- 290 (E) MAJOR CONTOUR
- 291 (E) MINOR CONTOUR
- GAS (E) U/G GAS MAIN (APPROX.)
- OHW (E) OVERHEAD UTILITY WIRES
- E (P) ELECTRICAL UTILITY CONDUIT
- T (P) TELCO/DATA UTILITY CONDUIT
- 290 (P) CONTOUR



2 / Z-2.2 PROFILE VIEW (SEGMENT 2)

SCALE: 22x34: 1" = 20' 11x17: 1" = 40'

0 20' 40' 60'

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ROCHESTER

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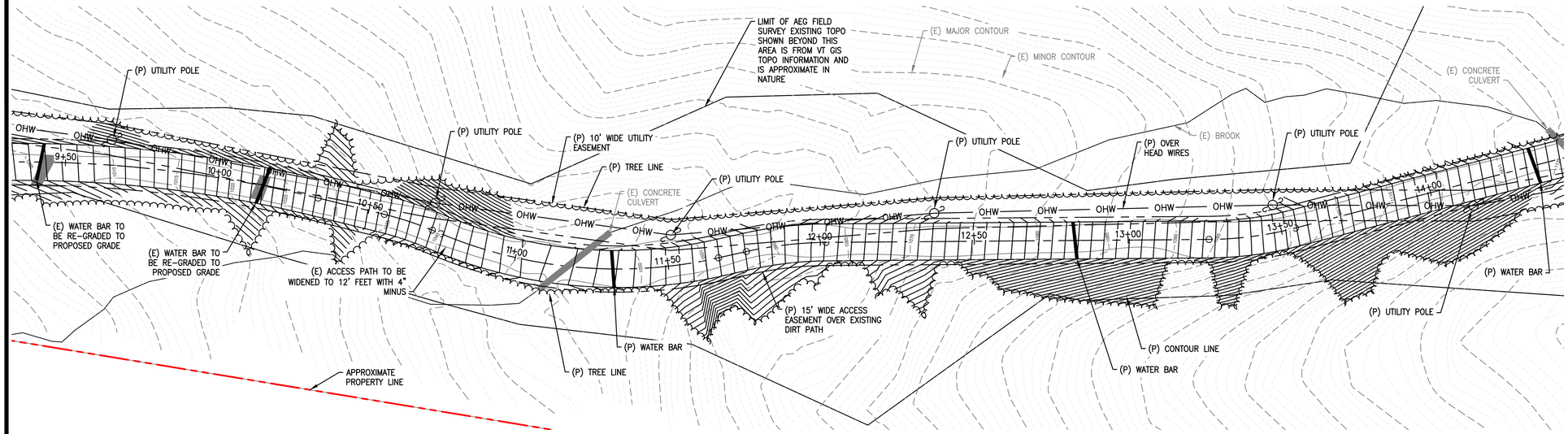
ROCHESTER, VT 05767
WINDSOR COUNTY

SHEET TITLE

ENLARGED PLAN & PROFILE (SEGMENT 3)

SHEET NUMBER

Z-2.2



NORTH

1 / Z-2.3

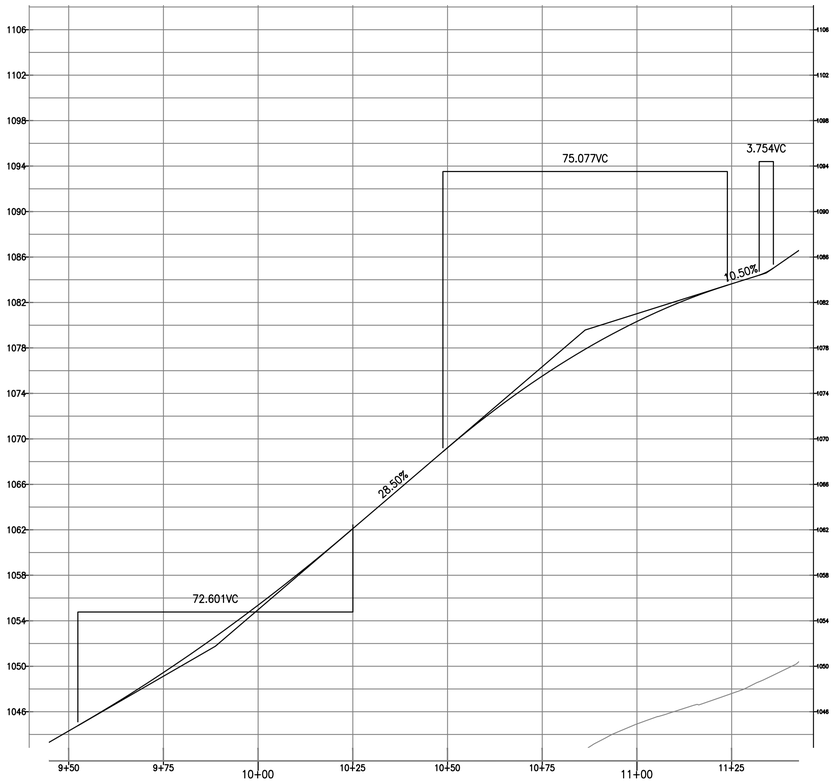
PROPOSED SITE PLAN (SEGMENT 3)

SCALE: 22x34: 1" = 20'
11x17: 1" = 40'

0 20' 40' 60'

LEGEND

- PROPERTY LINE
- ZONING SETBACK LINE
- ABUTTING PROPERTY LINE
- EXIST. R.O.W. LAYOUT
- PROP. EASEMENT/LEASE AREA
- EXIST. CHAIN LINK FENCE
- PROP. CHAIN LINK FENCE
- EROSION CONTROL BARRIER
- EXIST. EDGE OF TREE CANOPY
- PROP. EDGE OF TREE CANOPY
- WETLAND BOUNDARY & FLAG
- WETLAND SETBACK LINE
- 290 (E) MAJOR CONTOUR
- 291 (E) MINOR CONTOUR
- GAS (E) U/G GAS MAIN (APPROX.)
- OHW (E) OVERHEAD UTILITY WIRES
- E (P) ELECTRICAL UTILITY CONDUIT
- T (P) TELCO/DATA UTILITY CONDUIT
- 290 (P) CONTOUR

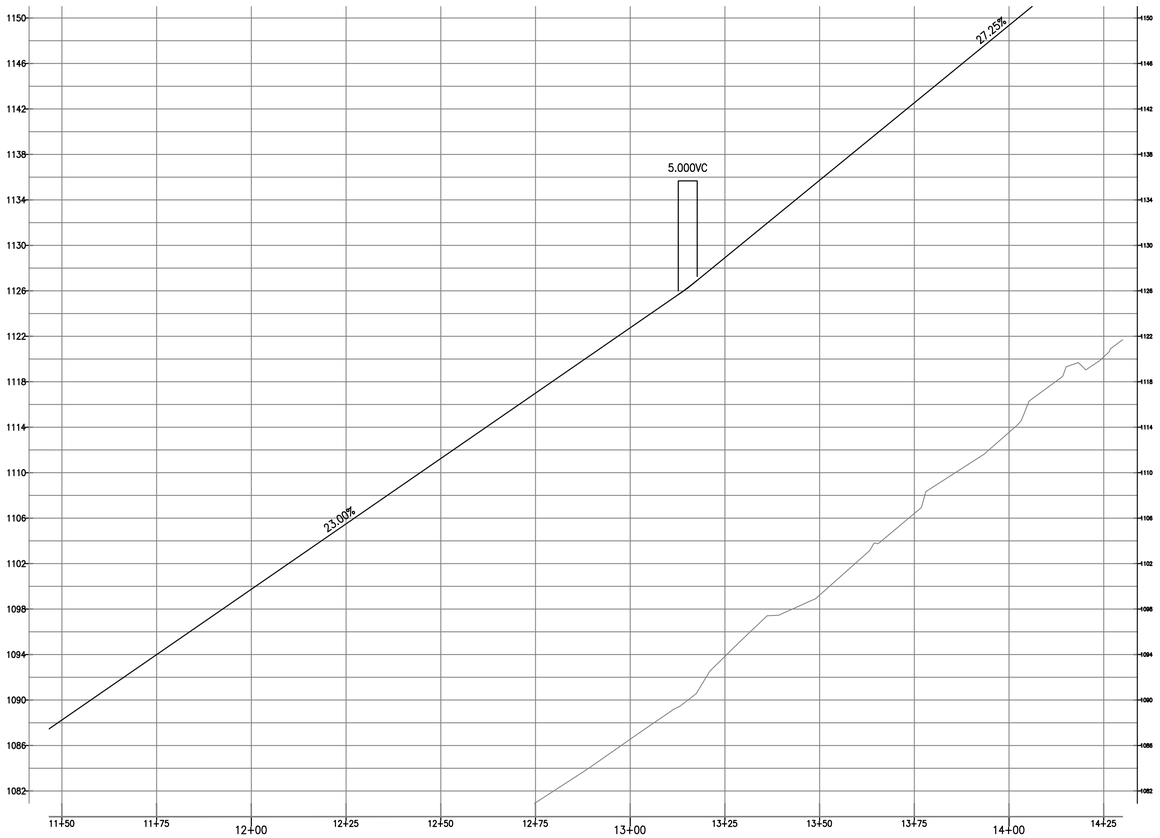


2 / Z-2.3

PROFILE VIEW (SEGMENT 3)

SCALE: 22x34: 1" = 20'
11x17: 1" = 40'

0 20' 40' 60'



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VT-VT-0111A

ROCHESTER

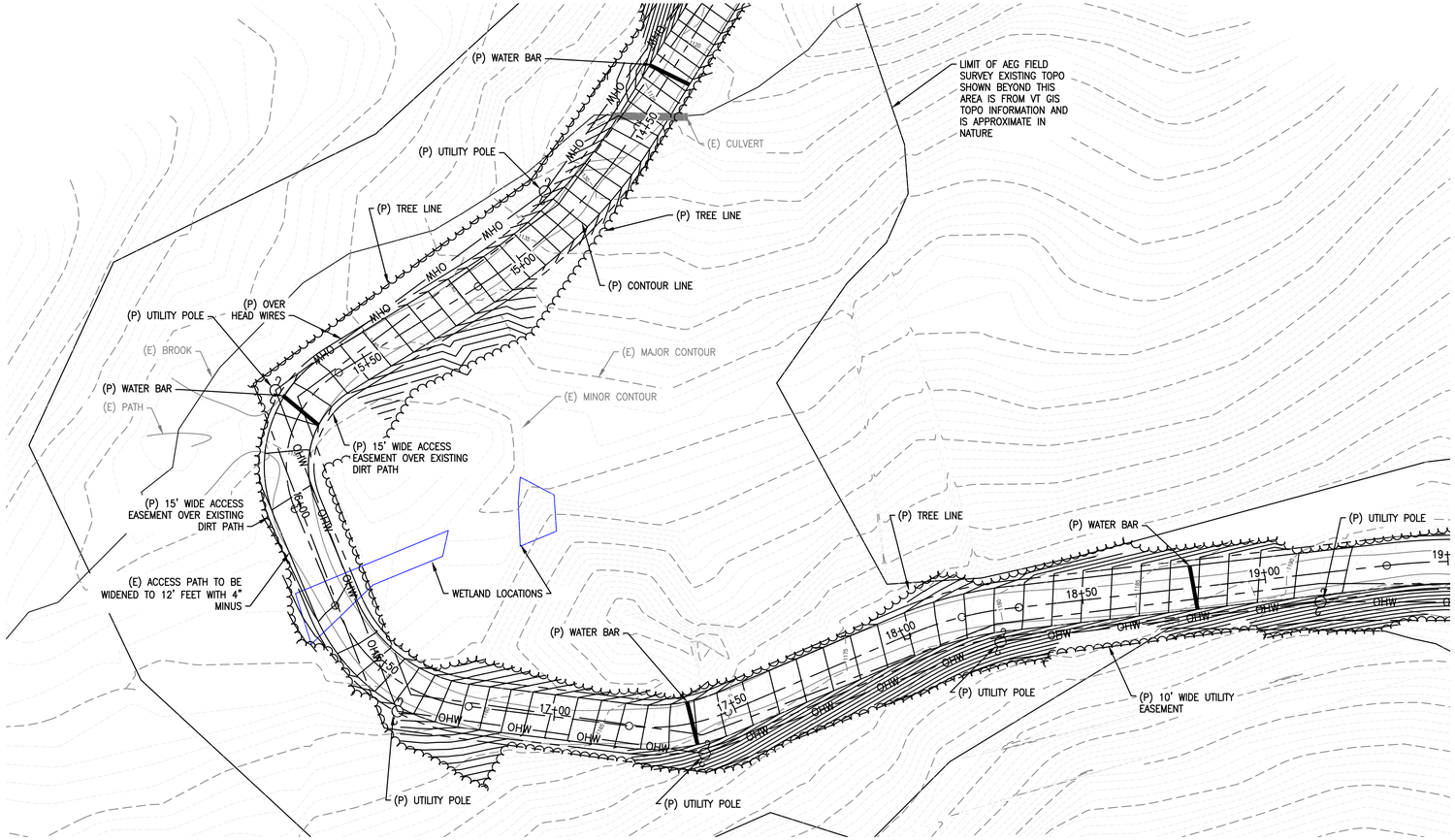
1030 VT ROUTE 100
ROCHESTER, VT 05767
WINDSOR COUNTY

SHEET TITLE

ENLARGED PLAN & PROFILE (SEGMENT 4)

