



**Load Combinations (Continued)**

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor
232	1.2DL + 1.5LM15 + 1SWL (30 mph) AZI 30	Yes	Y	1	1.2	44	1.5	3	0.076
233	1.2DL + 1.5LM15 + 1SWL (30 mph) AZI 60	Yes	Y	1	1.2	44	1.5	4	0.076
234	1.2DL + 1.5LM15 + 1SWL (30 mph) AZI 90	Yes	Y	1	1.2	44	1.5	5	0.076
235	1.2DL + 1.5LM15 + 1SWL (30 mph) AZI 120	Yes	Y	1	1.2	44	1.5	6	0.076
236	1.2DL + 1.5LM15 + 1SWL (30 mph) AZI 150	Yes	Y	1	1.2	44	1.5	7	0.076
237	1.2DL + 1.5LM15 + 1SWL (30 mph) AZI 180	Yes	Y	1	1.2	44	1.5	8	0.076
238	1.2DL + 1.5LM15 + 1SWL (30 mph) AZI 210	Yes	Y	1	1.2	44	1.5	9	0.076
239	1.2DL + 1.5LM15 + 1SWL (30 mph) AZI 240	Yes	Y	1	1.2	44	1.5	10	0.076
240	1.2DL + 1.5LM15 + 1SWL (30 mph) AZI 270	Yes	Y	1	1.2	44	1.5	11	0.076
241	1.2DL + 1.5LM15 + 1SWL (30 mph) AZI 300	Yes	Y	1	1.2	44	1.5	12	0.076
242	1.2DL + 1.5LM15 + 1SWL (30 mph) AZI 330	Yes	Y	1	1.2	44	1.5	13	0.076

**Envelope Node Reactions**

Node Label	X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-in]	LC	MY [lb-in]	LC	MZ [lb-in]	LC		
1	N2	max	604.137	2	1106.935	69	414.947	17	9600.73	79	8866.955	11	31769.447	69
2		min	-605.656	20	211.971	14	-415.867	11	-8421.473	73	-8806.755	17	2885.2	14
3	N22	max	555.382	14	1156.158	124	614.059	17	33349.938	114	11968.805	19	-415.13	20
4		min	-556.871	8	238.229	21	-621.127	11	2497.299	23	-12192.193	13	-24521.827	123
5	N37	max	585.873	14	1150.18	97	662.214	5	-2175.013	18	14157.405	3	920.069	19
6		min	-622.856	8	232.126	18	-644.657	23	-33255.748	108	-14830.698	21	-24437.454	98
7	Totals:	max	1744.903	14	2056.433	33	1689.692	17						
8		min	-1784.897	8	810.135	51	-1680.107	11						

**Envelope AISC 15TH (360-16): LRFD Member Steel Code Checks**

Member	Shape	Code Check	Loc[in]	LC	Shear	Check	Loc[in]	Dir	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y-y [lb-in]	phi*Mn z-z [lb-in]	Cb	Eqn
1	M9	HSS4X4X3	0.225	0	111	0.111	0	y	123	103896.231	106812	151938	151938	1.83	H1-1b
2	M15	HSS4X4X3	0.225	0	100	0.111	0	y	105	103896.231	106812	151938	151938	1.832	H1-1b
3	M24	L2X2X3	0.214	0	133	0.013	0	y	133	15909.471	23392.8	6692.599	14665.687	1.5	H2-1
4	M1	HSS4X4X3	0.213	0	83	0.113	0	y	80	103896.231	106812	151938	151938	1.837	H1-1b
5	M25	L2X2X3	0.213	0	88	0.013	0	z	88	15909.471	23392.8	6692.599	14665.687	1.5	H2-1
6	M4	L2X2X3	0.212	0	76	0.013	0	y	76	15909.471	23392.8	6692.599	14665.687	1.5	H2-1
7	M26	L2X2X3	0.212	0	105	0.012	0	y	105	15909.471	23392.8	6692.599	14665.687	1.5	H2-1
8	M23	L2X2X3	0.212	0	116	0.012	0	z	117	15909.471	23392.8	6692.599	14665.687	1.5	H2-1
9	M19	PIPE 2.5	0.206	48	8	0.081	48		7	30038.461	50715	43155	43155	1	H1-1b
10	M3	L2X2X3	0.201	0	74	0.012	0	z	73	15909.471	23392.8	6692.599	14665.687	1.5	H2-1
11	M22	PIPE 2.0	0.155	29.862	183	0.039	56.613		225	23874.125	32130	22459.5	22459.5	1	H1-1b
12	M68	PIPE 2.0	0.154	29.862	178	0.039	56.613		209	23874.125	32130	22459.5	22459.5	1	H1-1b
13	M70	PIPE 2.0	0.154	29.862	199	0.039	3.111		169	23874.125	32130	22459.5	22459.5	1	H1-1b
14	M14	PIPE 2.5	0.149	48	8	0.018	48		9	30038.461	50715	43155	43155	1	H1-1b
15	M20	PIPE 2.5	0.136	48	4	0.017	48		5	30038.461	50715	43155	43155	1	H1-1b
16	M13	PIPE 2.5	0.134	48	11	0.017	48		11	30038.461	50715	43155	43155	1	H1-1b
17	M8	PIPE 2.5	0.128	48	13	0.016	48		13	30038.461	50715	43155	43155	1	H1-1b
18	M7	PIPE 2.5	0.108	48	10	0.012	48		10	30038.461	50715	43155	43155	1	H1-1b
19	M10	HSS4X4X3	0.103	21.65	134	0.073	21.65	y	118	101359.403	106812	151938	151938	1.426	H1-1b
20	M16	HSS4X4X3	0.103	21.65	88	0.073	21.65	y	104	101359.403	106812	151938	151938	1.427	H1-1b
21	M2	HSS4X4X3	0.101	21.65	77	0.073	21.65	y	85	101359.403	106812	151938	151938	1.435	H1-1b
22	M40	PL3.94X0.3125	0.09	7.545	9	0.056	7.545	y	88	22091.365	39828.672	3106.636	37395.288	1.03	H1-1b
23	M34	PL3.94X0.3125	0.084	7.545	13	0.061	7.545	y	129	22091.365	39828.672	3106.636	39064.587	1.075	H1-1b
24	M49	PL3.94X0.3125	0.08	7.545	9	0.062	7.545	y	107	22091.365	39828.672	3106.636	38861.33	1.07	H1-1b
25	M46	PL3.94X0.3125	0.079	7.545	173	0.163	7.545	y	144	22091.365	39828.672	3106.636	39231.242	1.189	H1-1b
26	M58	PL3.94X0.3125	0.078	7.545	205	0.16	7.545	y	168	22091.365	39828.672	3106.636	39231.242	1.188	H1-1b
27	M32	PL3.94X0.3125	0.077	7.545	189	0.16	7.545	y	152	22091.365	39828.672	3106.636	39231.242	1.191	H1-1b
28	M45	PL3.94X0.3125	0.077	7.545	10	0.155	7.545	y	210	22091.365	39828.672	3106.636	37503.741	1.033	H1-1b



