SITE NAME: COLRAIN GREENFIELD ROAD
SITE NUMBER: VT-MA-0198A
ADDRESS: GREENFIELD ROAD
COLRAIN, MA 01340

PERMITTING

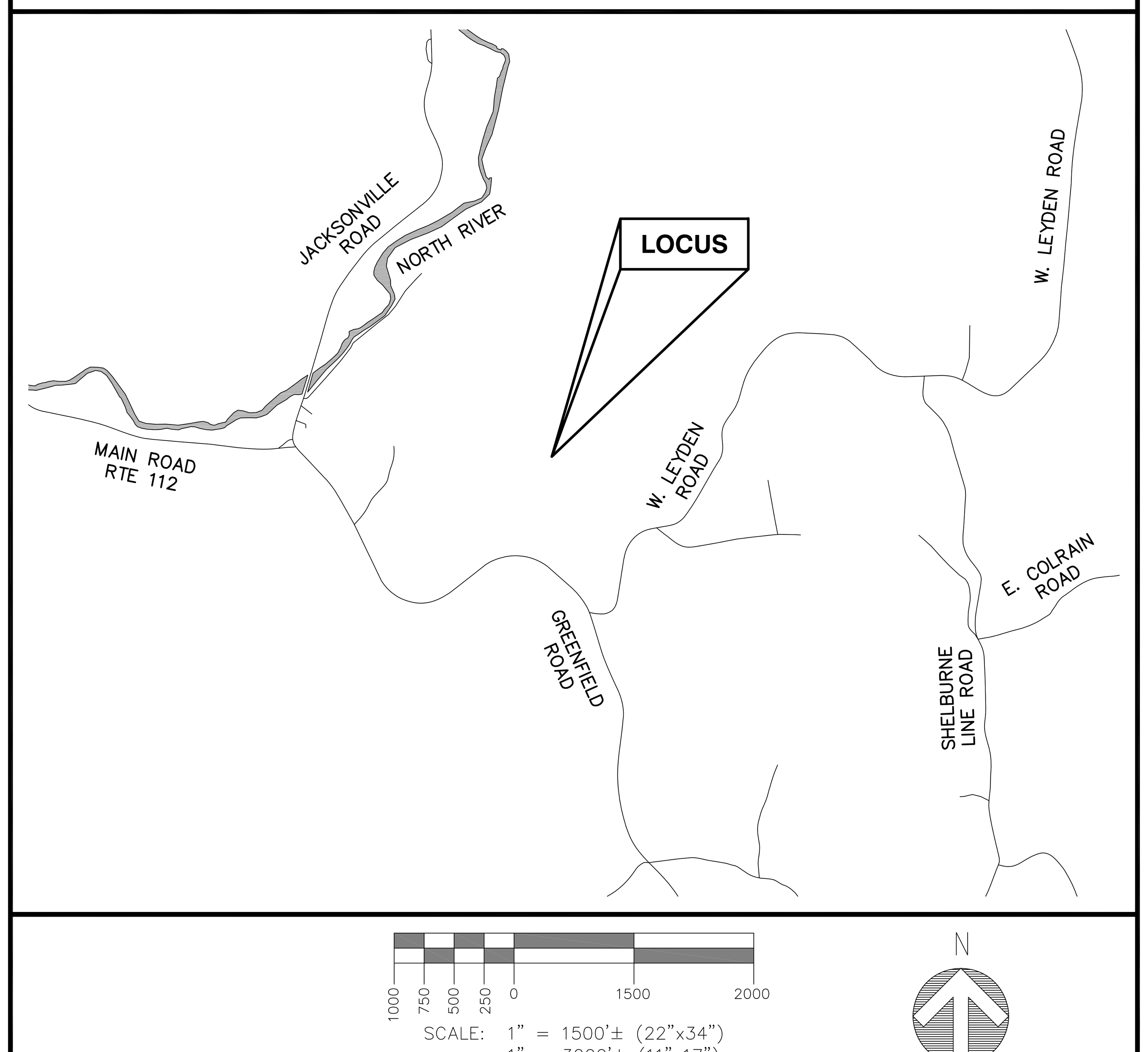
DRAWING INDEX

SHEET	DESCRIPTION	REVISION
T-1	TITLE SHEET	0
C-1	ABUTTERS PLAN & EXISTING CONDITIONS	A
A-1	COMPILED PLOT PLAN	0
A-2	COMPOUND PLAN & ELEVATION	0
P-1 TO P-4	DRIVEWAY PLAN & PROFILE	0
D-1 TO D-2	DETAILS	0
CA-1	TENANT DETAILS	0
EC-1 TO EC-2	EROSION CONTROL PLAN & DETAILS	0
SVL-1 TO SVL-4	SITE VIEW LINE PLAN & PROFILE	0

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER & VERTEX TOWERS, LLC REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.
2. PLANS FOR PERMITTING PURPOSES ONLY. NOT FOR CONSTRUCTION.
3. THIS PLAN SET WAS ORIGINALLY PRINTED TO ANSI D (22"x34") WITH 1" MARGINS. PRINTING TO ANSI B (11"x17") WILL RESULT IN A HALF-SCALE (1:2) SHEET SET WITH 1/2" MARGINS. CONFIRM ALL SCALED DISTANCES WITH GRAPHICAL SCALES SHOWN HEREIN.
4. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH VERTEX TOWERS, LLC CONSTRUCTION GUIDELINES.
5. 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 DIG-SAFE (888) 344-7233 72-HOURS PRIOR TO ANY EXCAVATION.
6. NEW CONSTRUCTION WILL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES:
   BUILDING CODE: MASSACHUSETTS STATE BUILDING CODE 780 CMR – 9TH EDITION (IBC 2015) AND AMENDMENTS
   ELECTRICAL CODE: NEC 2017 WITH MASSACHUSETTS AMENDMENTS 527 CMR 12.00
7. THE PROJECT IMPACT AREA IS ABOVE THE EXEMPTION THRESHOLD OF 43,560 SQUARE FEET; THEREFORE, THE WORK SHOWN HEREIN IS SUBJECT TO REGULATION UNDER THE EPA NPDES GENERAL CONSTRUCTION PERMIT PROGRAM.
8. THIS PROJECT IS NOT INTENDED TO CONTRIBUTE ANY WETLAND FILL OR JURISDICTIONAL BUFFER DISTURBANCE TO THE RESOURCE OR OUTSTANDING RESOURCE WATER (ORW) OR DISCHARGING WITHIN 200' OF A TRIBUTARY.

LOCUS MAP



SCALE: 1" = 1500'± (22"x34")
1" = 3000'± (11"x17")

TENANT INFORMATION

at&t

SITE NAME: COLRAIN MA
SITE ID: MA5120S

NEW CINGULAR WIRELESS PCS, LLC
("AT&T")
550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

PROJECT INFORMATION

SITE TYPE:	RAW LAND WIRELESS COMMUNICATIONS FACILITY
SCOPE OF WORK:	PROPOSED FENCED COMPOUND CONTAINING 166' TALL SELF-SUPPORT TOWER WITH GRAVEL DRIVEWAY AND UTILITIES FROM PUBLIC R.O.W.
SITE NAME:	COLRAIN GREENFIELD ROAD
SITE NUMBER:	VT-MA-0198A
SITE ADDRESS:	GREENFIELD ROAD COLRAIN, MA 01340
ASSESSOR'S TAX ID#:	4150-17
ZONING DISTRICT(S):	RURAL (R)
LATITUDE:	42° 40' 20.99"± N (SURVEY 1A)
LONGITUDE:	72° 41' 05.83"± W (SURVEY 1A)
(P) ELEVATION:	1151.1'±
DATUM:	NAD83/NAVD88
PROPERTY OWNER(S):	N/F DAVID W. NIMS 125 GREENFIELD ROAD COLRAIN, MA 01340
APPLICANT:	VERTEX TOWERS, LLC 155 SOUTH STREET SUITE 205 WRENTHAM, MA 02093
SITE ENGINEER:	PROTERRA DESIGN GROUP, LLC 4 BAY ROAD BUILDING A; SUITE 200 HADLEY, MA 01035
SURVEYOR:	NORTHEAST SURVEY CONSULTANTS 116 PLEASANT STREET SUITE 302 PO BOX 109 EASTHAMPTON, MA 01027
WETLAND SCIENTIST:	LUCAS ENVIRONMENTAL, LLC 500A WASHINGTON STREET QUINCY, MA 02169

ProTerra DESIGN GROUP, LLC
4 Bay Road
Building A; Suite 200
Hadley, MA 01035
(413)320-4918

NO.	DATE	REVISIONS
0	11/05/20	ISSUED FOR PERMITTING

TITLE: SITE NAME: COLRAIN GREENFIELD ROAD
SITE NUMBER: VT-MA-0198A
ADDRESS: GREENFIELD ROAD
COLRAIN, MA 01340

APPLICANT: VERTEX TOWERS, LLC
155 SOUTH STREET
SUITE 205
WRENTHAM, MA 02093

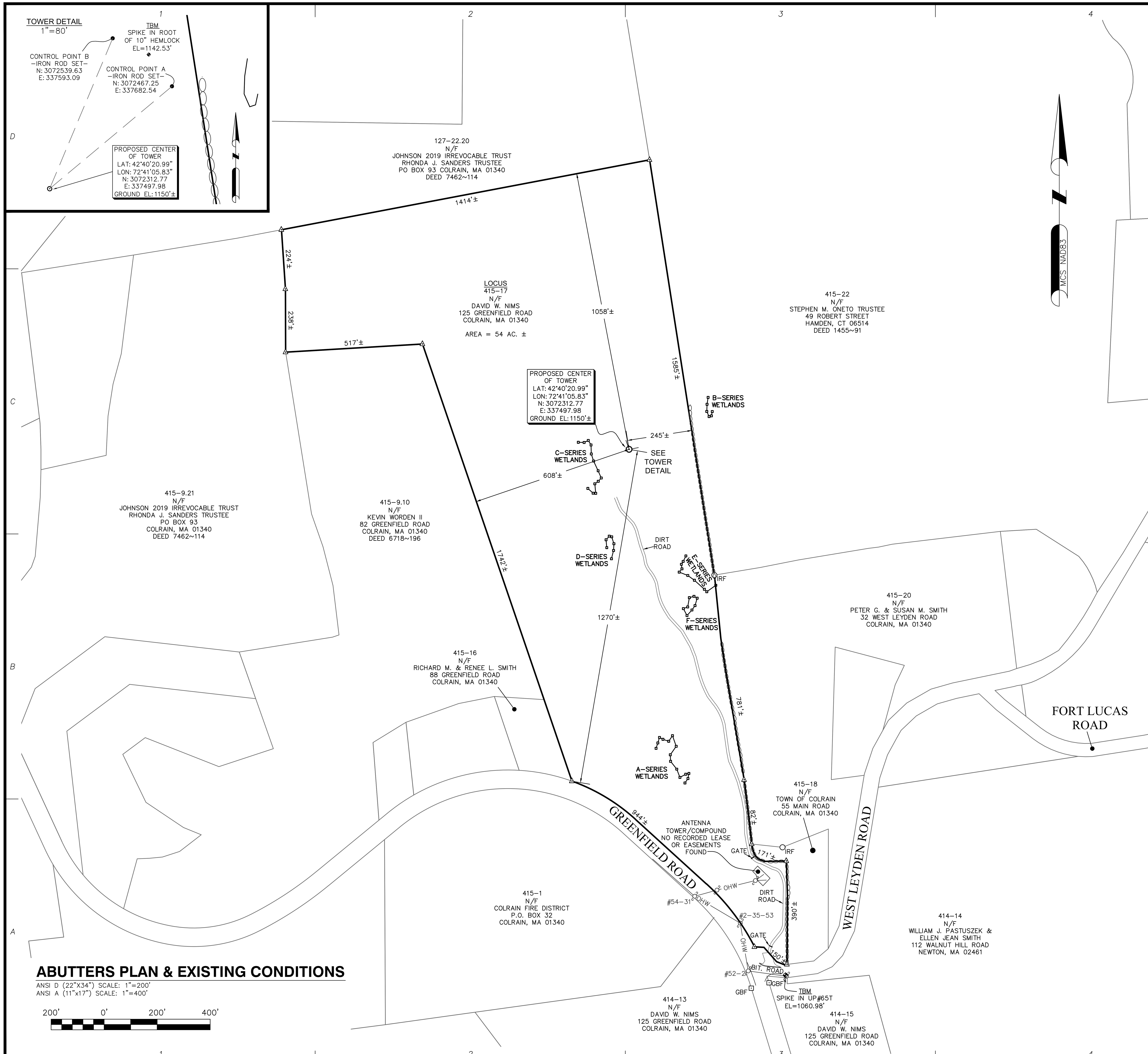
STAMP: COMMONWEALTH OF MASSACHUSETTS JESSE M. MORENO CIVIL REGISTERED 11-5-2020

DATE:	11/05/2020
DRAWN:	STZ/JEB
CHECK:	JMM/TEJ
SCALE:	SEE PLAN
JOB NO.:	18-015

SHEET TITLE:

TITLE SHEET

T-1



ABUTTERS PLAN & EXISTING CONDITIONS

ANSI D (22"X34") SCALE: 1"=200'
ANSI A (11"x17") SCALE: 1"=400'

200' 0' 200' 400'

FAA 1-A CERTIFICATION

I HEREBY CERTIFY THAT THE LATITUDE, LONGITUDE, AND ELEVATION PRESENTED HEREON MEET THE REQUIREMENTS OF THE FAA WITH THE FOLLOWING ACCURACIES:

THREE (3) FEET VERTICALLY
TWENTY (20) FEET HORIZONTALLY

DANIEL F. STASZ, PLS #47160 — 11–03–2020 DATE

SURVEY NOTES

1. SITE DETAIL SHOWN ON THIS SURVEY IS BASED ON FIELD DATA COLLECTED ON 10/23/2020, 10/26/2020 & 10/27/2020.
2. 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.
3. PROPERTY LINES AND BOUNDARY DIMENSIONS SHOWN ON THIS SURVEY ARE BASED ON A COMPILATION OF RECORDED PLANS AND DEEDS AND ARE NOT INTENDED TO REPRESENT DEFINITIVE BOUNDARY LINES OR BE USED FOR THE PURPOSES OF CONVEYANCE. PROPERTY RELATED INFORMATION HAS NOT BEEN CONFIRMED BY FIELD SURVEY OBSERVATIONS AND NO ASSESSMENT OF LAND OCCUPATION HAS BEEN CONDUCTED IN THE PREPARATION OF THIS SURVEY. A PROPERTY LINE RETRACEMENT SURVEY HAS NOT BEEN CONDUCTED.
4. THE PROPERTY LINES SHOWN ON THIS PLAN ARE THE LINES DIVIDING EXISTING OWNERSHIP'S, AND THE LINES OF STREETS AND WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS OR WAYS ALREADY ESTABLISHED, AND NO NEW LINES FOR DIVISION OF EXISTING OWNERSHIP OR FOR NEW WAYS ARE SHOWN.
5. PRIMARY GEODETIC SURVEY CONTROL WAS ESTABLISHED FROM AN ON THE GROUND SURVEY USING THE GLOBAL POSITIONING SYSTEM (GPS) ON 10/23/2020. THE HORIZONTAL REFERENCED DATUM IS THE NAD 83 BASED ON THE GRS 80 REFERENCE ELLIPSOID. THE GRID COORDINATES ARE BASED ON THE MASSACHUSETTS STATE PLANE COORDINATE SYSTEM OF 1983. ELEVATIONS SHOWN ARE ASSUMED AND ARE APPROXIMATED TO THE NAVD 88 VERTICAL DATUM. VERTICAL AND HORIZONTAL INFORMATION SHOWN MEETS THE STANDARD CRITERIA FOR AN FAA 1A CERTIFICATION (20'± HORIZONTAL AND 3'± VERTICAL).
6. IN THE EVENT THAT BENCHMARKS (TBM'S), ESTABLISHED FOR THIS PROJECT AND PUBLISHED ON THIS SURVEY, ARE DESTROYED, NOT RECOVERABLE OR A DISCREPANCY IS FOUND, THE USER SHOULD NOTIFY THIS FIRM IN WRITING PRIOR TO COMMENCING OR CONTINUING ANY WORK.
7. THE LOCUS PARCEL IS SHOWN AS MAP 415 LOT 17 IN THE TOWN OF COLRAIN TAX ASSESSOR'S DATABASE.
8. THE PROJECT AREA IS LOCATED IN FLOOD ZONE "C" (AREAS OF MINIMAL FLOODING) AS SHOWN ON FLOOD INSURANCE RATE MAP COMMUNITY PANEL NUMBER 250113 0010 B, EFFECTIVE DATE 7/2/1980.
9. THE LOCUS PARCEL AND ALL ABUTTING PARCELS ARE LOCATED IN THE TOWN OF COLRAIN RURAL ZONING DISTRICT.
10. 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
11. WETLANDS SHOWN HEREON WERE DELINEATED BY LUCAS ENVIRONMENTAL, LLC ON 10/9/2020.

PROPERTY OWNER:	DAVID W. NIMS 125 GREENFIELD ROAD COLRAIN, MA 01340
LOCUS DEED REFERENCE:	BOOK 1646 PAGE 12
PLAN REFERENCES:	PLAN BOOK 131 PAGE 63 PLAN BOOK 72 PAGE 15 PLAN BOOK 61 PAGE 20

LEGEND

- TOWER CONTROL POINT
- CALCULATED POINT
- IRF – IRON ROD FOUND
- GBF – GRANITE BOUND FOUND
- WETLAND FLAG
- UTILITY POLE
- TEMPORARY BENCHMARK (TBM)
- LOCUS PROPERTY LINE
- ABUTTERS PROPERTY LINE
- STONEWALL
- WETLAND DELINEATION
- OHW – OVERHEAD WIRES

ProTerra DESIGN GROUP, LLC
4 Bay Road
Building A; Suite 200
Hadley, MA 01035
(413)320–4918

CONSULTANTS:
NORTHEAST SURVEY CONSULTANTS
116 Pleasant St. Ste. 302
P.O. Box 109
Easthampton, MA 01027
(413) 203–5144
northeastsurvey.com

NO.	DATE	REVISIONS
A	11/03/20	ISSUED FOR REVIEW

TITLE:
SITE NAME: COLRAIN GREENFIELD ROAD
SITE NUMBER: VT–MA–0198A
ADDRESS: GREENFIELD ROAD
COLRAIN, MA 01340

APPLICANT:
VERTEX TOWER ASSETS, LLC
155 SOUTH STREET, SUITE 205
WRENTHAM, MA 02093
Vertex Towers LLC

STAMP:
COMMONWEALTH OF MASSACHUSETTS
DANIEL F. STASZ
No.47160
REGISTERED PROFESSIONAL LAND SURVEYOR

DATE:	11/03/2020
DRAWN:	JDG
CHECK:	BCF
SCALE:	1"=200'
JOB NO.:	20–201

SHEET TITLE:
ABUTTERS PLAN & EXISTING CONDITIONS

C-1

REFERENCES

PROPERTY LINE, TOPOGRAPHY AND EXISTING FEATURES – SEE SHEETS C-1 PREPARED BY NORTHEAST SURVEY CONSULTANTS.

ZONING DISTRICTS – "OFFICIAL ZONING MAP TOWN OF COLRAIN, MAY 8, 2012" AVAILABLE ON THE TOWN OF COLRAIN WEBSITE.

THE FOLLOWING DATALAYERS PREPARED BY THE OFFICE OF GEOGRAPHIC INFORMATION (MASSGIS), COMMONWEALTH OF MASSACHUSETTS MASSIT:

- OUTSTANDING RESOURCE WATERS;
- SURFACE WATER PROTECTION AREAS – ZONE A & ZONE C;
- DEP WETLANDS;
- WELLHEAD PROTECTION AREAS, ZONES Is AND IIs (NONE PRESENT IN GIS FOR SITE);
- NHESP PRIORITY HABITATS OF RARE SPECIES; (NONE PRESENT IN GIS FOR SITE)

TOPOGRAPHY SHOWN ON SITE VIEW LINE PROFILES RETRIEVED FROM NOAA "DATA ACCESS VIEWER (2015 USGS LIDAR DATA)

FLOODPLAIN – FLOOD INSURANCE RATE MAP (FIRM) MAP NUMBER 250113 0010 B EFFECTIVE DATE JULY 2, 1980 PREPARED BY FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), US DEPARTMENT OF HOMELAND SECURITY.

ZONE C: AREAS OF MINIMAL FLOODING. (NO SHADING)

OUTSTANDING RESOURCE WATER

SURFACE WATER PROTECTION AREA: ZONE A

SURFACE WATER PROTECTION AREA: ZONE C

DEP WETLANDS

GENERAL NOTES

1. THE TYPE, DIMENSIONS, MOUNTING HARDWARE, AND POSITIONS OF ALL PROJECT OWNER'S EQUIPMENT ARE SHOWN IN ILLUSTRATIVE FASHION. 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 DESIGN OF THE TOWER, FOUNDATION AND ANTENNA MOUNTING HARDWARE 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.
4. ONCE THE FACILITY BECOMES FULLY OPERATIONAL, NORMAL AND ROUTINE MAINTENANCE BY TOWER OWNER'S AND CARRIER'S TECHNICIANS WILL BE PERFORMED. THE ESTIMATED VEHICULAR TRAFFIC GENERATED BY THESE VISITS IS PREDICTED TO BE LESS THAN THE TYPICAL TRAFFIC GENERATED BY A SINGLE-FAMILY DWELLING.

ZONING SUMMARY

ZONING DISTRICT(S): RURAL (R)

ASSESSOR'S ID#: 4150-0017
(P) USE: WIRELESS COMMUNICATIONS FACILITIES [1]

DIMENSION	PROVIDED	CONSTRAINT
LOT – AREA	54± ACRES	1.5 ACRES
LOT – FRONTAGE	1093'±	300' MIN.
LOT – COVERAGE BY STRUCTURES (IMPERVIOUS)	<1%	25% MAX.
(P) EDGE OF TOWER – FRONT YARD	1254'±	50' MIN.
(P) EDGE OF TOWER – REAR YARD	1050'±	40' MIN.
(P) EDGE OF TOWER – SIDE YARD	231'± & 596'±	40' MIN.
(P) TOWER – HEIGHT (HIGHEST APPURTENANCE)	166' (172')	120' MAX.[2]
(P) TOWER – PROPERTY LINE (SETBACK)	246'± (CENTER OF TOWER) 231'± (EDGE OF TOWER)	HEIGHT (TOWER) + 20' = 192' MIN.
(P) TOWER (CENTER) TO NEAREST DWELLING	1,125'±	500' MIN.

1 – ZONING ORDINANCE OF THE TOWN OF COLRAIN SECTION III, USE REGULATIONS, WIRELESS COMMUNICATIONS FACILITIES SHALL BE PERMITTED IF A SPECIAL PERMIT IS GRANTED BY THE PLANNING BOARD."