SHEET NUMBER

Z-2.3

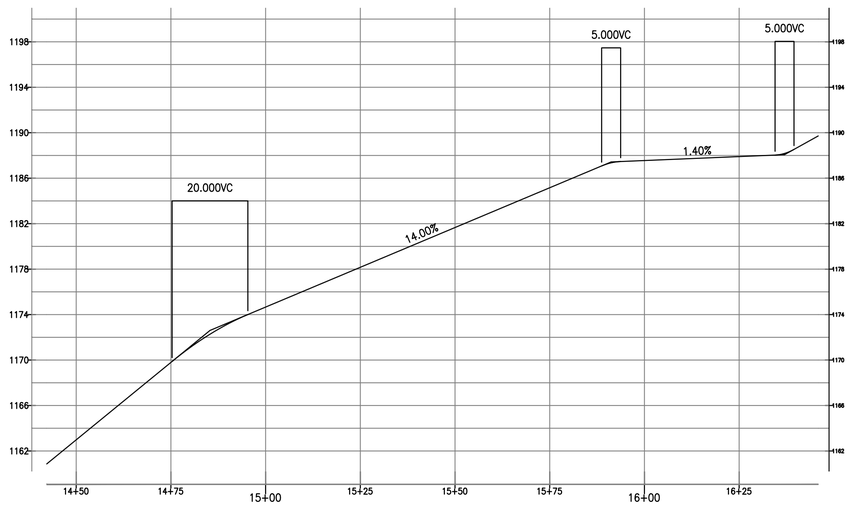


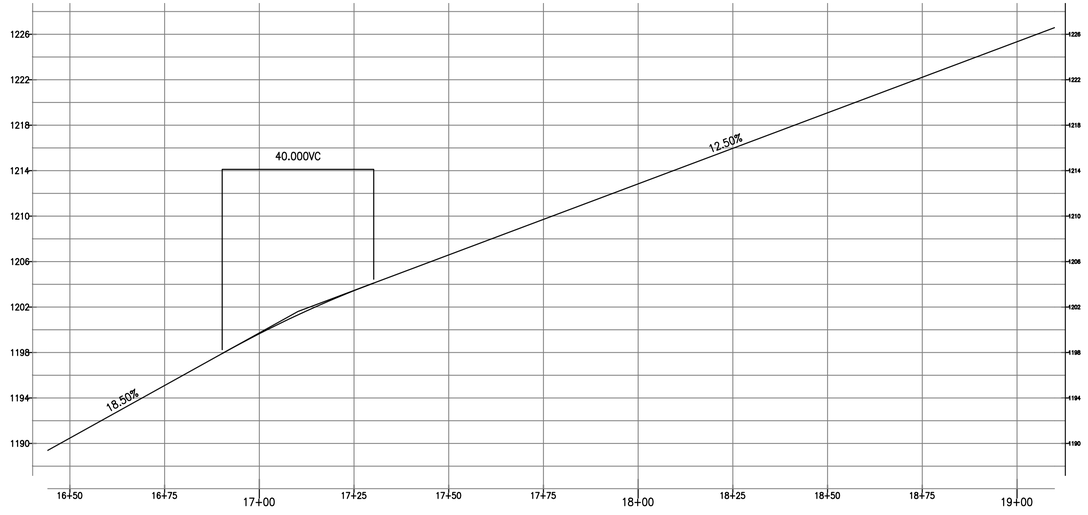
1 / Z-2.4 PROPOSED SITE PLAN (SEGMENT 4)

SCALE: 22x34: 1" = 20'
11x17: 1" = 40'

NORTH

0 20' 40' 60'





2 / Z-2.4 PROFILE VIEW (SEGMENT 4)

SCALE: 22x34: 1" = 20'
11x17: 1" = 40'

0 20' 40' 60'

LEGEND

- PROPERTY LINE
- ZONING SETBACK LINE
- ABUTTING PROPERTY LINE
- EXIST. R.O.W. LAYOUT
- PROP. EASEMENT/LEASE AREA
- EXIST. CHAIN LINK FENCE
- PROP. CHAIN LINK FENCE
- EROSION CONTROL BARRIER
- EXIST. EDGE OF TREE CANOPY
- PROP. EDGE OF TREE CANOPY
- WETLAND BOUNDARY & FLAG
- WETLAND SETBACK LINE
- (E) MAJOR CONTOUR
- (E) MINOR CONTOUR
- (E) U/G GAS MAIN (APPROX.)
- (E) OVERHEAD UTILITY WIRES
- (P) ELECTRICAL UTILITY CONDUIT
- (P) TELCO/DATA UTILITY CONDUIT
- (P) CONTOUR

Vertex Towers LLC
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SUBMITTALS

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1	05/17/24	REVISED

VT-VT-0111A

ROCHESTER

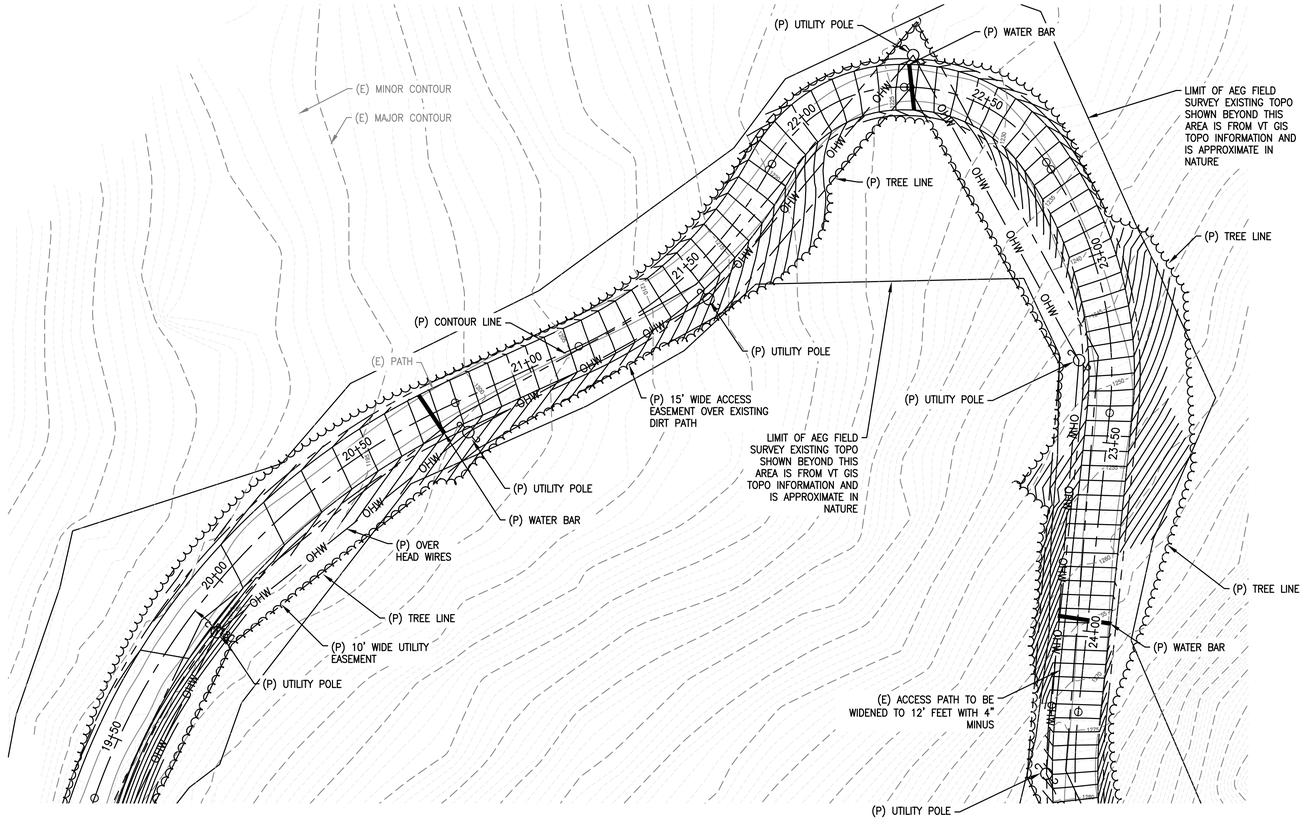
1030 VT ROUTE 100
ROCHESTER, VT 05767
WINDSOR COUNTY

SHEET TITLE

ENLARGED PLAN & PROFILE (SEGMENT 4)

SHEET NUMBER

Z-2.4



LEGEND

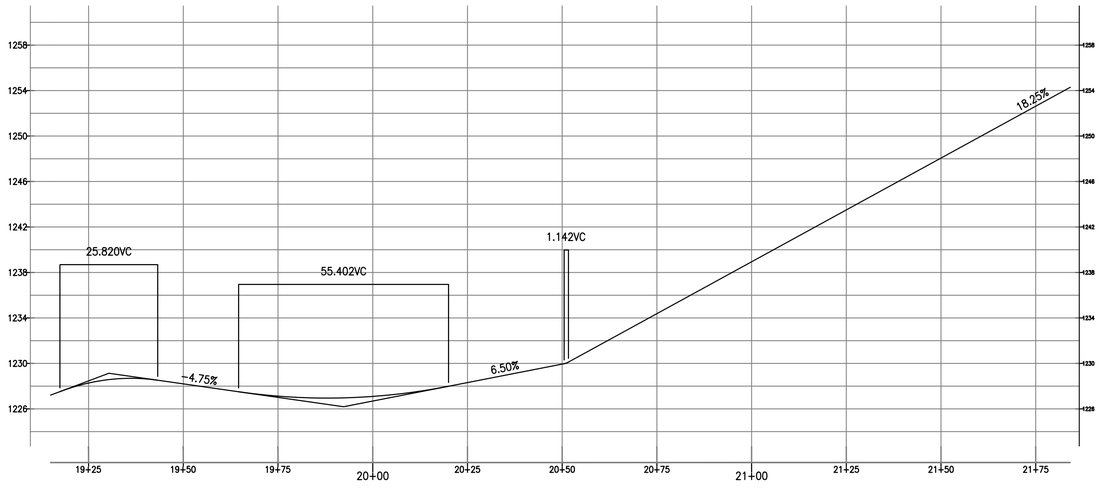
- PROPERTY LINE
- ZONING SETBACK LINE
- ABUTTING PROPERTY LINE
- EXIST. R.O.W. LAYOUT
- PROP. EASEMENT/LEASE AREA
- EXIST. CHAIN LINK FENCE
- PROP. CHAIN LINK FENCE
- EROSION CONTROL BARRIER
- EXIST. EDGE OF TREE CANOPY
- PROP. EDGE OF TREE CANOPY
- WETLAND BOUNDARY & FLAG
- WETLAND SETBACK LINE
- (E) MAJOR CONTOUR
- (E) MINOR CONTOUR
- (E) U/G GAS MAIN (APPROX.)
- (E) OVERHEAD UTILITY WIRES
- (P) ELECTRICAL UTILITY CONDUIT
- (P) TELCO/DATA UTILITY CONDUIT
- (P) CONTOUR

NORTH

1 / Z-2.5 PROPOSED SITE PLAN (SEGMENT 5)

SCALE: 22x34: 1" = 20'
11x17: 1" = 40'

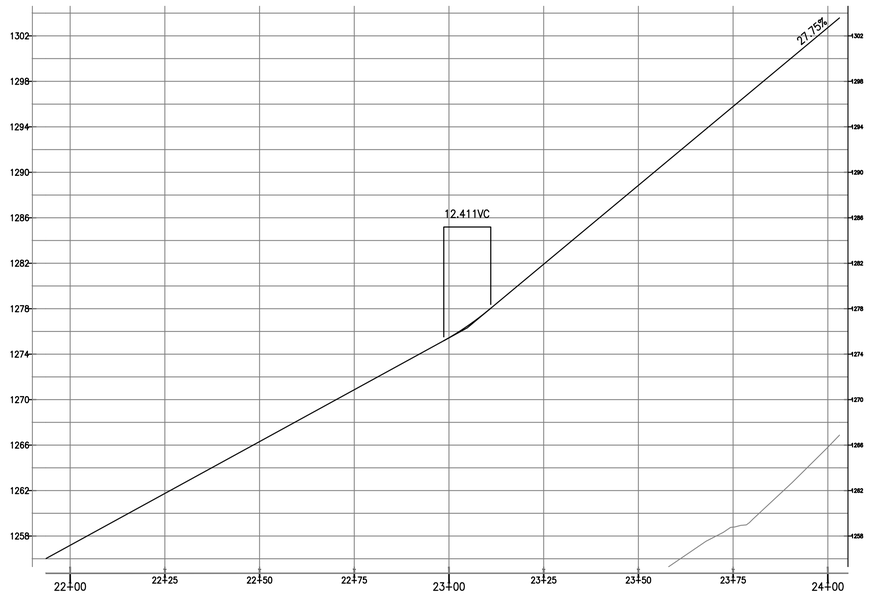
0 20' 40' 60'



2 / Z-2.5 PROFILE VIEW (SEGMENT 5)

SCALE: 22x34: 1" = 20'
11x17: 1" = 40'

0 20' 40' 60'



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VT-VT-0111A

ROCHESTER

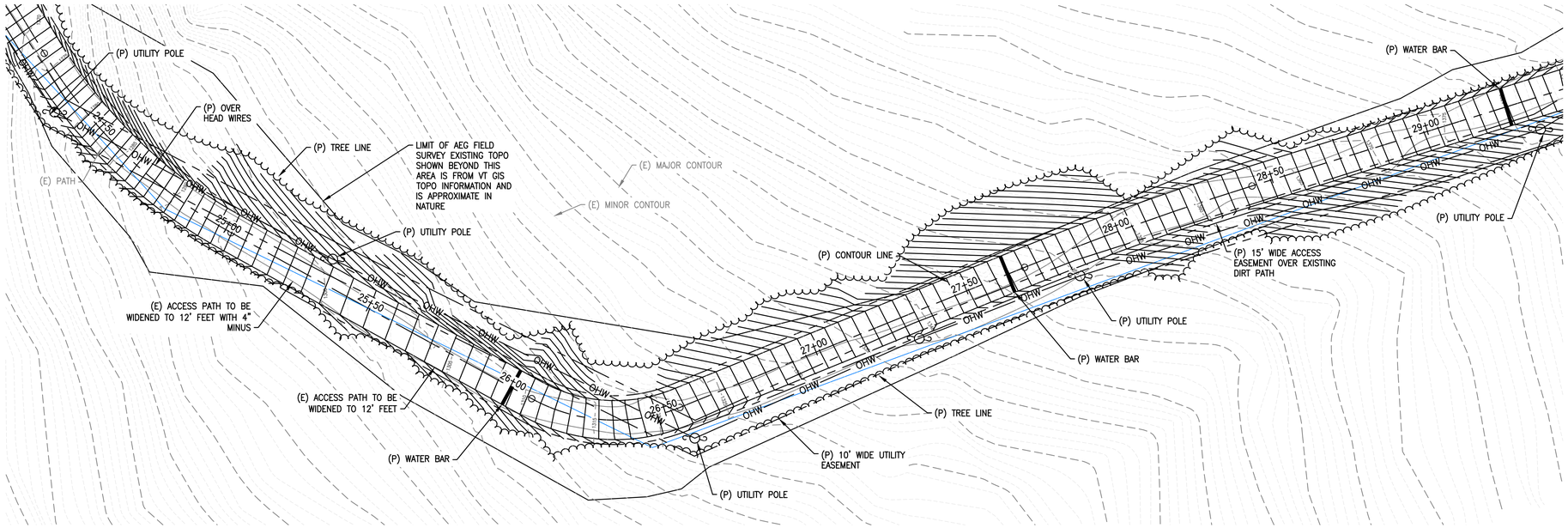
1030 VT ROUTE 100
ROCHESTER, VT 05767
WINDSOR COUNTY

