

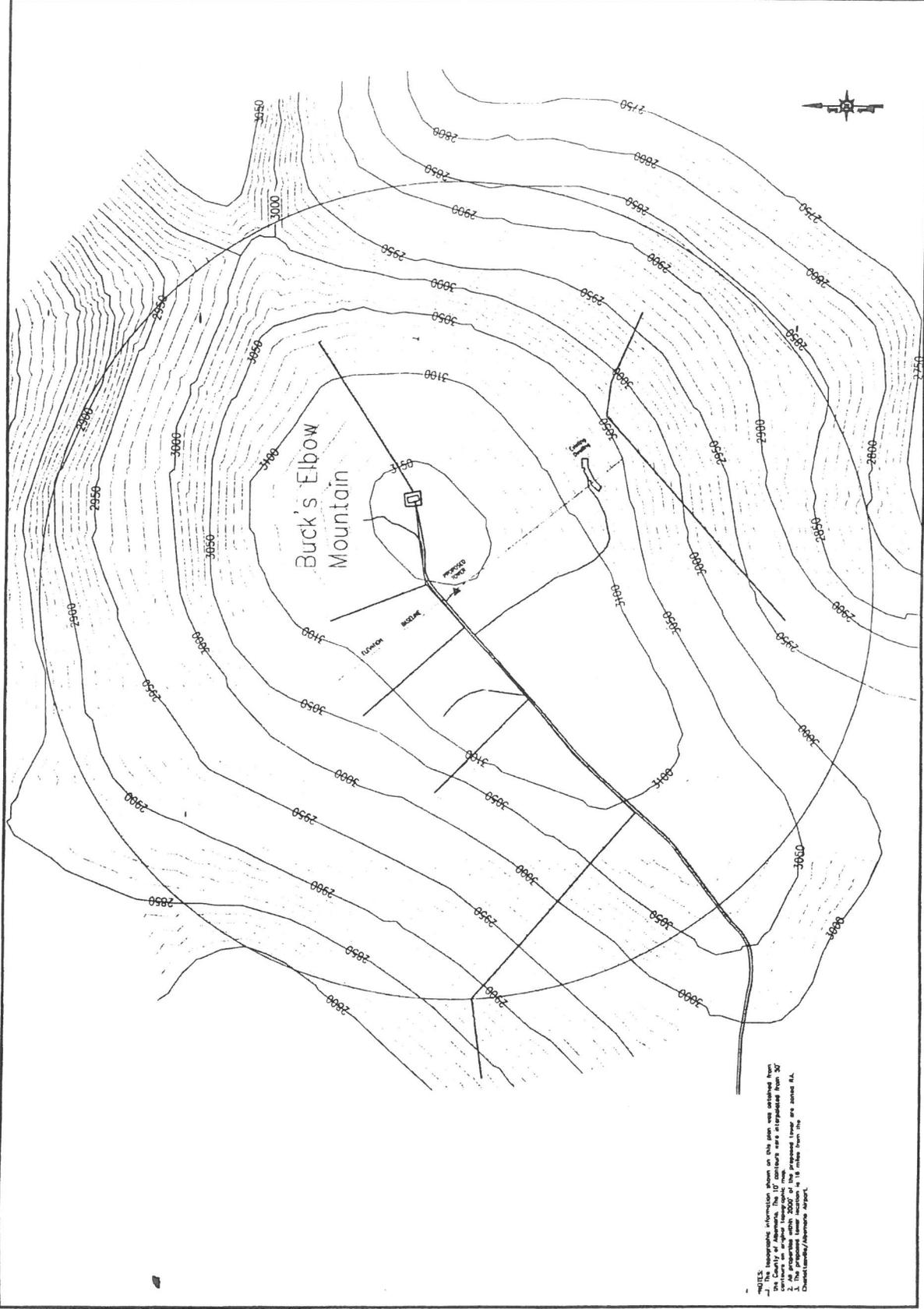
Drawing Title	BUCKS ELBOW TOPOGRAPHY
Drawn By	THOMAS A. DUB
Checked By	THOMAS A. DUB
Date	1-23-07
Project No.	100-100-100

SITEPLAN FOR
 PROPOSED RADIO TOWERS
 ALBEMARLE COUNTY, VIRGINIA

RIYANNA ENGINEERING & SURVEYING, INC.