2 – ZONING ORDINANCE OF THE TOWN OF COLRAIN SECTION X, ARTICLE (e) v. HEIGHT OF THE WIRELESS COMMUNICATIONS FACILITY SHALL NOT EXCEED THE LESSER OF FIFTY (50) FEET OVER THE REMAINING TREE CANOPY OR ONE HUNDRED TWENTY (120) FEET. [NOTE: 70'± ESTIMATED AVERAGE APPROXIMATE TOP (E) TREE CANOPY ADJACENT TO TOWER AREA (VARIES)]

N

COMPILED LOCUS PLAN

1 / A-1

SCALE: 1"=200' (22x34)
1"=400' (11x17)

200 100 0 200 400

ProTerra DESIGN GROUP, LLC
4 Bay Road
Building A; Suite 200
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(413)320-4918

NO.	DATE	REVISIONS
0	11/05/20	ISSUED FOR PERMITTING

TITLE: SITE NAME: COLRAIN GREENFIELD ROAD
SITE NUMBER: VT-MA-0198A
ADDRESS: GREENFIELD ROAD COLRAIN, MA 01340

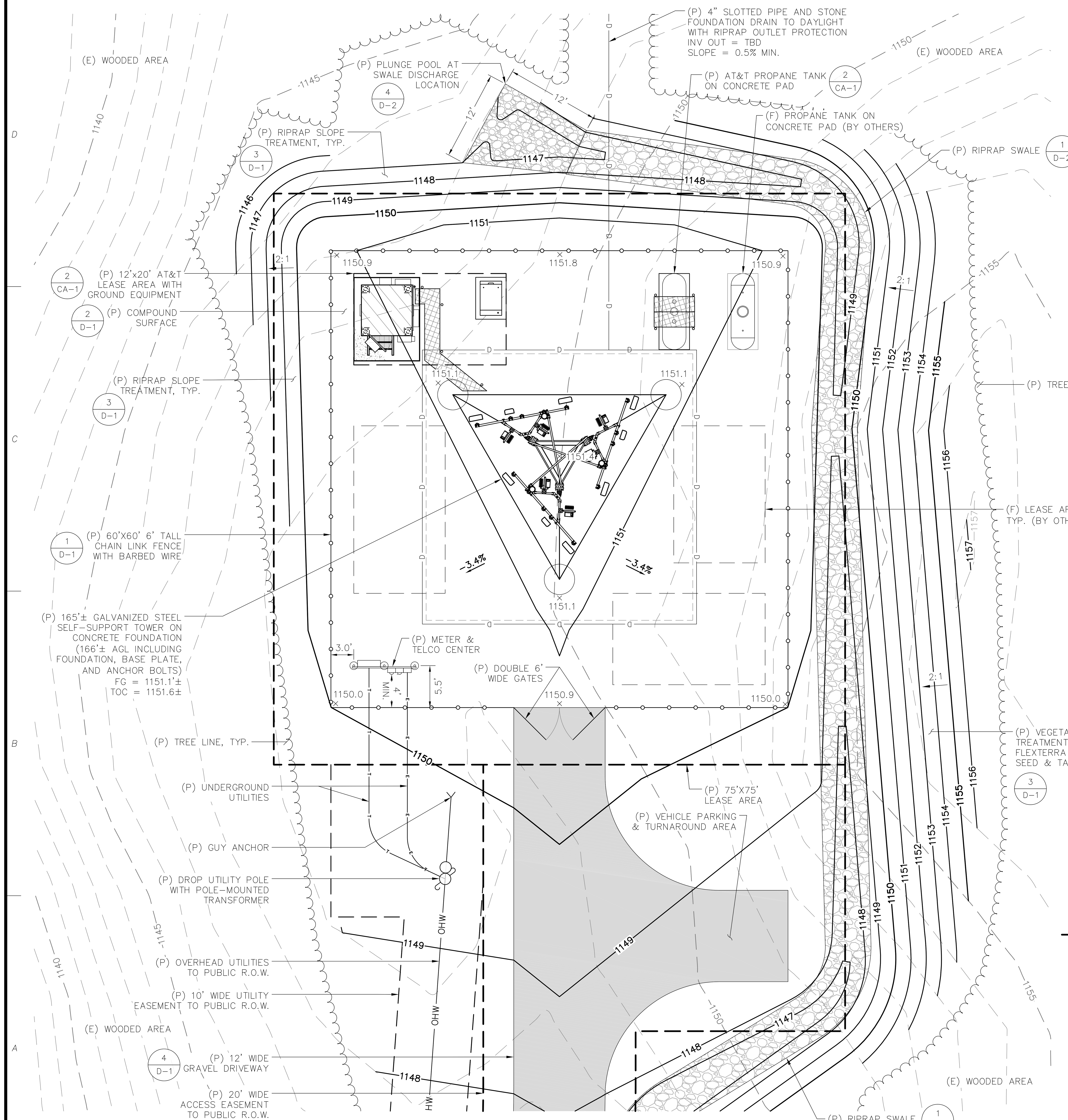
APPLICANT: VERTEX TOWERS, LLC
155 SOUTH STREET
SUITE 205
WRENTHAM, MA 02093
Vertex Towers LLC

STAMP:
COMMONWEALTH OF MASSACHUSETTS
JESSE M. MORENO
CIVIL
No. 47315
REGISTERED PROFESSIONAL ENGINEER
11-5-2020

DATE: 11/05/2020
DRAWN: STZ/JEB
CHECK: JMM/TEJ
SCALE: SEE PLAN
JOB NO.: 18-015

SHEET TITLE:
COMPILED PLOT PLAN

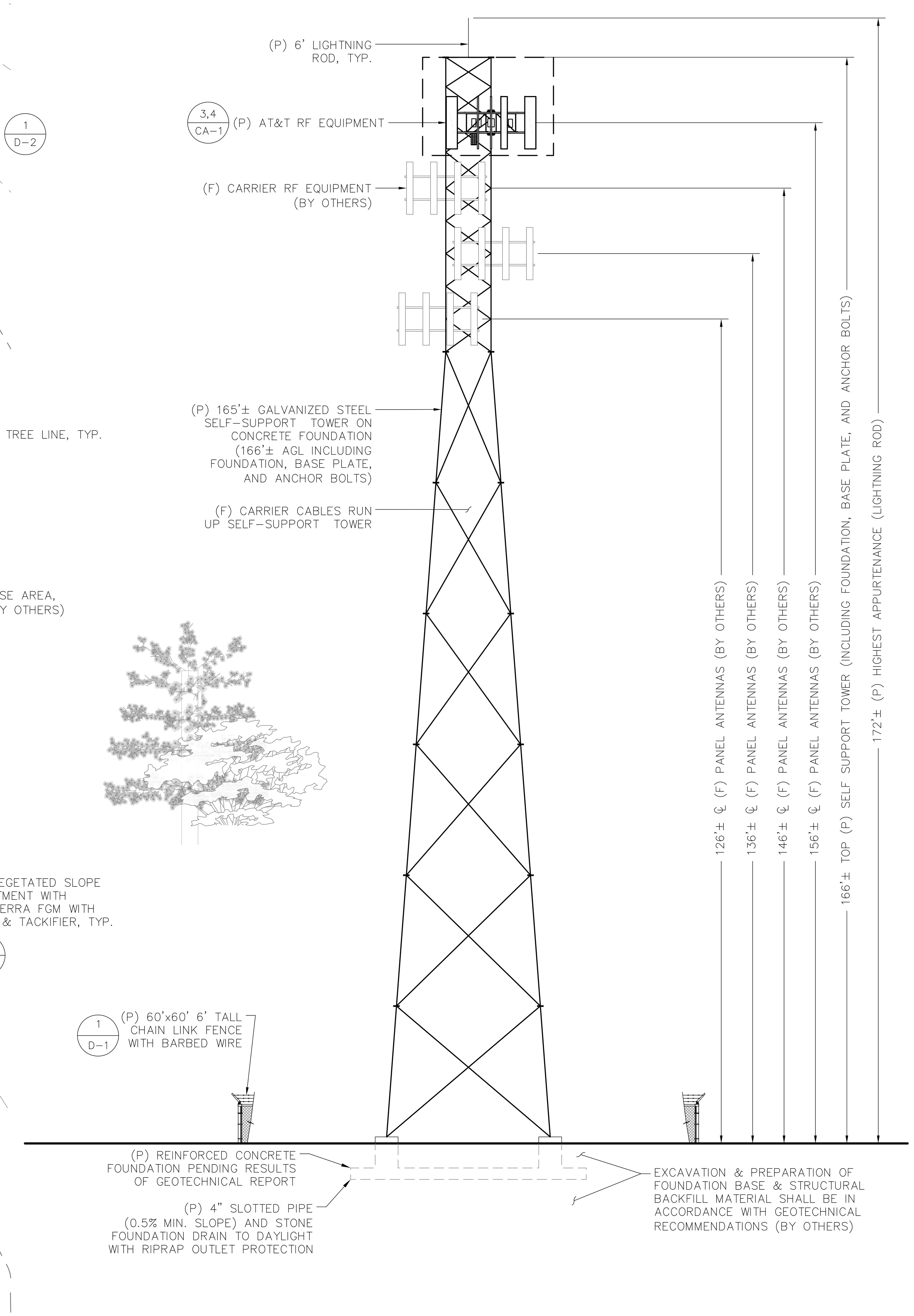
A-1



COMPOUND PLAN

1 / A-2

SCALE: 1"=8' (22x34) 1"=16' (11x17)



ELEVATION

2 / A-2

SCALE: 1"=12' (22x34) 1"=24' (11x17)

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ADDRESS: GREENFIELD ROAD COLRAIN, MA 01340

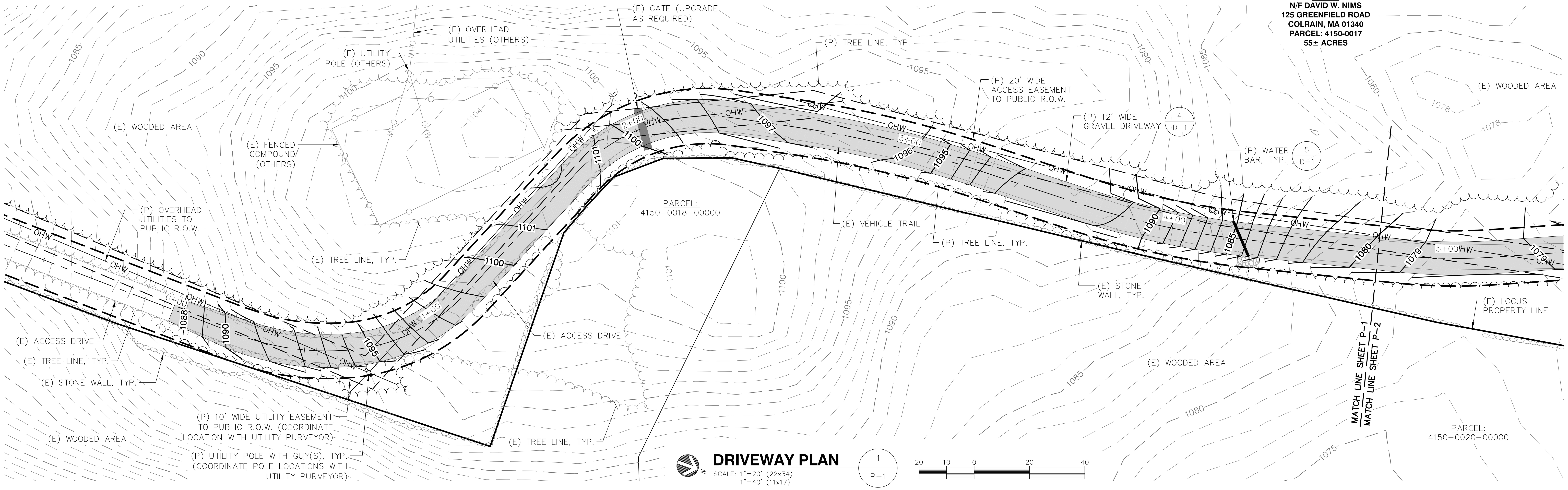
APPLICANT: VERTEX TOWERS, LLC
155 SOUTH STREET
SUITE 205
WRENTHAM, MA 02093

STAMP: COMMONWEALTH OF MASSACHUSETTS JESSE M. MORENO CIVIL No. 43816 REGISTERED PROFESSIONAL ENGINEER
11-5-2020

DATE: 11/05/2020
DRAWN: STZ/JEB
CHECK: JMM/TEJ
SCALE: SEE PLAN
JOB NO.: 18-015

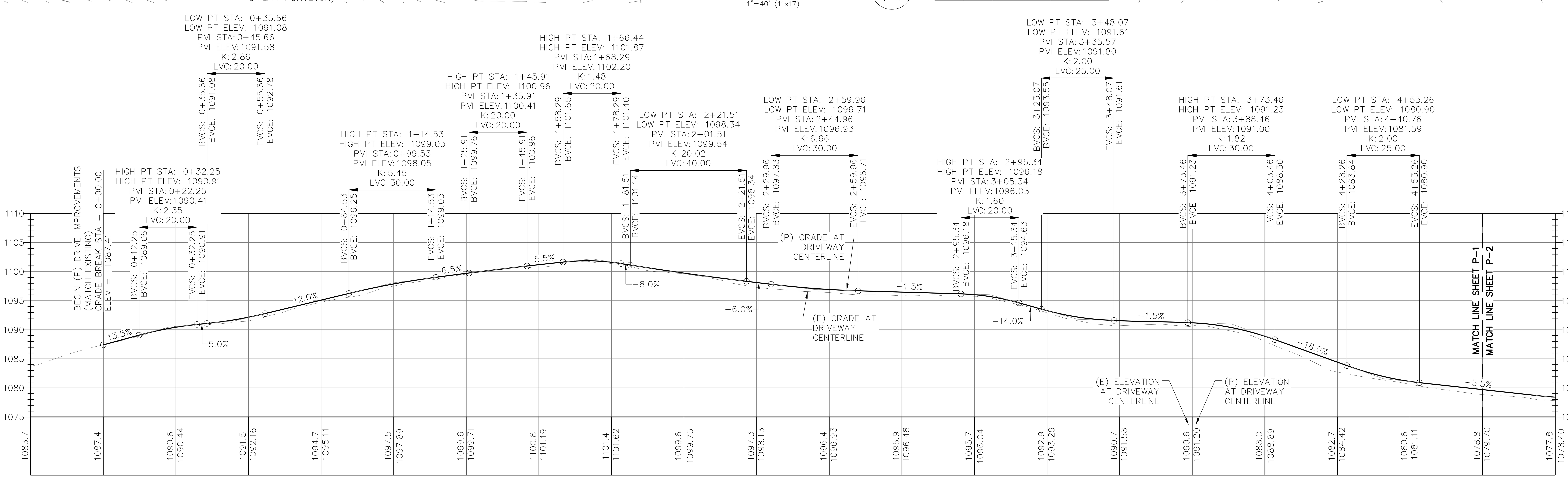
SHEET TITLE:
COMPOUND PLAN & ELEVATION

A-2



DRIVEWAY PLAN 1 / P-1

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



DRIVEWAY PROFILE 2 / P-1

SCALE (22x34): 1"=20' HORIZONTAL
1"=10' VERTICAL
SCALE (11x17): 1"=40' HORIZONTAL
1"=20' VERTICAL

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155 SOUTH STREET
SUITE 205
WRENTHAM, MA 02093
Vertex Towers LLC

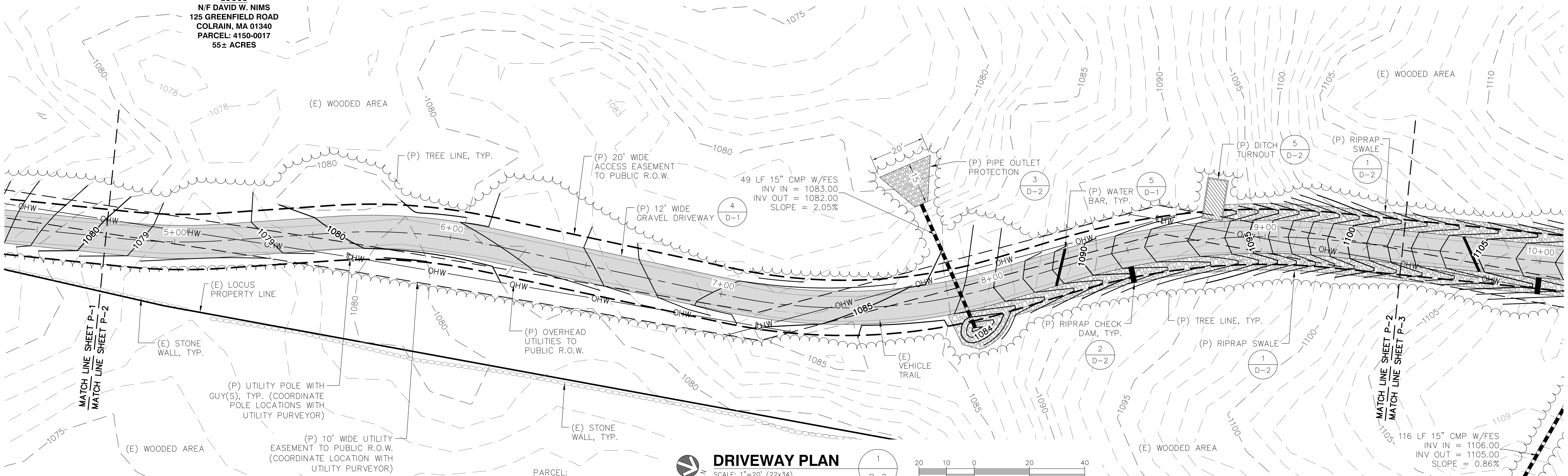
STAMP:
COMMONWEALTH OF MASSACHUSETTS
JESSE M. MORENO
CIVIL
REGISTERED PROFESSIONAL ENGINEER
11-5-2020

DATE: 11/05/2020
DRAWN: STZ/JEB
CHECK: JMM/TEJ
SCALE: SEE PLAN
JOB NO.: 18-015

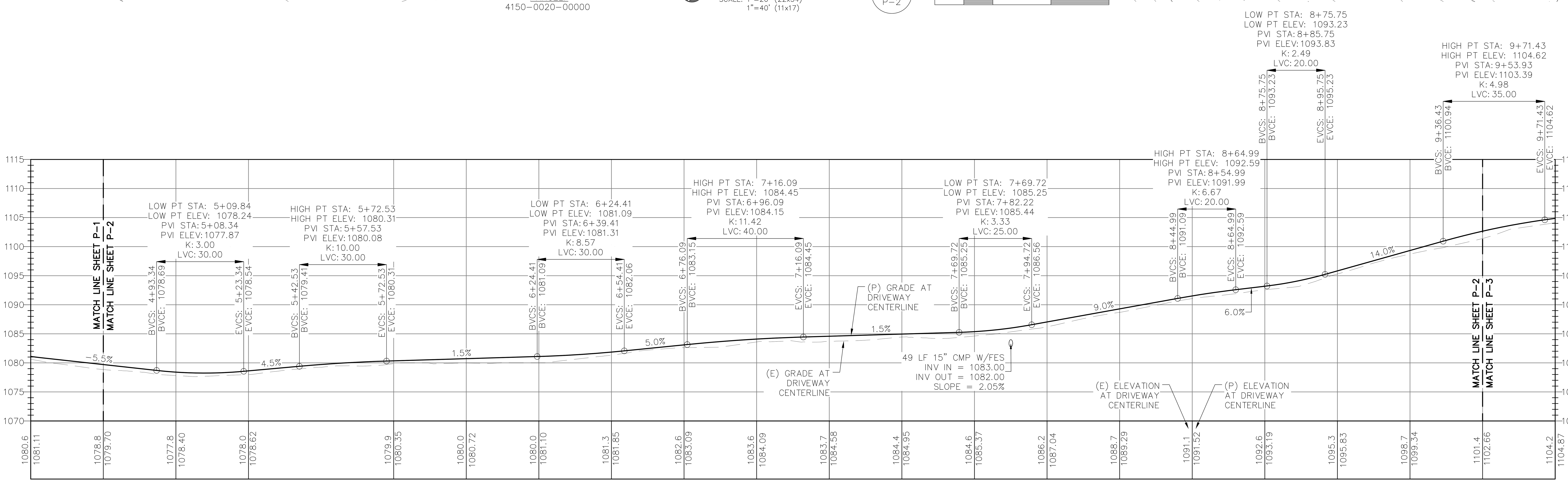
SHEET TITLE:
DRIVEWAY PLAN & PROFILE

P-1

LOCUS
N/F DAVID W. NIMS
125 GREENFIELD ROAD
COLRAIN, MA 01340
PARCEL: 4150-0017
55± ACRES



DRIVEWAY PLAN 1 P-2
SCALE: 1"=20' (22x34)
1"=40' (11x17)



DRIVEWAY PROFILE 2 P-2
SCALE (22x34): 1"=20' HORIZONTAL
1"=10' VERTICAL
SCALE (11x17): 1"=40' HORIZONTAL
1"=20' VERTICAL

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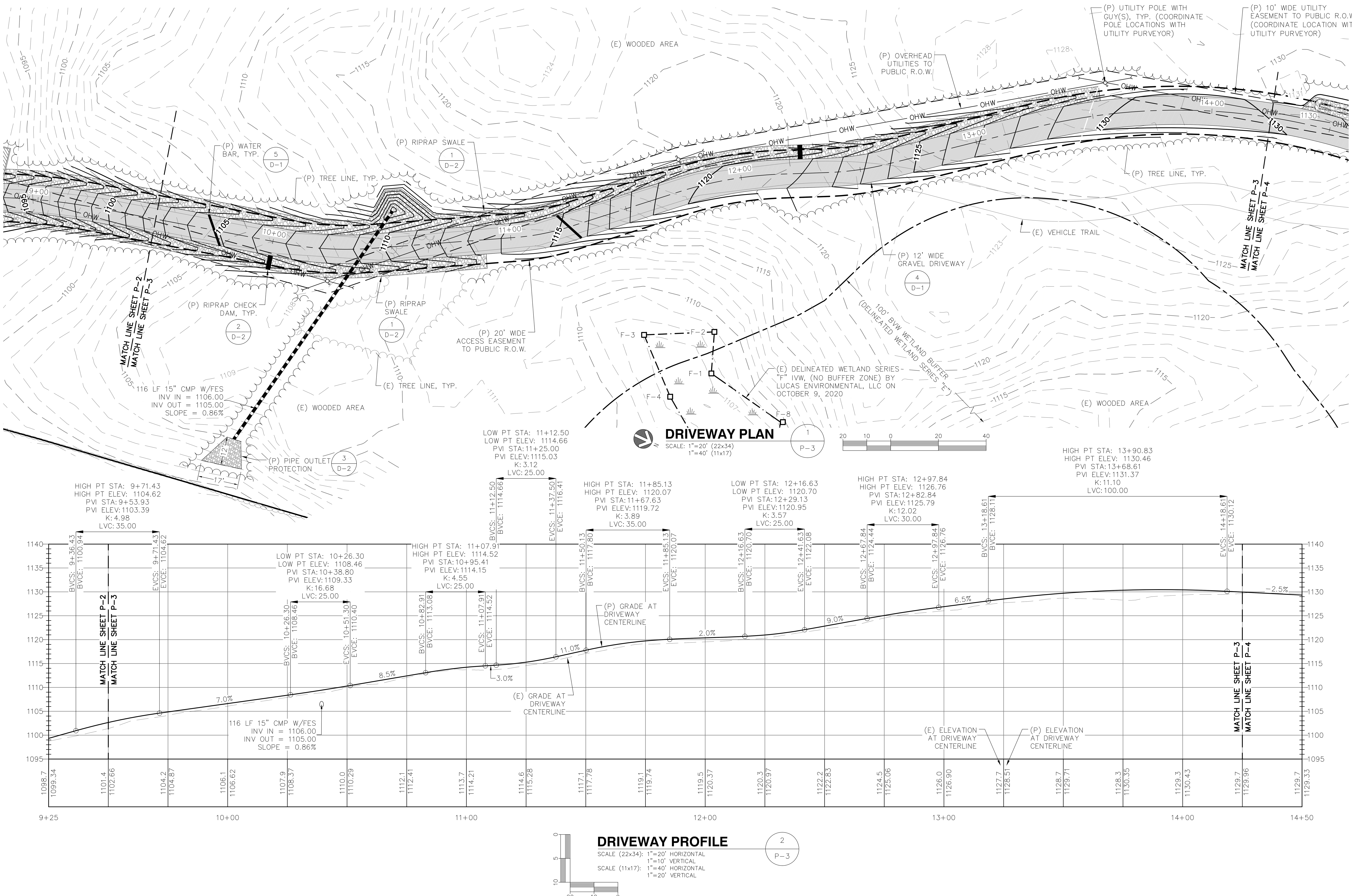
Vertex Towers LLC