SHEET TITLE

ENLARGED PLAN & PROFILE (SEGMENT 6)

SHEET NUMBER

Z-2.5



LEGEND

- PROPERTY LINE
- ZONING SETBACK LINE
- ABUTTING PROPERTY LINE
- EXIST. R.O.W. LAYOUT
- PROP. EASEMENT/LEASE AREA
- EXIST. CHAIN LINK FENCE
- PROP. CHAIN LINK FENCE
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- EXIST. EDGE OF TREE CANOPY
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- WETLAND SETBACK LINE
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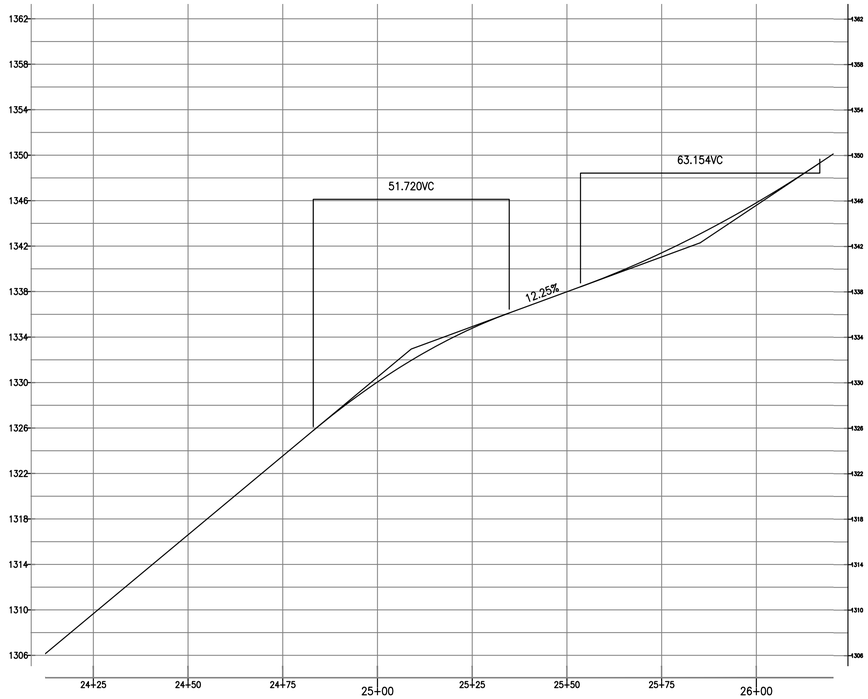
- (E) U/G GAS MAIN (APPROX.)
- (E) OVERHEAD UTILITY WIRES
- (P) ELECTRICAL UTILITY CONDUIT
- (P) TELCO/DATA UTILITY CONDUIT
- (P) CONTOUR

NORTH

1 / Z-2.6 PROPOSED SITE PLAN (SEGMENT 6)

SCALE: 22x34: 1" = 20'
11x17: 1" = 40'

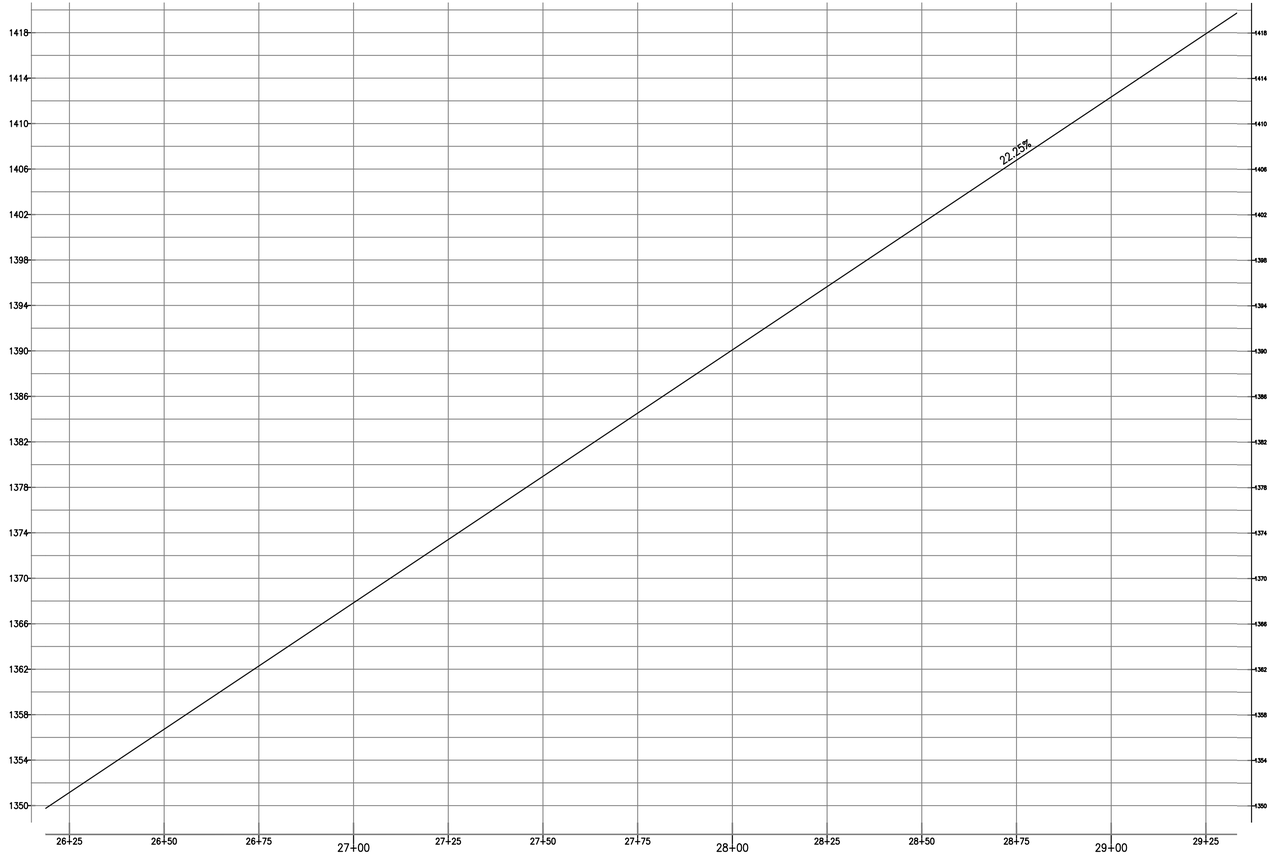
0 20' 40' 60'



2 / Z-2.6 PROFILE VIEW (SEGMENT 6)

SCALE: 22x34: 1" = 20'
11x17: 1" = 40'

0 20' 40' 60'



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ROCHESTER

1030 VT ROUTE 100
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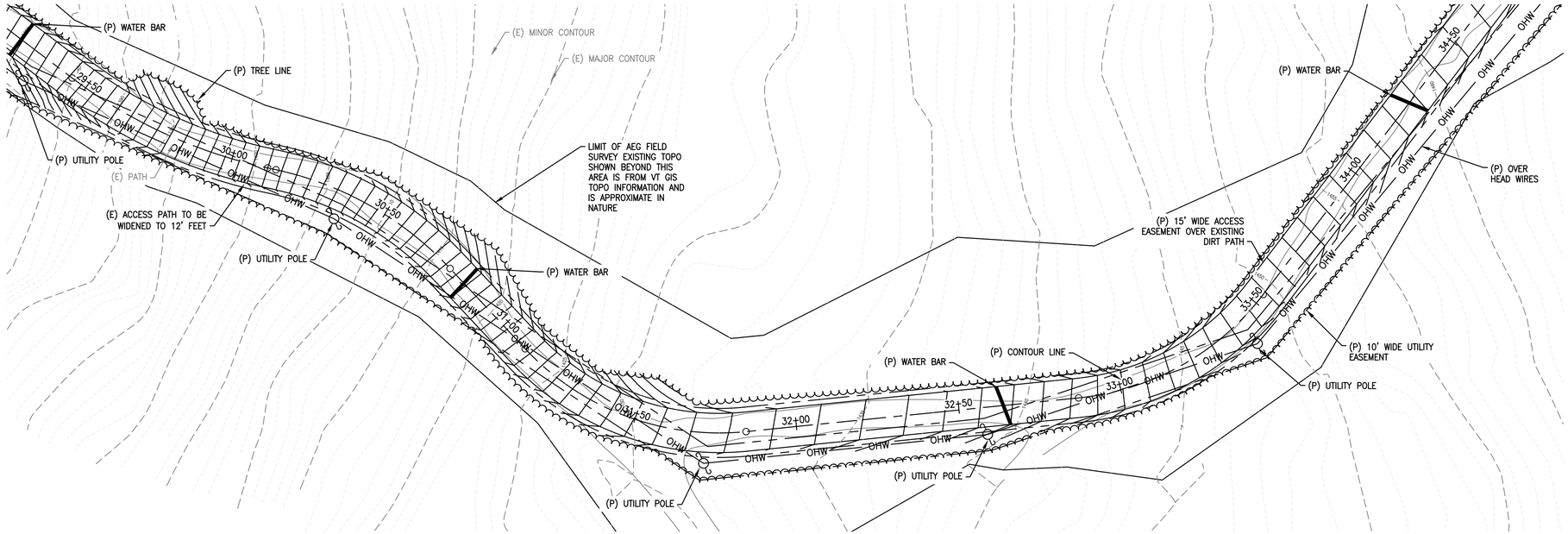
WINDSOR COUNTY

SHEET TITLE

ENLARGED PLAN & PROFILE (SEGMENT 7)

SHEET NUMBER

Z-2.6

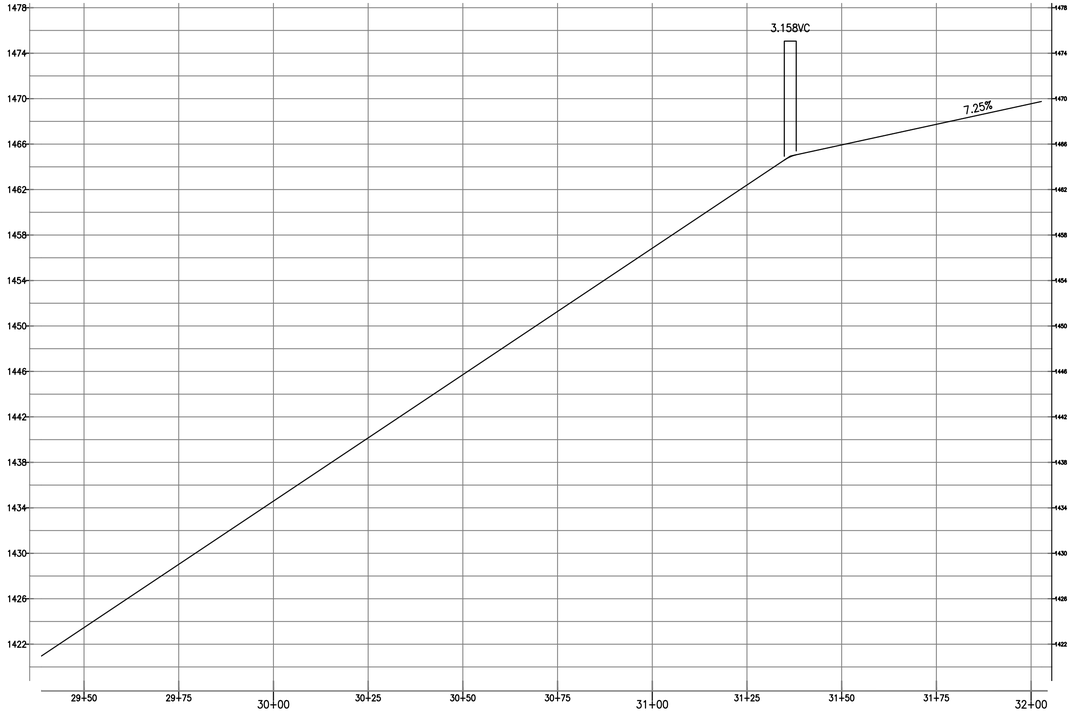


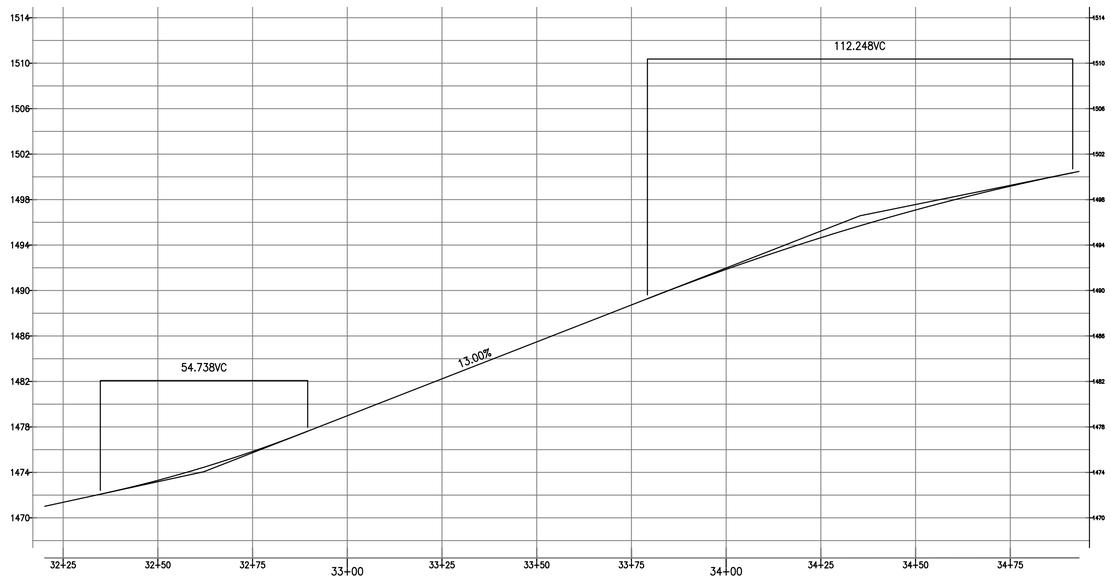
NORTH

1 / Z-2.7 PROPOSED SITE PLAN (SEGMENT 7)

SCALE: 22x34: 1" = 20'
11x17: 1" = 40'

0 20' 40' 60'





2 / Z-2.7 PROFILE VIEW (SEGMENT 7)

SCALE: 22x34: 1" = 20'
11x17: 1" = 40'

0 20' 40' 60'