Company : Albul Engineering, LLC  
 Designer : DVA  
 Job Number : 38633.NSN.MSA.V118280.0  
 Model Name : Village of Albion Water Departme...

2/24/2025  
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 Checked By : \_\_\_\_\_

**Envelope AISC 15TH (360-16): LRFD Member Steel Code Checks (Continued)**

Member	Shape	Code Check	Loc[in]	LC	Shear Check	Loc[in]	Dir	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y-y [lb-in]	phi*Mn z-z [lb-in]	Cb	Eqn	
29	M57	PL3.94X0.3125	0.074	7.545	205	0.158	7.545	y	234	22091.365	39828.672	3106.636	39231.242	1.193	H1-1b
30	M37	PL3.94X0.3125	0.074	7.545	189	0.158	7.545	y	230	22091.365	39828.672	3106.636	39231.242	1.193	H1-1b
31	M65	PL3.94X0.3125	0.07	7.545	12	0.057	7.545	y	114	22091.365	39828.672	3106.636	37850.306	1.042	H1-1b
32	M61	PL3.94X0.3125	0.058	7.545	13	0.059	7.545	y	84	22091.365	39828.672	3106.636	39231.242	1.306	H1-1b
33	M53	PL3.94X0.3125	0.056	7.545	4	0.055	7.545	y	65	22091.365	39828.672	3106.636	39231.242	1.091	H1-1b
34	M21	PIPE 2.0	0.055	55.991	9	0.009	55.991		6	23874.125	32130	22459.5	22459.5	1	H1-1b
35	M69	PIPE 2.0	0.042	55.991	2	0.007	3.733		84	23874.125	32130	22459.5	22459.5	1	H1-1b
36	M67	PIPE 2.0	0.041	3.733	20	0.008	3.733		107	23874.125	32130	22459.5	22459.5	1	H1-1b



**BOLT CONNECTION CALCULATION**

**BOLT PROPERTIES**

<b>Date:</b>	2/24/2025
<b>Site:</b>	Village of Albion Water Department (VAND-Tower)
<b>Engineer:</b>	DVA
<b>Project No:</b>	38633.NSN.MSA.V118280.0
<b>Antenna Sector:</b>	All Sectors
<b>Description:</b>	Arm to Monopole

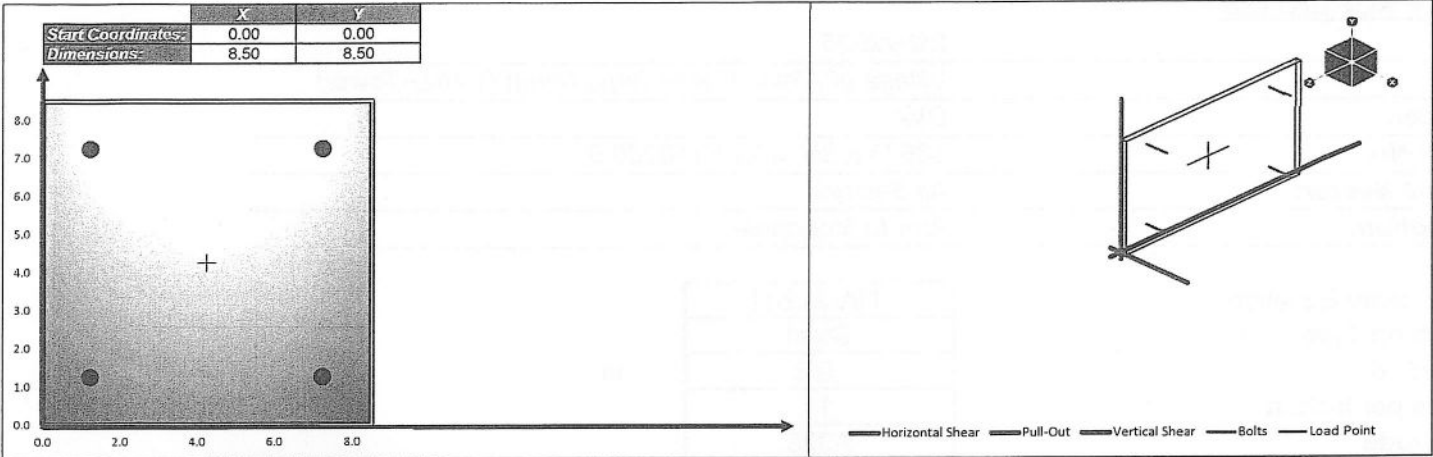
Bolt Capacity Equation	TIA-222-H	
Connection Type	Steel	
Bolt Size, <b>d</b>	5/8	in
Threads per Inch, <b>n</b>	11	
Steel Grade	A325	
Bolt Ultimate Tensile Stress, <b>F<sub>u</sub></b>	120	ksi
Threads Exclusion	N	
Shear Plane	1	

