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REPLY TO:

Tarrytown Office

June 28, 2024

Chairman Ronald Davis and
Members of the Zoning Board of Appeals
Town of Fishkill
807 Route 52
Fishkill, NY 12524

Re: **Homeland Towers Route 9 Wireless Facility**
Homeland Towers, LLC & Verizon Wireless
(Tax Parcel ID 133089-6154-00-8523438-0000)
73 Route 9 Fishkill, NY 12524

Dear Chairman Davis and
Members of the Zoning Board of Appeals:

As you are aware, we represent Homeland Towers, LLC, ("Homeland Towers") and Verizon Wireless (collectively, "Applicants") in connection with a proposal to construct a personal wireless services facility, including a 150-foot monopole with a fenced equipment compound at the base thereof ("Facility"), at the above referenced property ("Property").

In furtherance of the foregoing, enclosed please find five (5) copies of the following:

1) 911 Call Data and Statistics Related to Wireless Services;
2) Updated Visual Resource Assessment;
3) Letter Regarding Negative Aspects related to Flagpole; and
4) Revised Site Plan.

Also enclosed herewith is a thumb drive with an electronic copy of the filing and all attachments.

Please note that while the Applicants have submitted simulations showing alternative designs of a 180-foot-tall faux "flagpole" and flagless flagpole as requested by the Planning Board, the Applicants are limited to a 150-foot-tall tower by their lease. Therefore, in addition to the negative aspects related to "flagpole" designs noted in the V-Comm Letter submitted herewith, there is also a lease limitation that currently prevents the applicants from constructing the "flagpole" design as shown in the Updated VRA. For all of the foregoing

reasons submitted herewith, the Applicants respectfully submit that the monopole design is the better design option.

Also as requested by this Honorable Board, we have included statistics and data related to wireless services and 911 calls.

If you have any questions or require additional documentation, please do not hesitate to contact me. We look forward to discussing this matter at the next available ZBA meeting and thank you in advance for your consideration.

Very truly yours,

David J. Kenny

Enclosures
cc: Joel Petrus, Town Building Inspector/Zoning Administrator
Applicants
Z:\SSDATA\WPDATA\SS3\RDG\Homelandtowers\Fishkill\NY057 (Weiss Pond)\Cover Letter ZBA Filing 6.4.24.rtf

NATIONAL CENTER FOR HEALTH STATISTICS
National Health Interview Survey Early Release Program

Wireless Substitution: Early Release of Estimates from the National Health Interview Survey, July-December 2022

Stephen J. Blumberg, Ph.D., and Julian V. Luke
Division of Health Interview Statistics, National Center for Health Statistics

Overview

Since 2007, the National Health Interview Survey (NHIS) Early Release Program has regularly released preliminary estimates of the percentages of adults and children living in homes with only wireless telephones (also known as cellular telephones, cell phones, or mobile phones). These estimates are the most up-to-date estimates available from the federal government concerning the size and characteristics of this population.

Estimates in this report are based on the second six months of 2022. During this time period, 72.6% of adults and 81.9% of children lived in wireless-only households.

NHIS data can also be used to estimate the percentage of adults who live in wireless-only households and have their own wireless telephone (wireless-only adults). For July-December 2022, 71.7% of adults were wireless-only adults. Demographic subgroups with the highest percentages of wireless-only adults include adults aged 25–29 (87.6%) and 30-34 (88.4%) (**Figure**), and adults renting their homes (85.3%).

NHIS Early Release Program

This report is published as part of the NHIS Early Release Program. Twice each year, the National Center for Health Statistics (NCHS) releases selected estimates of telephone coverage for the civilian noninstitutionalized U.S. population based on data from NHIS, along with comparable estimates from NHIS for the previous 2 years. The estimates are based on in-person interviews that are conducted throughout the year to collect information on health status, health-related behaviors, and health care access and utilization. The survey also includes information about household telephones and whether anyone in the household has a wireless telephone.