STAMP:
COMMONWEALTH OF MASSACHUSETTS
JESSE M. MORENO
CIVIL
No. 49618
REGISTERED PROFESSIONAL ENGINEER
11-5-2020

DATE: 11/05/2020
DRAWN: STZ/JEB
CHECK: JMM/TEJ
SCALE: SEE PLAN
JOB NO.: 18-015

SHEET TITLE:
DRIVEWAY PLAN & PROFILE

P-2



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Vertex Towers LLC

STAMP: COMMONWEALTH OF MASSACHUSETTS
JESSE M. MORENO
CIVIL
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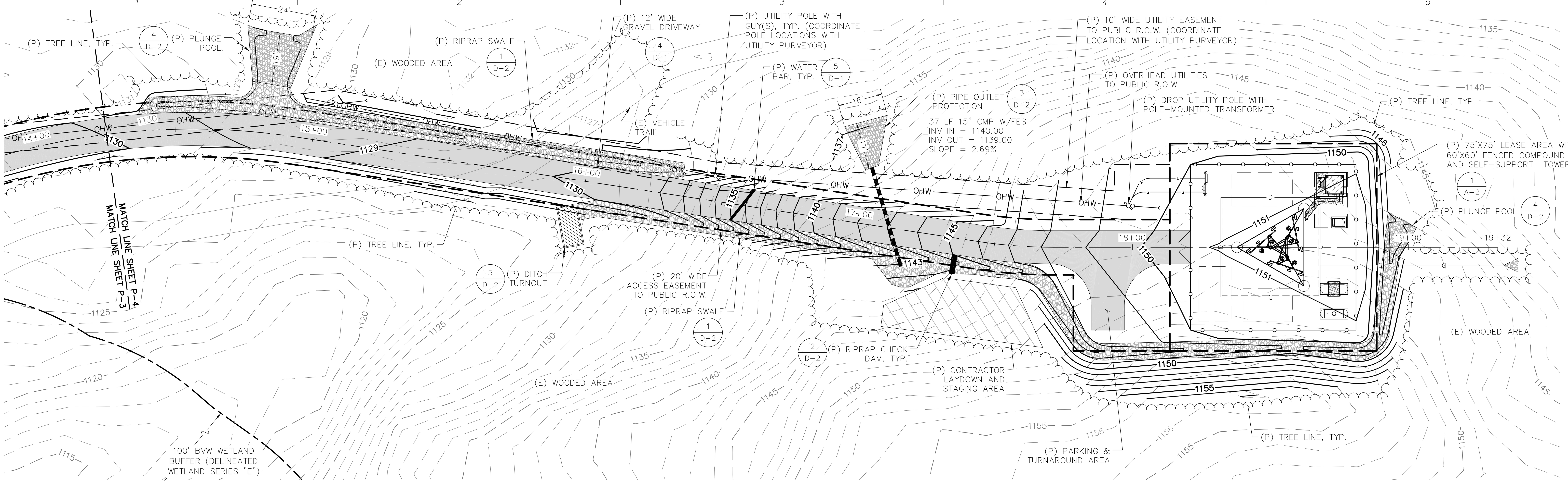
11-5-2020

DATE: 11/05/2020
DRAWN: STZ/JEB
CHECK: JMM/TEJ
SCALE: SEE PLAN
JOB NO.: 18-015

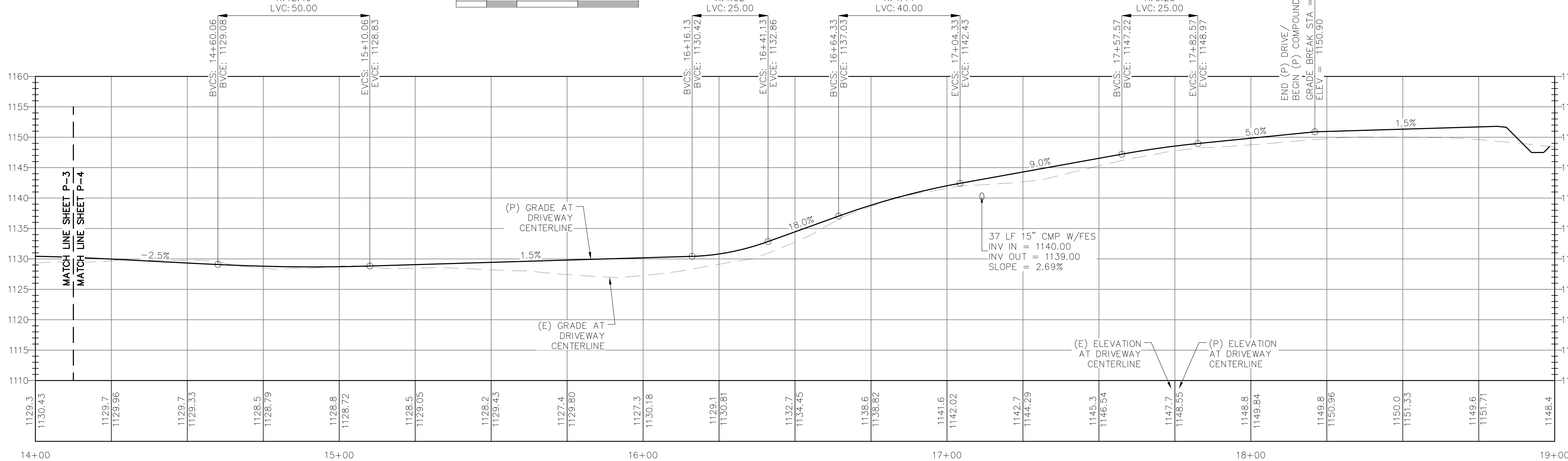
SHEET TITLE:
DRIVEWAY PLAN & PROFILE

P-3



DRIVEWAY PLAN 1 / P-4

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



DRIVEWAY PROFILE 2 / P-4

SCALE (22x34): 1"=20' HORIZONTAL
1"=10' VERTICAL
SCALE (11x17): 1"=40' HORIZONTAL
1"=20' VERTICAL

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Building A; Suite 200
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(413)320-4918

NO.	DATE	REVISIONS
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TITLE:
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SITE NUMBER: VT-MA-0198A
ADDRESS: GREENFIELD ROAD
COLRAIN, MA 01340

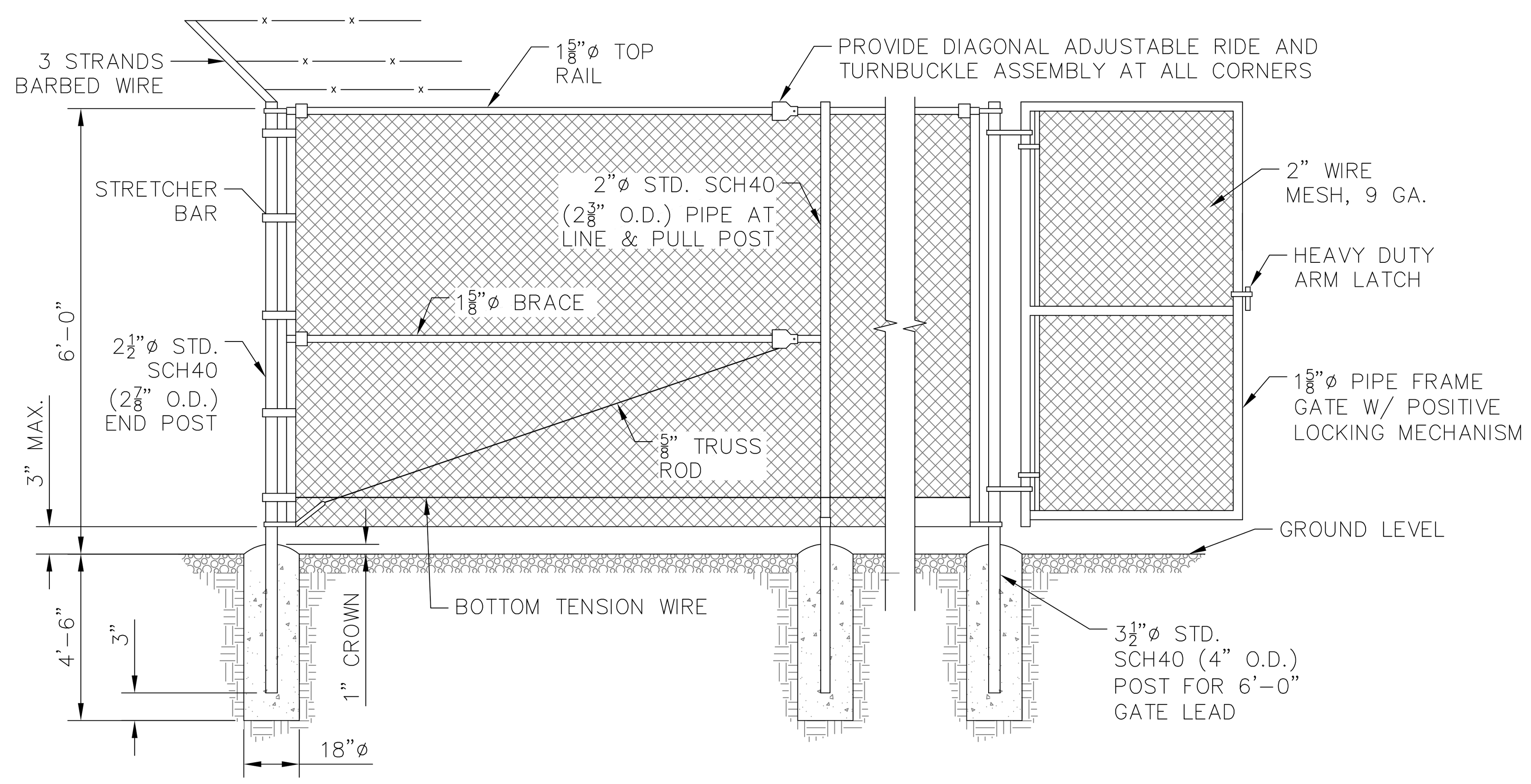
APPLICANT:
Vertex Towers LLC
VERTEX TOWERS, LLC
155 SOUTH STREET
SUITE 205
WRENTHAM, MA 02093

STAMP:
COMMONWEALTH OF MASSACHUSETTS
JESSE M. MORENO
CIVIL
No. 49316
REGISTERED
11-5-2020

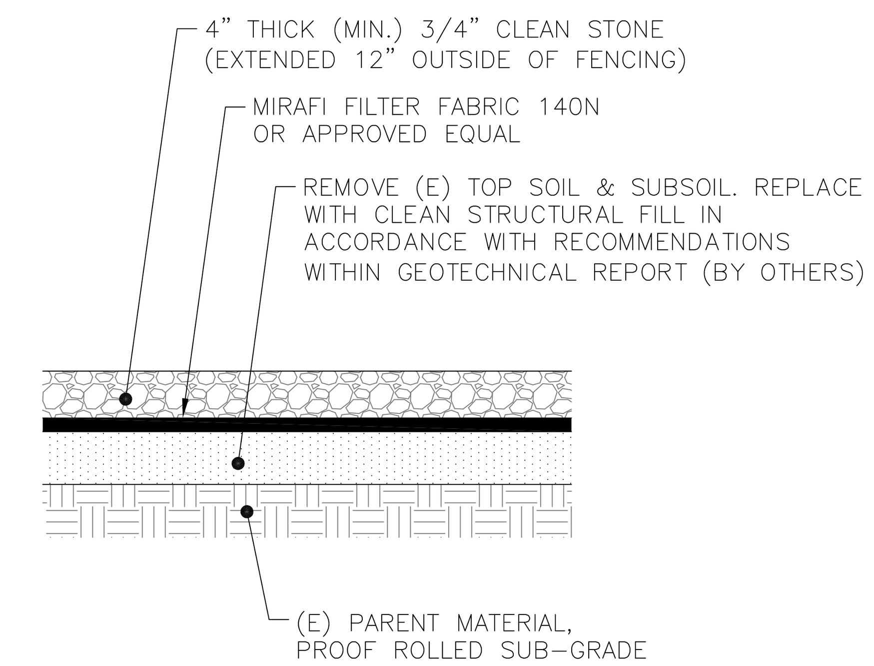
DATE: 11/05/2020
DRAWN: STZ/JEB
CHECK: JMM/TEJ
SCALE: SEE PLAN
JOB NO.: 18-015

SHEET TITLE:
DRIVEWAY PLAN & PROFILE

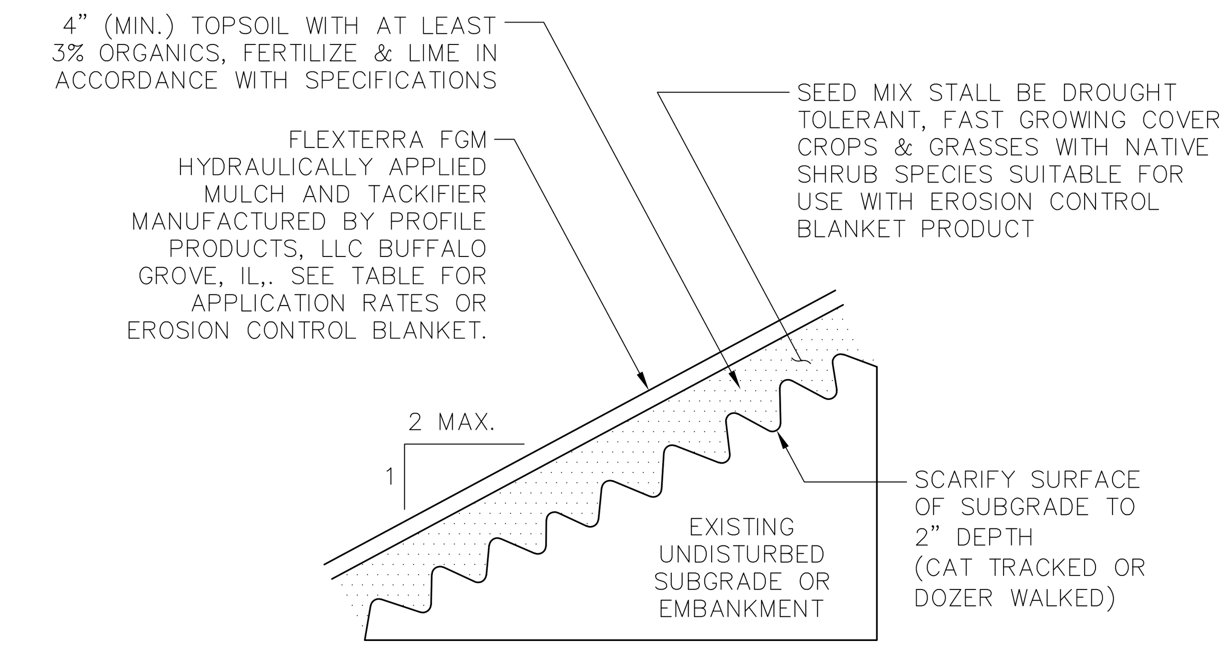
P-4



CHAIN LINK FENCE
SCALE: NONE
1 D-1



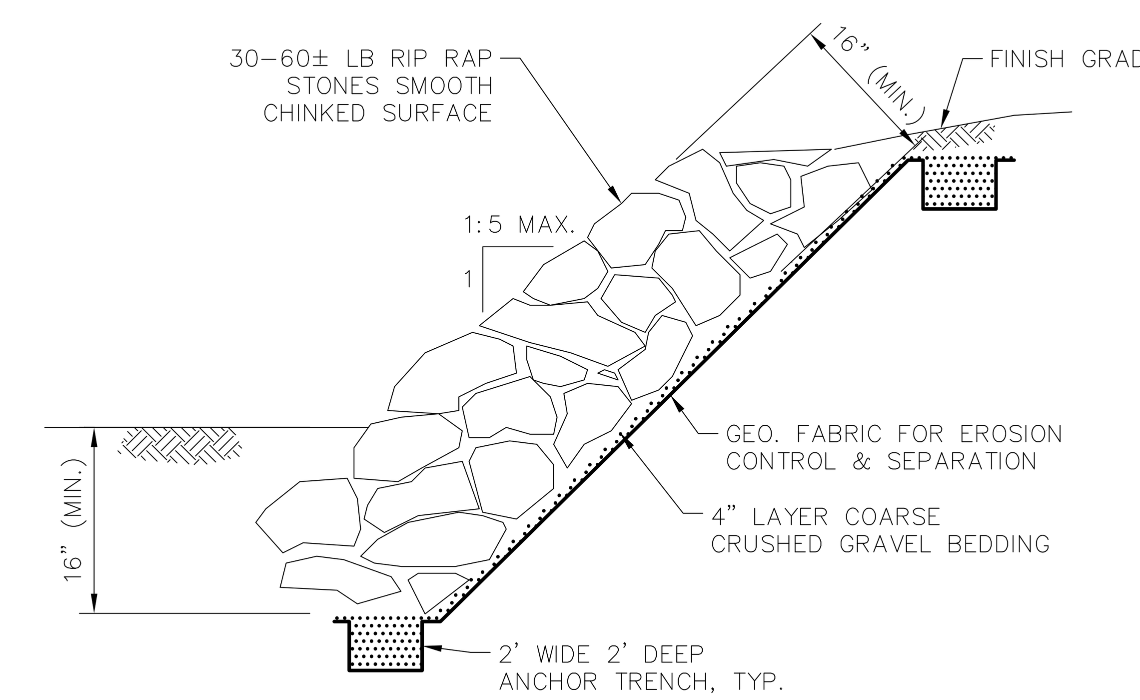
COMPOUND SURFACE
SCALE: NONE
2 D-1



FLEXTERRA APPLICATION RATES	
SLOPE	RATE
LESS THAN 4:1	2500 LB/AC
4:1 TO 3:1	3000 LB/AC
3:1 TO 2:1	3500 LB/AC

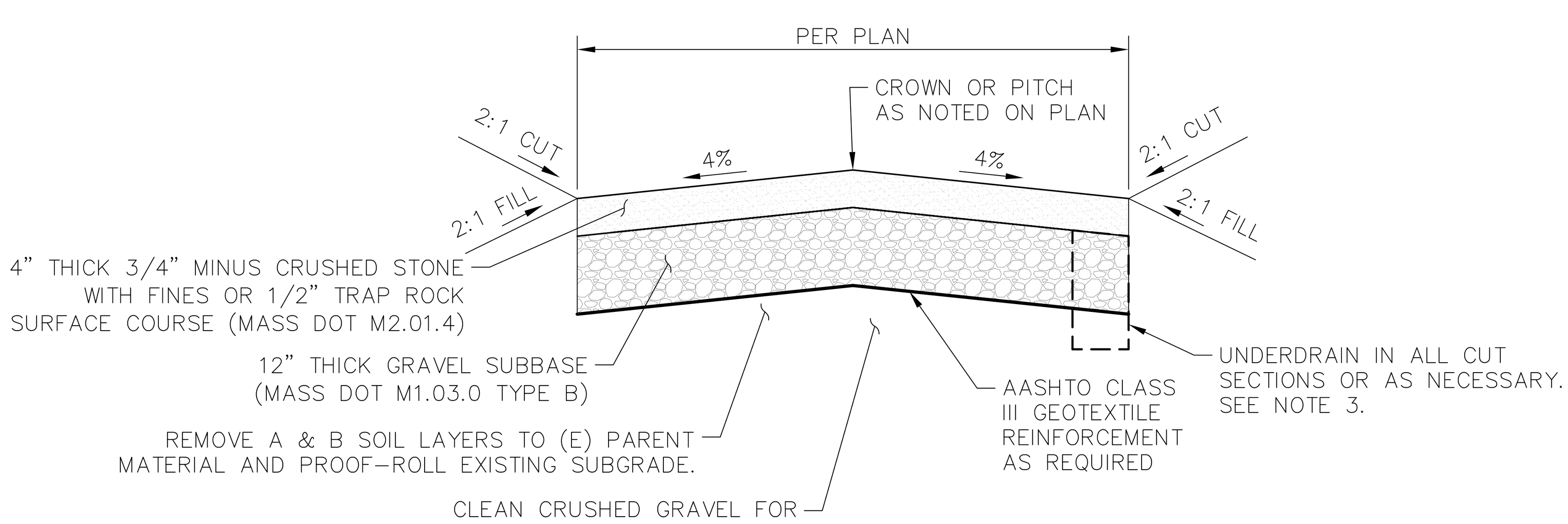
EROSION CONTROL BLANKET TO BE USED ON 2:1 SLOPES.

VEGETATED SLOPE



RIPRAP SLOPE

SLOPE TREATMENT
SCALE: NONE
3 D-1

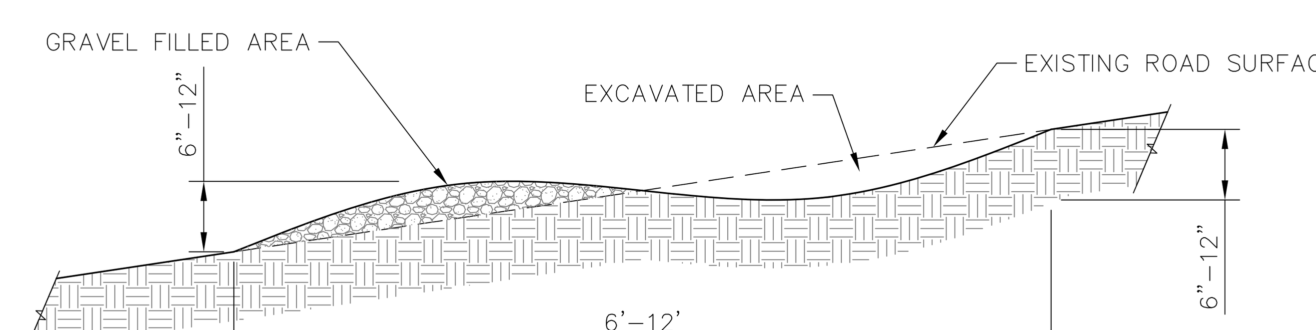


NOTES:
1. ALL GRANULAR MATERIALS SHALL BE COMPACTED TO 95±% MAXIMUM DRY DENSITY BY STD. PROCTOR METHOD
2. ALL CUT AND FILL SLOPES TO BE COVERED WITH JUTE MESH EROSION CONTROL BLANKETS AND/OR HYDROSEEDED WITH NEW ENGLAND ROADSIDE MATRIX MIX AT 35LBS PER ACRE OR EQUAL.
3. THE REQUIREMENT FOR INSTALLATION OF SUBDRAINS SHALL BE AT ALL CUT SECTIONS OR AS DETERMINED BY THE ENGINEER-OF-RECORD BASED ON FIELD CONDITIONS AT THE TIME OF CONSTRUCTION. SUBDRAINS SHALL BE OUTLETTED TO DAYLIGHT AS APPROVED BY THE ENGINEER-OF-RECORD.
4. ALL MATERIALS TO CONFORM TO STATE AND/OR MUNICIPAL STANDARD AS REQUIRED.