Net Bolt Cross-Sectional Area, <b>A<sub>n</sub></b>	0.226	in <sup>2</sup>
Gross Bolt Cross-Sectional Area, <b>A<sub>g</sub></b>	0.307	in <sup>2</sup>
Tensile Steel Strength (per bolt), <b>φR<sub>nt</sub></b>	20340	lbs
Shear Steel Strength (per bolt), <b>φR<sub>nv</sub></b>	13806	lbs

**BOLT CONNECTION CALCULATION**

**BOLT GROUP CHECK**

Date: 2/24/2025  
 Site: Village of Albion Water Department (VAND-Tower)  
 Engineer: DVA  
 Project No: 38633.NSN.MSA.V118280.0  
 Antenna Sector: All Sectors  
 Description: Arm to Monopole



		Risa LC: 83			Loads (lbs, lb-in)					
		Coordinates, (in)			Shear, P <sub>x</sub>	Shear, P <sub>y</sub>	Axial, P <sub>z</sub>	Moment, M <sub>x</sub>	Moment, M <sub>y</sub>	Moment, M <sub>z</sub>
No.	Load Point Label	X	Y	Z						
1	N2	4.25	4.25	0.00	-30.07	-1105.15	20.31	31617.92	-752.76	-9422.78

		Bolts Q-ty: 30			Bolt Loads (lbs)			Bolt Usage (%)			
		Bolt Coordinates, (in)			Axial	Shear	Tensile Usage	Shear Usage	Combined Usage	Controlling Usage	Max. Usage
No.	Bolt Type	X	Y								
1	Main Type	1.25	1.25		246.86	53.47	1.2%	0.4%	1.2%	Steel Tension	1.21%
2	Main Type	1.25	7.25		2353.44	496.61	11.6%	3.6%	11.6%	Steel Tension	11.57%
3	Main Type	7.25	1.25		301.86	461.48	1.5%	3.3%	3.3%	Steel Shear	3.34%
4	Main Type	7.25	7.25		2408.44	675.82	11.8%	4.9%	11.8%	Steel Tension	11.84%

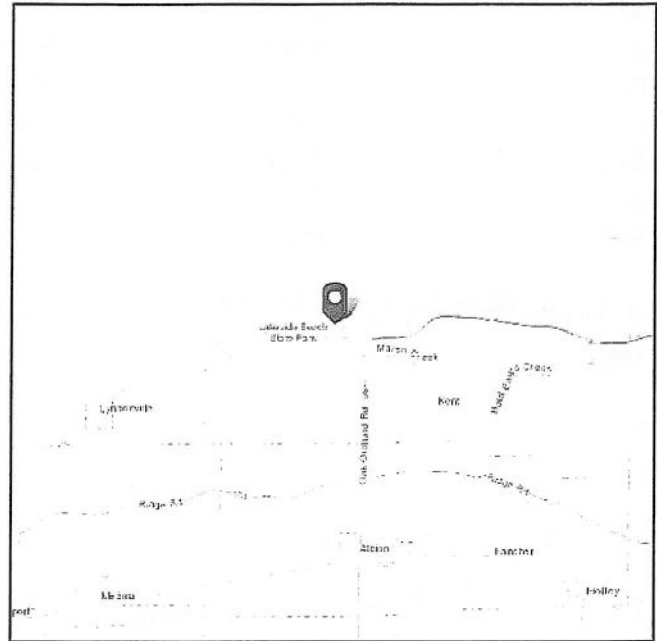
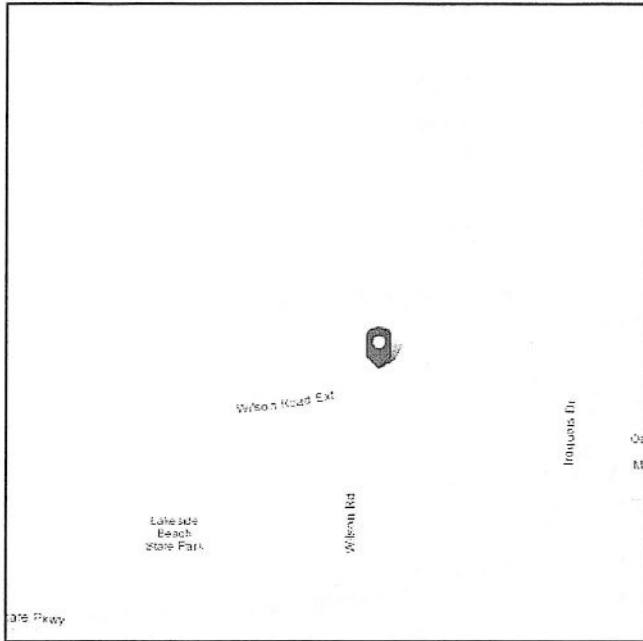
Total Capacity of Bolt Group: 11.8%

# ASCE Hazards Report

**Address:**  
No Address at This Location

**Standard:** ASCE/SEI 7-16  
**Risk Category:** II  
**Soil Class:** D - Stiff Soil

**Latitude:** 43.3707  
**Longitude:** -78.213869  
**Elevation:** 262.42910308933205 ft  
(NAVD 88)



## Wind

### Results:

Wind Speed	109 Vmph
10-year MRI	75 Vmph
25-year MRI	81 Vmph
50-year MRI	86 Vmph
100-year MRI	92 Vmph