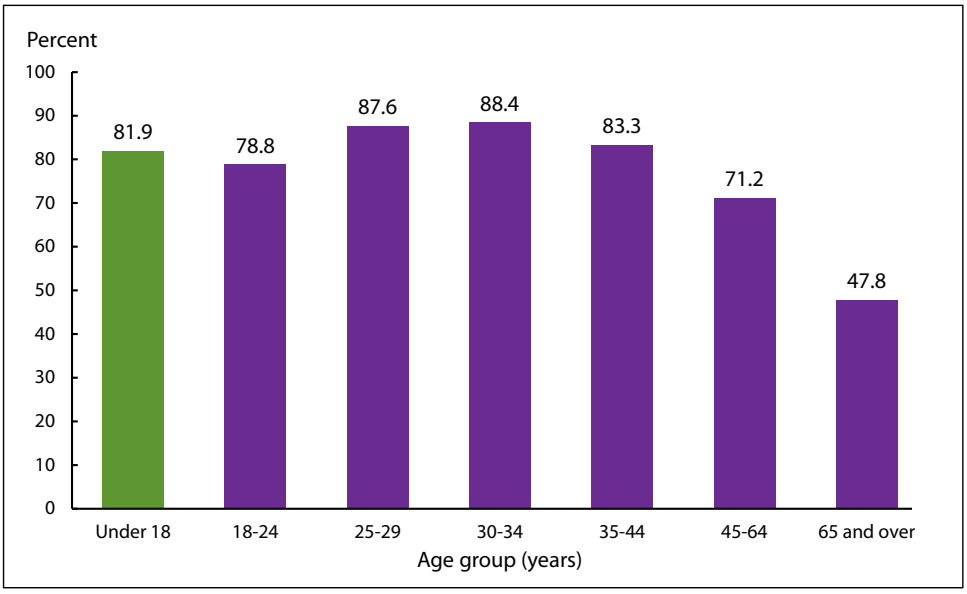
To provide access to the most recent information from NHIS, estimates using the July–December 2022 data are being released prior to final data editing and final weighting. These estimates should be considered preliminary. Estimates produced using the final data files may differ slightly from those presented here.

Background

Many health surveys, political polls, and other types of research are conducted using random-digit-dial (RDD) telephone surveys. Most survey research organizations include wireless telephone numbers when conducting RDD surveys. If they did not, the exclusion of households with only wireless telephones (along with the small proportion of households that have no telephone service) could bias results. This bias—known as coverage bias—could exist if there are differences between people with and without landline telephones for the substantive variables of interest.

Since 2003, NHIS has asked respondents about landlines and wireless telephones in their homes. Compared with adults living in landline households, adults living in wireless-only households are more likely to be people who smoke cigarettes and people who had at least one heavy drinking day in the past year. Adults living in wireless-only households are also less likely to have health insurance coverage, less likely to have a usual place to go for medical care, less likely to have

Figure. Percentages of wireless-only adults and of children living in households with only wireless telephone service, by age group: United States, July–December 2022



NOTES: Wireless-only adults are adults who live in households with only wireless telephone service and have their own wireless telephone.
SOURCE: National Center for Health Statistics, National Health Interview Survey.

received an influenza vaccination in the past year, and more likely to have experienced financial barriers to care. Previous Early Release Program reports based on data from 2003-2018 include additional details about these health-related differences between people with and without landline telephones.

Because of these differences, the potential for coverage bias remains a real threat to RDD health surveys that do not include sufficient representation of households with only wireless telephones. NCHS continues to publish estimates of the size and characteristics of this population so that survey research organizations can evaluate whether they have appropriately included this population in their telephone surveys.

Methods

NHIS randomly selects one "sample adult" aged 18 years or older and one "sample child" aged 17 years or younger (if any children live in the household) from each household following a brief initial interview that identifies everyone who usually lives or stays in the household. Information about the sample adult is collected from the sample adults themselves unless they are physically or mentally unable to do so, in which case a knowledgeable proxy can answer for the sample adult. Information about the sample child is collected from a parent or adult who is knowledgeable about and responsible for the health care of the sample child. This respondent may or may not also be the sample adult.

To determine whether the sample adult or child lived in a household with a landline telephone, the respondent was asked if there was "at least one phone inside your home that is currently working and is not a cell phone." To avoid possible confusion with cordless landline telephones, the word "wireless" was not used in the survey. This question was asked only once, in whichever interview (sample adult or sample child) came first.