10000 RIVINGTON ROAD
 SUITE 100
 FARMERSVILLE, VA 22431

Professional Seal: Surveyor in Charge, Thomas A. Dub, No. 10000, State of Virginia

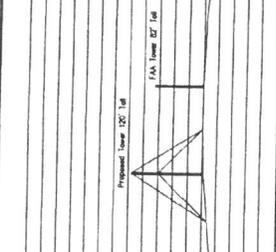


NOTES:
 1. Contour lines are shown at 10-foot intervals.
 2. The 10-foot contour interval is shown as a solid line.
 3. The 5-foot contour interval is shown as a dashed line.
 4. The proposed tower location is 18 miles from the Charlottesville/Albemarle Airport.

115. The proposed tower will be located on the site shown on the map. The tower will be constructed in accordance with the specifications set forth in the tower construction manual. The tower will be constructed in accordance with the specifications set forth in the tower construction manual. The tower will be constructed in accordance with the specifications set forth in the tower construction manual.

Buck's Elbow Mainline - Tower Schedule

Station	Offset	Description	Notes
0+00	0.00	Station 0+00	
0+10	0.00	Station 0+10	
0+20	0.00	Station 0+20	
0+30	0.00	Station 0+30	
0+40	0.00	Station 0+40	
0+50	0.00	Station 0+50	
0+60	0.00	Station 0+60	
0+70	0.00	Station 0+70	
0+80	0.00	Station 0+80	
0+90	0.00	Station 0+90	
1+00	0.00	Station 1+00	
1+10	0.00	Station 1+10	
1+20	0.00	Station 1+20	
1+30	0.00	Station 1+30	
1+40	0.00	Station 1+40	
1+50	0.00	Station 1+50	
1+60	0.00	Station 1+60	
1+70	0.00	Station 1+70	
1+80	0.00	Station 1+80	
1+90	0.00	Station 1+90	
2+00	0.00	Station 2+00	
2+10	0.00	Station 2+10	
2+20	0.00	Station 2+20	
2+30	0.00	Station 2+30	
2+40	0.00	Station 2+40	
2+50	0.00	Station 2+50	
2+60	0.00	Station 2+60	
2+70	0.00	Station 2+70	
2+80	0.00	Station 2+80	
2+90	0.00	Station 2+90	
3+00	0.00	Station 3+00	
3+10	0.00	Station 3+10	
3+20	0.00	Station 3+20	
3+30	0.00	Station 3+30	
3+40	0.00	Station 3+40	
3+50	0.00	Station 3+50	
3+60	0.00	Station 3+60	
3+70	0.00	Station 3+70	
3+80	0.00	Station 3+80	
3+90	0.00	Station 3+90	
4+00	0.00	Station 4+00	
4+10	0.00	Station 4+10	
4+20	0.00	Station 4+20	
4+30	0.00	Station 4+30	
4+40	0.00	Station 4+40	
4+50	0.00	Station 4+50	
4+60	0.00	Station 4+60	
4+70	0.00	Station 4+70	
4+80	0.00	Station 4+80	
4+90	0.00	Station 4+90	
5+00	0.00	Station 5+00	
5+10	0.00	Station 5+10	
5+20	0.00	Station 5+20	
5+30	0.00	Station 5+30	
5+40	0.00	Station 5+40	
5+50	0.00	Station 5+50	
5+60	0.00	Station 5+60	
5+70	0.00	Station 5+70	
5+80	0.00	Station 5+80	
5+90	0.00	Station 5+90	
6+00	0.00	Station 6+00	
6+10	0.00	Station 6+10	
6+20	0.00	Station 6+20	
6+30	0.00	Station 6+30	
6+40	0.00	Station 6+40	
6+50	0.00	Station 6+50	
6+60	0.00	Station 6+60	
6+70	0.00	Station 6+70	
6+80	0.00	Station 6+80	
6+90	0.00	Station 6+90	
7+00	0.00	Station 7+00	
7+10	0.00	Station 7+10	
7+20	0.00	Station 7+20	
7+30	0.00	Station 7+30	
7+40	0.00	Station 7+40	
7+50	0.00	Station 7+50	
7+60	0.00	Station 7+60	
7+70	0.00	Station 7+70	
7+80	0.00	Station 7+80	
7+90	0.00	Station 7+90	
8+00	0.00	Station 8+00	
8+10	0.00	Station 8+10	
8+20	0.00	Station 8+20	
8+30	0.00	Station 8+30	
8+40	0.00	Station 8+40	
8+50	0.00	Station 8+50	
8+60	0.00	Station 8+60	
8+70	0.00	Station 8+70	
8+80	0.00	Station 8+80	
8+90	0.00	Station 8+90	
9+00	0.00	Station 9+00	
9+10	0.00	Station 9+10	
9+20	0.00	Station 9+20	
9+30	0.00	Station 9+30	
9+40	0.00	Station 9+40	
9+50	0.00	Station 9+50	
9+60	0.00	Station 9+60	
9+70	0.00	Station 9+70	
9+80	0.00	Station 9+80	
9+90	0.00	Station 9+90	
10+00	0.00	Station 10+00	