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2

Date Accessed: Mon Feb 17 2025

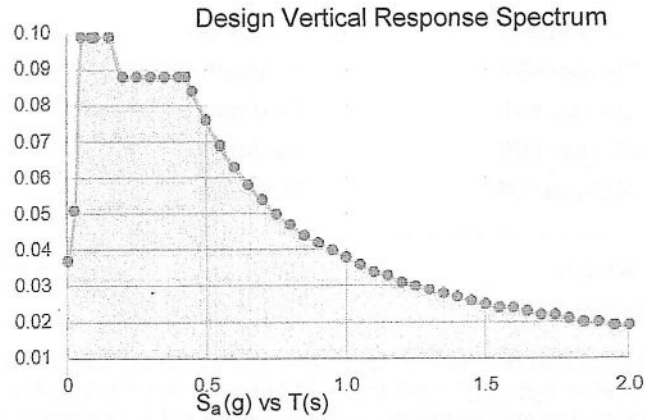
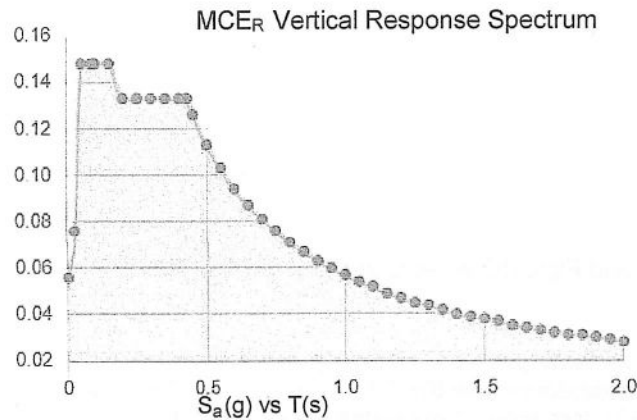
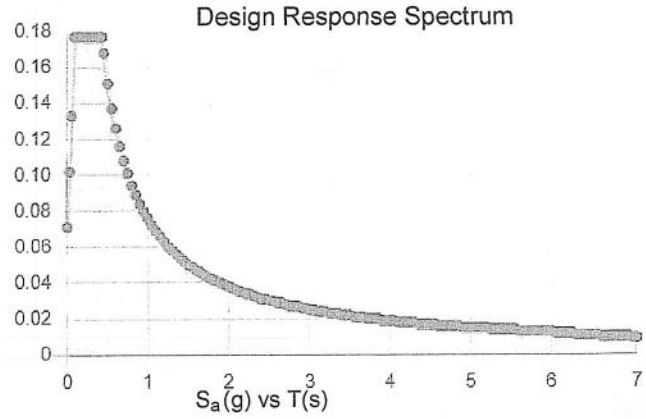
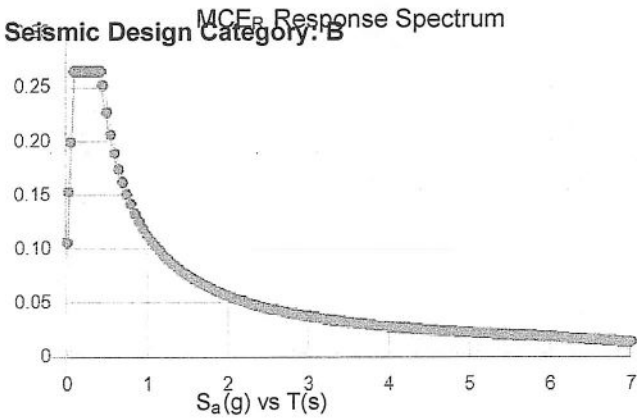
Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-16 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

Site is not in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2.

**Site Soil Class:** D - Stiff Soil

**Results:**

$S_s$ :	0.166	$S_{D1}$ :	0.076
$S_1$ :	0.047	$T_L$ :	6
$F_a$ :	1.6	PGA :	0.091
$F_v$ :	2.4	PGA <sub>M</sub> :	0.146
$S_{MS}$ :	0.265	$F_{PGA}$ :	1.6
$S_{M1}$ :	0.113	$I_e$ :	1
$S_{DS}$ :	0.177	$C_v$ :	0.7



**Data Accessed:** Mon Feb 17 2025

**Date Source:**

USGS Seismic Design Maps based on ASCE/SEI 7-16 and ASCE/SEI 7-16 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-16 Ch. 21 are available from USGS.

## Ice

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**Results:**

Ice Thickness: 2.00 in.  
Concurrent Temperature: 5 F  
Gust Speed 40 mph

**Data Source:** Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8

**Date Accessed:** Mon Feb 17 2025

Ice thicknesses on structures in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 500-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from local meteorological studies. Ice thicknesses in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

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The ASCE Hazard Tool is provided for your convenience, for informational purposes only, and is provided "as is" and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