LEGEND

- PROPERTY LINE
- ZONING SETBACK LINE
- ABUTTING PROPERTY LINE
- EXIST. R.O.W. LAYOUT
- PROP. EASEMENT/LEASE AREA
- EXIST. CHAIN LINK FENCE
- PROP. CHAIN LINK FENCE
- EROSION CONTROL BARRIER
- EXIST. EDGE OF TREE CANOPY
- PROP. EDGE OF TREE CANOPY
- WETLAND BOUNDARY & FLAG
- WETLAND SETBACK LINE
- (E) MAJOR CONTOUR
- (E) MINOR CONTOUR
- (E) U/G GAS MAIN (APPROX.)
- (E) OVERHEAD UTILITY WIRES
- (P) ELECTRICAL UTILITY CONDUIT
- (P) TELCO/DATA UTILITY CONDUIT
- (P) CONTOUR

Vertex Towers LLC
VERTEX TOWERS LLC
2 COMMERCIAL STREET
SHARON, MA 02067

AEG ADVANCED ENGINEERING GROUP, P.C.
Civil Engineering - Site Development
Surveying - Telecommunications
500 North Broadway
East Providence, RI 02914
Tel: (401) 354-2403
Fax: (401) 633-6354

AEG PROJECT #: 2023-0079

DRAWN BY: JWH

CHECKED BY: SNA

SUBMITTALS

REV#	DATE	DESCRIPTION
0	03/04/24	DRAFT
1	05/17/24	REVISED

VT-VT-0111A

ROCHESTER

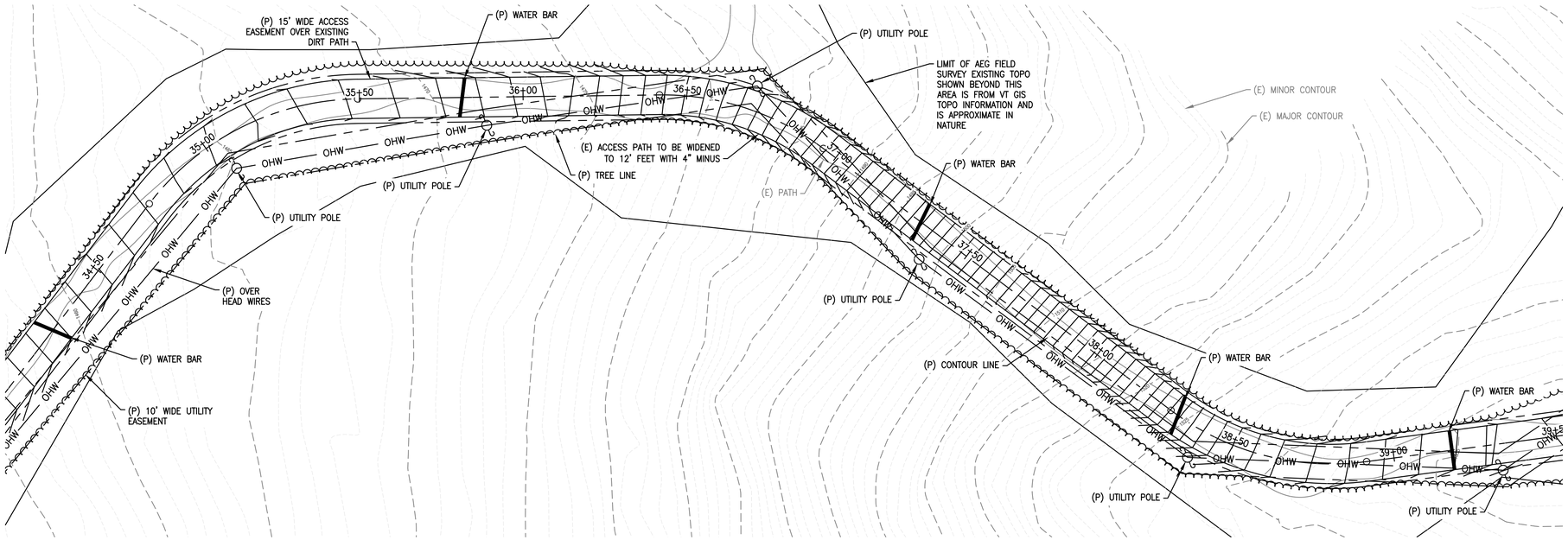
1030 VT ROUTE 100
ROCHESTER, VT 05767
WINDSOR COUNTY

SHEET TITLE

ENLARGED PLAN & PROFILE (SEGMENT 8)

SHEET NUMBER

Z-2.7



1 / Z-2.8 PROPOSED SITE PLAN (SEGMENT 8)

SCALE: 22x34: 1" = 20'
11x17: 1" = 40'

NORTH

0 20' 40' 60'

LEGEND

- PROPERTY LINE
- ZONING SETBACK LINE
- ABUTTING PROPERTY LINE
- EXIST. R.O.W. LAYOUT
- PROP. EASEMENT/LEASE AREA
- EXIST. CHAIN LINK FENCE
- PROP. CHAIN LINK FENCE
- EROSION CONTROL BARRIER
- EXIST. EDGE OF TREE CANOPY
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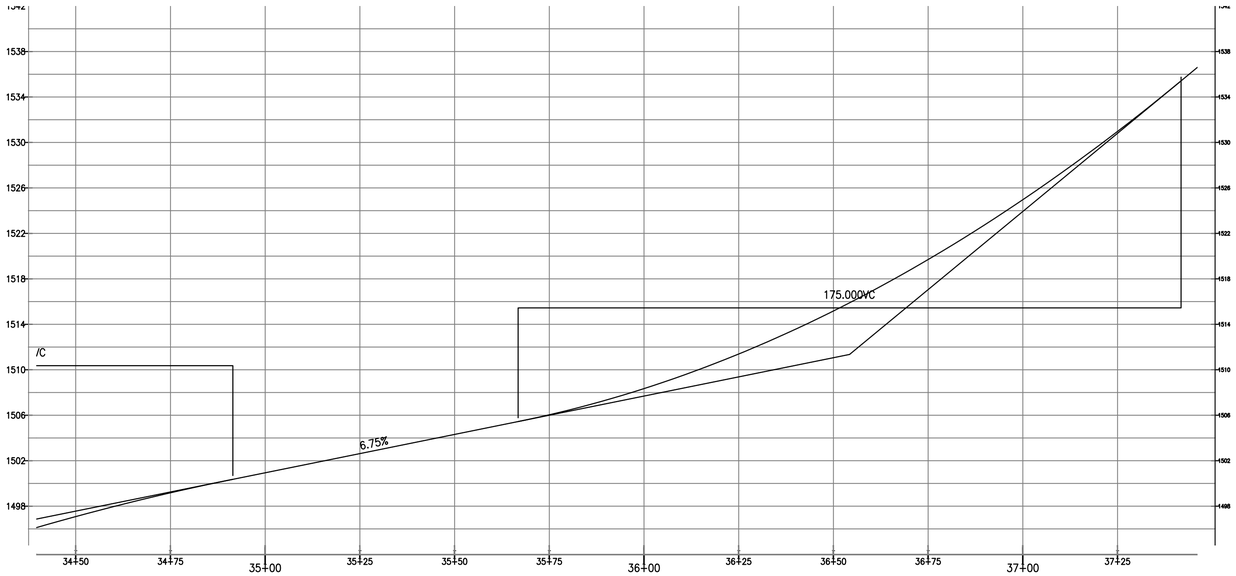
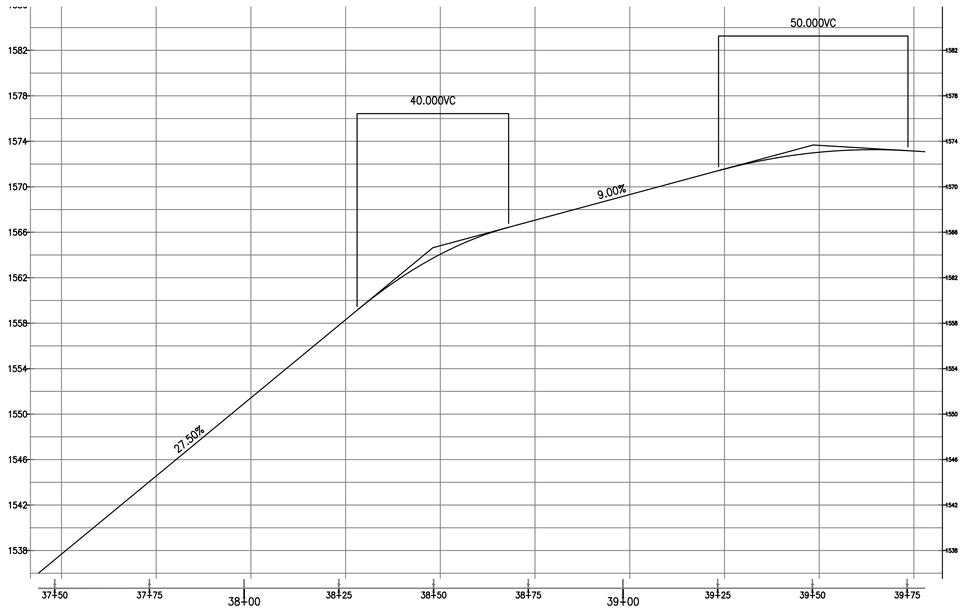
- (P) TELCO/DATA UTILITY CONDUIT
- (P) CONTOUR





2 / Z-2.8 PROFILE VIEW (SEGMENT 8)

SCALE: 22x34: 1" = 20'
11x17: 1" = 40'

0 20' 40' 60'

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ROCHESTER

1030 VT ROUTE 100
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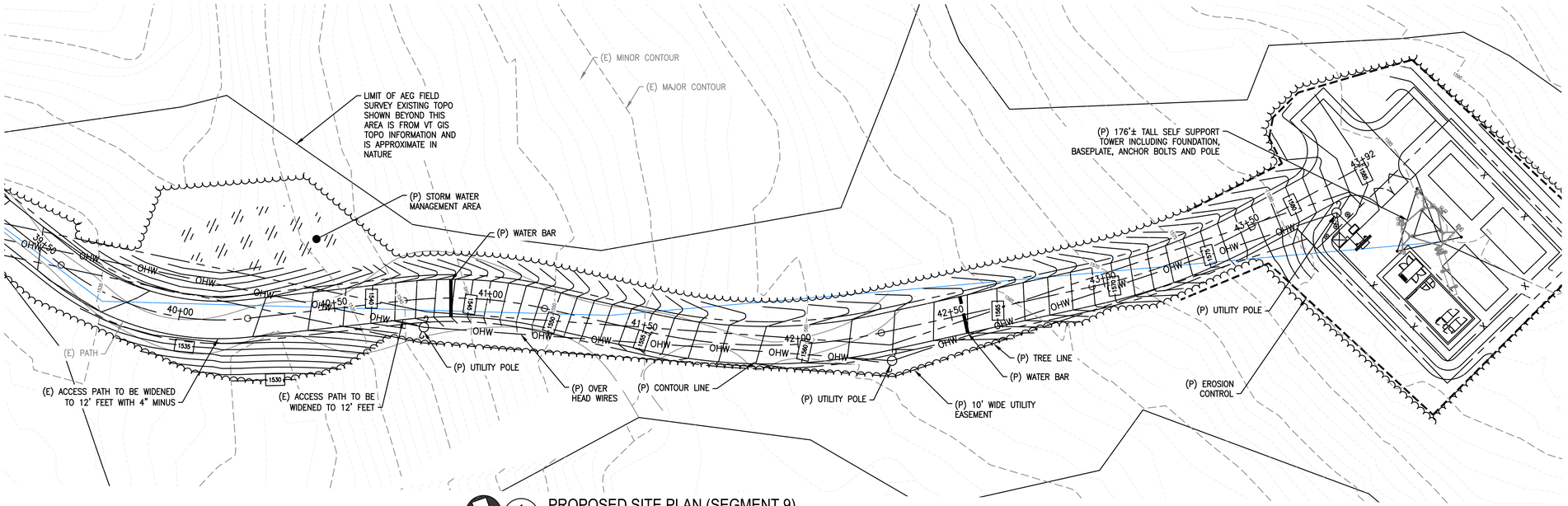
WINDSOR COUNTY

SHEET TITLE

ENLARGED PLAN & PROFILE (SEGMENT 9)

SHEET NUMBER

Z-2.8



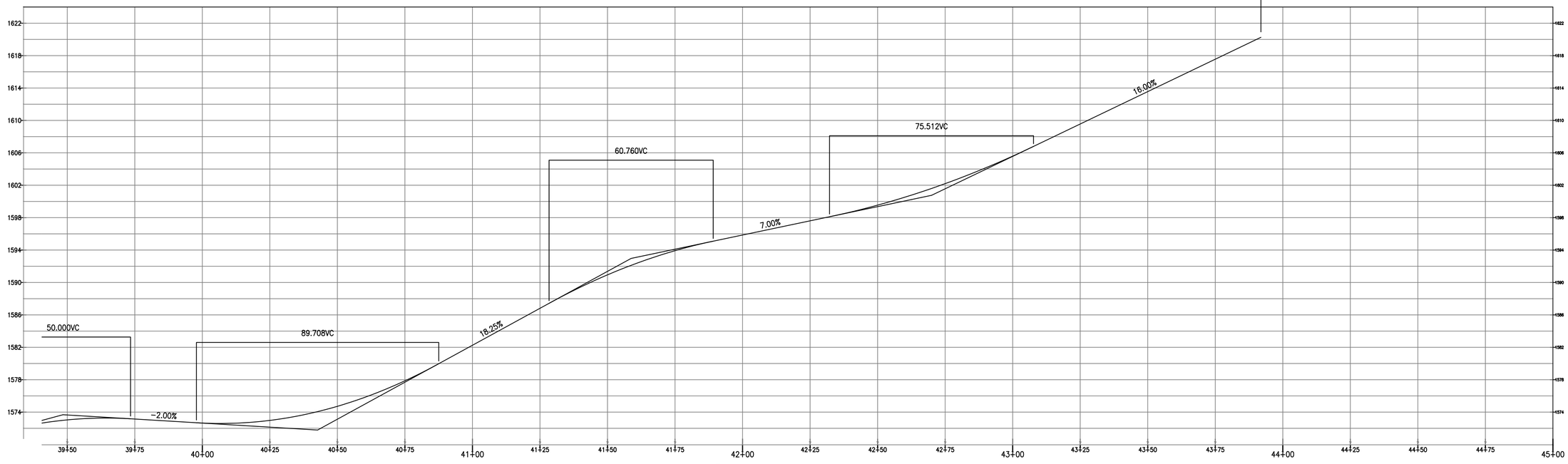
NORTH

1 / Z-2.9 PROPOSED SITE PLAN (SEGMENT 9)