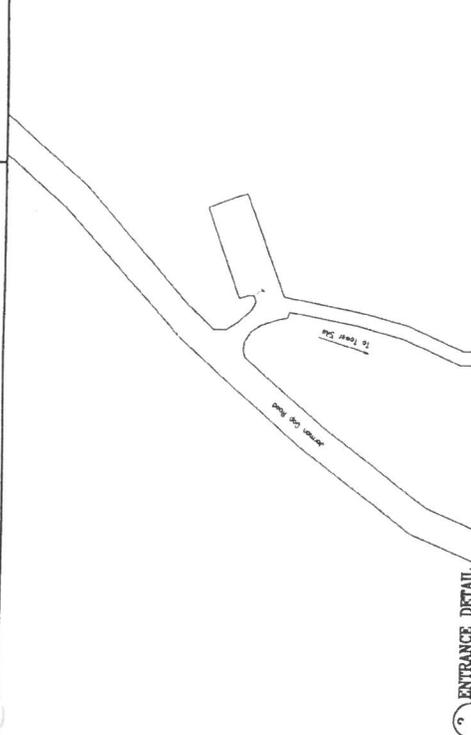
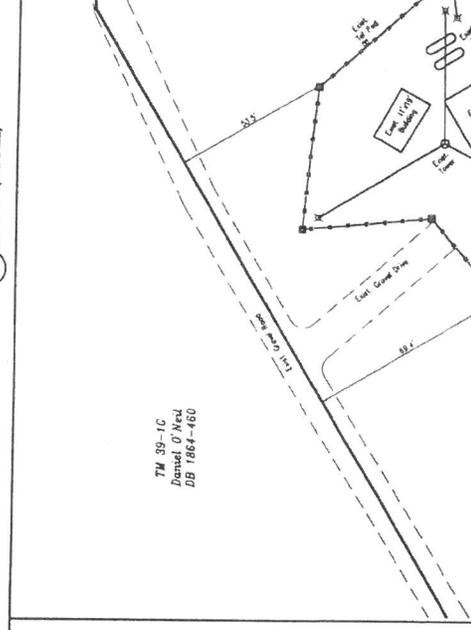