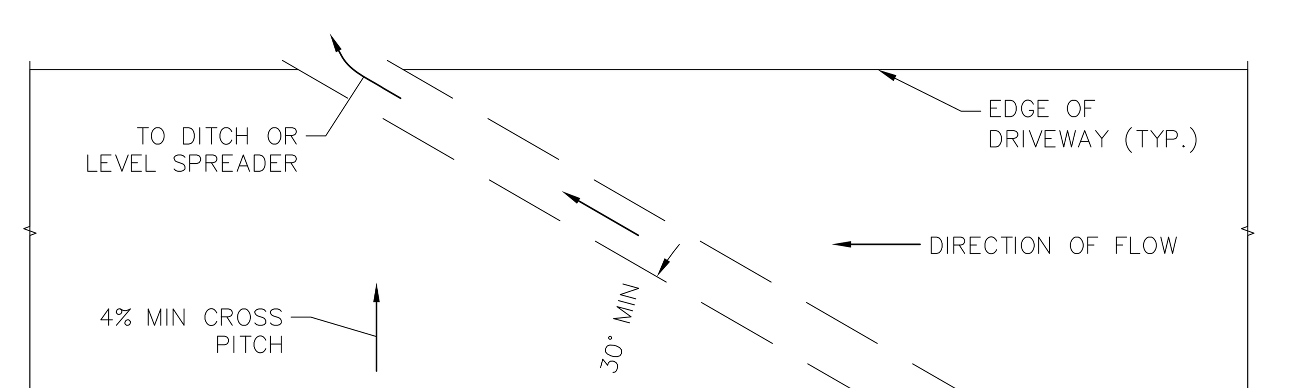
DRIVEWAY SECTION
SCALE: NONE
4 D-1

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

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



CROSS SECTION VIEW



PLAN VIEW

WATER BAR
SCALE: NONE
5 D-1

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4 Bay Road
Building A; Suite 200
Hadley, MA 01035
(413)320-4918

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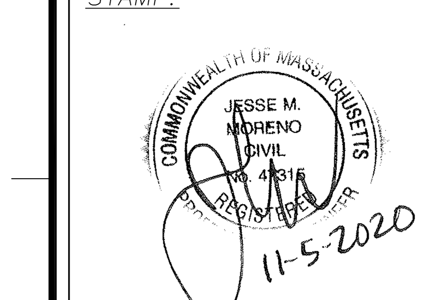
SITE NAME: COLRAIN GREENFIELD ROAD
SITE NUMBER: VT-MA-0198A
ADDRESS: GREENFIELD ROAD
COLRAIN, MA 01340

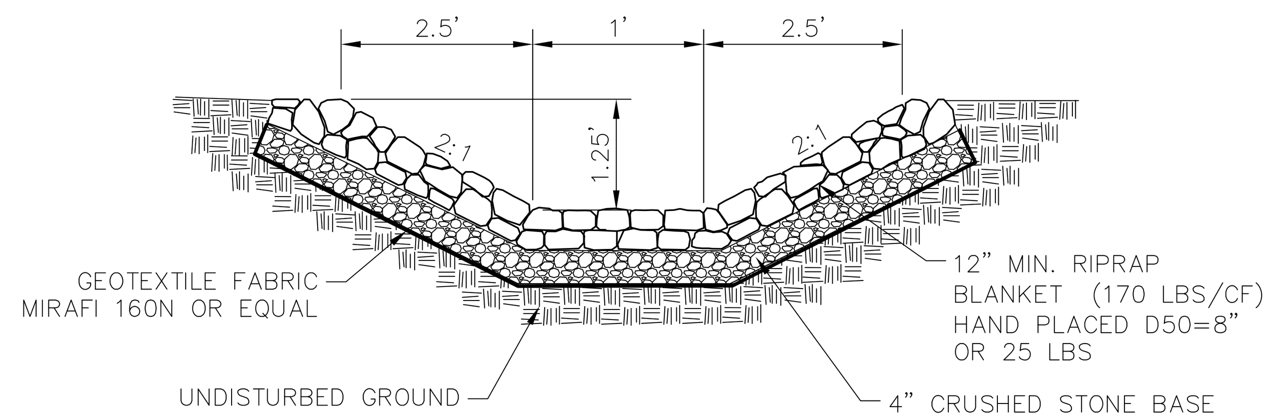
APPLICANT:
VERTEX TOWERS, LLC
155 SOUTH STREET
SUITE 205
WRENTHAM, MA 02093
Vertex Towers LLC

STAMP:


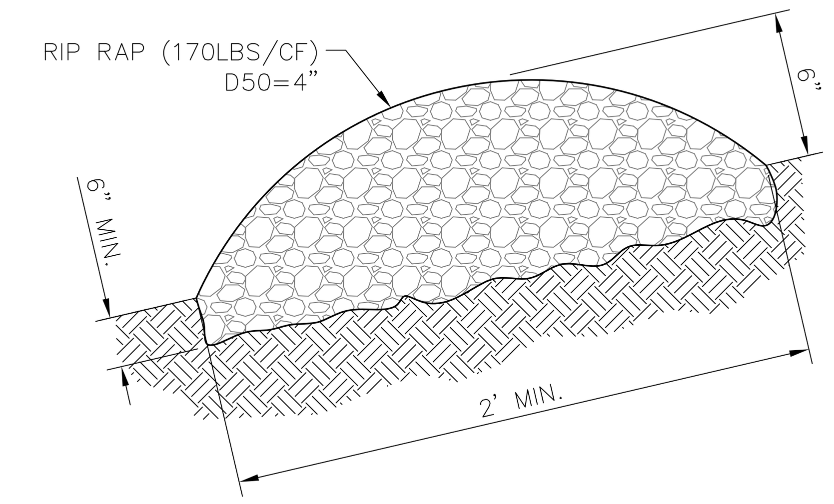
DATE: 11/05/2020
DRAWN: STZ/JEB
CHECK: JMM/TEJ
SCALE: SEE PLAN
JOB NO.: 18-015

SHEET TITLE:
DETAILS

D-1



RIPRAP SWALE 1 / D-2
SCALE: NONE



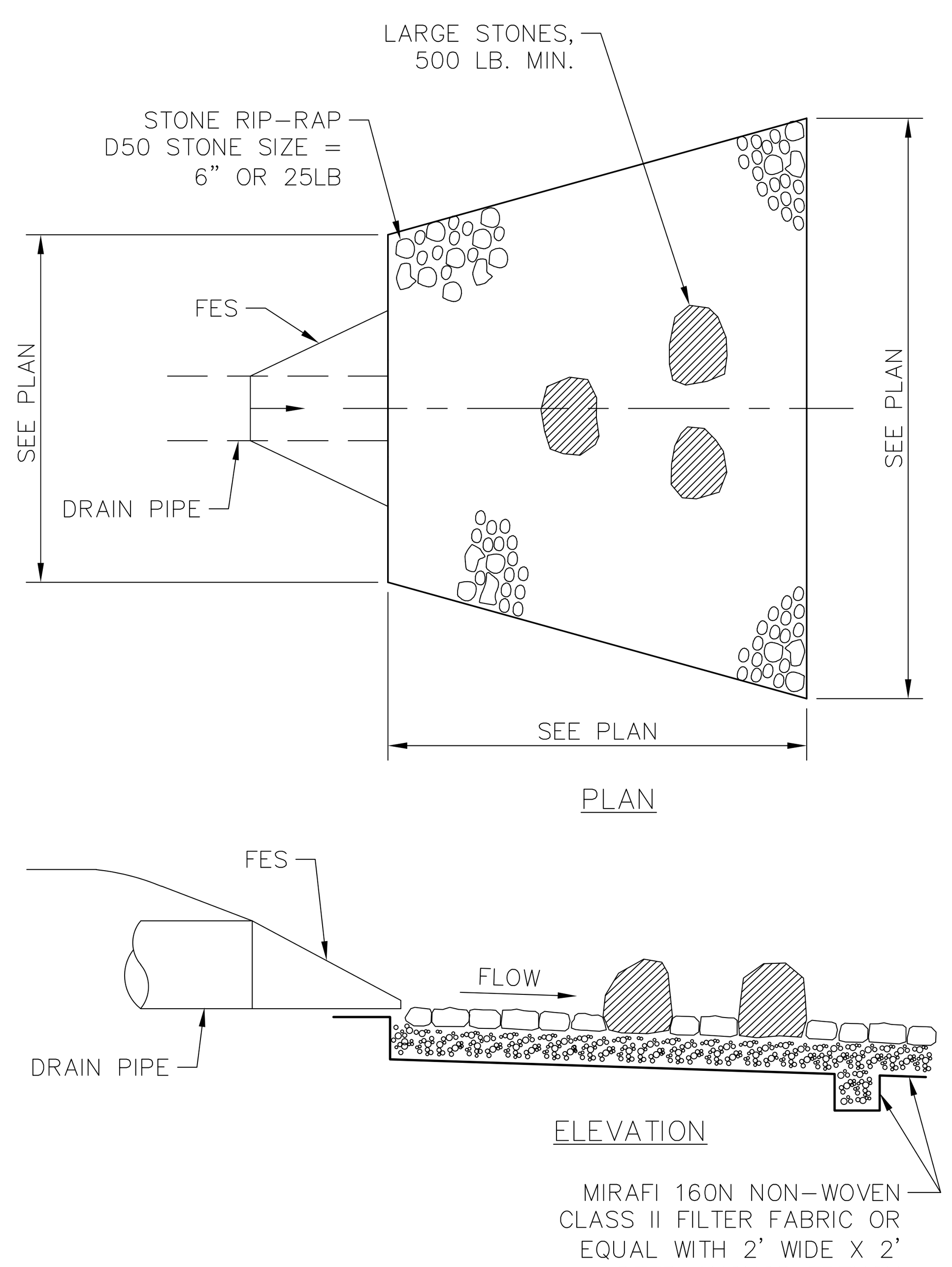
PLACE RIP RAP CHECK DAM WITHIN RIP RAP SWALES SPACED AT:

- 150' MIN. WHERE LONGITUDINAL SLOPES ARE 5–10%.
- 100' MIN. WHERE LONGITUDINAL SLOPES ARE 10–20%.

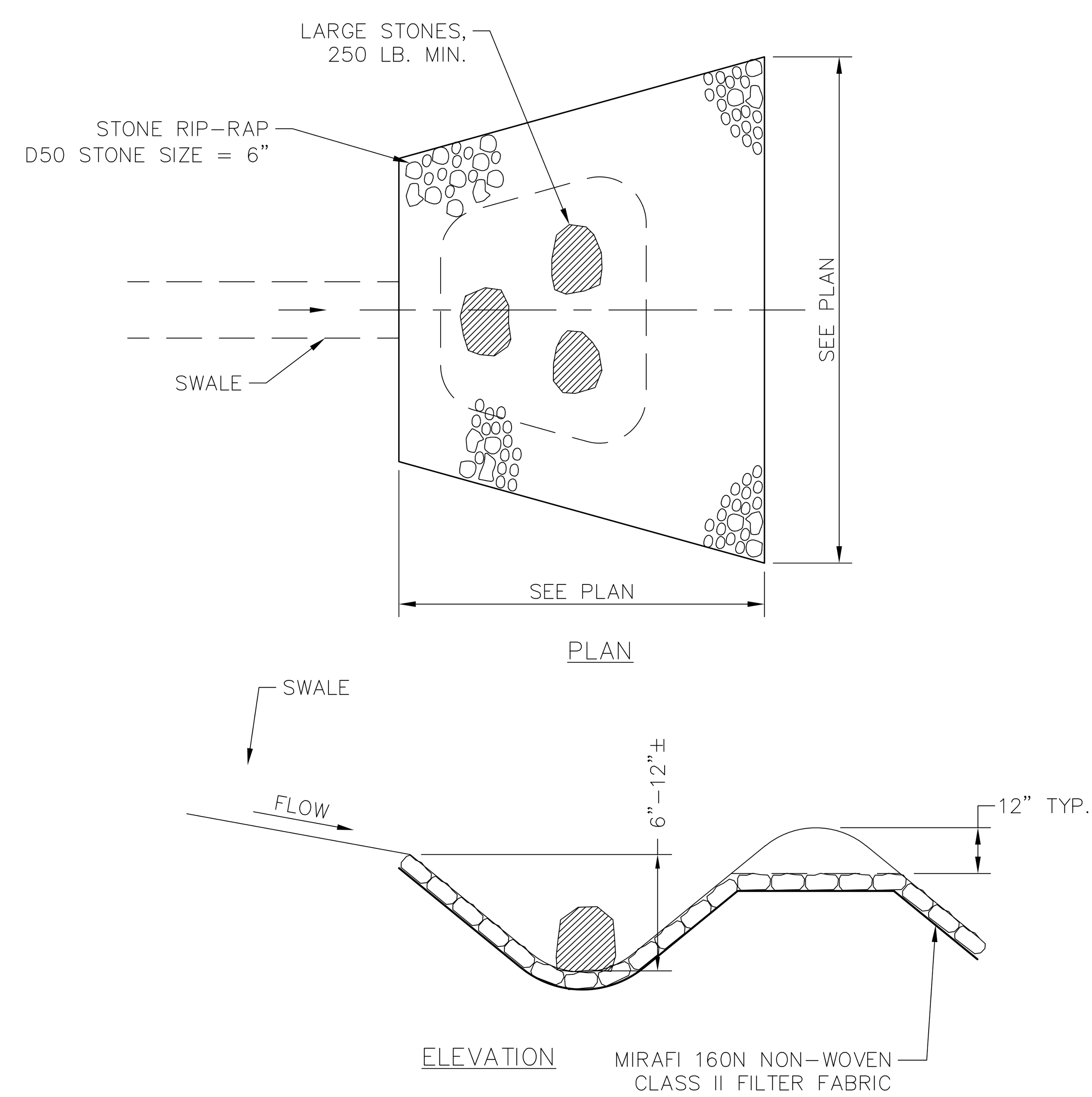
PLACE RIP RAP CHECK DAM WITHIN VEGETATED SWALES SPACED AT:

- THE MAXIMUM SPACING BETWEEN THE DAMS SHOULD BE SUCH THAT THE TOE OF THE UPSTREAM DAM IS AT THE SAME ELEVATION AS THE OVERFLOW ELEVATION OF THE DOWNSTREAM DAM.

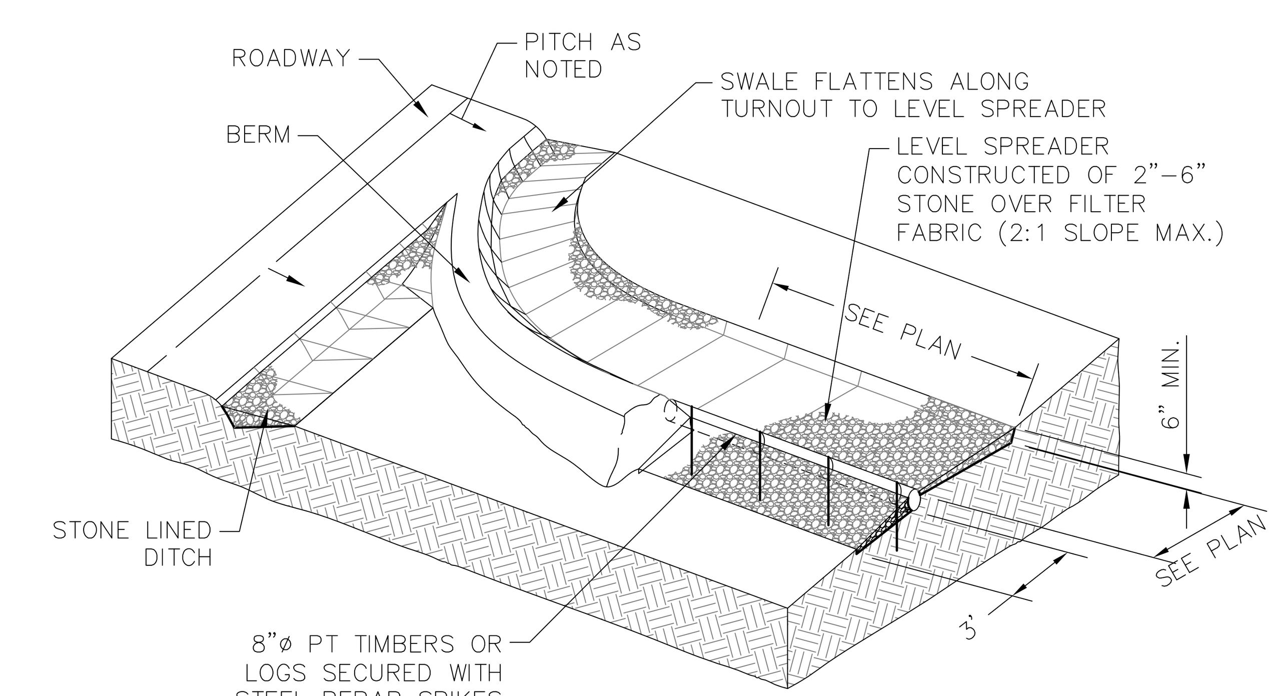
RIP RAP CHECK DAM 2 / D-2
SCALE: NONE



OUTLET PROTECTION 3 / D-2
SCALE: NONE



PLUNGE POOL 4 / D-2
SCALE: NONE



DITCH TURNOUT & LEVEL SPREADER 5 / D-2
SCALE: NONE

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APPLICANT: VERTEX TOWERS, LLC
155 SOUTH STREET
SUITE 205
WRENTHAM, MA 02093
Vertex Towers LLC

STAMP:
COMMONWEALTH OF MASSACHUSETTS
JESSE M. MORENO
CIVIL
No. 48318
REGISTERED
11-5-2020

DATE: 11/05/2020
DRAWN: STZ/JEB
CHECK: JMM/TEJ
SCALE: SEE PLAN
JOB NO.: 18-015

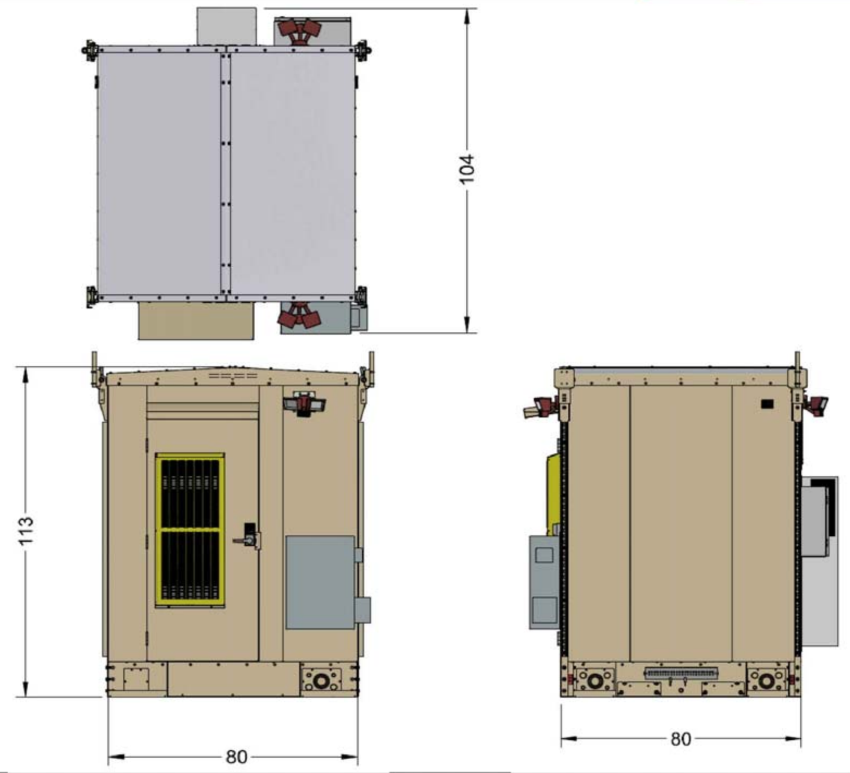
SHEET TITLE:
DETAILS

D-2

SMARTMOD UE - PRODUCT CONFIGURATION
6 X 6 WALK IN CABINET – ASSEMBLY DRAWING

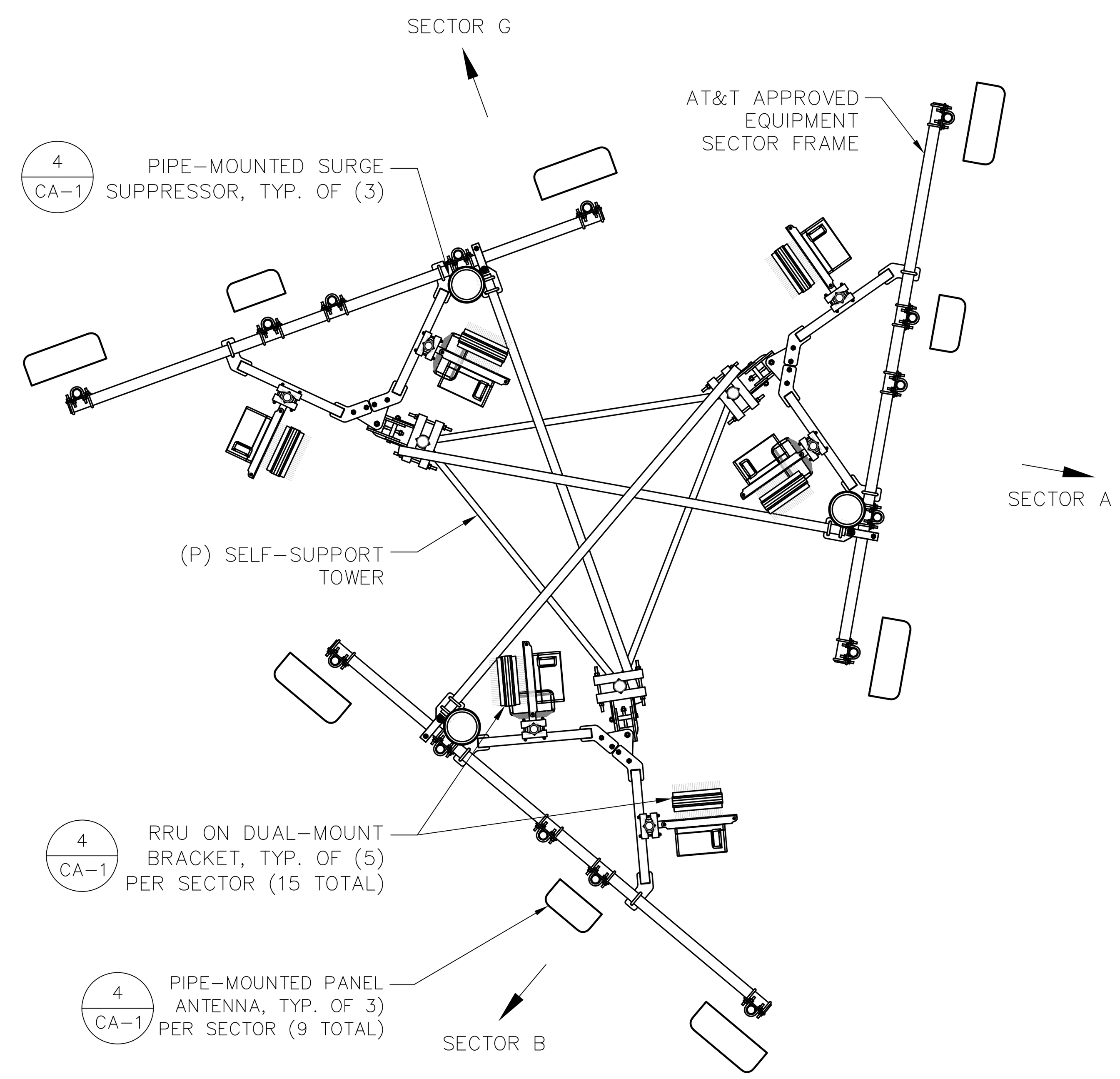
- External Dimensions
  - 80" x 80" x 113"
- Internal Dimensions
  - 72" x 72" x 105"
- NEQ 19737 (includes below)

Component	Description
F2017012-WIC	ATT 6X6 WIC with labor DC power system, Schrofftech DAC, Marvair HVAC Integration
582127000103	NS721,-48V@1KA,+24V@520A,3 BAT TRAYS@STD
PTLC-12200-MTS	120/240, 200A 1PH; MTS; Strikesorb; 42-Pos SqD Panelboard; 40Hx30Wx10D NEMA Type 3R; ICL CamLok Panel and Utility voltage monitor and dry relay contact alarm for 120/240, 200A 1PH MP Series
AF000135	Direct Air Cooling unit - Lead Lag HVAC Controller/with Smoke Detector
PTS3703-WIC-WOF	Rack CommBay-WIC-W/out Fiber Panel
PTS3704-WIC-WF	Rack CommBay-WIC-With Fiber Panel
ECUA12ACA036S-A5-100	1 TON WALL MOUNTED HVAC, supply & return grille and commstat controlller and remote sensor
D1000-0010-0066	WIC Hut Platform Kit - (1) 80" x 80" Platform, (1)2 Step Stair and (4) 6' x 7' Helical Foundation with Leveling Hardware.- Finish: Hot Dip Galvanized