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# NORTH SHORE NETWORKS

SITE NAME:  
**VILLAGE OF ALBION WATER DEPARTMENT  
(VAWD-TOWER)**

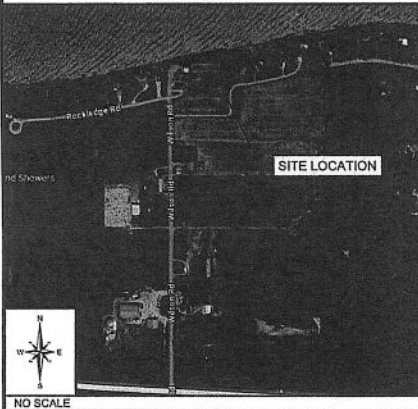
SITE ID:  
**TBD**

SITE ADDRESS:  
**961 WILSON ROAD  
WATERPORT, NY 14517  
ORLEAN COUNTY**

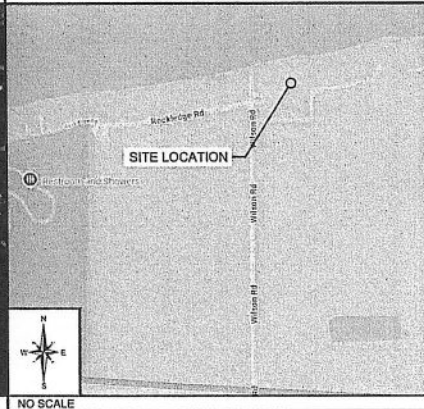
### DRIVING DIRECTIONS



### VICINITY MAP



### LOCATION MAP



### SCOPE OF WORK

THIS IS NOT AN ALL INCLUSIVE LIST. CONTRACTOR SHALL UTILIZE SPECIFIED EQUIPMENT PART OR ENGINEER APPROVED EQUIVALENT. CONTRACTOR SHALL VERIFY ALL NEEDED EQUIPMENT TO PROVIDE A FUNCTIONAL SITE. THE PROJECT GENERALLY CONSISTS OF THE FOLLOWING:

#### TOWER SCOPE OF WORK:

- PROPOSED OF (6) PANEL ANTENNAS
- PROPOSED OF (1) MV DISH ANTENNA
- PROPOSED OF (1) COU
- PROPOSED OF (1) LIGHTSABER OPTICS FIBER/POWER HYBRID CABLE 60M

#### GROUND SCOPE OF WORK:

- PROPOSED OF (1) MONOPOLE W/BALLAST BASE
- PROPOSED OF (1) LIGHTSABER OPTICS 20RU CABINET
- PROPOSED OF (1) PROPOSED UTILITY H-FRAME
- PROPOSED OF (1) ELECTRIC METER
- PROPOSED OF (1) SERVICE DISCONNECT

### SITE INFORMATION

PROPERTY OWNER: VILLAGE OF ALBION  
ADDRESS: 35 EAST BANK STREET  
ALBION, NY 14411

SITE ADDRESS: 961 WILSON ROAD  
WATERPORT, NY 14517

COUNTY: ORLEAN COUNTY

ZONING JURISDICTION: TOWN OF CARLTON

PROPERTY TAX ID: 6.00-1-4.00

ZONING DISTRICT: RECREATIONAL / RESIDENTIAL

LATITUDE (NAD 83): 43° 22' 14.52" N  
43.3707

LONGITUDE (NAD 83): 76° 12' 49.93" W  
-76.21387

ELEVATION: ±265' (NAVD 88)

TOWER TYPE: 150' MONOPOLE

PROPOSED USE: TELECOMMUNICATIONS

UTILITY COMPANIES: POWER COMPANY  
NATIONAL GRID  
(800) 642-4272

### PROJECT DIRECTORY

APPLICANT: NORTH SHORE NETWORK  
PO BOX 2  
MEDINA, NY 14103

TOWER OWNER: NORTH SHORE NETWORK  
PO BOX 2  
MEDINA, NY 14103

SITE DESIGNER: ALBUL ENGINEERING  
3840 E. ROBINSON ROAD  
AMHERST, NY 14228  
(716) 659-8147

PREPARED FOR:



PREPARED BY:



3840 E. ROBINSON ROAD  
AMHERST, NY 14228  
ALBULENG.COM

### SHEET INDEX

SHEET NO.	SHEET TITLE
T-1	TITLE SHEET
GN-1	GENERAL NOTES
A-1	OVERALL SITE PLAN
A-2	ENLARGED SITE PLAN
A-3	TOWER ELEVATION & ANTENNA CONFIGURATION
A-4	ANTENNA PLAN & SCHEDULE
A-5	ANTENNA SPECS & DETAILS
A-6	SITE DETAILS - I
A-7	SITE DETAILS - II
A-8	SITE DETAILS - III
A-9	CABLING DETAIL
E-1	ELECTRICAL PLAN
E-2	ELECTRICAL & GROUNDING DETAILS
G-1	GROUNDING PLAN & DETAILS
G-2	GROUNDING DETAILS

### NEW YORK CODE OF COMPLIANCE

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES

CODE TYPE	CODE
BUILDING	2018 IBC
MECHANICAL	2018 IMC
ELECTRICAL	2017 NEC



UNDERGROUND SERVICE ALERT - NEW YORK 811  
UTILITY NOTIFICATION CENTER OF NEW YORK  
(800) 272-4480  
WWW.NEWYORK-811.COM



CALL 2 WORKING DAYS UTILITY NOTIFICATION PRIOR TO CONSTRUCTION

11"x17" PLOT WILL BE HALF SCALE UNLESS OTHERWISE NOTED

CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS, AND CONDITIONS ON THE JOB SITE, AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

DMITRIY ALBUL  
NY LICENSE NO.089075

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

DRAWN BY:	CHECKED BY:
AK	AK

RFDS RAN TEMPLATE: N/A

### PRELIMINARY DOCUMENTS

SUBMITTALS		
REV.	DATE	DESCRIPTION
A	03-12-25	PRELIMINARY

ALBUL ENGINEERING PROJECT NUMBER:  
38633.NSN.CDN.V118280.0

PROJECT INFORMATION:  
**VILLAGE OF ALBION WATER DEPARTMENT (VAWD-TOWER)**  
SITE ID: TBD  
961 WILSON ROAD  
WATERPORT, NY 14517