BUCKS ELBOW ELEVATION

Station	Elevation (ft)
0+00	1000
0+10	1050
0+20	1100
0+30	1150
0+40	1200
0+50	1250
0+60	1300
0+70	1350
0+80	1400
0+90	1350
1+00	1300
1+10	1250
1+20	1200
1+30	1150
1+40	1100
1+50	1050
1+60	1000
1+70	950
1+80	900
1+90	850
2+00	800
2+10	750
2+20	700
2+30	650
2+40	600
2+50	550
2+60	500
2+70	450
2+80	400
2+90	350
3+00	300
3+10	250
3+20	200
3+30	150
3+40	100
3+50	50
3+60	0
3+70	50
3+80	100
3+90	150
4+00	200
4+10	250
4+20	300
4+30	350
4+40	400
4+50	450
4+60	500
4+70	550
4+80	600
4+90	650
5+00	700
5+10	750
5+20	800
5+30	850
5+40	900
5+50	950
5+60	1000
5+70	1050
5+80	1100
5+90	1150
6+00	1200
6+10	1250
6+20	1300
6+30	1350
6+40	1400
6+50	1350
6+60	1300
6+70	1250
6+80	1200
6+90	1150
7+00	1100
7+10	1050
7+20	1000
7+30	950
7+40	900
7+50	850
7+60	800
7+70	750
7+80	700
7+90	650
8+00	600
8+10	550
8+20	500
8+30	450
8+40	400
8+50	350
8+60	300
8+70	250
8+80	200
8+90	150
9+00	100
9+10	50
9+20	0
9+30	50
9+40	100
9+50	150
9+60	200
9+70	250
9+80	300
9+90	350
10+00	400

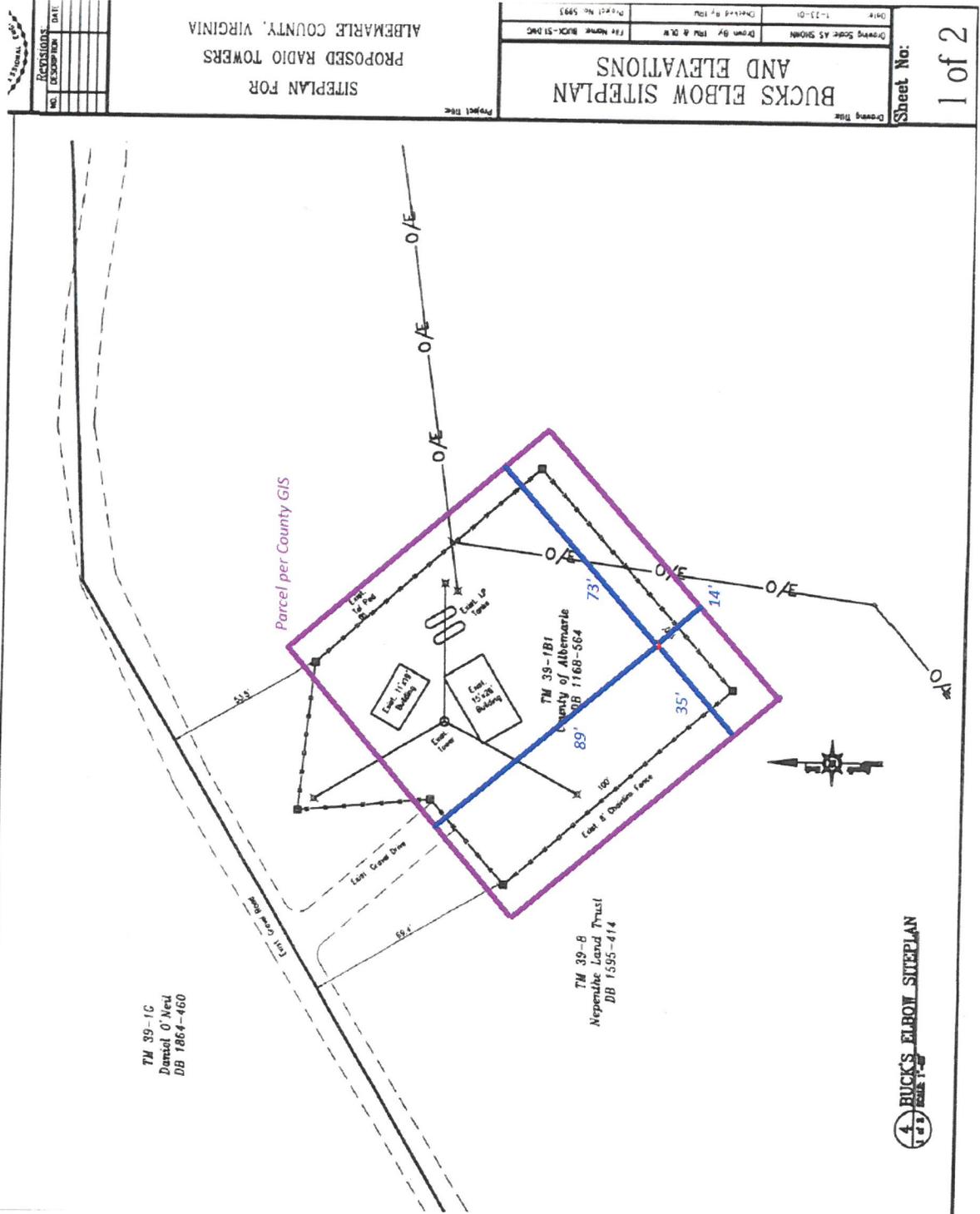
BUCKS ELBOW ELEVATION
 1 of 2
 SHEET PLAN FOR
 PROPOSED RADIO TOWERS
 ALBEMARLE COUNTY, VIRGINIA