VERTIV

EQUIPMENT (WIC) WALK IN CABINET
1 CA-1
SCALE: NONE



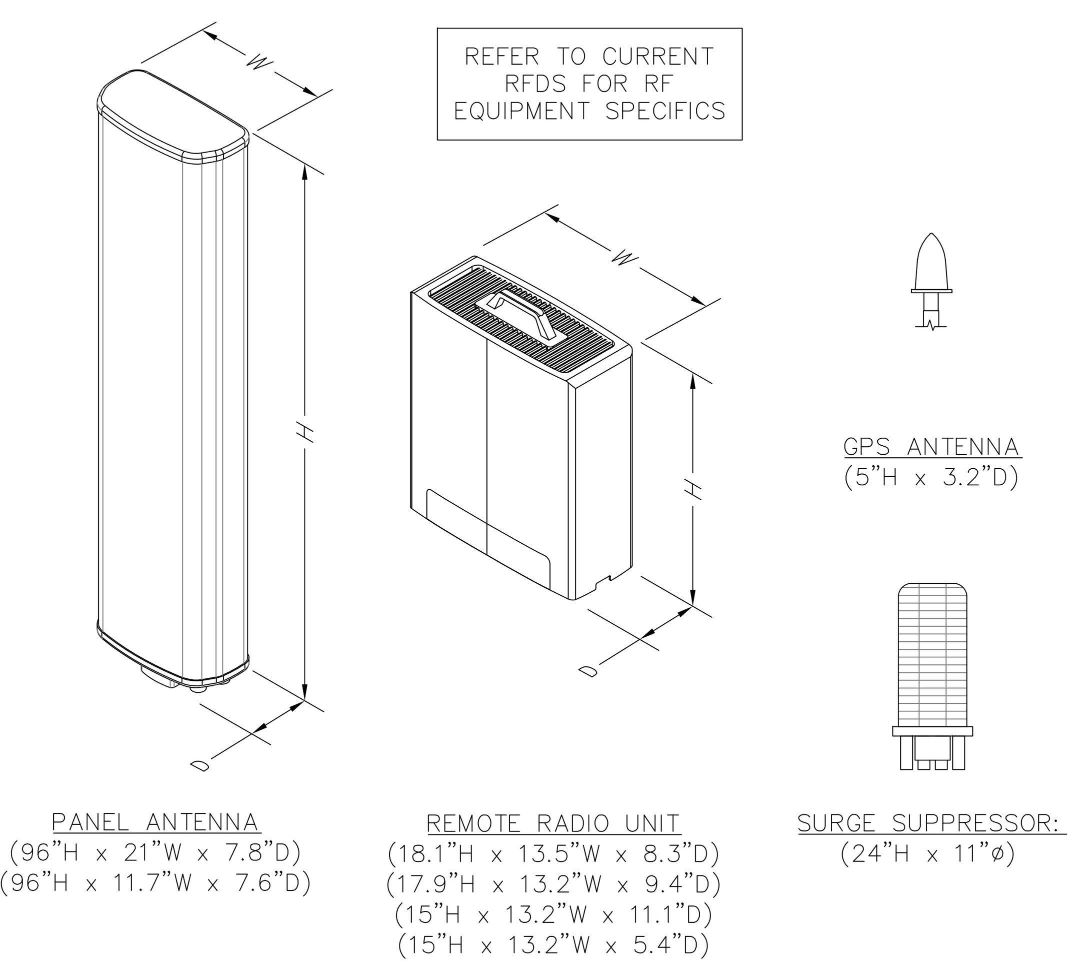
ANTENNA PLAN
3 CA-1
SCALE: NONE

TENANT INFORMATION

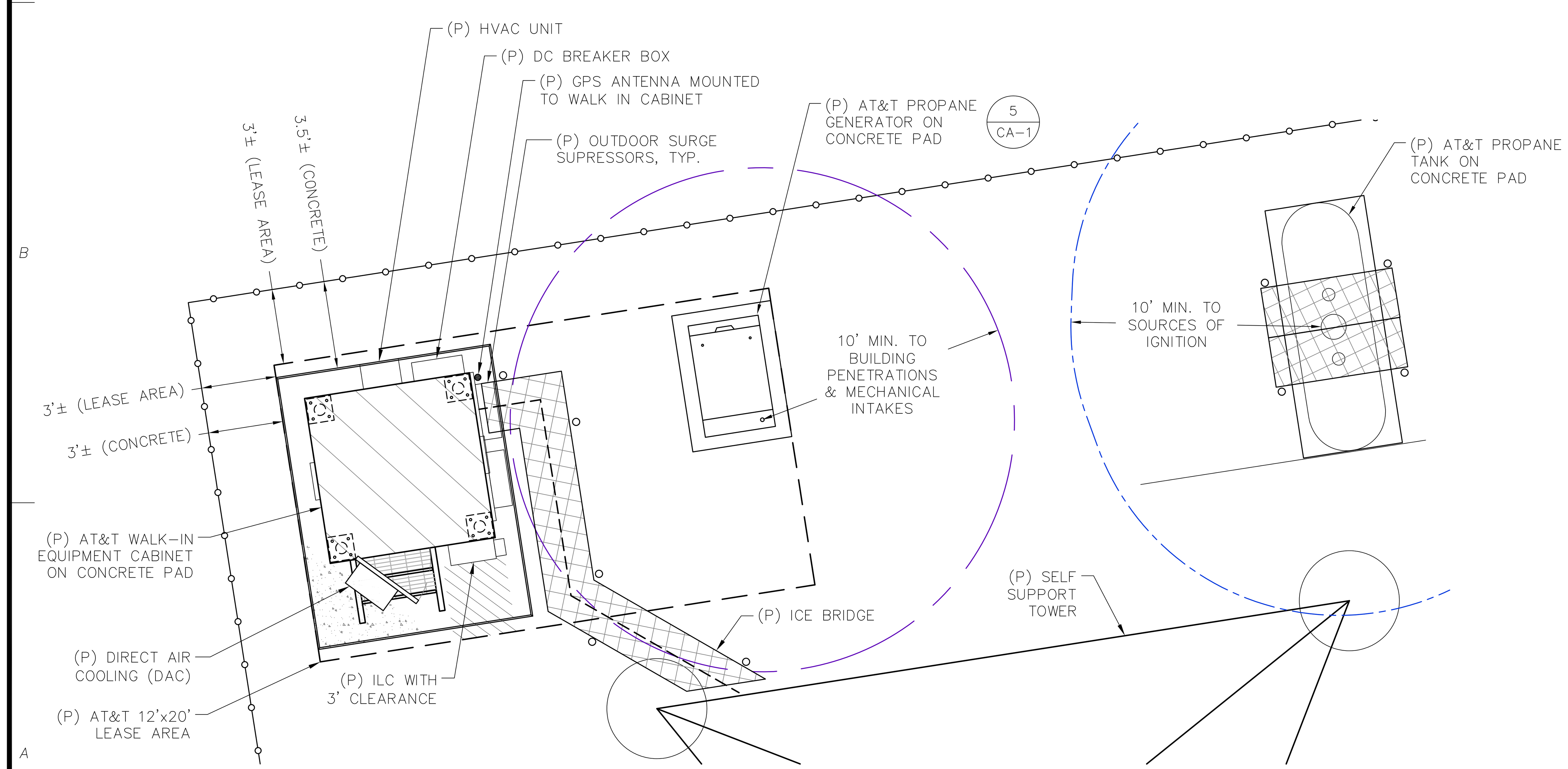
at&t

SITE NAME: COLRAIN MA
SITE ID: MA5120S

NEW CINGULAR WIRELESS PCS, LLC
("AT&T")
550 COCHITUATE ROAD
FRAMINGHAM, MA 01701



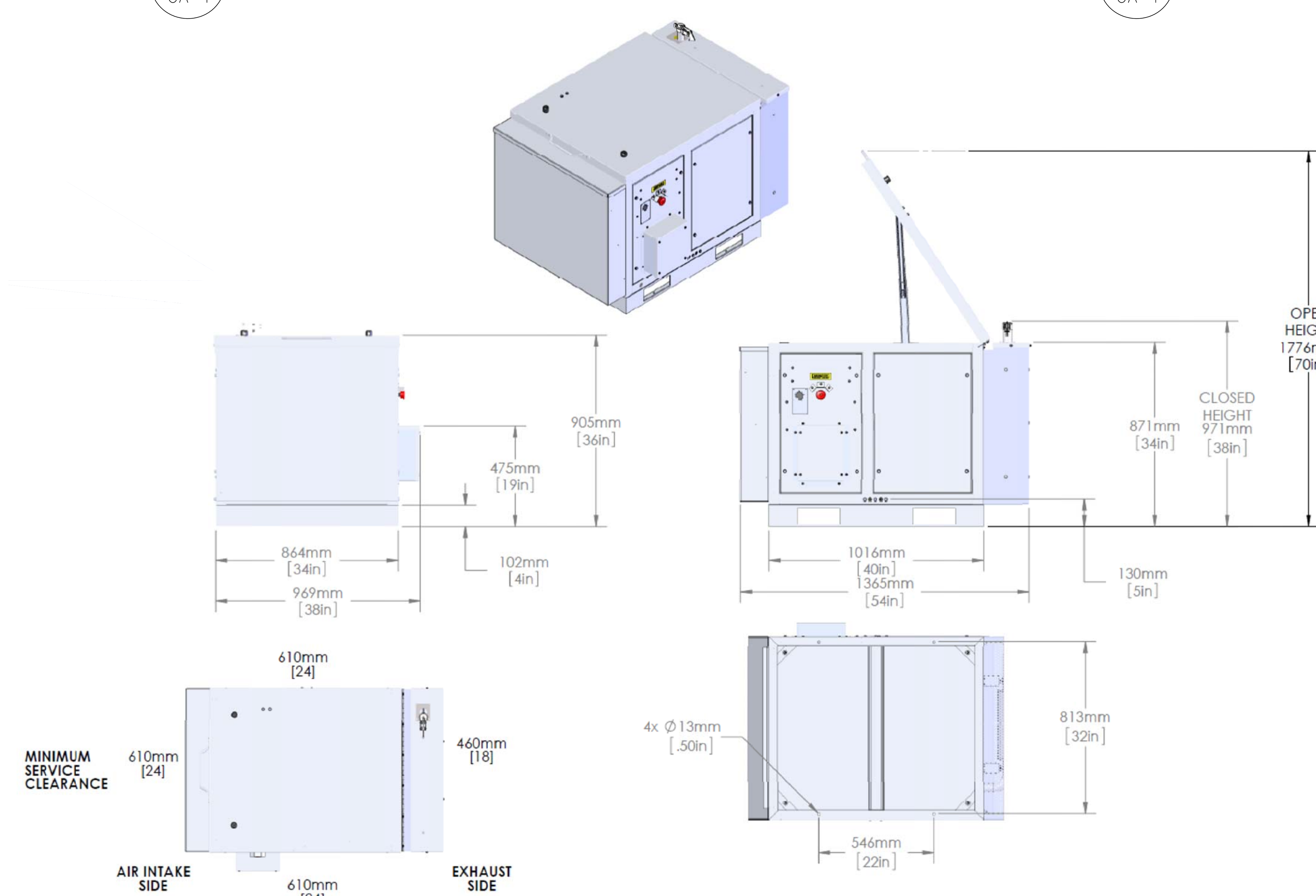
RF ANTENNA EQUIPMENT
4 CA-1
SCALE: NONE



NOTE: 6' x 6' EQUIPMENT SHELTER FOR AT&T WIRELESS SERVICES BY SABRE INDUSTRIES SHOWN. VERIFY MAKE AND MODEL WITH CONSTRUCTION MANAGER PRIOR TO COMMENCEMENT OF CONSTRUCTION

GROUND EQUIPMENT LAYOUT PLAN
2 CA-1
SCALE: 1"=3' (22x34)
1"=6' (11x17)

3 1.5 0 3 6



PROPANE DC GENERATOR
5 CA-1
SCALE: NONE

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VERTEX TOWERS, LLC
155 SOUTH STREET
SUITE 205
WRENTHAM, MA 02093

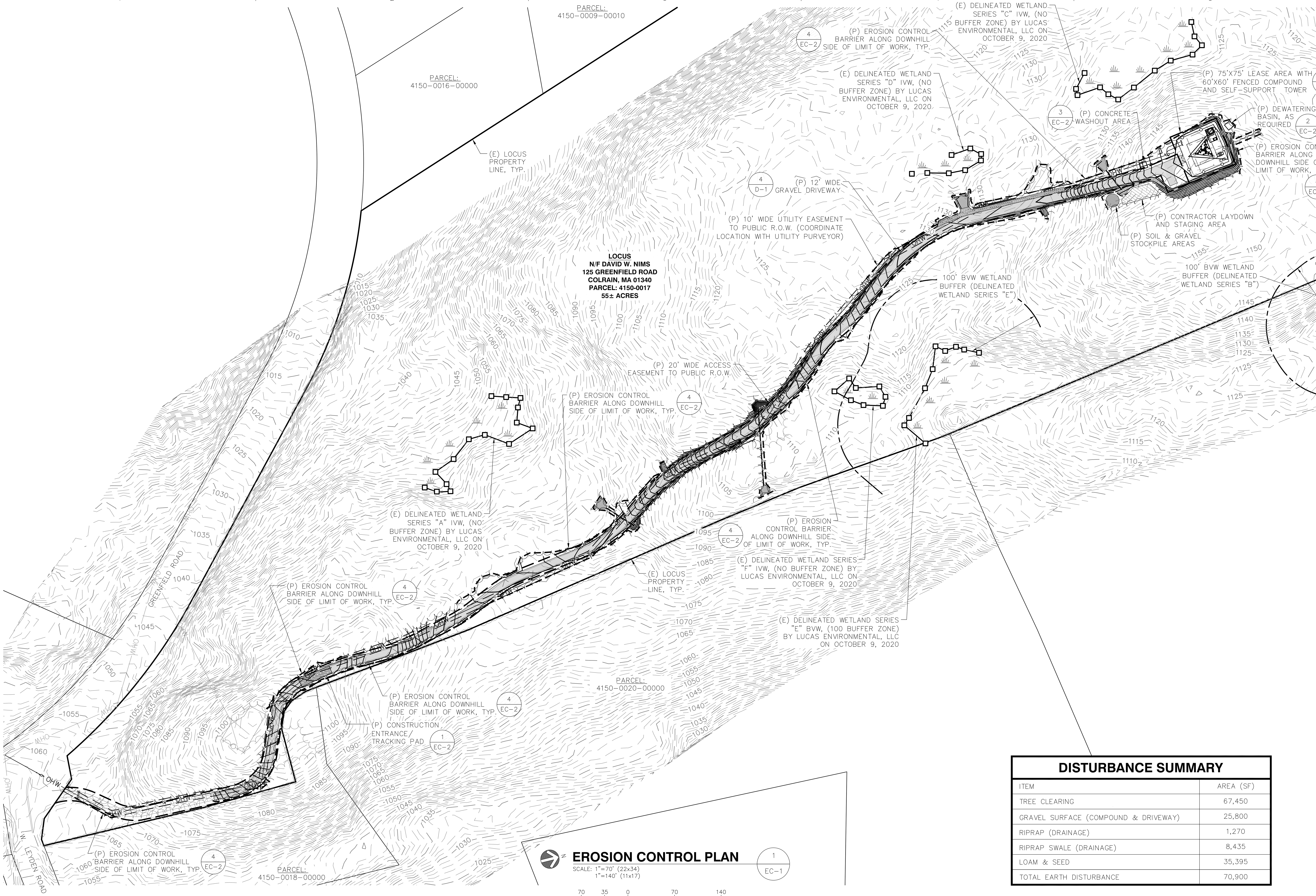
Vertex Towers LLC

STAMP:
COMMONWEALTH OF MASSACHUSETTS
JESSE M. MORENO
CIVIL
No. 47316
REGISTERED PROFESSIONAL ENGINEER
11-5-2020

DATE: 11/05/2020
DRAWN: STZ/JEB
CHECK: JMM/TEJ
SCALE: SEE PLAN
JOB NO.: 18-015

SHEET TITLE:
TENANT DETAILS

CA-1



DISTURBANCE SUMMARY

ITEM	AREA (SF)
TREE CLEARING	67,450
GRAVEL SURFACE (COMPOUND & DRIVEWAY)	25,800
RIPRAP (DRAINAGE)	1,270
RIPRAP SWALE (DRAINAGE)	8,435
LOAM & SEED	35,395
TOTAL EARTH DISTURBANCE	70,900

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SUITE 205
WRENTHAM, MA 02093
Vertex Towers LLC

STAMP:
COMMONWEALTH OF MASSACHUSETTS
JESSE M. MORENO
CIVIL
No. 48134
REGISTERED PROFESSIONAL ENGINEER
11-5-2020

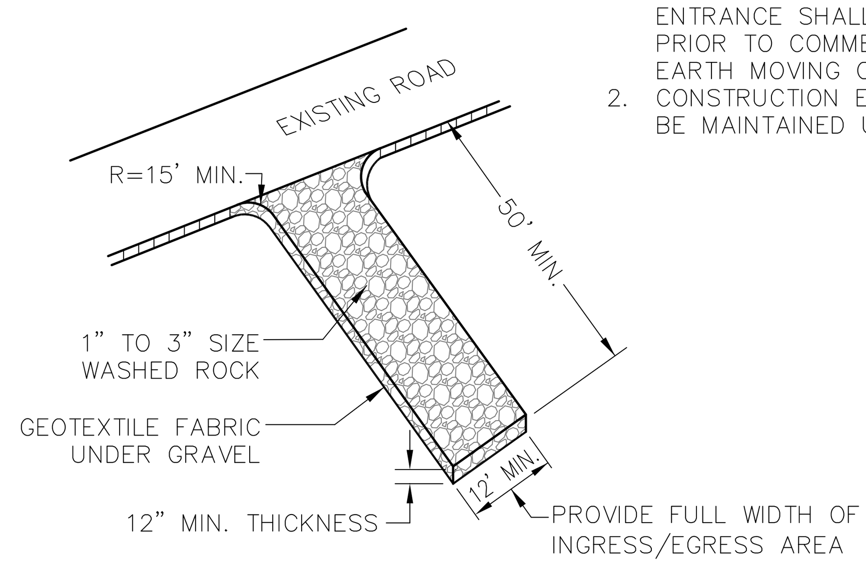
DATE: 11/05/2020
DRAWN: STZ/JEB
CHECK: JMM/TEJ
SCALE: SEE PLAN
JOB NO.: 18-015

SHEET TITLE:
EROSION CONTROL PLAN & DETAILS

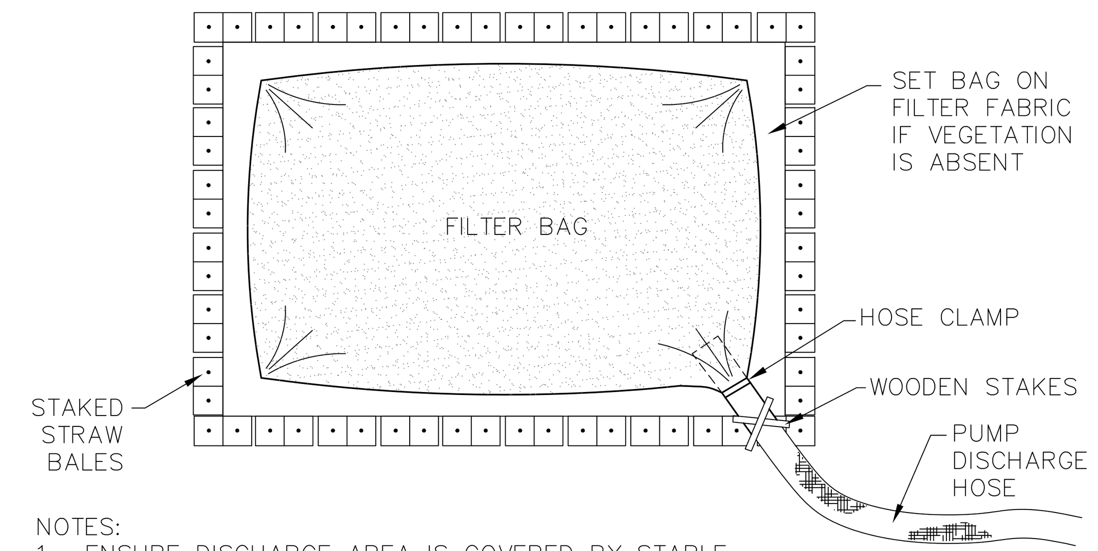
EC-1

CONSTRUCTION ENTRANCE NOTES:

1. AGGREGATE CONSTRUCTION ENTRANCE SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF EARTH MOVING OPERATIONS.
2. CONSTRUCTION ENTRANCE TO BE MAINTAINED UNTIL REMOVED.

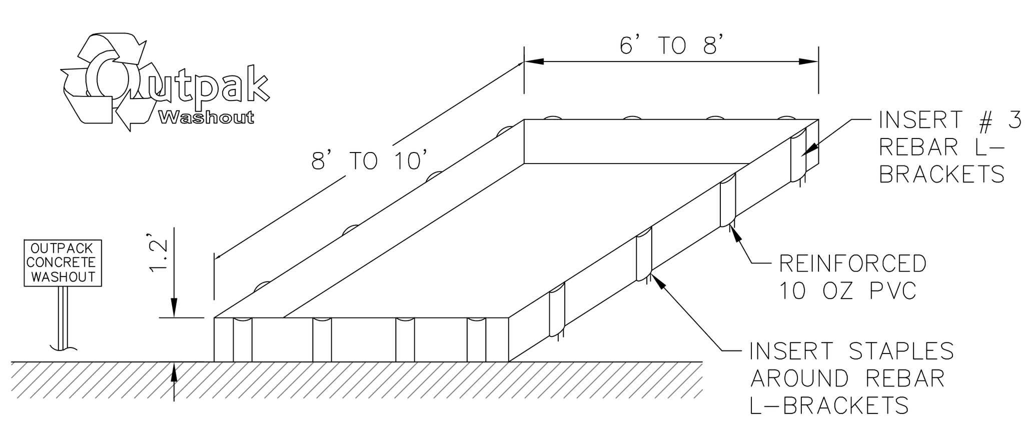


CONSTRUCTION ENTRANCE (1 / EC-2)
SCALE: NONE



NOTES:
1. ENSURE DISCHARGE AREA IS COVERED BY STABLE VEGETATION.
2. USE DIFFUSER NOZZLE OR LOW DISCHARGE RATE TO PREVENT SCOURING.
3. TO BE PLACED AT AN UPLAND LOCATION THAT WILL ALLOW WATER TO DRAIN TO THE GROUND.
4. SIZE OF STRAW BALE ENCLOSURE TO BE 10'x10' ADJUSTED TO WATER VOLUME.
5. ADDITIONAL STRAW BALES MAY BE USED TO INCREASE RETENTION & FILTERING.