SCALE: 22x34: 1" = 20'
11x17: 1" = 40'

0 20' 40' 60'

GRADE BREAK STA = 43+91.89
ELEV = 1620.265



2 / Z-2.9 PROFILE VIEW (SEGMENT 9)

SCALE: 22x34: 1" = 20'
11x17: 1" = 40'

0 20' 40' 60'

LEGEND

- PROPERTY LINE
- ZONING SETBACK LINE
- ABUTTING PROPERTY LINE
- EXIST. R.O.W. LAYOUT
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- PROP. CHAIN LINK FENCE
- EROSION CONTROL BARRIER
- EXIST. EDGE OF TREE CANOPY
- PROP. EDGE OF TREE CANOPY
- WETLAND BOUNDARY & FLAG
- WETLAND SETBACK LINE
- 290 (E) MAJOR CONTOUR
- 291 (E) MINOR CONTOUR
- GAS (E) U/G GAS MAIN (APPROX.)
- OHW (E) OVERHEAD UTILITY WIRES
- E (P) ELECTRICAL UTILITY CONDUIT
- T (P) TELCO/DATA UTILITY CONDUIT
- 290 (P) CONTOUR

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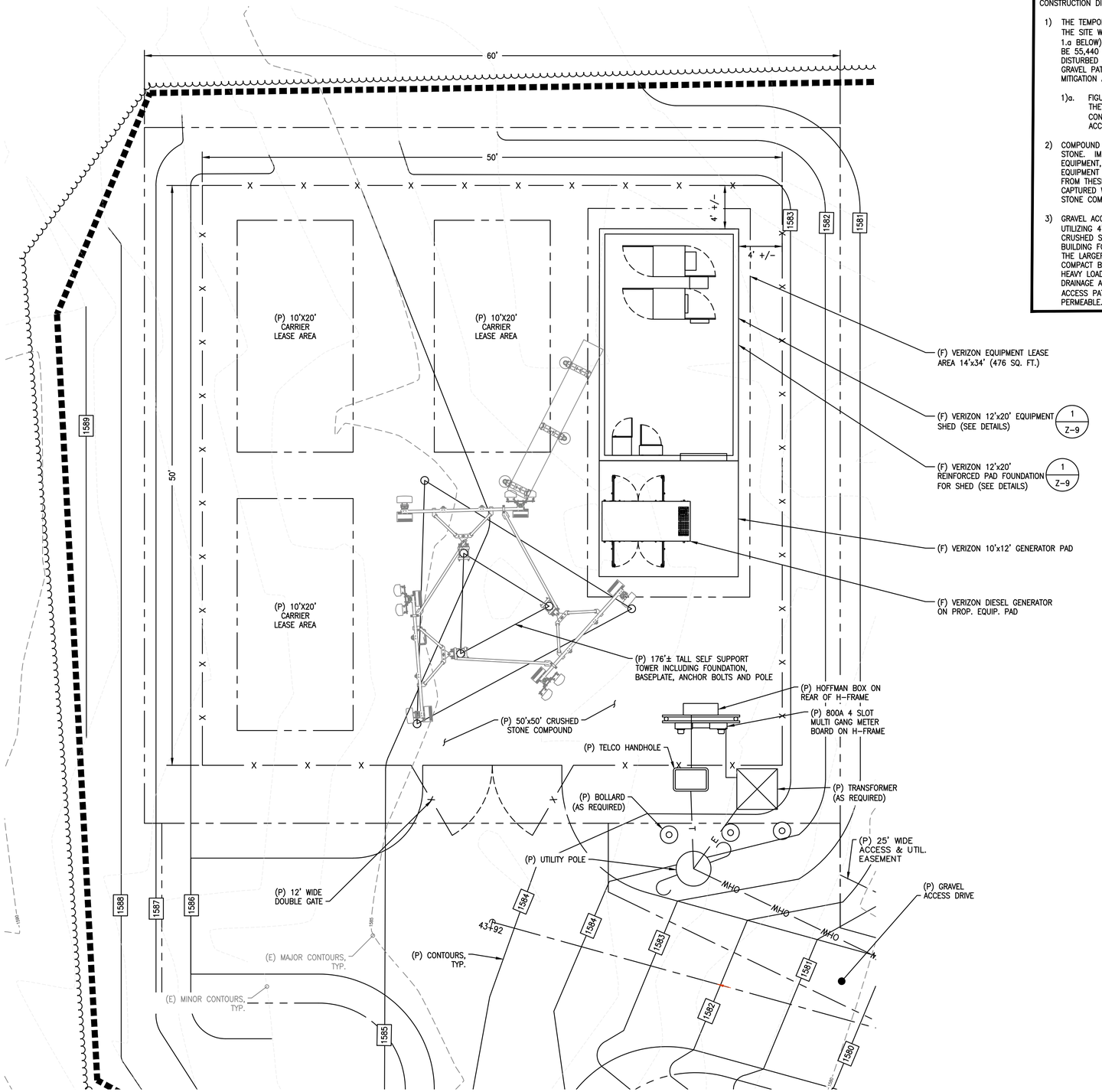
ROCHESTER, VT 05767
WINDSOR COUNTY

SHEET TITLE

ENLARGED PLAN & PROFILE (SEGMENT 9)

SHEET NUMBER

Z-2.9



CONSTRUCTION DISTURBANCE NOTES:

1) THE TEMPORARY DISTURBANCE/ LIMIT OF CLEARING ON THE SITE WILL BE 122,500 SF OR 2.80 ACRES (SEE 1.a BELOW) WHILE THE PERMANENT DISTURBANCE WILL BE 55,440 SF OR 1.27 ACRES. THE PERMANENT DISTURBED AREA ARE LIMITED TO THE PROPOSED GRAVEL PATH, FENCED COMPOUND AREA, AND RUNOFF MITIGATION AREA.

   1)a. FIGURES ABOVE ARE VERY CONSERVATIVE AS THEY DO NOT TAKE INTO CONSIDERATION/REMOVE/ACCOUNT FOR EXISTING ACCESS PATH WIDTH AND TREE CLEARED AREAS.

2) COMPOUND WILL BE SURFACED IN 4" OF CRUSHED STONE. IMPERVIOUS AREAS DUE TO CARRIER PADS, EQUIPMENT, TOWER, TRANSFORMER AND ASSOCIATED EQUIPMENT WILL BE BELOW 2,500SFT. ANY RUNNOFF FROM THESE PROPOSED IMPERVIOUS AREAS WILL BE CAPTURED WITHIN THE VOID AREAS OF THE CRUSHED STONE COMPOUND AND INFILTRATE.

3) GRAVEL ACCESS PATH IS TO BE CONSTRUCTED UTILIZING 4" MINUS CRUSHED STONE. THIS TYPE OF CRUSHED STONE IS UTILIZED AS A BASE MATERIAL FOR BUILDING FOUNDATIONS, ROADWAYS AND RAILROADS. THE LARGER PARTICLE SIZES PROVIDE A STABLE AND COMPACT BASE THAT IS CAPABLE OF WITHSTANDING HEAVY LOADS AS WELL AS PROVIDE FOR EXCELLENT DRAINAGE AND INFILTRATION CAPABILITY. GRAVEL ACCESS PATH IS DESIGNED/INTENDED TO BE PERMEABLE.

LEGEND

- PROPERTY LINE
- ZONING SETBACK LINE
- ABUTTING PROPERTY LINE
- EXIST. R.O.W. LAYOUT
- PROP. EASEMENT/LEASE AREA
- EXIST. CHAIN LINK FENCE
- PROP. CHAIN LINK FENCE
- EROSION CONTROL BARRIER
- EXIST. EDGE OF TREE CANOPY
- PROP. EDGE OF TREE CANOPY
- WETLAND BOUNDARY & FLAG
- WETLAND SETBACK LINE
- (E) MAJOR CONTOUR
- (E) MINOR CONTOUR
- (E) U/G GAS MAIN (APPROX.)
- (E) OVERHEAD UTILITY WIRES
- (P) ELECTRICAL UTILITY CONDUIT
- (P) TELCO/DATA UTILITY CONDUIT

NOTES:

1) DUE TO THE TYPE OF CONSTRUCTION AND STEEP GRADES ACCESS IS INTENDED TO BE PRIVATE AND LIMITED TO APPROPRIATE VEHICLES AND QUALIFIED TECHNICIANS/CONTRACTORS ONLY. THE INTENT OF THIS PRIVATE GRAVEL PATH IS TO PROVIDE ACCESS TO THE TOWER COMPOUND LOCATION VIA ALL TERRAIN VEHICLES (ATV), OFF-ROAD VEHICLES, CONSTRUCTION VEHICLES, 4X4 VEHICLES, AND SNOWMOBILES. THIS ACCESS PATH IS NOT INTENDED FOR NORMAL PUBLIC/VEHICULAR TRAFFIC AND/OR (2) WHEEL DRIVE VEHICLES AND SHOULD BE RESTRICTED AS SUCH BY OWNER.

2) GRAVEL ACCESS PATH WILL NOT BE PLOWED DURING WINTER. SHOULD ACCESS BE REQUIRED, SNOWMOBILE AND/OR TRACKED VEHICLES WILL BE UTILIZED.

3) GRAVEL ACCESS PATH WILL BE MAINTAINED EACH SPRING AND FALL BY:
   3)1) CLEARING ALL DEBRIS, INCLUDING BY NOT LIMITED TO LEAVES, TREES BRANCHES AND OTHER OBJECTS THAT WOULD LIMIT THE GRAVELS ABILITY TO INFILTRATE.
   3)2) INSPECT AND MAINTAIN WATER BARS / STORMWATER DEVICES TWICE A YEAR, AND AFTER ALL MAJOR RAIN EVENTS.

4) SPEED LIMITED TO 10 MPH.

5) IT SHOULD BE NOTED THAT THE EXISTING ACCESS PATH HAS HISTORICALLY BEEN UTILIZED AS LOGGING PATH/ACCESS/ROAD. THIS PATH WILL BE UTILIZED FOR ACCESS TO THE TELECOMMUNICATIONS COMPOUND IN ORDER TO REDUCE PERMANENT DISTURBANCE AREAS. IT IS EXPECTED THAT THIS PRIVATE GRAVEL PATH WILL CONTINUE TO BE UTILIZED BY LOGGING OPERATIONS IN THE FUTURE. INSPECTIONS SHOULD BE COMPLETED PRIOR TO LOGGING OPERATIONS AS WELL AS UPON COMPLETION. ANY DEFICIENCIES ARE TO BE REPAIRED BY THE LOGGING COMPANY.

Vertex Towers LLC
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2 COMMERCIAL STREET
SHARON, MA 02067

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VT-VT-0111A

ROCHESTER

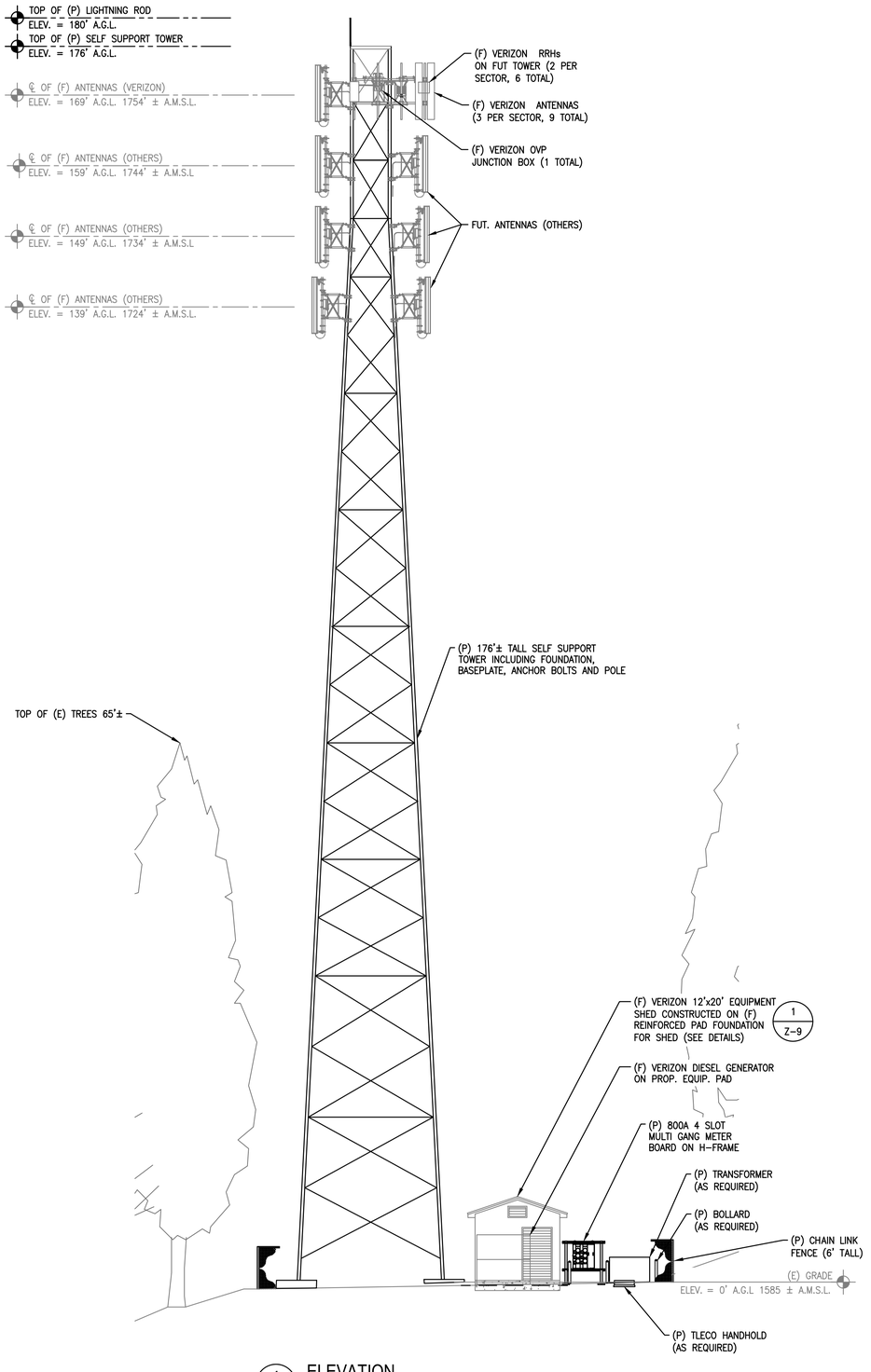
1030 VT ROUTE 100
ROCHESTER, VT 05767
WINDSOR COUNTY