Sample adults are also asked whether they "have a working cell phone," and if not, whether they "live with anyone who has a working cell phone." This approach permits the identification of adults living in wireless-only households (that is, households without landlines within which at least one household member has a working cell phone) and of wireless-only adults (that is, adults who live in a wireless-only household and have their own cell phone). Respondents for sample children are only asked if the child lives "with anyone who has a working cell phone," and only if the wireless status of the household is not yet known from the sample adult interview.

An additional question is included for sample adults who have a cell phone and live in households with landline telephones. The sample adult is asked to consider "all the telephone calls that you answer" and to report whether "all or almost all [are] on your cell phones, some [are] on your cell phone and some on your home phone, or very few or none [are] on your cell phones." This question permits the identification of "wireless-mostly" adults—defined as adults with both landline and cellular telephones who answer all or almost all calls on cell phones. Landline-mostly adults and dual-users can be similarly identified.

NHIS uses sampling weights to produce representative national estimates. The base weight is equal to the inverse of the probability of selection of the sample address. These weights are adjusted for household and person-level nonresponse using multilevel models predictive of response propensity. Nonresponse-adjusted weights are further calibrated to U.S. Census Bureau population projections and American Community Survey (ACS) one-year estimates for age, sex, race and ethnicity, educational attainment, housing tenure, Census division, and Metropolitan Statistical Area status.

Point estimates and 95% confidence intervals were calculated using SUDAAN software (RTI International, Research Triangle Park, NC) to account for the complex sample design of NHIS. All estimates shown meet the NCHS standards of reliability as specified in *National Center for Health Statistics Data Presentation Standards for Proportions*.

Differences between percentages were evaluated using two-sided significance tests at the 0.05 level. All differences discussed are statistically significant unless otherwise noted. Lack of comment regarding the difference between any two estimates does not necessarily mean that the difference was tested and found to be not significant. Because of small sample sizes, estimates based on less than 1 year of data may have large confidence intervals, and caution should be used in interpreting such estimates.

Impact of the COVID-19 Pandemic

Additional caution is warranted when interpreting telephone status estimates from 2020. Due to the COVID-19 pandemic, NHIS data collection switched to a telephone-only mode beginning on March 19, 2020. Personal visits to households resumed in selected areas in July 2020 and in all areas of the country in September 2020. However, contact with households was still attempted by telephone first, and a majority of interviews were completed by telephone. Additionally, starting in August and continuing through the end of December, a subsample of adult respondents who completed an NHIS interview in 2019 were recontacted by telephone and asked to participate again, completing the 2020 NHIS questionnaire. Estimates for 2020 in **Table 1** are based on data from both samples.

Response rates were lower and respondent characteristics were different in April through December 2020. The weighted 2020 sample underrepresented adults living alone and adults with family income below the federal poverty level. The sample also underrepresented wireless-only adults, whereas adults living in households with both landline and wireless telephones were overrepresented. Moreover, phoneless households (those with neither wireless nor landline telephones) generally could not be interviewed in Quarter 2, 2020 or as part of the reinterviewed sample. For these reasons, caution should be used in interpreting differences observed in estimates between 2020 and other time periods, particularly for estimates of people living in phoneless households.

The "telephone first" data collection approach that began in July 2020 ended in April 2021. Pre-pandemic interviewing procedures, with initial contact attempts

by personal visit, resumed in May 2021. However, a majority of NHIS interviews in 2021 and 2022 were still completed by telephone rather than in-person (52% in July-December 2022).

Household Telephone Status

From July through December 2022, information on household telephone status was obtained for 13,385 civilian adults aged 18 and over and 3,768 children under age 18. In the second six months of 2022, 72.6% of adults (about 186 million) and 81.9% of children (nearly 60 million) lived in households that did not have a landline telephone but did have at least one wireless telephone (**Table 1**).

The percentages of adults and children living in wireless-only households have been generally increasing since 2003. Consistent with that trend, there was also a statistically significant increase (3.9 percentage points) in the past 12 months—that is, from the second 6 months of 2021 to the second 6 months of 2022—in the percentages of adults living in wireless-only households. Across that same time period, an increase (2.8 percentage points) was also observed for children.