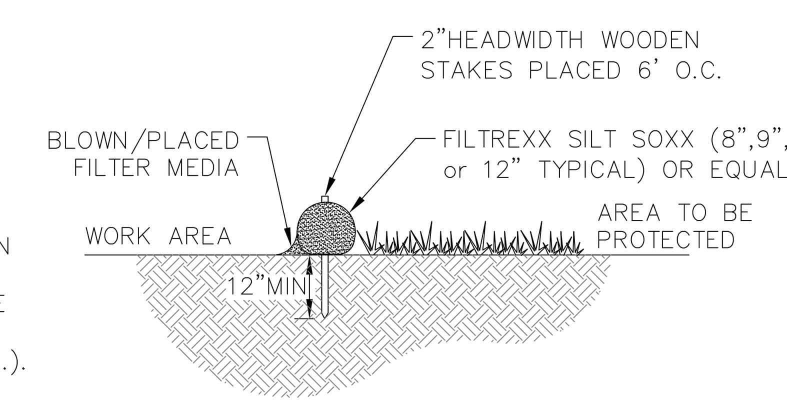
DEWATERING BASIN (2 / EC-2)
SCALE: NONE



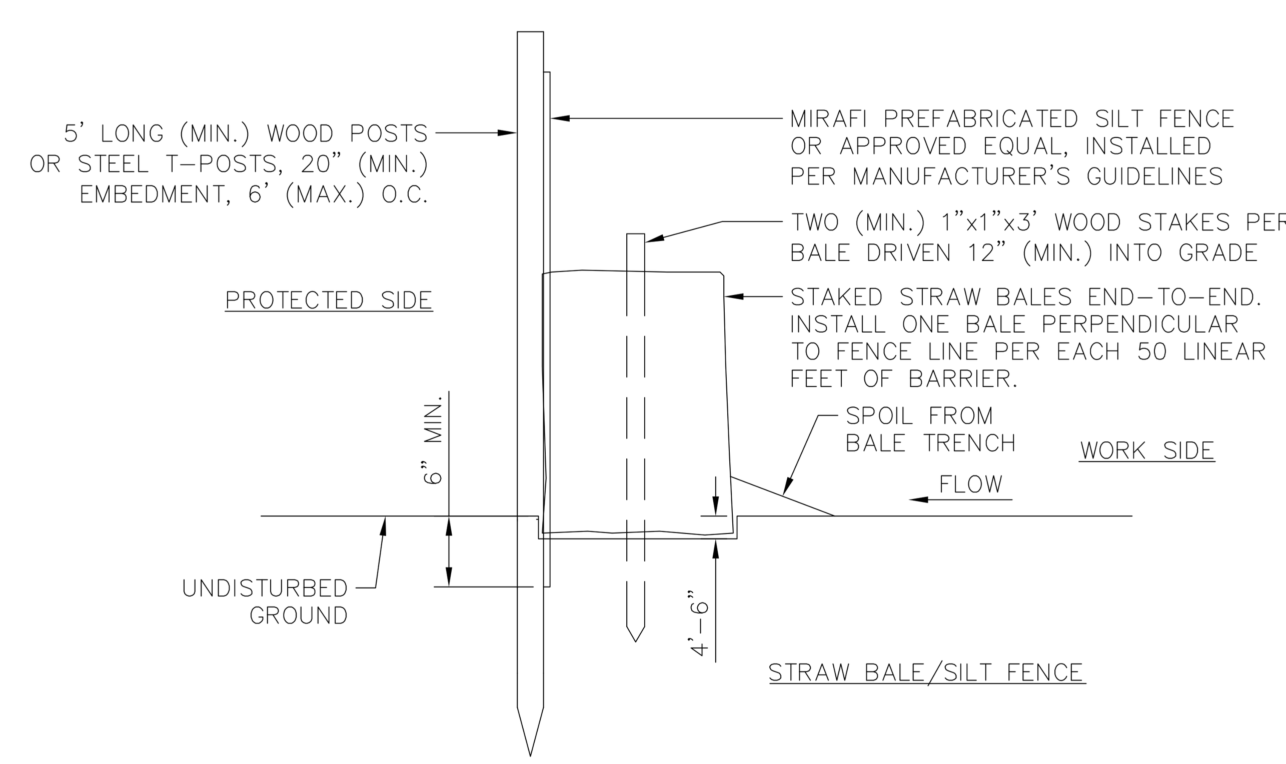
NOTES:
1. THE CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON THIS PROJECT.
2. SIGNS SHALL BE PLACED AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT.
3. THE CONCRETE WASHOUT AREA WILL BE REPLACED AS NECESSARY TO MAINTAIN CAPACITY FOR WASTE CONCRETE AND OTHER LIQUID WASTE.
4. WASHOUT RESIDUE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED WASTE SITE.
5. DO NOT MIX EXCESS AMOUNTS OF FRESH CONCRETE OR CEMENT ON-SITE.
6. DO NOT WASH OUT CONCRETE TRUCKS INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS.
7. AVOID DUMPING EXCESS CONCRETE IN NON-DESIGNATED DUMPING AREAS.
8. LOCATE WASHOUT AREA AT LEAST 50' (15 METERS) FROM STORM DRAINS, OPEN DITCHES, OR WATERBODIES.
9. WASH OUT WASTES INTO THE OUTPACK WASHOUT AS SHOWN WHERE THE CONCRETE CAN SET, BE BROKEN UP, AND THEN DISPOSED OF PROPERLY.

CONCRETE WASHOUT AREA (3 / EC-2)
SCALE: NONE

NOTES:
1. USE SILT SOXX WHERE CONDITIONS DO NOT ALLOW STAKES TO BE DRIVEN.
2. SILT SOXX FILL TO MEET FILTREXX SPECIFICATIONS AND APPLICATION REQUIREMENTS.
3. SILT SOXX COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.
4. FILTER MEDIA/STRAW BALES TO BE INERT AND FREE FROM INVASIVE WEEDS AND NON-NATIVE SPECIES.
5. MAY STAKE BEHIND SOCK AT SLIGHT ANGLE (6' O.C.).



SILT SOXX / COMPOST MEDIA SOCK



STRAW BALE/SILT FENCE

EROSION CONTROL BARRIER (4 / EC-2)
SCALE: NONE

EROSION CONTROL NOTES

1. APPLICANT PROPOSES TO CONSTRUCT A CELLULAR TELECOMMUNICATIONS FACILITY CONSISTING OF A FENCED COMPOUND AND UTILITY WORK WITHIN A LEASE AREA AND EASEMENTS.
2. TEMPORARY SILT FENCE EROSION CONTROL BARRIER SHALL BE MAINTAINED THROUGHOUT SITE CONSTRUCTION. STOCK PILE ON SITE 100 FT. OF SILT FENCE FOR EMERGENCY USE. TEMPORARY EROSION BARRIERS SHALL REMAIN IN PLACE UNTIL PERMANENT VEGETATIVE GROUND COVER IS ESTABLISHED.
3. THE CONTRACTOR SHALL CHIP ALL BRUSH AND SLASH CUTTINGS ON SITE AND STOCKPILE THE CHIPS TO BE USED ON ALL UNSTABLE, DISTURBED AREAS DURING CONSTRUCTION AS TEMPORARY STABILIZATION MULCH. NO BURNING WILL BE ALLOWED ON SITE.
4. TEMPORARY STABILIZATION MUST BE PROVIDED TO ANY DISTURBED EARTH THAT IS OPENED UP IN ANY ONE LOCATION FOR MORE THAN 14 DAYS. CHIPS FROM LAND CLEARING, EROSION CONTROL BLANKETS, OR FAST GROWING RYE GRASSES MAY BE USED FOR TEMPORARY STABILIZATION AS REQUIRED.
5. STRIPPED TOPSOIL SHALL BE STOCKPILED AND PROTECTED WITH STRAW MULCH. ALL STOCKPILES SHALL HAVE AN APPROVED SILTATION BARRIER TOTALLY SURROUNDING THE PILE. THE PILE SHALL BE IN AN APPROVED UPLAND AREA A MINIMUM OF TWENTY-FIVE FEET FROM ALL RESOURCE AREAS.
6. THE PHASING AND SEQUENCING OF THE WORK FOR THE SITE PREPARATION FOR THE TELECOMMUNICATIONS EQUIPMENT INSTALLATION CONSISTS OF INSTALLING TEMPORARY EROSION AND SEDIMENTATION CONTROL BARRIERS; CLEARING AND ROUGH GRADING AS NEEDED; FOUNDATION WORK; EXCAVATION FOR UTILITIES; BACK FILL FOUNDATIONS AND UTILITY TRENCHES; FENCED COMPOUND CONSTRUCTION; INSTALLATION OF TOWER AND GROUND EQUIPMENT; GROUNDING AND LIGHTNING PROTECTION; EQUIPMENT TESTING; FINAL GRADING AND STABILIZATION OF DISTURBED AREAS; LOAM AND SEED DISTURBED AREAS OUTSIDE COMPOUND; FINAL CLEANUP. THE ESTIMATED TIME FOR COMPLETION OF THE WORK IS APPROXIMATELY **TWENTY (20) WEEKS.**
7. THE COMPOUND ENCLOSURE IS SURFACED WITH CRUSHED STONE UNDERLAIN BY A WEED-BLOCK SYNTHETIC FILTER FABRIC. DRAINAGE PATTERNS, RUNOFF VOLUMES AND PEAK FLOW RATES WILL NOT BE ALTERED BY THE PROPOSED CONSTRUCTION.
8. ALL DISTURBED AREAS OUTSIDE THE LIMITS OF THE FENCED COMPOUND SHALL BE PERMANENTLY ESTABLISHED WITH A NATIVE VEGETATIVE GROUND COVER AT THE CONCLUSION OF CONSTRUCTION. GRADED AREAS SHALL BE PROTECTED WITH STRAW MULCH UNTIL A GOOD VEGETATIVE COVER IS ESTABLISHED.
9. THE TOTAL IMPACT AREA OF THE DISTURBED CONSTRUCTION SITE IS BOUNDED BY THE "LIMIT OF WORK" AS SHOWN HEREON. THE MAXIMUM AREA OF DISTURBANCE WITHIN THE LIMIT OF WORK IS APPROXIMATELY **70900 SQUARE FEET**. THE PROJECT IMPACT AREA IS ABOVE THE EXEMPTION THRESHOLD OF 43,560 SQUARE FEET IN 40 CFR PARTS 9, 122-124 AND THEREFORE IS SUBJECT TO REGULATION UNDER THE EPA NPDES GENERAL CONSTRUCTION PERMIT PROGRAM.
10. THE PROJECT OWNER'S GENERAL CONTRACTOR SHALL CONDUCT ALL SITE DEVELOPMENT WORK IN A MANNER THAT DOES NOT EXCEED THE LIMITS OF WORK SHOWN ON THE PLANS. ADDITIONALLY, THE PROJECT OWNER'S GENERAL CONTRACTOR SHALL CONDUCT ALL CONSTRUCTION ACTIVITIES IN A MANNER THAT DOES NOT RESULT IN STORM WATER DISCHARGES WITH AN ADVERSE IMPACT ON ANY RESOURCE AREAS OR DOWNSTREAM PROPERTIES.
11. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL REMOVE ALL ACCUMULATED SILT FROM BEHIND SILTATION BARRIERS AND DISPOSE OF SILT EVENLY IN UPLAND AREAS. REMOVE ALL EROSION CONTROL DEVICES WHEN A GOOD VEGETATIVE COVER IS ESTABLISHED.
12. A CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON THIS PROJECT. SIGNS SHALL BE PLACED AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT. WASHOUT RESIDUE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED WASTE SITE.

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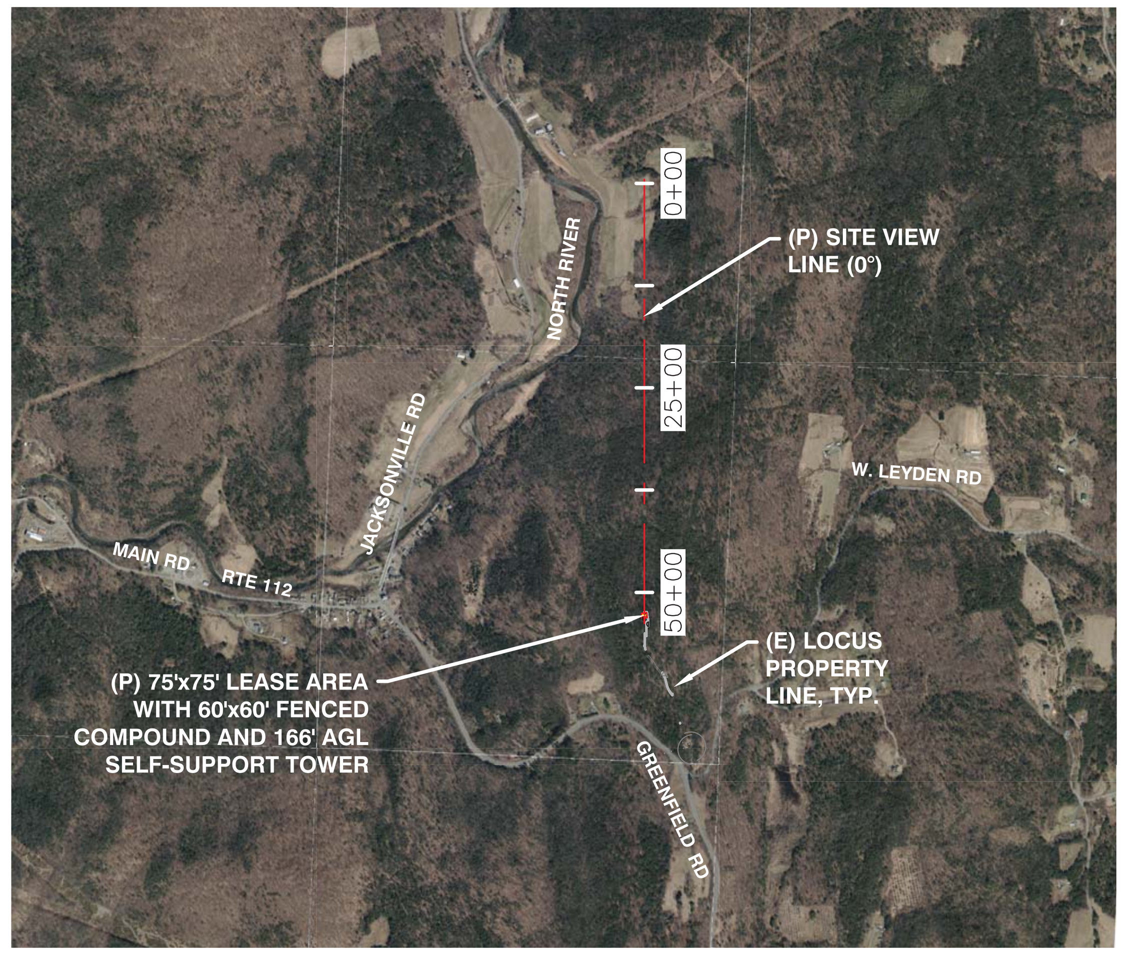
JOB NO.: 18-015

SHEET TITLE:
EROSION CONTROL DETAILS

EC-2

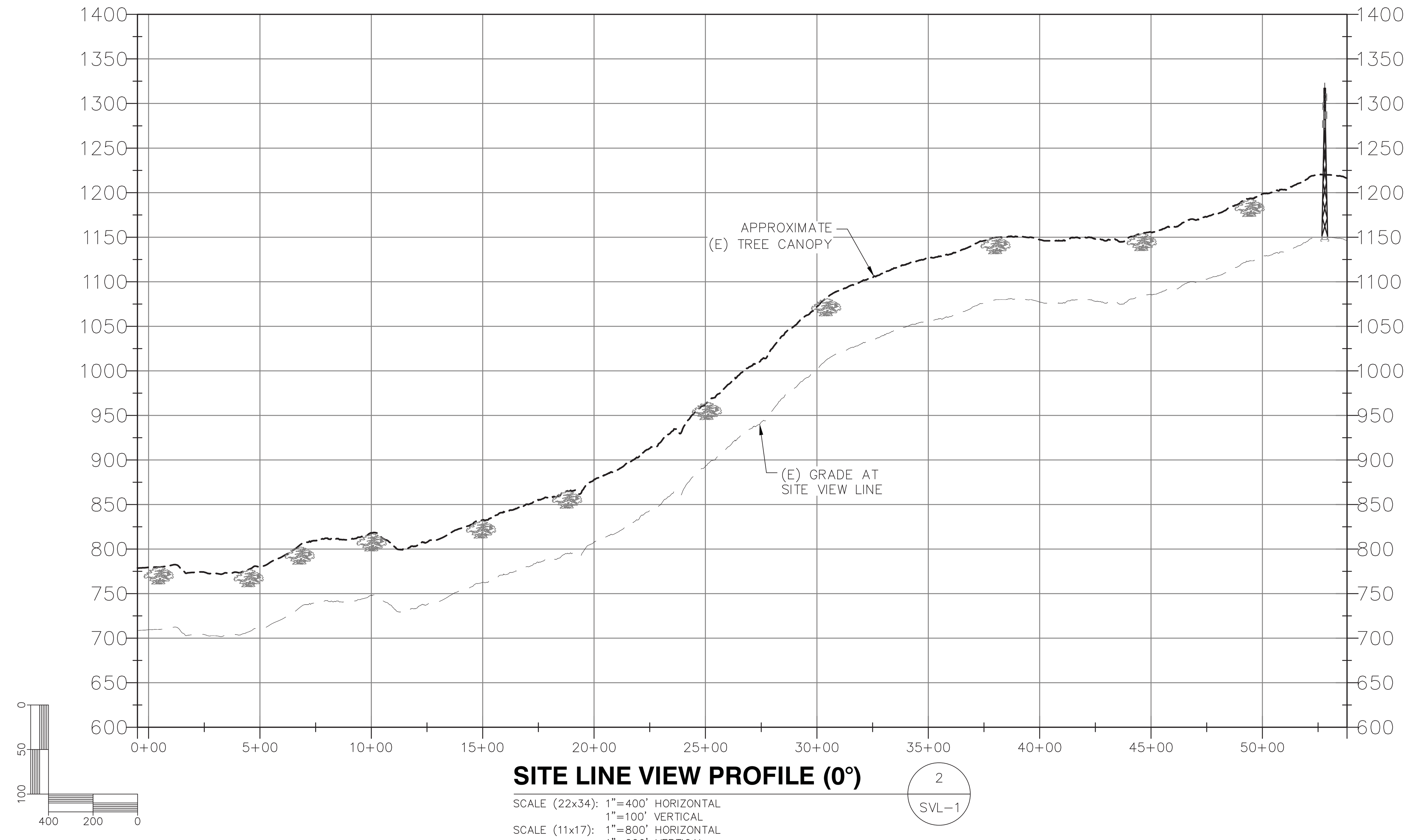


SITE VIEW LINE PLAN (0°)

1 / SVL-1

SCALE: 1"=2000' (22x34)
1"=4000' (11x17)

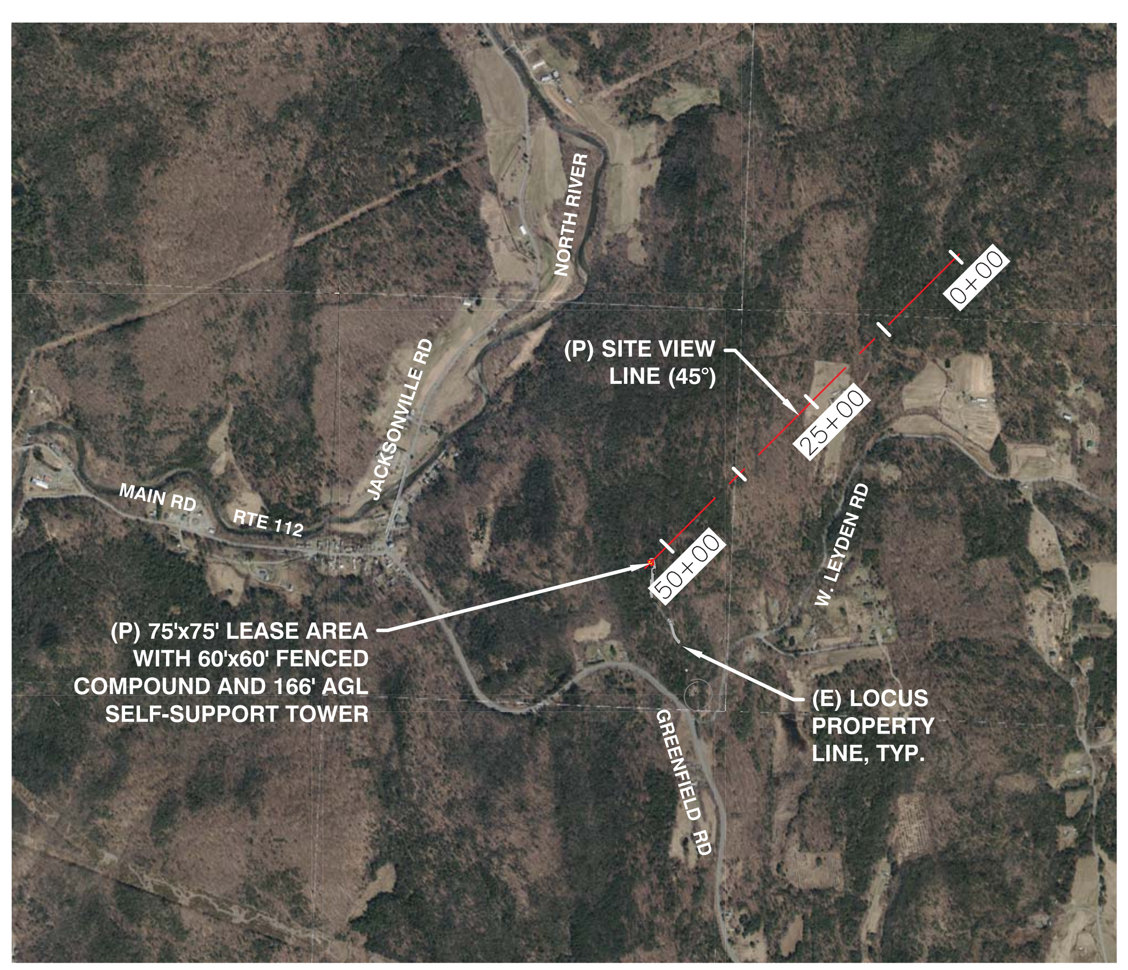
2000 1000 0 2000 4000



SITE LINE VIEW PROFILE (0°)

2 / SVL-1

SCALE (22x34): 1"=400' HORIZONTAL
1"=100' VERTICAL
SCALE (11x17): 1"=800' HORIZONTAL
1"=200' VERTICAL

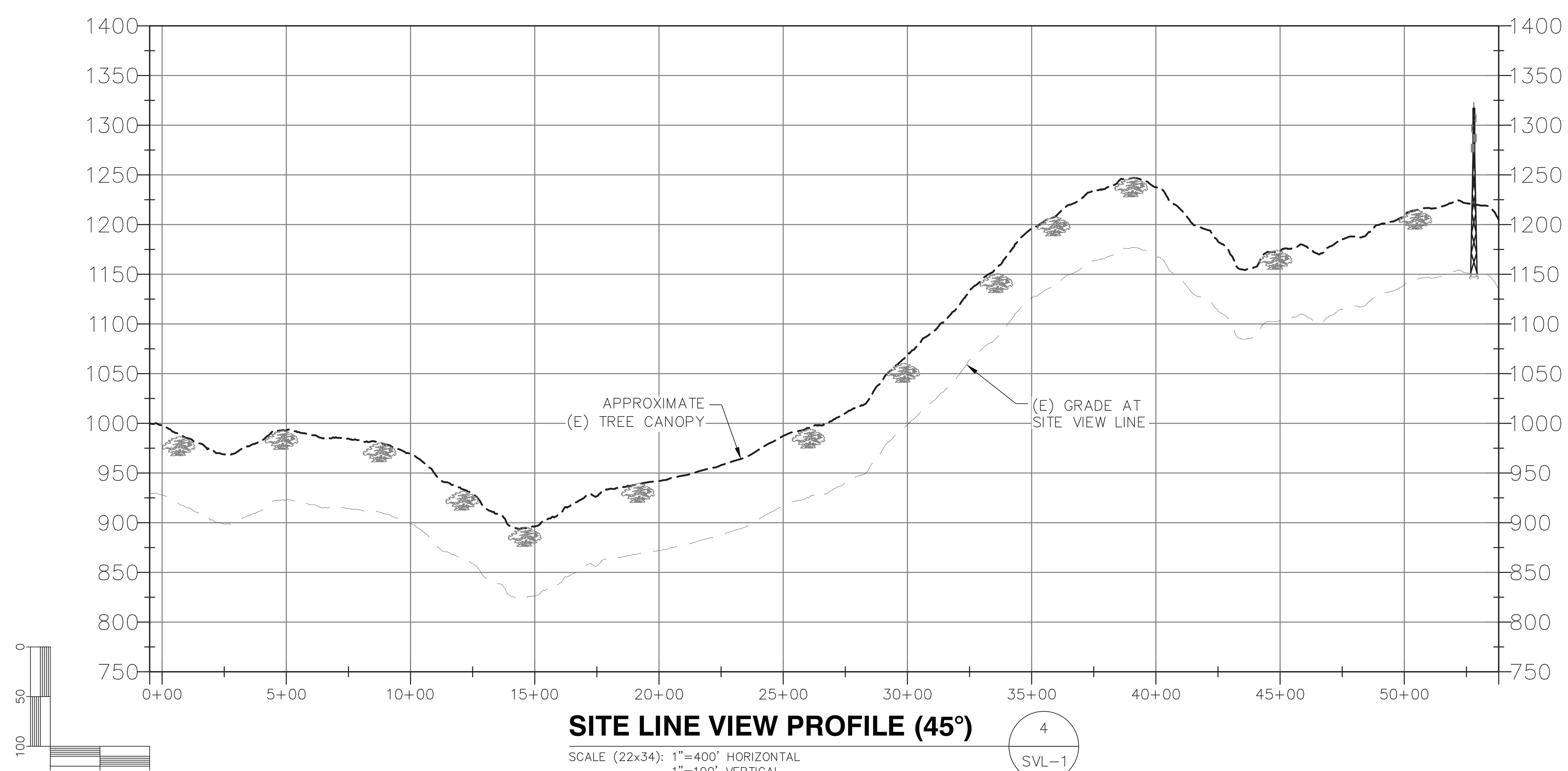


SITE VIEW LINE PLAN (45°)