BUCKS ELBOW SUTERPLAN
 4 of 2



BUCKS ELBOW SUTERPLAN
 4 of 2

Existing ECC Bucks Elbow Mountain tower compound and general location of proposed new tower



NO.	DESCRIPTION	DATE

SITEPLAN FOR
PROPOSED RADIO TOWERS
ALBEMARLE COUNTY, VIRGINIA

Drawn By: FAY & DAVIS	Checked By: FAY & DAVIS	Date: 1-23-01
Project No: 15993	File Name: BUCKS-01.DWG	

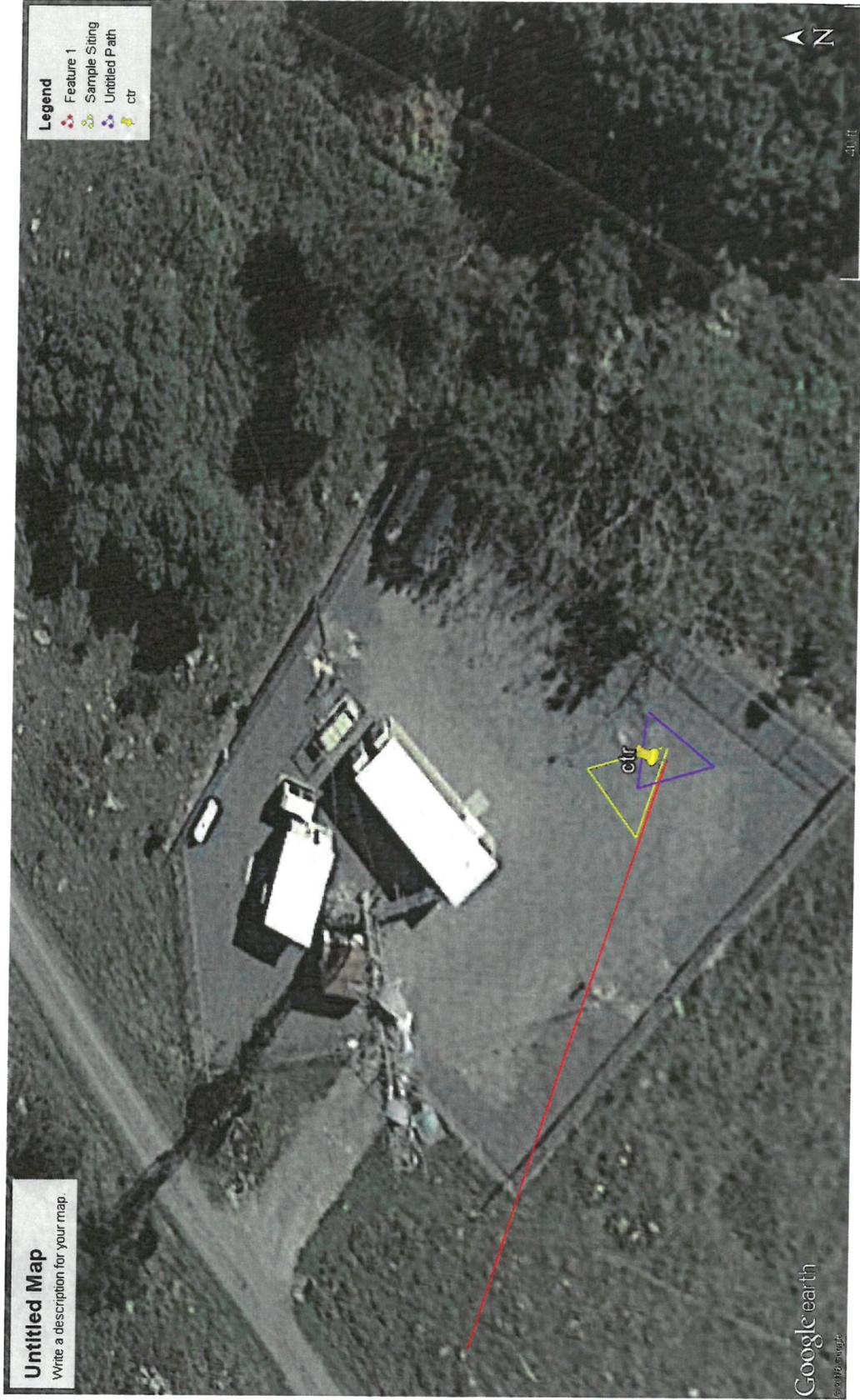
Sheet No:
1 of 2



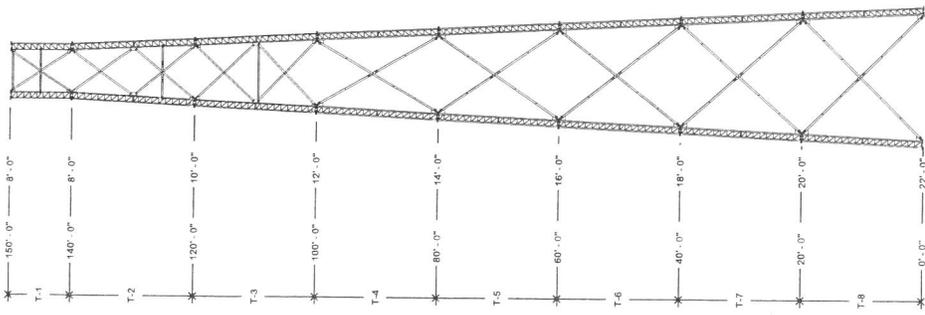
TM 39-1C
Daniel O. Neal
DB 1864-460

TM 39-B
Nepenthe Land Trust
DB 1595-414

Existing ECC Bucks Elbow Mountain tower compound and general location of proposed new tower