SHEET TITLE

COMPOUND PLAN

SHEET NUMBER

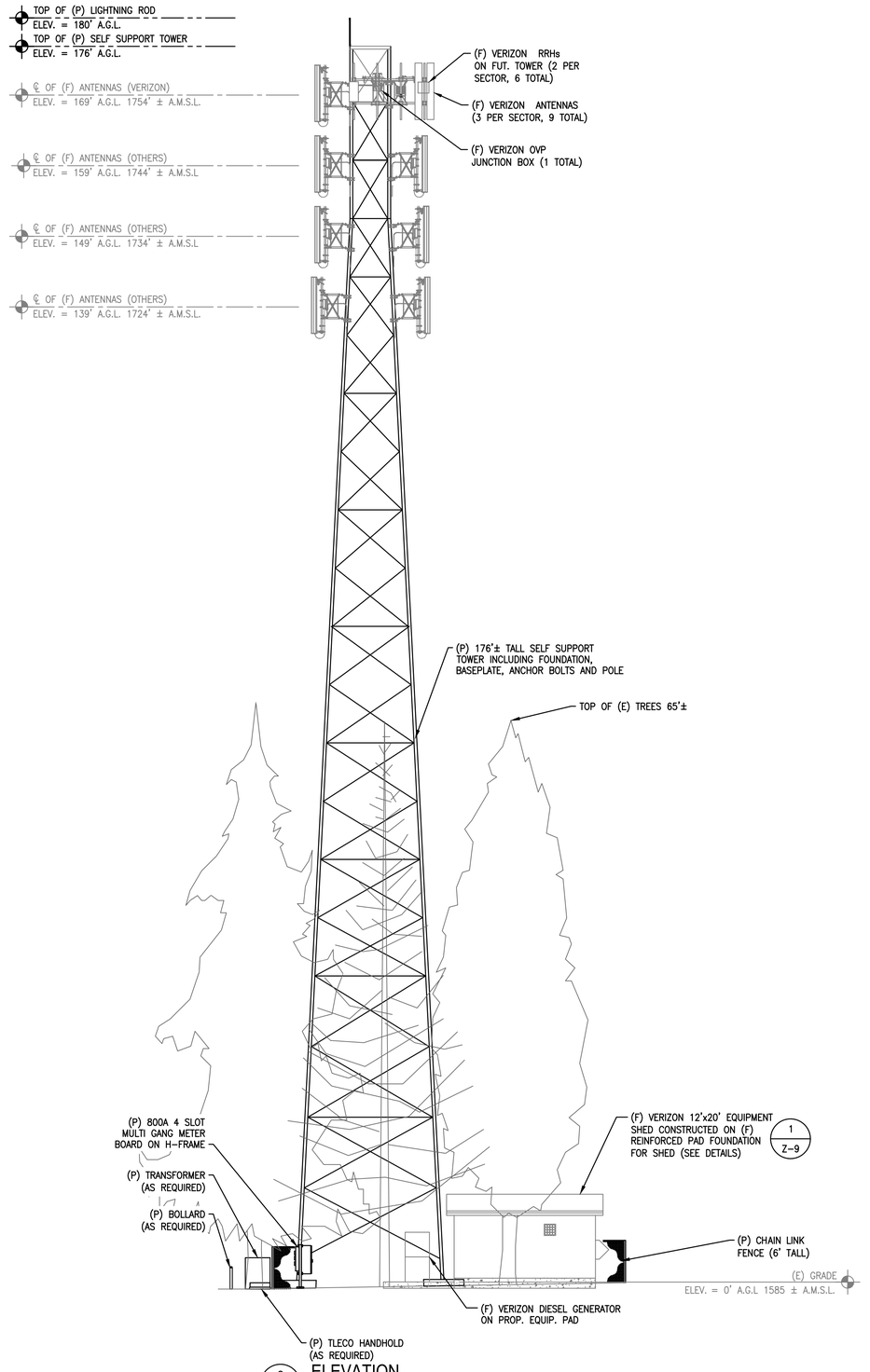
Z-3



1 Z-4 ELEVATION

SCALE: 22x34: 1"=10'
11x17: 1"=20'

0 10' 20' 30'



2 Z-4 ELEVATION

SCALE: 22x34: 1"=10'
11x17: 1"=20'

0 10' 20' 30'

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ROCHESTER

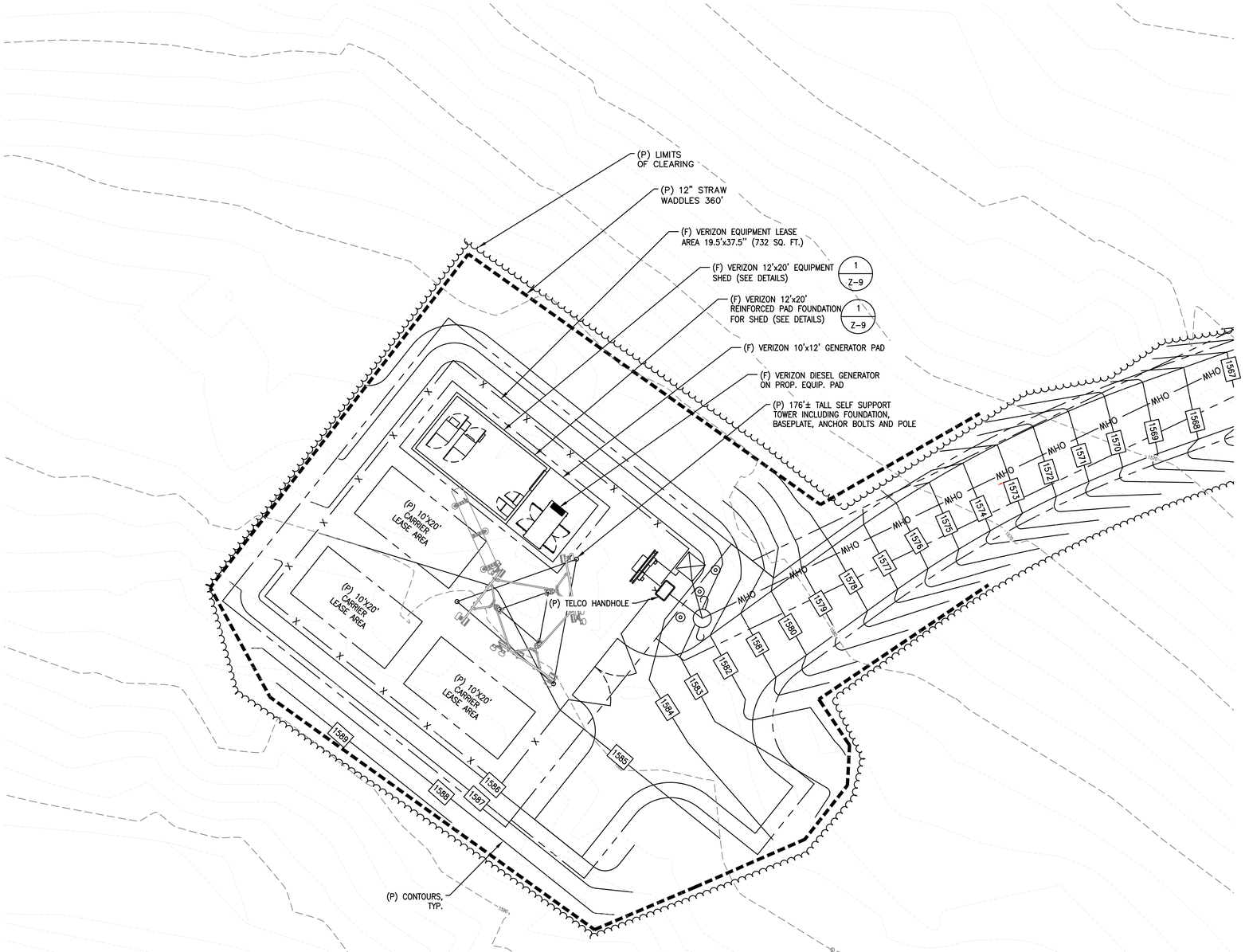
1030 VT ROUTE 100
ROCHESTER, VT 05767
WINDSOR COUNTY

SHEET TITLE

COMPOUND TOWER ELEVATIONS

SHEET NUMBER

Z-4



1 Z-5 EROSION CONTROL PLAN

SCALE: 22x34: 1"=6'
11x17: 1"=12'

0 6' 12' 18'

LEGEND

- PROPERTY LINE
- ZONING SETBACK LINE
- ABUTTING PROPERTY LINE
- EXIST. R.O.W. LAYOUT
- PROP. EASEMENT/LEASE AREA
- EXIST. CHAIN LINK FENCE
- PROP. CHAIN LINK FENCE
- EROSION CONTROL BARRIER
- EXIST. EDGE OF TREE CANOPY
- PROP. EDGE OF TREE CANOPY
- WETLAND BOUNDARY & FLAG
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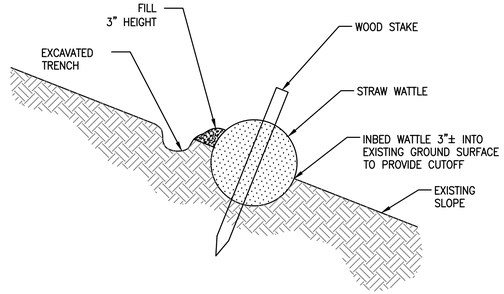
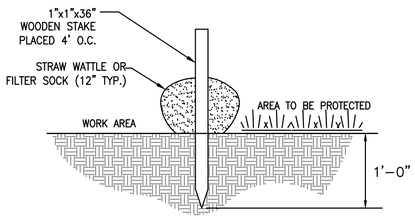
- (P) TELCO/DATA UTILITY CONDUIT
- (P) CONTOUR





2 Z-5 EROSION CONTROL BARRIER DETAIL

SCALE: NTS

EROSION AND SEDIMENT CONTROL NOTES:

1. PRIOR TO STARTING ANY WORK ON THE SITE, THE CONTRACTOR SHALL NOTIFY APPROPRIATE AGENCIES AND SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND AS IDENTIFIED IN FEDERAL, STATE, AND LOCAL APPROVAL DOCUMENTS PERTAINING TO THIS PROJECT.
2. CONTRACTOR SHALL INSPECT AND MAINTAIN EROSION CONRTOL MEASURES, AND REMOVE SEDIMENT THEREFROM ON A WEEKLY BASIS AND WITHIN TWELVE HOURS AFTER EACH STORM EVENT AND DISPOSE OF SEDIMENTS IN AN UPLAND AREA SUCH THAT THEY DO NOT ENCUMBER OTHER DRAINAGE STRUCTURES AND PROTECTED AREAS.
3. CONTRACTOR SHALL BE FULLY RESPONSIBLE TO CONTROL CONSTRUCTION SUCH THAT SEDIMENTATION SHALL NOT AFFECT REGULATORY PROTECTED AREAS, WETHER SUCH SEDIMENTATION IS CAUSED BY WATER, WIND, OR DIRECT DEPOSIT.
4. CONTRACTOR SHALL PERFORM CONSTRUCTION SEQUENCING SUCH THAT EARTH MATERIALS ARE EXPOSED FOR A MINIMUM OF TIME BEFORE THEY ARE COVERED, SEEDED, OR OTHERWISE STABILIZED TO PREVENT EROSION.
5. UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, CONTRACTOR SHALL REMOVE AND DISPOSE OF EROSION CONTROL MEASURES AND CLEAN SEDIMENT AND DEBRIS FROM ENTIRE DRAINAGE SYSTEM.

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ROCHESTER

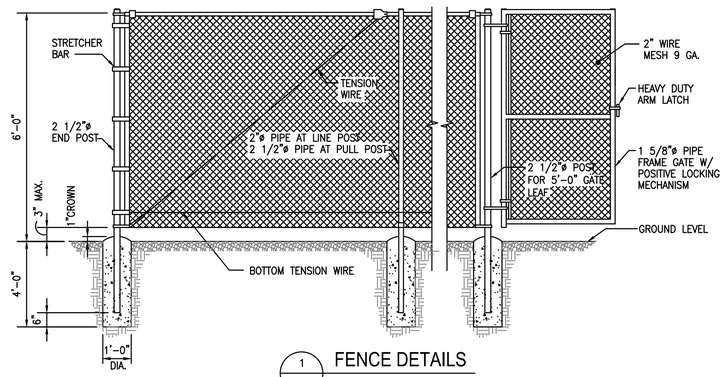
1030 VT ROUTE 100
ROCHESTER, VT 05767
WINDSOR COUNTY

SHEET TITLE

EROSION CONTROL PLAN

SHEET NUMBER

Z-5

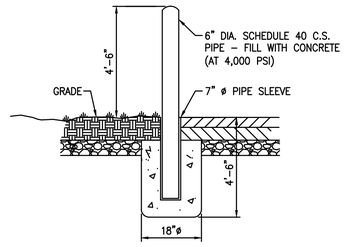


1 / Z-6 FENCE DETAILS

SCALE: N.T.S.

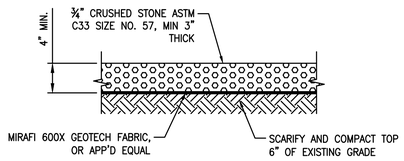
FENCE NOTES:

1. INSTALL FENCING PER ASTM F-567, SWING GATE PER ASTM F-900.
2. ALL END POSTS, LINE POSTS, PULL POSTS, POSTS FOR GATE LEAF, PIPES FOR GATE FRAME AND TOP RAILS SHALL BE SCHEDULE 40 PIPE PER ASTM F-1083.
3. FABRIC SHALL BE 12 GA. CORE WIRE SIZE 2" MESH CONFORMING TO ASTM A-392.
4. TENSION WIRE SHALL BE 7 GA. GALV. STEEL.
5. TIE WIRE SHALL BE 11 GA. GALV. STEEL (MIN.) AT POSTS AND RAILS. A SINGLE WRAP FABRIC TIE AT TENSION WIRE BY HOG RINGS SPACED MAX. OF 24" INTERVALS
6. BARBED WIRE SHALL BE DOUBLE STRAND 12 1/2" O.D. TWISTED WIRE TO MATCH W/FABRIC 14 GA., 4 PT. BARBS SPACES AT APPROXIMATELY 5" O.C.
7. COMPLY WITH LOCAL ORDINANCES OF BARBED WIRE PERMIT REQUIREMENTS, IF REQUIRED.
8. STEEL FENCE SYSTEM SHALL INCLUDE THE FENCE POSTS, FABRIC, GATE SYSTEM AND ALL NECESSARY ERECTION ACCESSORIES, FITTINGS AND FASTENINGS. ALL FENCE SYSTEM COMPONENTS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153. GATES SHALL BE SWING GATES WITH 5'-0" LEAFS. REFER TO TYPICAL FENCE DETAIL FOR ADDITIONAL INFORMATION. INSTALL FENCE AFTER CONCRETE HAS ATTAINED 75% OF 28 DAY DESIGN STRENGTH.
9. SCREENING SLATS SHALL BE INSTALLED ON PROPOSED FENCING (COLOR: GREEN OR AS DET'S BY PROJECT OWNER)



2 / Z-6 BOLLARD DETAIL

SCALE: N.T.S.