3 / SVL-1

SCALE: 1"=2000' (22x34)
1"=4000' (11x17)

2000 1000 0 2000 4000



SITE LINE VIEW PROFILE (45°)

4 / SVL-1

SCALE (22x34): 1"=400' HORIZONTAL
1"=100' VERTICAL
SCALE (11x17): 1"=800' HORIZONTAL
1"=200' VERTICAL

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155 SOUTH STREET
SUITE 205
WRENTHAM, MA 02093

Vertex Towers LLC

STAMP:

COMMONWEALTH OF MASSACHUSETTS
JESSE M. MORENO
CIVIL
No. 48318
REGISTERED PROFESSIONAL ENGINEER

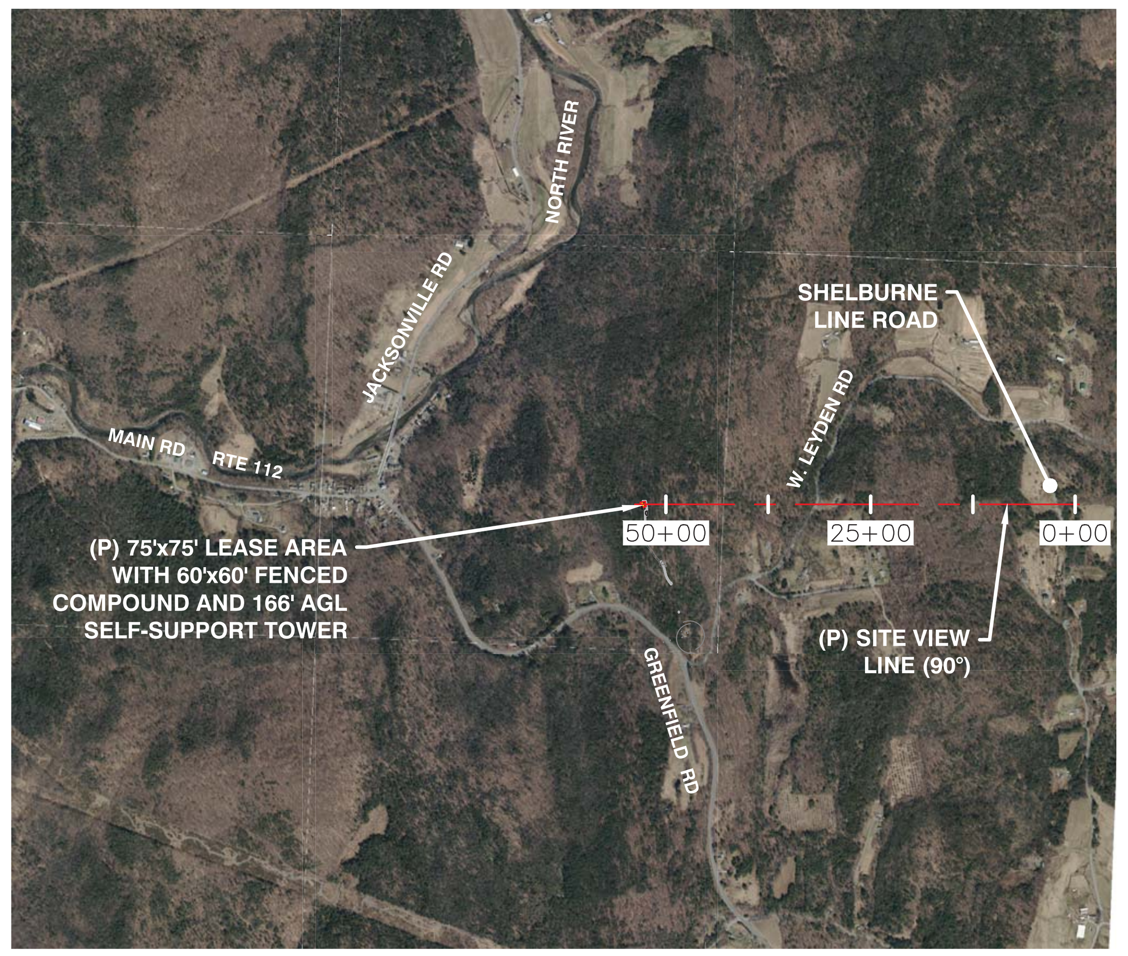
11-5-2020

FOR SCHEMATIC ONLY

DATE: 11/05/2020
DRAWN: BLM
CHECK: JMM/TEJ
SCALE: SEE PLAN
JOB NO.: 18-015

SHEET TITLE:
SITE VIEW LINE

SVL-1

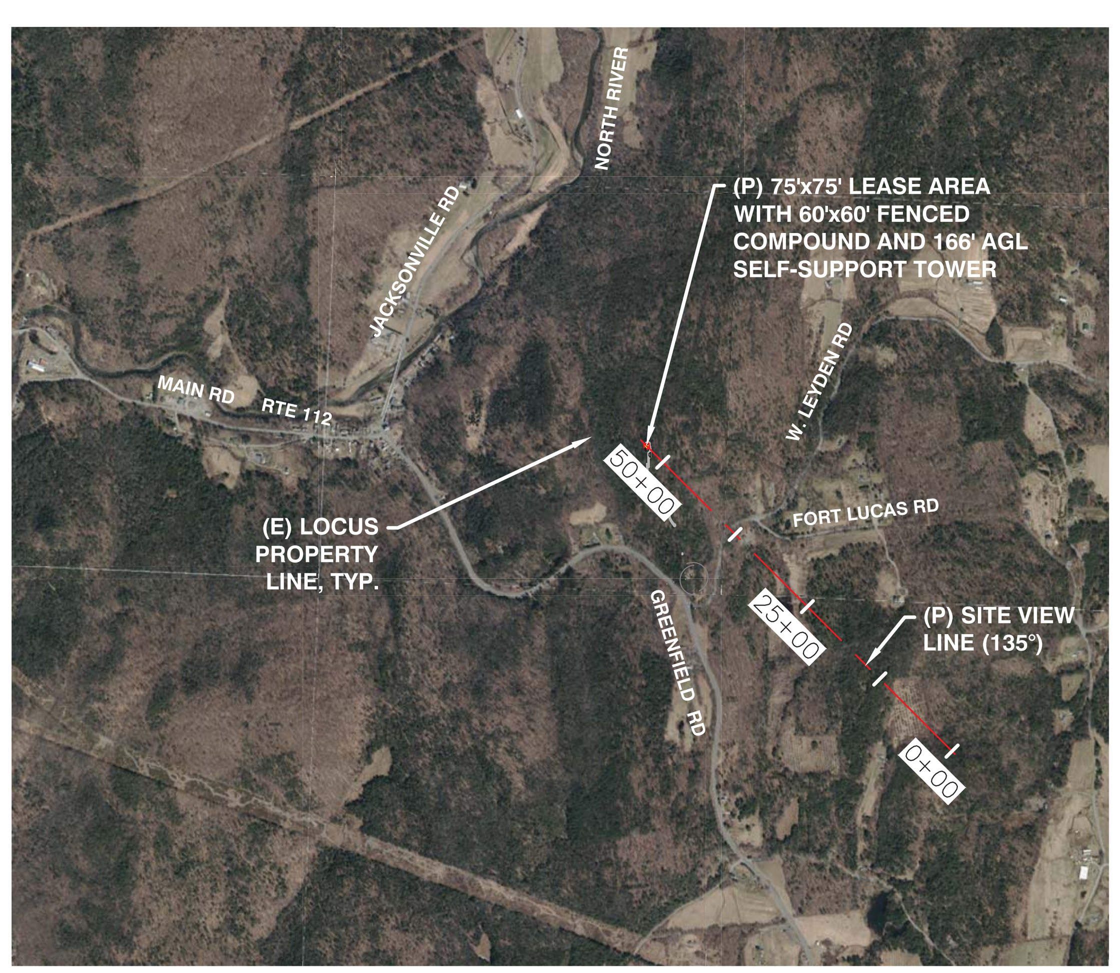


SITE VIEW LINE PLAN (90°)

1 / SVL-2

SCALE: 1"=2000' (22x34)
1"=4000' (11x17)

2000 1000 0 2000 4000



SITE VIEW LINE PLAN (135°)

3 / SVL-2

SCALE: 1"=2000' (22x34)
1"=4000' (11x17)

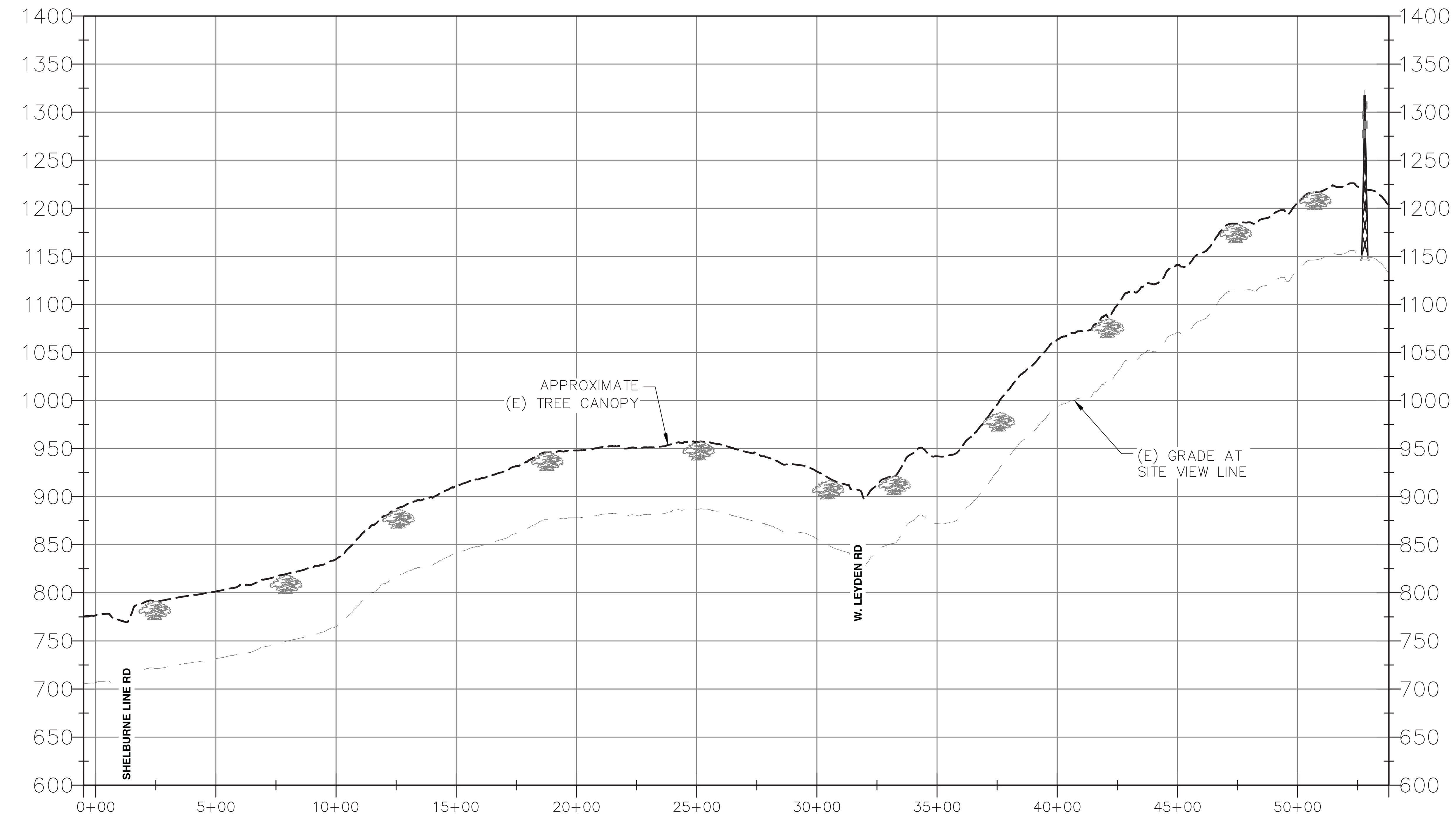
2000 1000 0 2000 4000

SITE LINE VIEW PROFILE (90°)

2 / SVL-2

SCALE (22x34): 1"=400' HORIZONTAL
1"=100' VERTICAL
SCALE (11x17): 1"=800' HORIZONTAL
1"=200' VERTICAL

0 50 100
400 200 0

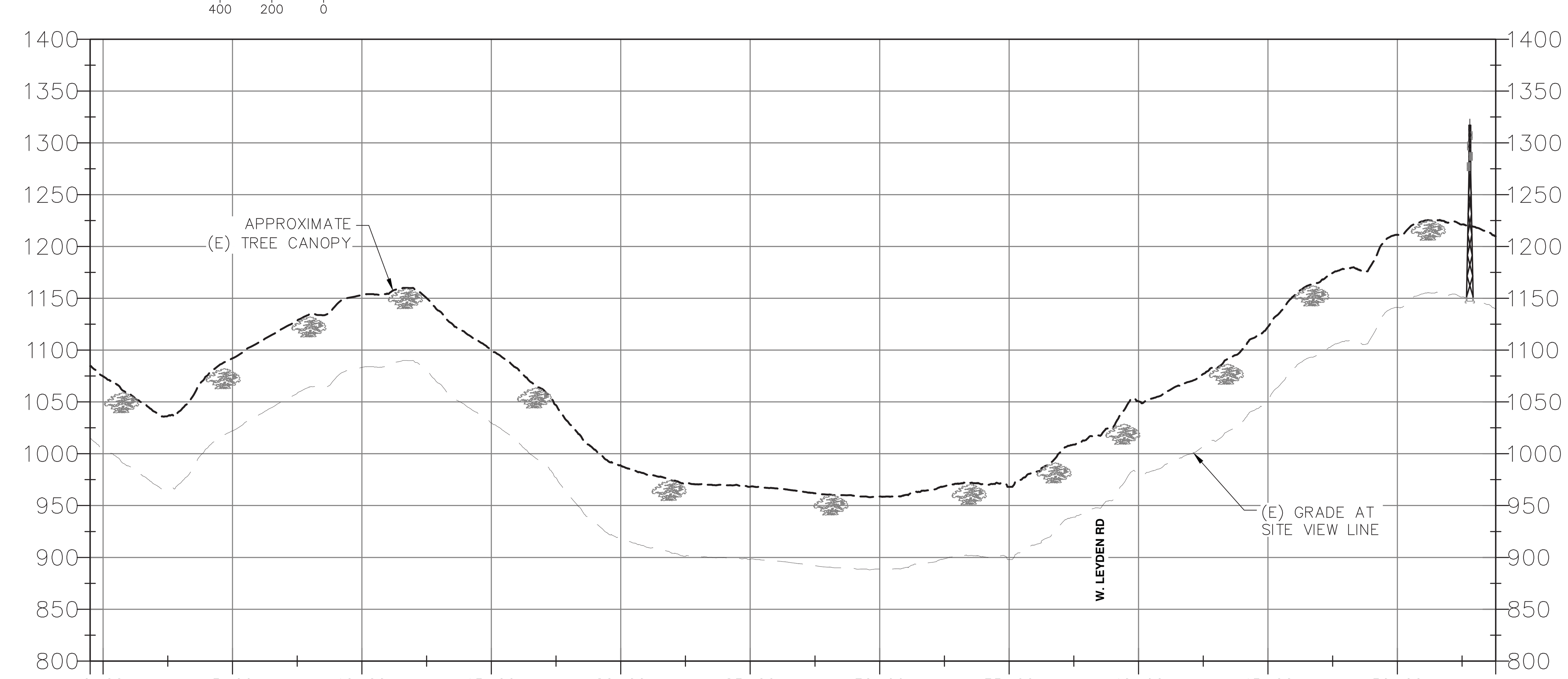


SITE LINE VIEW PROFILE (135°)

4 / SVL-2

SCALE (22x34): 1"=400' HORIZONTAL
1"=100' VERTICAL
SCALE (11x17): 1"=800' HORIZONTAL
1"=200' VERTICAL

0 50 100
400 200 0



ProTerra
DESIGN GROUP, LLC

4 Bay Road
Building A; Suite 200
Hadley, MA 01035
(413)320-4918

NO.	DATE	REVISIONS
0	11/05/20	ISSUED FOR PERMITTING

TITLE:
SITE NAME: COLRAIN GREENFIELD ROAD
SITE NUMBER: VT-MA-0198A
ADDRESS: GREENFIELD ROAD
COLRAIN, MA 01340

APPLICANT:
Vertex Towers LLC
VERTEX TOWERS, LLC
155 SOUTH STREET
SUITE 205
WRENTHAM, MA 02093

STAMP:

COMMONWEALTH OF MASSACHUSETTS
JESSE M. MORENO
CIVIL
No. 47315
REGISTERED PROFESSIONAL ENGINEER
11-5-2020

FOR SCHEMATIC ONLY

DATE: 11/05/2020
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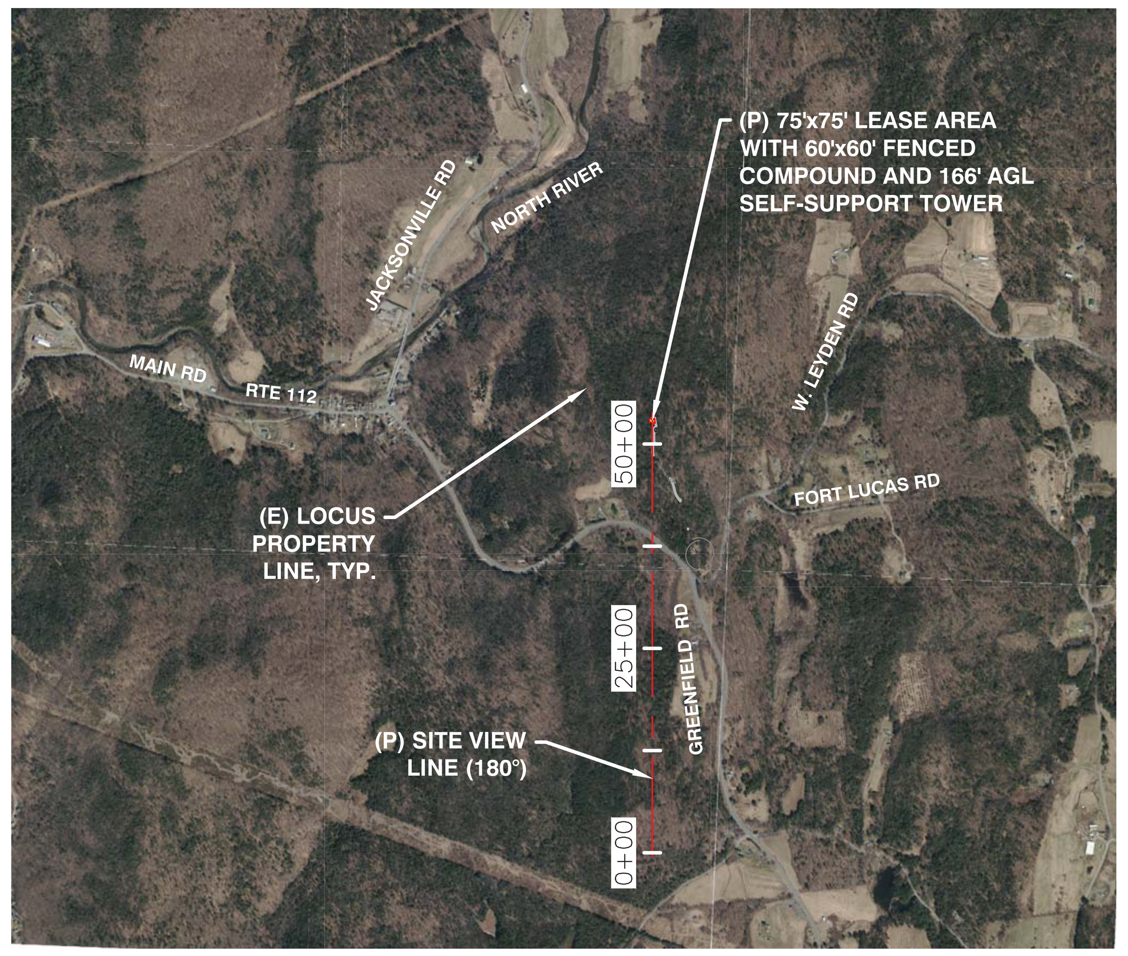
CHECK: JMM/TEJ
SCALE: SEE PLAN
JOB NO.: 18-015

SHEET TITLE:

SITE VIEW LINE

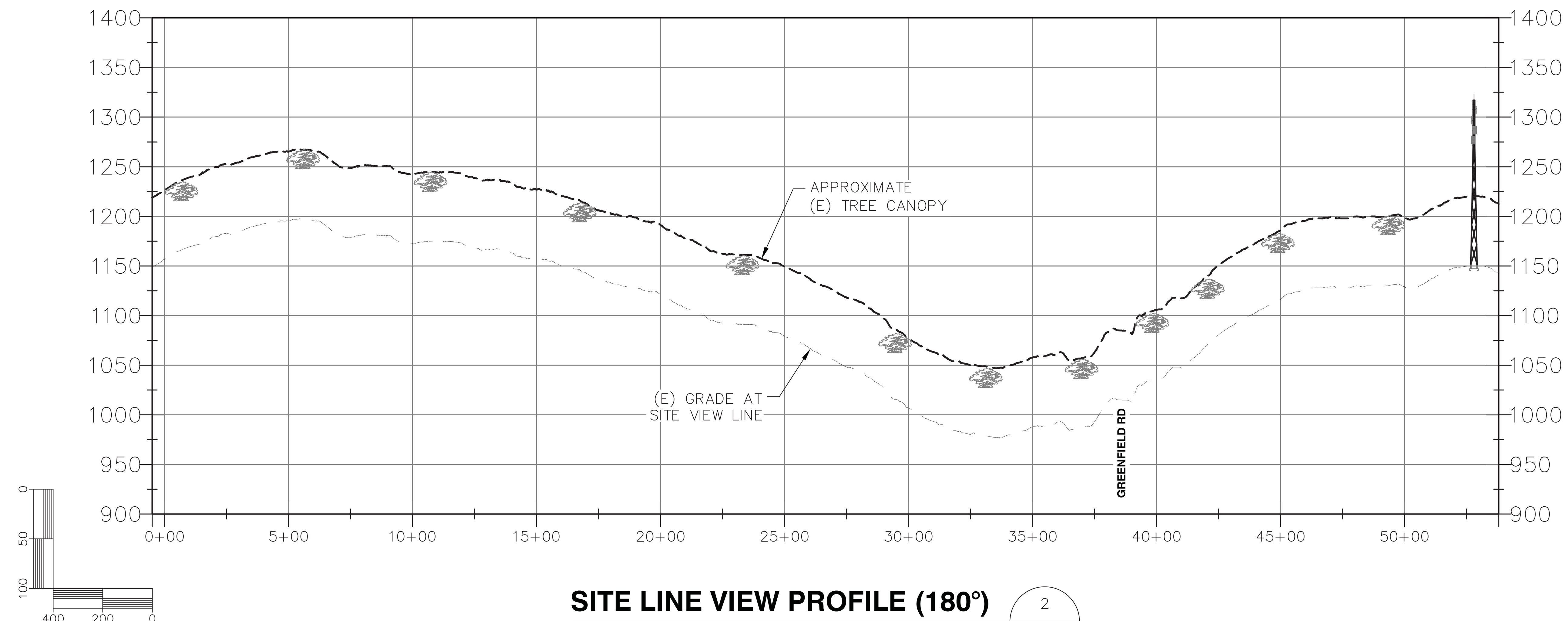
SVL-2



SITE VIEW LINE PLAN (180°)