SEE PAGE 1 OF 5
APPURTENANCES



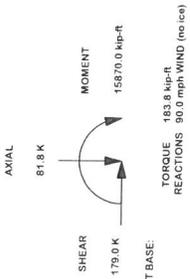
BUILDING CODE(S) 2012 Virginia Building Code
 Design Standard: TIA-222-G
TOWER DESIGN CRITERIA
 Basic Wind Speed: 90 mph (no ice)
 60 mph (0.75" ice)
 Structure Class: III
 Exposure: C
 Topographic Category: 4
 Crest Height: 200.0 ft
 TOWER AND FOUNDATION CONFORM TO THE SEISMIC SPECIFICATIONS OF THE 2012 VIRGINIA BUILDING CODE

MATERIAL STRENGTHS
 Solid Rod A36 (rod dia $3/4^{\prime}$ thru 1" dia)
 A572 Gr 50 (>1" dia, T1, T8)
 A572 Gr 58 (rod dia 3/8" thru 1 1/2")
 A500 Gr B/C (round leg pipe, Fy 50 ksi)
 Angle A36 Gr 36
 Plate A572 Gr 50
 Bolts A325M-A49 (leg & angle)
 Anchor Bolts F1554 grade 105 or A487

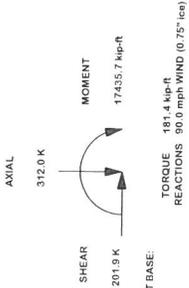
Finish: Tower & Hardware are hot dip galvanized

- ALL STRUCTURAL HARDWARE IS GALVANIZED IN ACCORDANCE WITH ASTM A-153 (HDC). TOWER SECTIONS & ASSOCIATED STRUCTURAL COMPONENTS ARE GALVANIZED IN ACCORDANCE WITH ASTM A-123 (HDC).
- ALL BOLTS & NUTS MUST BE IN PLACE BEFORE ADJOINING SECTIONS ARE INSTALLED.
- ALL STRUCTURAL BOLTS ARE TO BE TIGHTENED TO A SNUG TIGHT CONDITION AS DEFINED BY AISC & RISC SPECIFICATION FOR STRUCTURAL JOINTS UNLESS NOTED OTHERWISE.
- ALL WELDING TO CONFORM TO AWS D1.1 SPECIFICATION, 5/16" MINIMUM WELD SIZE UNLESS NOTED OTHERWISE.
- MATERIAL LABELED AS ASTM A-572 GR. 58 OR 58 KSI YIELD STRENGTH ALSO CONFORMS TO ASTM A-572 GR. 50.
- ANALYSIS PERFORMED USING STEEL GRADES LISTED UNDER MATERIALS STRENGTHS SHOWN ON THIS PAGE.
- THIS DRAWING DOES NOT INDICATE THE METHOD OF CONSTRUCTION, THE CONTRACTOR SHALL SURVEY AND DISRECT THE WORK AND HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, SEQUENCES AND PROCEDURES.

Reactions - No Ice



Reactions - Ice



MAX. CORNER REACTIONS AT BASE:
 DOWN: 1019.1 K
 UPLIFT: 798.2 K
 SHEAR: 124.8 K

MAX. CORNER REACTIONS AT BASE:
 DOWN: 181.4 kip-R
 UPLIFT: 708.1 K
 SHEAR: 124.8 K

APPROVED
 Rick
 10-26-17



OCT 11 2017
 William R. Heiden III, V.A.P.E. #037325

valmont STRUCTURES
 1-877-467-4763 Plymouth, IN
 1-800-547-2151 Salem, OR
 ENG. FILE NO. 348947
 DWG. NO. 276670T

DESCRIPTION	Tower View Page 1
STRUCTURE APPROVAL	FOUNDATION APPROVAL
SKK	10/10/2017

SITE
 BUCKS ELBOW, WHITE HALL, VA
 ALBEMARLE COUNTY
 U 22 X 150'
 COPYRIGHT 2013

REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
	REVISION HISTORY			