3 / Z-6 GRAVEL COMPOUND DETAIL

SCALE: N.T.S.

CRUSHED ROCK	
SIEVE	% PASSING BY WEIGHT
4"	100
3-1/2"	80-97
2-1/2"	70-95
1-1/2"	50-80
3/4"	30-60

4 / Z-6 GRAVEL ACCESS CROSS SECTION

SCALE: NTS

5 / Z-6 TRENCH DETAIL AT ACCESS CROSSING

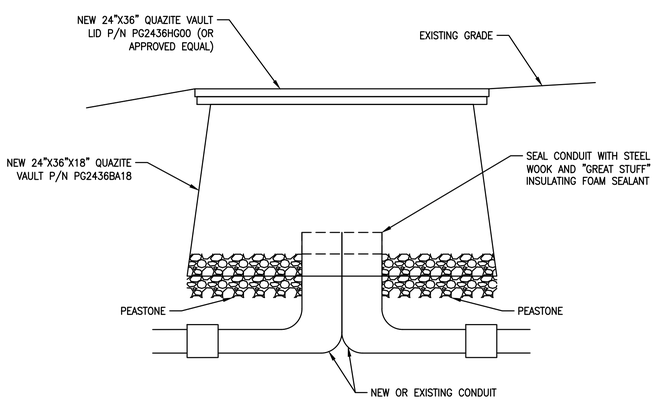
SCALE: N.T.S.

SPACING NEEDED BETWEEN WATER BARS	
SLOPE	DIVERSION SPACING (FT)
< 5%	NONE
5%-10%	200
10%-20%	150
20%-35%	100

WATER BAR OR WATER DEFLECTOR MAY BE USED INTERCHANGEABLY BASED UPON FIELD CONDITIONS

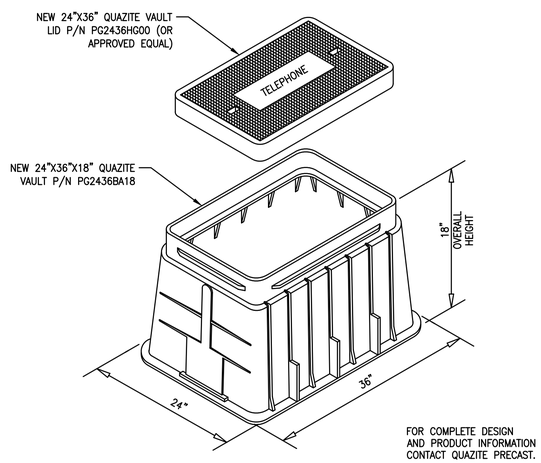
6 / Z-6 WATER BAR DETAIL

SCALE: N.T.S.



7 / Z-6 TELCO HANDHOLE WITH LID DETAIL

SCALE: N.T.S.



8 / Z-6 TELCO HANDHOLE ISOMETRIC

SCALE: N.T.S.

9 / Z-6 POLE CULVERT DETAIL

SCALE: N.T.S.

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WINDSOR COUNTY

SHEET TITLE

DETAILS

SHEET NUMBER

Z-6

The Low Risk Site Handbook
for
Erosion Prevention and Sediment Control

VERMONT
ENVIRONMENTAL CONSERVATION
August 2006

The Low Risk Site Handbook for Erosion Prevention and Sediment Control

Any construction activity that disturbs 1 or more acres of land, or is part of a larger development plan that will disturb 1 or more acres, requires a Vermont state permit for stormwater discharges from construction sites.

Construction General Permit 3-9020 guides an applicant in the determination of the potential risk to water quality from the construction activity and categorizes the applicant's activity as Low Risk, Moderate Risk, or that which requires an Individual Permit.

The standards in this handbook serve as the required Erosion Prevention and Sediment Control Plan for construction sites determined to be "Low Risk" under GP-3-9020.

Contact Information

Vermont Department of Environmental Conservation
Watershed Management Division
One National Life Drive – Main Building - 2nd Floor
Montpelier, VT 05620-3522
Tel: 802-828-1535
Fax: 802-828-1544
dec.vermont.gov/watershed/stormwater

Table of Contents

UPDATE

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 chemically-bound joints in the supporting mesh.

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

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

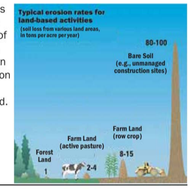
Section 1
Introduction

What is erosion prevention and sediment control?

Sediment washing into streams is one of the largest water quality problems in Vermont. Sediment can kill or weaken fish and other organisms and adversely impact aquatic habitat.

On most construction sites, vegetation that holds the soil in place and protects it from erosive forces of rain and runoff is removed, leaving large areas of soil exposed to the elements. During rainfall or snowmelt, the exposed soil may be easily eroded and transported to nearby streams, lakes, or wetlands.

To prevent this from happening, a small number of simple practices to prevent erosion and contain soil on the construction site must be used.



Do I need a permit?

Any construction activity that disturbs 1 or more acres of land, or is part of a larger development plan that will disturb 1 or more acres, requires a Vermont state permit for stormwater discharges from construction sites.

Application Process

1. Obtain a copy of the permit and determine the Risk Category of the proposed project. The permit is available online at: dec.vermont.gov/watershed/stormwater
2. Submit the Notice of Intent (NOI) form, notifying the Department of your intent to begin construction. **Submit the NOI to DEC at least 60 days before you plan to begin construction to allow sufficient time for processing.*
3. Upon receipt of written authorization from DEC, you are covered under the permit and may begin construction.
4. If your project is determined to be "Low Risk", you must follow this handbook for erosion prevention and sediment control on your construction site.
5. If your site is not classified as Low Risk, then you must follow the Department guidance in GP 3-9020 for Moderate Risk activities or those requiring an Individual Permit.

Section 2
The Requirements

1. Mark Site Boundaries

Purpose:

Mark the site boundaries to identify the limits of construction. Delineating your site will help to limit the area of disturbance, preserve existing vegetation and limit erosion potential on the site.

Requirements:

You must physically mark the limits of construction.

How to comply:

Before beginning construction, walk the site boundaries and flag trees, post signs, or install orange safety fence.

Fence is required on any boundary within 50 feet of a stream, lake, pond or wetland, unless the area is already developed (existing roads, buildings, etc.)

Properly placed barrier tape marks the boundaries and limits of construction on this site.

2. Limit Disturbance Area

Purpose:

Limit the amount of soil exposed at one time to reduce the potential erosion on site.

Requirements:

The permitted disturbance area is specified on the site's written authorization to discharge. Only the acreage listed on the authorization form may be exposed at any given time.

How to comply:

Plan ahead and phase the construction activities to ensure that no more than the permitted acreage is disturbed at one time.

Be sure to properly stabilize exposed soil with seed and mulch or erosion control matting before beginning work in a new section of the site.

This residential subdivision is being constructed in phases. To limit the total disturbance area, only a few home sites are under construction at one time.

3. Stabilize Construction Entrance

Purpose:

A stabilized construction entrance helps remove mud from vehicle wheels to prevent tracking onto streets.

Requirements:

If there will be any vehicle traffic off of the construction site, you must install a stabilized construction entrance before construction begins.

Construction entrance detail. Entrance/exit pad must keep mud from tracking onto both paved and dirt roads.

How to install:

Rock Size: Use a mix of 1 to 4 inch stone
Depth: 8 inches minimum
Width: 12 feet minimum
Length: 40 feet minimum (or length of driveway, if shorter)
Geotextile: Place filter cloth under entire gravel bed

Maintenance:

Redress with clean stone as required to keep sediment from tracking onto the street.

Good stabilized construction entrance. Adequate width to accommodate construction traffic and prevent mud tracking onto neighboring streets. Ensure that the pad is 8 inches deep and 40 feet long.

Poor construction exit. Rock pad is poorly constructed; rock is too small. Use filter fabric under 1 - 4 inch rock. No mud should be tracked onto roads.

Rock sizing and placement look OK for residential site, and very little mud appears on the road. The pad should be at least 8 inches thick and 12 feet wide. Ensure that pad is used as the entrance and exit points - note track marks near curb. Entire area needs seed and mulch.

Rock pad was installed properly with right sized rock, but lack of filter fabric underliner is causing rock to spread and sink into the soil. Note tracking of mud onto road. Mud tracked on roadways violates the permit requirements and is a potential legal liability.

4. Install Silt Fence

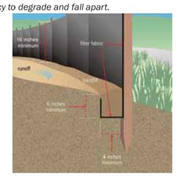
Purpose:

Silt fences intercept runoff and allow suspended sediment to settle out.

Requirements:

Silt fence must be installed:
- on the downhill side of the construction activities
- between any ditch, swale, storm sewer inlet, or waters of the State and the disturbed soil

** Hay bales must not be used as sediment barriers due to their tendency to degrade and fall apart.*



Remember: stakes go on the downhill side. Dig trench first, install fence in downhill side of trench, tuck fabric into trench, then backfill on the uphill side (the side toward the bare soil area).

Where to place:

- Place silt fence on the downhill edge of bare soil. At the bottom of slopes, place fence 10 feet downhill from the end of the slope (if space is available).
- Ensure the silt fence catches all runoff from bare soil.
- Maximum drainage area is ¼ acre for 100 feet of silt fence.
- Install silt fence across the slope (not up and down hills!)
- Install multiple rows of silt fence on long hills to break up flow.
- Do not install silt fence across ditches, channels, or streams or in stream buffers.

How to install silt fence:

- Dig a trench 6 inches deep across the slope
- Unroll silt fence along the trench
- Ensure stakes are on the downhill side of the fence
- Join fencing by rolling the end stakes together
- Drive stakes in against downhill side of trench
- Drive stakes until 16 inches of fabric is in trench
- Push fabric into trench; spread along bottom
- Fill trench with soil and pack down

Maintenance:

- Remove accumulated sediment before it is halfway up the fence.
- Ensure that silt fence is trenched in ground and there are no gaps.

Very good use of continuous "super" (reinforced) silt fence. Note that wire fencing is installed between the filter fabric and the posts.

Good use of J-hook in silt fence to trap sediment in water running along the fence. Sediment must be removed before it reaches halfway to top of fence.

Very good installation of multiple silt fences on long slope. Turn ends of fencing uphill to prevent bypass. Leave silt fences up until grass is well established on all areas of the slope. Re-seed bare areas as soon as possible. Remove or spread accumulated sediment and remove silt fence after all grass is up.

Poor installation of silt fencing. Silt fence must be trenched in along bottom. Hay bales are not approved as sediment barriers.

Vertex Towers LLC
VERTEX TOWERS LLC
2 COMMERCIAL STREET
SHARON, MA 02067

AEG ADVANCED ENGINEERING GROUP, P.C.
Civil Engineering - Site Development
Surveying - Telecommunications
500 North Broadway
East Providence, RI 02914
Tel: (401) 354-2403
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5. Divert Upland Runoff

Purpose:

Diversion berms intercept runoff from above the construction site and direct it around the disturbed area. This prevents "clean" water from becoming muddied with soil from the construction site.

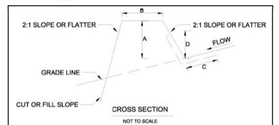
Requirements:

If stormwater runs onto your site from upslope areas and your site meets the following two conditions, you must install a diversion berm before disturbing any soil.

1. You plan to have one or more acres of soil exposed at any one time (excluding roads).
2. Average slope of the disturbed area is 20% or steeper.*

Berms and ditches divert clean upland runoff around construction sites and reduce erosion and sedimentation problems. Stabilize berms and ditches after construction.

How to install:



A - Berm Height: 1.5 feet
B - Berm Width: 2 feet
Side slopes: 2:1 or flatter *
C - Flow width: 4 feet
D - Flow depth: 8 inches

1. Compact the berm with a shovel or earth-moving equipment.
2. Seed and mulch berm or cover with erosion control matting immediately after installation.
3. Stabilize the flow channel with seed and straw mulch or erosion control matting. Line the channel with 4 inch stone if the channel slope is greater than 20%*.
4. Ensure the berm drains to an outlet stabilized with riprap. Ensure that there is no erosion at the outlet.
5. The diversion berm shall remain in place until the disturbed areas are completely stabilized.

* See page 39 for slope calculations.

Good construction, seeding, and stabilization of diversion berm. Note that diversion ditch is lined with grass on flatter part of slope, and with rock on steeper part.

Well built vegetated berm diverting runoff. Diversion berms and ditches should be seeded after construction. Use matting if slopes are steep.

Good installation of rock-lined berm to divert rain runoff around residential construction site on steep slope near a river. Diversion ditches can be lined with grass if channel slopes are 5% or less, and with 4 inch stone if they are steeper.

6. Slow Down Channelized Runoff

Purpose:

Stone check dams reduce erosion in drainage channels by slowing down the stormwater flow.

Requirements:

If there is a concentrated flow (e.g. in a ditch or channel) of stormwater on your site, then you must install stone check dams. Hay bales must not be used as check dams.

How to install:

Height: No greater than 2 feet. Center of dam should be 9 inches lower than the side elevation
Side slopes: 2:1 or flatter (see p.39 for slope calculation)
Stone size: Use a mixture of 2 to 9 inch stone
Width: Dams should span the width of the channel and extend up the sides of the banks
Spacing: Space the dams so that the bottom (toe) of the upstream dam is at the elevation of the top (crest) of the downstream dam. This spacing is equal to the height of the check dam divided by the channel slope.

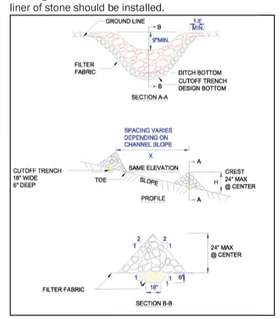
Spacing (in feet) = Height of check dam (in feet) / Slope in channel (ft/ft)

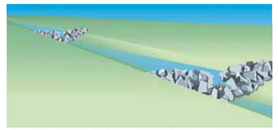
Maintenance:

Remove sediment accumulated behind the dam

as needed to allow channel to drain through the stone check dam and prevent large flows from carrying sediment over the dam.