SCALE: 1"=2000' (22x34)
1"=4000' (11x17)

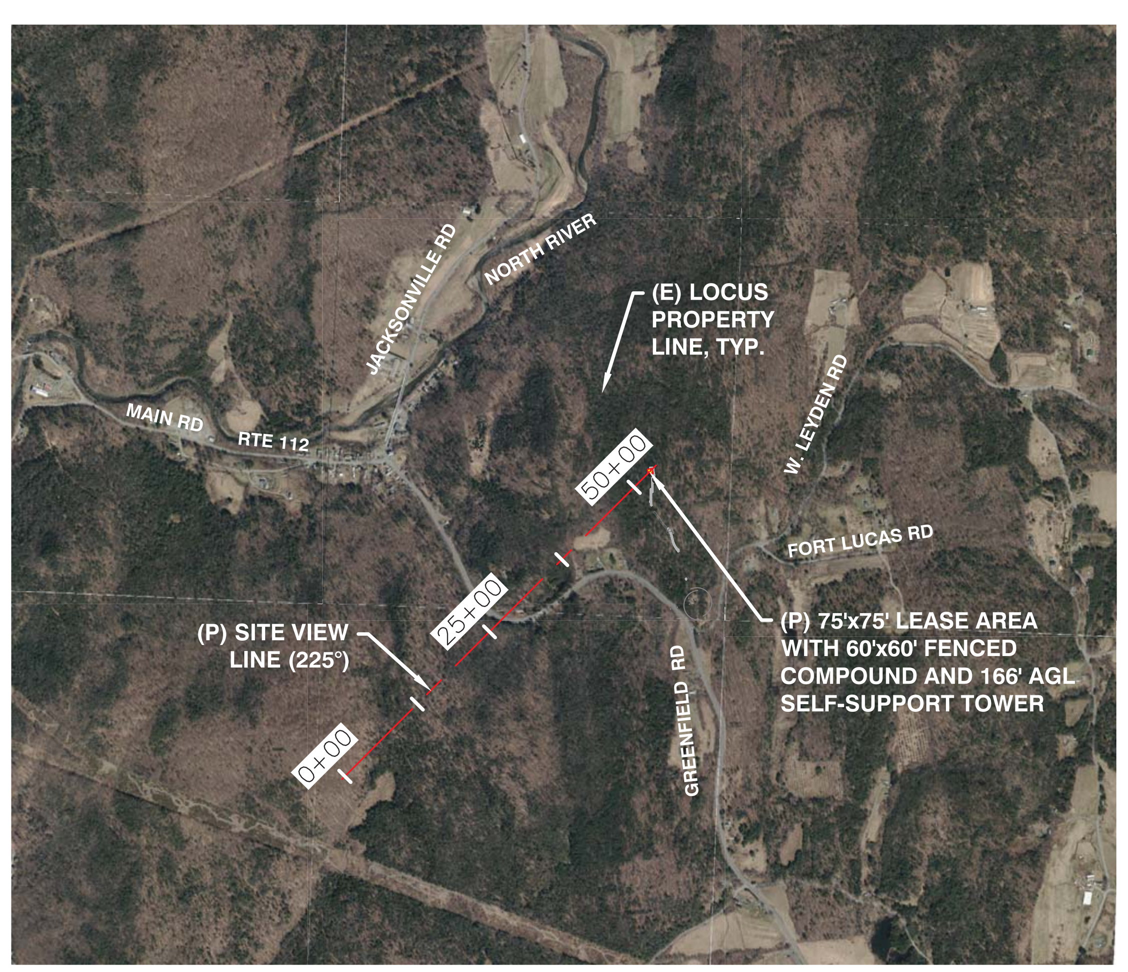
1 / SVL-3



SITE LINE VIEW PROFILE (180°)

SCALE (22x34): 1"=400' HORIZONTAL
1"=100' VERTICAL
SCALE (11x17): 1"=800' HORIZONTAL
1"=200' VERTICAL

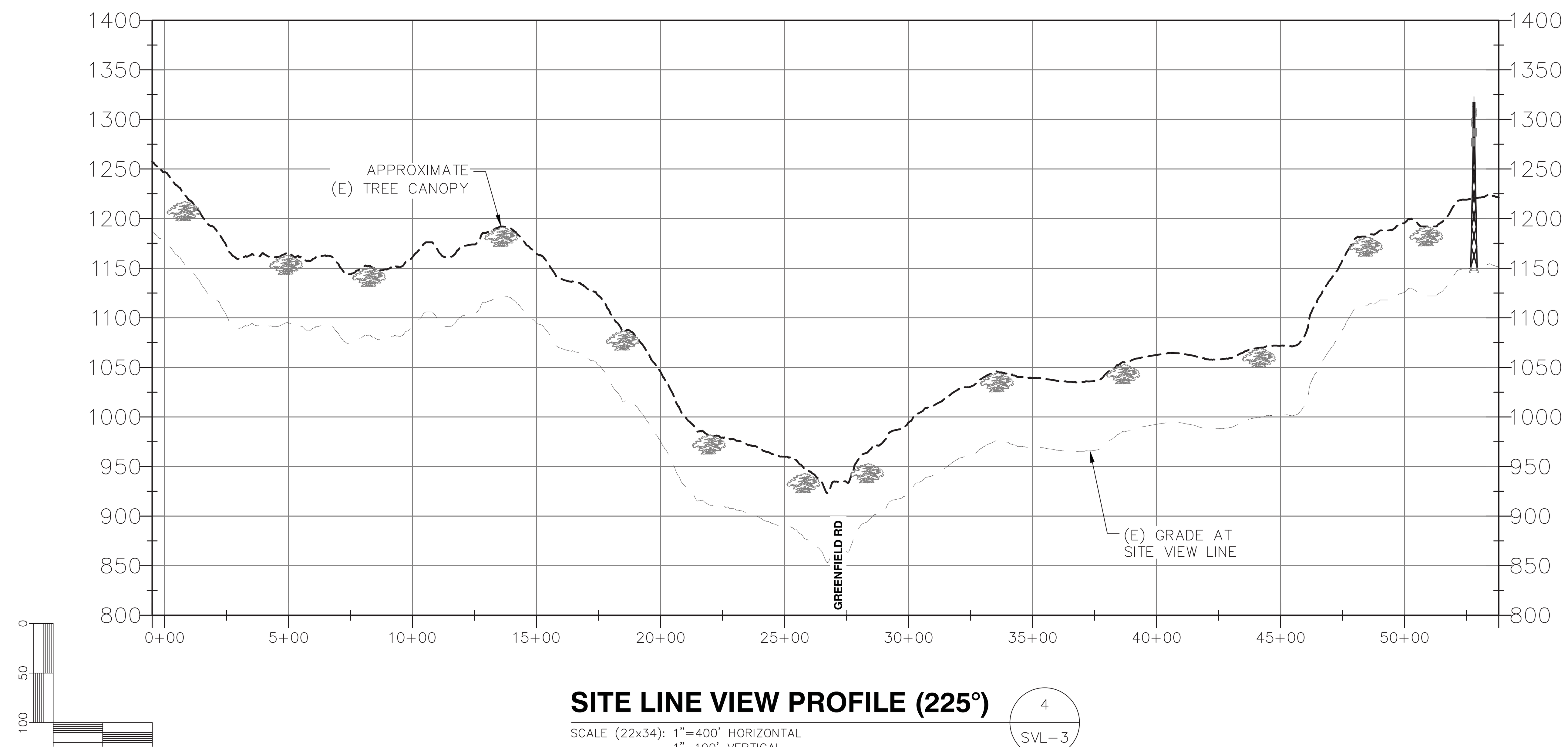
2 / SVL-3



SITE VIEW LINE PLAN (225°)

SCALE: 1"=2000' (22x34)
1"=4000' (11x17)

3 / SVL-3



SITE LINE VIEW PROFILE (225°)

SCALE (22x34): 1"=400' HORIZONTAL
1"=100' VERTICAL
SCALE (11x17): 1"=800' HORIZONTAL
1"=200' VERTICAL

4 / SVL-3

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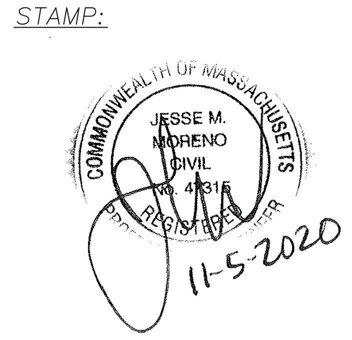
SITE NUMBER: VT-MA-0198A
ADDRESS: GREENFIELD ROAD
COLRAIN, MA 01340

APPLICANT: VERTEX TOWERS, LLC
155 SOUTH STREET
SUITE 205
WRENTHAM, MA 02093

Vertex Towers LLC

STAMP:



FOR SCHEMATIC ONLY

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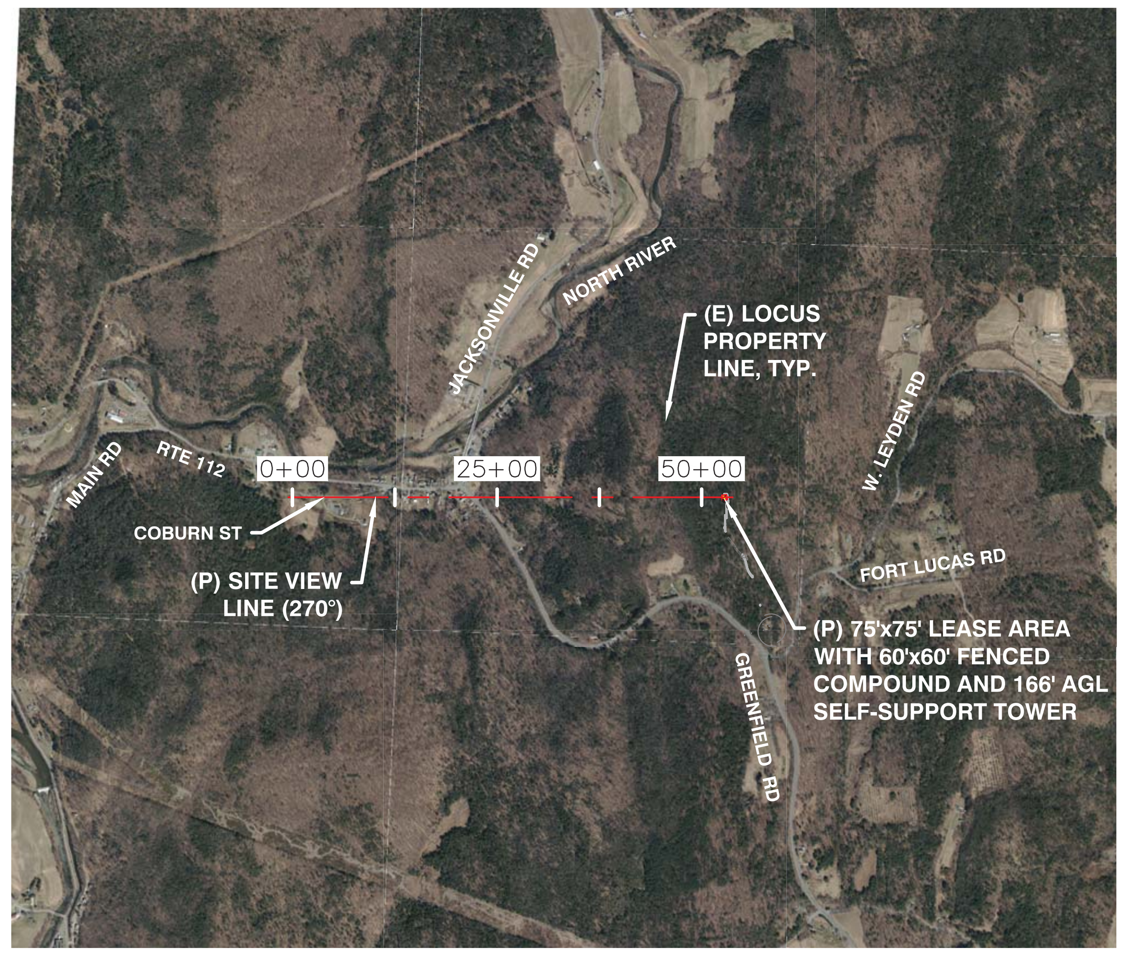
CHECK: JMM/TEJ
SCALE: SEE PLAN
JOB NO.: 18-015

SHEET TITLE:
SITE VIEW LINE

SVL-3

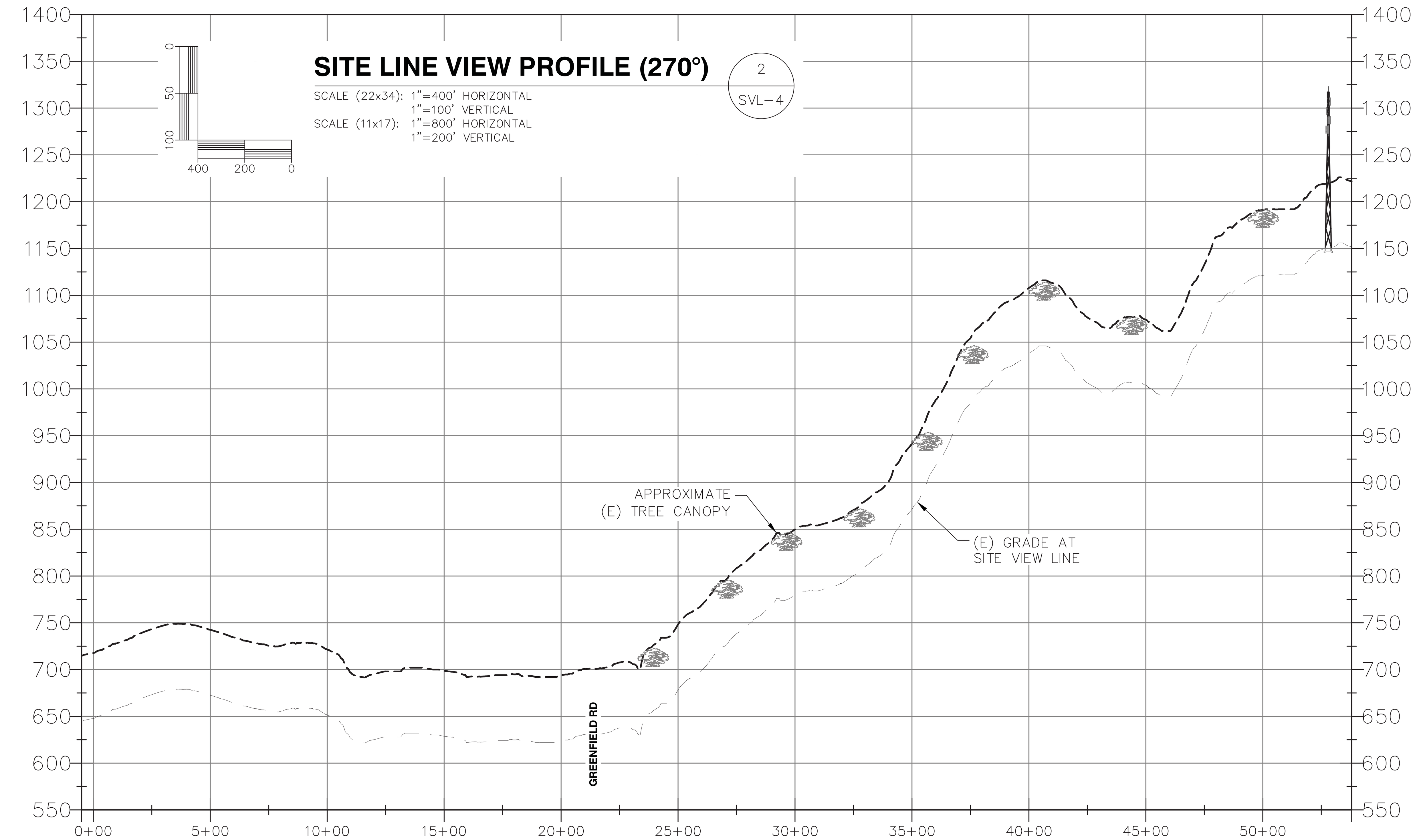


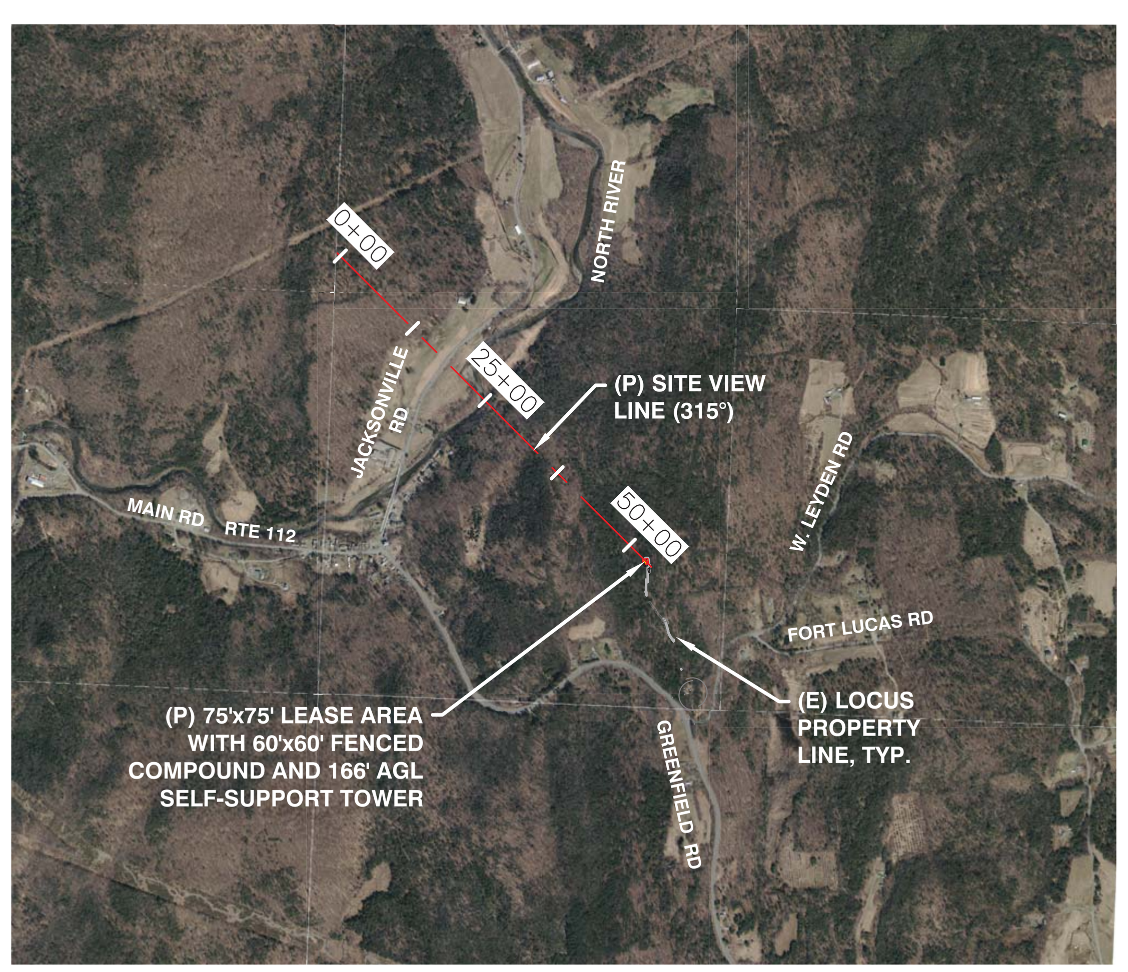
SITE VIEW LINE PLAN (270°)

1 / SVL-4

SCALE: 1"=2000' (22x34)
1"=4000' (11x17)

2000 1000 0 2000 4000



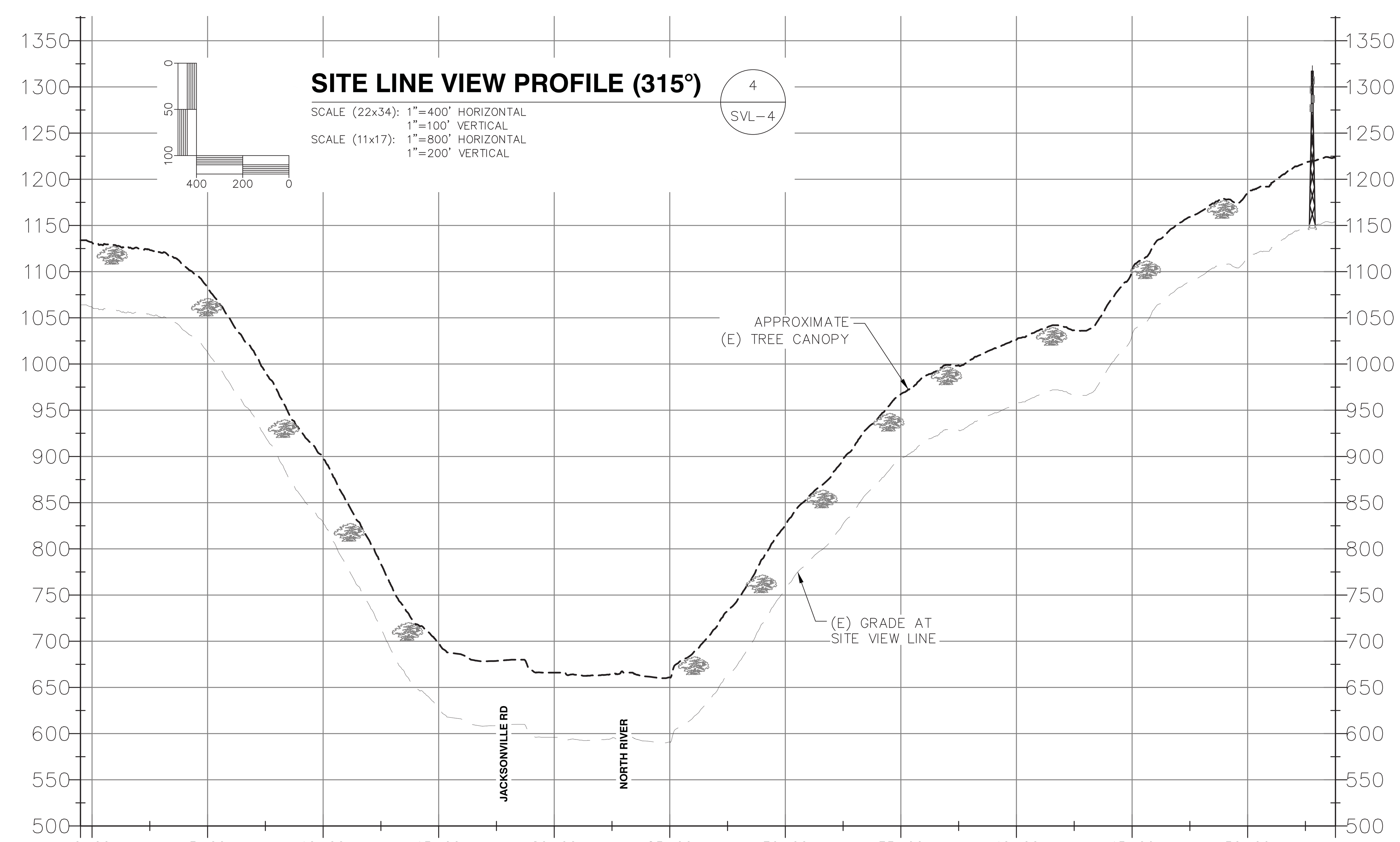


SITE VIEW LINE PLAN (315°)

3 / SVL-4

SCALE: 1"=2000' (22x34)
1"=4000' (11x17)

2000 1000 0 2000 4000



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REVISIONS

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SHEET TITLE:
SITE VIEW LINE

SVL-4