SHEET TITLE:  
TITLE SHEET

SHEET NUMBER:  
**T-1**



### GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE 2018 INTERNATIONAL BUILDING CODE, THE NEW YORK STATE 2020 UNIFORM CODE SUPPLEMENT, AND ALL OTHER APPLICABLE CODES AND ORDINANCES.
2. CONTRACTOR SHALL VERIFY THE JOB SITE AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS PRIOR TO COMMENCING WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS AND CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT PRIOR TO THE COMMENCEMENT OF WORK.
3. PLANS ARE NOT TO BE SEALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC GUIDE ONLY, UNLESS OTHERWISE NOTED. THE WORK SHALL INCLUDE FURNISHING AND INSTALLATION AS INDICATED ON THE DRAWINGS.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS AND CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT PRIOR TO THE COMMENCEMENT OF WORK.
5. CONTRACTOR SHALL RECEIVE CLARIFICATION IN WRITING AND SHALL RECEIVE IN WRITING AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEMS NOT CLEARLY IDENTIFIED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
6. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ALL PRODUCTS OR ITEMS NOTED AS "IN STOCK" WHICH ARE NOT FOUND TO BE IN THE FIELD.
7. CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING THE BEST QUALITY MATERIALS AND METHODS. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS AND CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT PRIOR TO THE COMMENCEMENT OF WORK.
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14. MAKE NECESSARY PROVISIONS TO PROTECT EXISTING SURFACES, EQUIPMENT, UTILITIES, AND ADJACENT AREAS. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS AND CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT PRIOR TO THE COMMENCEMENT OF WORK.
15. REPAIR ALL EXISTING SURFACES DAMAGED DURING CONSTRUCTION SUCH THAT THEY MATCH AND BLEND WITH ADJACENT SURFACES.
16. KEEP CONTRACT AREA CLEAN, HAZARDOUS FREE, AND DISPOSE OF ALL DEBRIS AND RUBBISH. EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY OF THE OWNER SHALL BE REMOVED. LEAVE PREMISES IN CLEAN CONDITION AND FREE FROM PAINT, OIL, GREASE, AND OTHER CONTAMINANTS. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ITEMS UNTIL COMPLETION OF CONSTRUCTION.
17. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO COMMENCING WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS AND CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT PRIOR TO THE COMMENCEMENT OF WORK.
18. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS AND CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT PRIOR TO THE COMMENCEMENT OF WORK.
19. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 5A OR 2A:10ABC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF THE BUILD AREA DURING CONSTRUCTION.
20. ALL RECORDS, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS AND OTHER DOCUMENTATION SHALL BE TURNED OVER TO THE PROJECT MANAGER AT COMPLETION OF CONSTRUCTION.
21. RECORD OPERATIONS SHALL BE DONE IN ACCORDANCE WITH STATE AND FEDERAL REGULATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS AND CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT PRIOR TO THE COMMENCEMENT OF WORK.
22. NOTIFY DIS SAFETY NEW YORK BY CALLING 811, AND REQUEST A UTILITY STAKE-OUT.

### STRUCTURAL STEEL NOTES:

1. STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
2. STRUCTURAL STEEL, ROLLED SHAPES, PLATES AND BARS SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS:
  - A. ASTM A572, GRADE 50 - ALL W SHAPES, UNLESS NOTED OR A572 OTHERWISE.
  - B. ASTM A36 - ALL OTHER ROLLED SHAPES, PLATES AND BARS UNLESS NOTED OTHERWISE.
  - C. ASTM A588, GRADE 50 - HSS SECTION (SQUARE, RECTANGULAR, AND ROUND), UNLESS OTHERWISE NOTED.
  - D. ASTM A108, GRADE 8 - ALL ANCHOR BOLTS, UNLESS NOTED OTHERWISE.
  - E. ASTM A193, GRADE 1 - ALL ANCHOR BOLTS, UNLESS NOTED OTHERWISE.
3. ALL DISPOSED STRUCTURAL STEEL MEMBERS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM A123. DISPOSED STEEL, HARDWARE AND ANCHOR BOLTS SHALL BE GALVANIZED PER ASTM A153 OR B153.
4. ALL FIELD JOINT SURFACES, FIELD DRILLED HOLES AND GROUND SURFACES WHERE DRILLED HOLES ARE REQUIRED SHALL BE GALVANIZED PER ASTM A153 AND MANUFACTURER'S RECOMMENDATIONS.
5. DO NOT DRILL HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.
6. CONNECTIONS:
  - A. ALL WELDS TO BE PERFORMED BY AWS CERTIFIED WELDERS AND CONDUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS WELDING CODE D1.1.
  - B. ALL WELDS SHALL BE INSPECTED VISUALLY 25% OF WELDS SHALL BE INSPECTED WITH DYE PENETRANT OR MAGNETIC PARTICLE TO MEET THE ACCEPTANCE CRITERIA OF AWS D1.1. REPAIR ALL WELDS AS NECESSARY.
  - C. INSPECTION SHALL BE PERFORMED BY AN AWS CERTIFIED WELD INSPECTOR.
  - D. IF THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE BURNING/WELDING PERMITS AS REQUIRED BY LOCAL GOVERNING AUTHORITY AND IF REQUIRED SHALL HAVE THE DEPARTMENT DETAIL ON ANY WELDING ACTIVITY.
  - E. ALL WELDS TO BE LOW HYDROGEN, MATCHING FILLER METAL PER AWS D1.1, UNLESS NOTED OTHERWISE.
  - F. MINIMUM WELD SIZE TO BE 1/8" INCH FILLET WELD, UNLESS NOTED OTHERWISE.
  - G. PRIOR TO FIELD WELDING GALVANIZED MATERIAL, CONTRACTOR SHALL GRIND OFF GALVANIZED COATINGS TO A MINIMUM OF 1/16" INCH DEPTH. CONTRACTOR SHALL INSPECT AND COMPLETE REPAIR ALL GROUND AND WELDED SURFACES WITH ZINC GALVANITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURER'S RECOMMENDATIONS.
  - H. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHOWING AND/OR BRACKETS WHERE REQUIRED DURING CONSTRUCTION UNTIL ALL CONNECTIONS ARE COMPLETE.
  - I. ANY FIELD CHANGES OR SUBSTITUTIONS SHALL HAVE PRIOR APPROVAL FROM THE ENGINEER, AND NORTH SHORE NETWORK PROJECT MANAGER IN WRITING.