If significant erosion occurs between check dams, a liner of stone should be installed.





Rock check dams must be installed before excavation or fill activities begin. See "How to install" for spacing directions.

Good installation of temporary rock check dams. The check dams should extend up the sides of the banks. Middle section should be lower than the sides. Clean out sediment as it accumulates. Remove check dams after site and channel are stabilized with vegetation.

Hay bales must not be used as check dams due to their high failure rates.

7. Construct Permanent Controls

Purpose:

Permanent stormwater treatment practices are constructed to maintain water quality, ensure groundwater flows, and prevent downstream flooding. Practices include detention ponds and wetlands, infiltration basins, and stormwater filters.

Requirements:

If the total impervious* area on your site, or within the common plan of development, will be 1 or more acres, you must apply for a State Stormwater Discharge Permit and construct permanent stormwater treatment practices on your site. These practices must be installed before the construction of any impervious surfaces.

How to comply:

Contact the Vermont Stormwater Program and follow the requirements in the Vermont Stormwater Management Manual.

The Stormwater Management Manual is available at: dec.vermont.gov/watershed/stormwater

*An impervious suface 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.

This wet pond is designed to treat stormwater runoff, recharge groundwater, regulate the flow of water into nearby streams, and prevent downstream flooding.

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

8. Stabilize Exposed Soil

Purpose:

Seeding and mulching, applying erosion control matting, and hydroseeding are all methods to stabilize exposed soil. Mulches and matting protect the soil surface while grass is establishing.

Requirements:

All areas of disturbance must have temporary or permanent stabilization within 7, 14, or 21 days of initial disturbance, as stated in the project authorization. After this time, any disturbance in the area must be stabilized at the end of each work day.

The following exceptions apply:

- Stabilization is not required if earthwork is to continue in the area within the next 24 hours and there is no precipitation forecast for the next 24 hours.
- 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).

All areas of disturbance must have permanent stabilization within 48 hours of reaching final grade (See page 33).

How to comply:

Prepare bare soil for seeding by grading the top 3 to 6 inches of soil and removing any large rocks or debris.

Seeding Rates for Temporary Stabilization
April 15 - Sept. 15 — Ryegrass (annual or perennial: 20 lbs/acre)
Sept. 15 - April 15 — Winter rye: 120 lbs/acre

Seeding Rates for Final Stabilization:

Choose from:	Variety	lbs./acre	lbs./1000 sq.ft.
Birdsfoot trefoil	Empire/Pardee	5[1]	0.10
or			
Common white clover	Common	8	0.20
plus			
Tall Fescue	KY-31/Rebel	10	0.25
plus			
Redtop	Common	2	0.05
or			
Ryegrass (perennial)	Pennfine/Linn	5	0.10

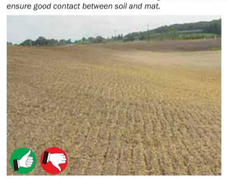
[1] Mix 2.5 each of Empire and Pardee OR 2.5 lbs. of Birdsfoot and 2.5 lbs. white clover per acre.

Mulching Rates
April 15 - Sept.15 – Hay or Straw: 1 inch deep (1-2 bales/1000 s.f.)
Sept.15 - April 15 – Hay or Straw: 2 in. deep (2-4 bales/1000 s.f.)

Erosion Control Matting
As per manufacturer's instructions

Hydroseed
As 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.



Good tracking up and down slope. Tracking slows down runoff and promotes infiltration. More mulch is needed.

Hydroseeding exposed soil is a good option for stabilizing large areas. Hydroseed is a mixture of seed, fertilizer, water and a tackifier to hold the seed in place before it germinates.

Excellent application of hay mulch. Good mulch cover and sediment barrier around soil stockpile.

9. Winter Stabilization

Purpose:

Managing construction sites to minimize erosion and prevent sediment loading of waters is a year-round challenge. In Vermont, this challenge becomes even greater during the late fall, winter, and early spring months.

'Winter construction' as discussed here, describes the period between October 15 and April 15, when erosion prevention and sediment control is significantly more difficult.

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.

Requirements for Winter Shutdown:

For those projects that will complete earth disturbance activities prior to the winter period (October 15), the following requirements must be adhered to:

1. For areas to be stabilized by vegetation, seeding shall be completed no later than September 15 to ensure adequate growth and cover.
2. If seeding is not completed by September 15, additional non-vegetative protection must be used to

Stabilization and seeding of slopes before winter will reduce or eliminate erosion in the spring. The grass on this slope is holding the soil in place and promoting infiltration of the melting snow.

stabilize the site for the winter period. This includes use of Erosion Control Matting or netting of a heavy mulch layer. Seeding with winter rye is recommended to allow for early germination during wet spring conditions.

3. Where mulch is specified, apply roughly 2 inches with an 80-90% cover. Mulch should be tracked in or stabilized with netting in open areas vulnerable to wind.

Requirements for Winter Construction

If construction activities involving earth disturbance continue past October 15 or begin before April 15, the following requirements must be adhered to:

1. Enlarged access points, stabilized to provide for snow stockpiling.
2. Limits of disturbance moved or replaced to reflect boundary of winter work.
3. A snow management plan prepared 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.
4. A minimum 25 foot buffer shall be maintained from perimeter controls such as silt fence.
5. In areas of disturbance that drain to a water body within 100 feet, two rows of silt fence must be installed along the contour.
6. Drainage structures must be kept open and free of snow and ice dams.

7. Silt fence and other practices requiring earth disturbance must be installed ahead of frozen ground.
8. Mulch used for temporary stabilization must be applied at double the standard rate, or a minimum of 3 inches with an 80-90% cover.
9. To ensure cover of disturbed soil in advance of a melt event, areas of disturbed soil must be stabilized at the end of each work day, with the following exceptions:
   - If no precipitation within 24 hours is forecast and work will resume in the same disturbed area within 24 hours, daily stabilization is not necessary.
   - Disturbed areas that collect and retain runoff, such as house foundations or open utility trenches.
10. Prior to stabilization, snow or ice must be removed to less than 1 inch thickness.
11. Use stone to stabilize areas such as the perimeter of buildings under construction or where construction vehicle traffic is anticipated. Stone paths should be 10–20 feet wide to accommodate vehicular traffic.

Vertex Towers LLC
VERTEX TOWERS LLC
2 COMMERCIAL STREET
SHARON, MA 02067

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Surveying - Telecommunications
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10. Stabilize Soil at Final Grade

Purpose:

Stabilizing the site with seed and mulch or erosion control matting when it reaches final grade is the best way to prevent erosion while construction continues.

Requirements:

Within 48 hours of final grading, the exposed soil must be seeded and mulched or covered with erosion control matting.

Lawn is fully established before construction is completed at this home site.

How to comply:

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.

For seeding and mulching rates, follow the specifications under Rule 8, "Stabilizing Exposed Soil".

Within 48 hours of final grading, erosion control matting and mulch have been applied.

11. Dewatering Activities

Purpose:

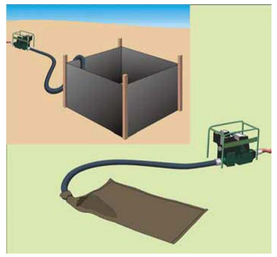
Treat water pumped from dewatering activities so that it is clear when leaving the construction site.

Requirements:

Water from dewatering activities that flows off of the construction site must be clear. Water must not be pumped into storm sewers, lakes, or wetlands unless the water is clear.

How to comply:

Using sock filters or sediment filter bags on dewatering discharge hoses or pipes, discharge water into silt fence enclosures installed in vegetated areas away from waterways. Remove accumulated sediment after the water has dispersed and stabilize the area with seed and mulch.



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

12. Inspect Your Site

Purpose:

Perform site inspections to ensure that all sediment and erosion control practices are functioning properly. Regular inspections and maintenance of practices will help to reduce costs and protect water quality.

Requirements:

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

In the event of a noticeable sediment discharge from the construction site, you must take immediate action to inspect and maintain existing erosion prevention and sediment control practices. Any visibly discolored stormwater runoff to waters of the State must be reported.

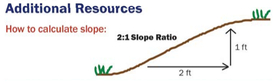
Forms for reporting discharges are available at:
dec.vermont.gov/watershed/stormwater

Example Site Inspection Form	Y	N
1. Boundary Limits		
• Site boundary markers are up and visible		
• Disturbance is only occurring within marked boundaries		
2. Limit Disturbance Area		
• Only the acreage listed on the *Authorization to Discharge* is disturbed at one time		
3. Construction Entrance		
• Off-site tracking of mud prevented		

Example Site Inspection Form	Y	N
4. Sediment Barriers		
• Silt fence is trenched into ground with no gaps		
• Accumulated sediment is less than ½ way up the fence		
5. Diversion Berms		
• All upland stormwater is diverted around the site		
6. Check Dams		
• Check dams are in place and stretch the width of the channel		
• Channels are stable with no erosion		
8. Stabilize Exposed Soil		
• Seed and mulch, and/or erosion control blankets are being used in accordance with the permit requirements		
9. Winter Stabilization		
• After September 15, all disturbed areas have been seeded and mulched to 3 inches deep, or covered in erosion control blankets.		
• For ongoing construction, exposed soil is mulched prior to forecasted rain events.		
10. Stabilize Soil at Final Grade		
• Within 48 hours of establishing final grade, soil is seeded and mulched or covered in erosion control matting		
Water flowing off the site		
• Water is free of sediment (water is clear)		

Section 3
Additional Resources

How to calculate slope:



Approximate Slope Conversions			
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)						
(w) x (l)	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

Acknowledgements
Design details and standards for sediment and erosion control practices have been adapted from the New York State Standards and Specifications for Erosion and Sediment Control. August 2005.

Photographs and illustrations provided by Tetra Tech, Kim Greenwood, Don Lake, Jim Pease, and Hydrograss Technologies.

This document has been adapted from the *Kentucky Erosion Prevention and Sediment Control Field Guide* produced by the Tetra Tech Water Resources Division in Fairfax VA for the Kentucky Division of Conservation and Division of Water. Inquiries regarding this publication should be directed to Barry Tonning, Tetra Tech, 1060 Eaton Place, Suite 340, Fairfax VA 22030 (703.385.6000).

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Vermont Department of Environmental Conservation
Watershed Management Division
One National Life Drive – Davis 3
Montpelier, VT 05620-3522
Tel: 802-828-1115
Fax: 802-828-1544

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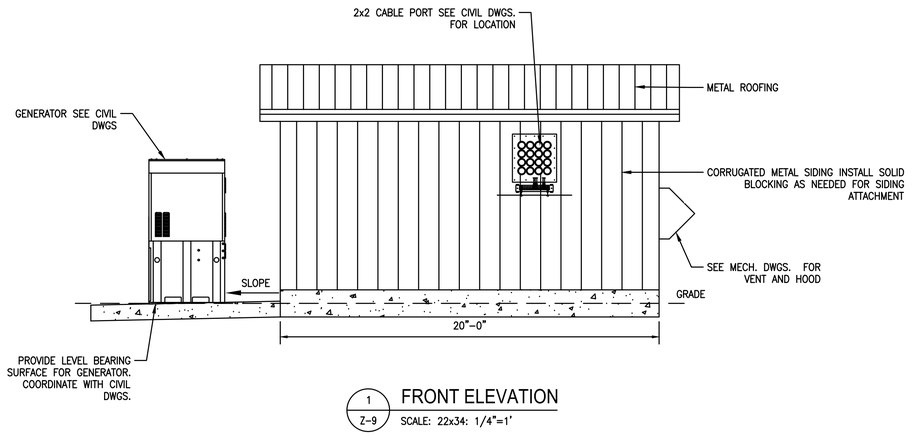
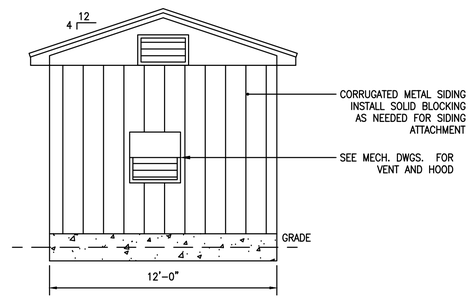
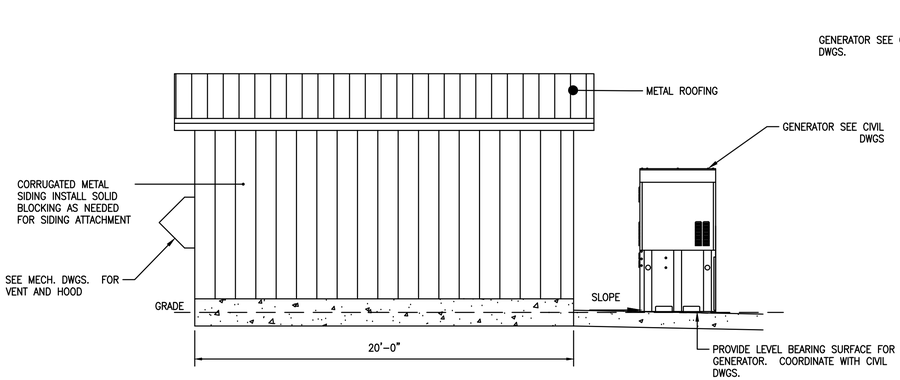


1 / Z-9 FRONT ELEVATION
SCALE: 22x34: 1/4"=1'



3 / Z-9 LEFT ELEVATION
SCALE: 22x34: 1/4"=1'



2 / Z-9 BACK ELEVATION
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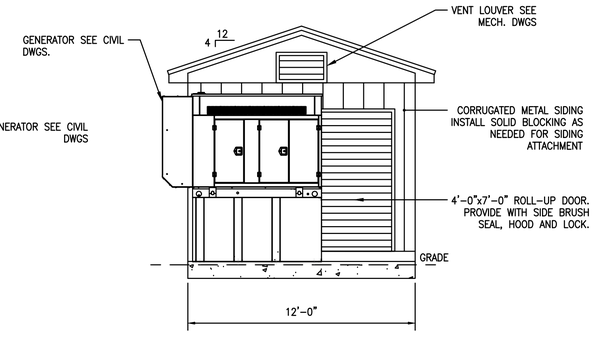

4 / Z-9 RIGHT ELEVATION
SCALE: 22x34: 1/4"=1'

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