### ANTENNA INSTALLATION NOTES:

1. WORK INCLUDED:
  - A. ANTENNA AND COAXIAL CABLES ARE FURNISHED BY NORTH SHORE NETWORK UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION AND PROVIDE ALL NECESSARY PERMITS, DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS AND CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT PRIOR TO THE COMMENCEMENT OF WORK.
  - B. INSTALL ANTENNAS AS INDICATED ON DRAWINGS AND NORTH SHORE NETWORK SPECIFICATIONS.
  - C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS.
  - D. INSTALL ANTENNAS GALVANIZED STEEL ON ALUMINUM WAVEGUIDE AND PROVIDE PRINTOUT OF THAT TEST.
  - E. CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF EXHAUST TESTS USING AN ANTENNA ANALYZER (N/A) BY SCALAR NETWORK ANALYZER. SUBMIT FREQUENCY DOMAIN REFLECTION COEFFICIENT TESTS RESULTS TO THE PROJECT MANAGER. RECOMMENDED FOR ANTENNA AND HELIX COAXIAL CABLE SYSTEM DATED 10/29/19. TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING SERVICE AND BE BOUND AND SUBMITTED WITHIN ONE WEEK OF WORK COMPLETION.
  - F. INSTALL COAXIAL CABLES AND TERMINATING BETWEEN ANTENNAS AND EQUIPMENT IN ACCORDANCE WITH THE ANTENNA AND EQUIPMENT MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLES THREE (3) FEET IN EXCESS OF ENTRY POINT LOCATION UNLESS OTHERWISE SPECIFIED.
  - G. ANTENNA AND COAXIAL CABLE GROUNDS.
2. ALL EXTERIOR GREEN GROUND WIRE "GASTY CHAIN" CONNECTIONS ARE TO BE GALVANIZED. GALVANIZED WIRE ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS).
3. ALL COAXIAL CABLE GROUNDS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS).

### CONCRETE AND REINFORCING STEEL NOTES:

1. DESIGN AND CONSTRUCTION OF ALL CONCRETE ELEMENTS SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING APPLICABLE CODES: ACI 308 "SPECIFICATIONS FOR STRUCTURAL CONCRETE"; ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".
2. ALL SUGGESTED ELECTRICAL ELEMENTS (SUCH AS BUSHINGS, WIRE UNITS, ETC.) SHALL BE INSTALLED IN CONCRETE PRIOR TO POURING CONCRETE. THE ELECTRICAL CONTRACTOR TO CONFIRM COMPLIANCE WITH LOCAL ELECTRICAL CODES AND INSURE TO PERFORM AN ELECTRICAL LOAD STUDY TO VERIFY THE CAPACITY OF THE EXISTING SERVICE. THIS IS NOT THE RESPONSIBILITY OF A/E/C. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
3. CONTRACTOR SHALL FIELD LOCATE ALL BELOW GRADE GROUNDING CABLES AND UTILITY LINES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS AND CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT PRIOR TO THE COMMENCEMENT OF WORK.
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### ELECTRICAL NOTES:

1. ELECTRICAL WORK SHALL BE PERFORMED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL ENSURE THAT ALL WORK COMPLES WITH ALL APPLICABLE LOCAL AND STATE CODES AND NATIONAL ELECTRICAL CODE.
2. ALL SUGGESTED ELECTRICAL ELEMENTS (SUCH AS BUSHINGS, WIRE UNITS, ETC.) SHALL BE INSTALLED IN CONCRETE PRIOR TO POURING CONCRETE. THE ELECTRICAL CONTRACTOR TO CONFIRM COMPLIANCE WITH LOCAL ELECTRICAL CODES AND INSURE TO PERFORM AN ELECTRICAL LOAD STUDY TO VERIFY THE CAPACITY OF THE EXISTING SERVICE. THIS IS NOT THE RESPONSIBILITY OF A/E/C. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
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PREPARED FOR:



**NORTH SHORE NETWORKS**

PREPARED BY:



3640 E. ROBINSON ROAD  
AMHERST, NY 14208  
ALBIONENR.COM

DMITRY ALBUL  
NY LICENSE NO. 089075

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE AUTHORITY OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

DRAWN BY:	AK
CHECKED BY:	AK
SCALE:	AS SHOWN

REVISIONS:

NO.	DATE	DESCRIPTION
A	04-13-25	PRELIMINARY

ALBION ENGINEERING PROJECT NUMBER:

38633.NSN.CDN.V1.19280.0

VILLAGE OF ALBION WATER DEPARTMENT (WAWD-TOWER)

SITE ID: TBD  
961 WILSON ROAD  
WATERPORT, NY 14517

SHEET TITLE:

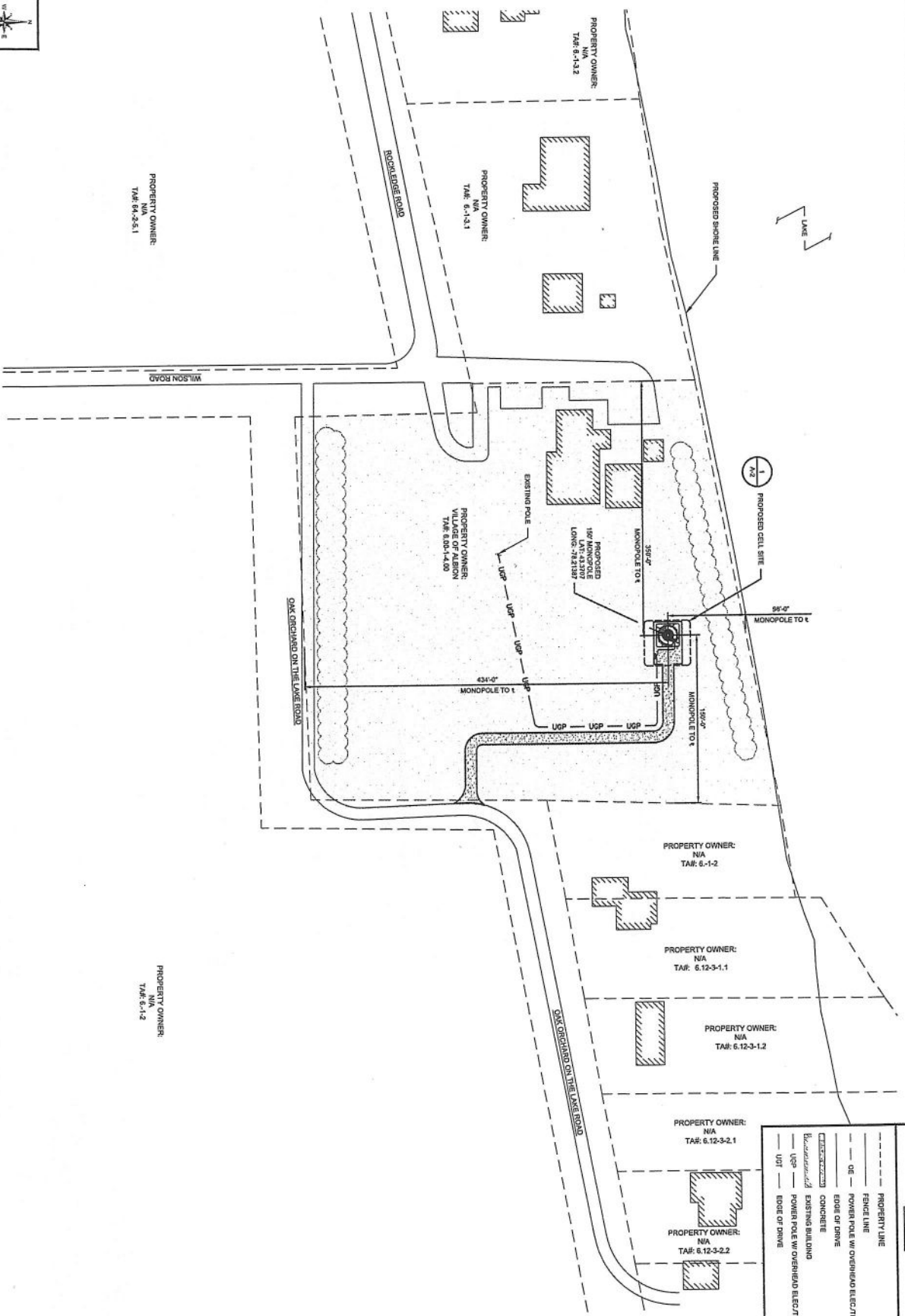
GENERAL NOTES

SHEET NUMBER:

GN-1



OVERALL SITE PLAN  
 SCALE: 1"=50' (25.3m) 1"=100' (30.5m)



**LEGEND**

- PROPERTY LINE
- FENCE LINE
- POWER POLE W/ OVERHEAD ELECT./FEED
- UCP
- EDGE OF DRIVE
- CONCRETE
- EXISTING BUILDING
- POWER POLE W/ OVERHEAD ELECT./FEED
- UCP
- EDGE OF DRIVE



<p>PREPARED FOR:  <b>NORTH SHORE NETWORKS</b></p> <p>PREPARED BY:  <b>ALBU ENGINEERING</b>        3440 E. ROBINSON ROAD        AMHERST, NY 14206        ALBU@ALBU.COM</p>	<p>PROJECT INFORMATION:        38633 NSN.CDN.V118280.0        ALBU ENGINEERING PROJECT NUMBER:        VILLAGE OF ALBION WATER        DEPARTMENT (NAWD-TOWER)        SITE ID: 79D        961 WILSON ROAD        WATERPOORT, NY 14517</p>	<p><b>REVISIONS</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>02-13-25</td> <td>PRELIMINARY</td> </tr> </tbody> </table>	REV.	DATE	DESCRIPTION	A	02-13-25	PRELIMINARY	<p><b>REGS DATA TEMPLATE</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REV.	DATE	DESCRIPTION				<p>DMITRY ALBIL        NY LICENSE NO.0089075</p> <p>IT IS A VIOLATION OF LAW FOR ANY PERSON,        UNLESS THEY ARE ACTING UNDER THE        DIRECT AUTHORITY AND CONTROL OF THE        ENGINEER, TO ALTER THIS DOCUMENT.</p> <p>DRAWN BY: _____ CHECKED BY: _____        JK ANV</p> <p>PRELIMINARY DOCUMENTS</p> <p>OVERALL SITE PLAN</p> <p>SHEET NUMBER: <b>A-1</b></p>
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