Wireless-only Adults

Seven in 10 adults were wireless-only (71.7%, 183 million); that is, they personally had a wireless telephone and lived in a household that did not have a landline. The percentage of adults who were wireless-only is shown, by selected demographic characteristics, in **Table 2**. Confidence intervals for these percentages are shown in **Table 3**. For July–December 2022:

- Nearly nine in 10 adults aged 25–29 (87.6%) and aged 30-34 (88.4%) were wireless-only (**Figure**). The percentage of adults who were wireless-only decreased as age increased beyond 35 years: 83.3% for those 35–44; 71.2% for those 45–64; and 47.8% for those 65 and over.
- Hispanic adults (80.0%) were more likely than non-Hispanic Asian (73.0%), non-Hispanic Black (69.5%), or non-Hispanic White (69.5%) adults to be wireless-only.
- Men (72.4%) were more likely than women (71.1%) to be wireless-only.
- Adults with family incomes below the federal poverty threshold (77.8%) and adults with family incomes of 100% to less than 200% of the federal poverty threshold (74.9%) were more likely than adults with higher family incomes (70.8%) to be wireless-only.
- Adults living in the Midwest (73.8%), South (74.1%), and West (76.0%) were more likely than those living in the Northeast (58.0%) to be wireless-only.
- More than four in five adults living in rented homes (85.3%) were wireless-only. This percentage is higher than the percentage for adults living in homes owned by a household member (66.2%).

Table 2 also includes estimates of the percentage of adults who were wireless-mostly, landline-mostly, dual users, landline-only, and phoneless, by selected demographic characteristics. Confidence intervals for these percentages are shown in **Table 3**.

Other NHIS Early Release Program Products

This report is published as part of the NHIS Early Release Program. Earlier reports on wireless substitution are at https://www.cdc.gov/nchs/nhis/erwirelesssubs.htm.

The prevalence of adults and children living in wireless-only households varies across states. For more information about prevalence estimates at the state level, see

- NCHS. Modeled estimates (with standard errors) of the percent distribution of personal telephone status for adults aged 18 and over, by state: United States, 2020. December 2022. Available from: https://www.cdc.gov/nchs/data/nhis/earlyrelease/Wireless_state_202212.pdf.

In addition to these products, preliminary microdata files containing selected NHIS variables are produced as part of the Early Release Program. The telephone service use variables presented in this report are included in those microdata files. Analysts can access these files through the NCHS Research Data Centers (https://www.cdc.gov/rdc/) without having to wait for the final annual NHIS microdata files to be released.

For more information about NHIS and the NHIS Early Release Program, or to find other Early Release Program products, see

- NHIS home page at https://www.cdc.gov/nchs/nhis.htm.
- Early Release Program home page at https://www.cdc.gov/nchs/nhis/releases.htm.

Suggested Citation

Blumberg SJ, Luke JV. Wireless substitution: Early release of estimates from the National Health Interview Survey, July-December 2022. National Center for Health Statistics. May 2023. DOI: https://doi.org/10.15620/cdc:127524.

Table 1. Percent distribution of household telephone status for adults and children: United States, 2020-2022

Date of interview	Number of people (unweighted)	Wireless-only household	Landline with wireless	Landline-only household[1]	Phoneless	Landline with unknown wireless	Wireless with unknown landline	Total
Adults								
July–December 2020[2]	17,028	65.8	31.9	1.8	0.4	0.1	0.1	100.0
95% confidence interval	…	64.69-66.81	30.88-32.95	1.60-2.08	0.28-0.52	0.03-0.12	0.04-0.14	…
January–June 2021[2]	13,901	68.0	29.3	1.9	0.5	0.0	0.1	100.0
95% confidence interval	…	66.70-69.34	28.04-30.66	1.66-2.23	0.44-0.69	0.01-0.05	0.09-0.22	…
July–December 2021	14,629	68.7	28.9	1.7	0.6	0.0	0.1	100.0
95% confidence interval	…	67.54-69.81	27.82-29.97	1.48-2.00	0.47-0.75	0.00-0.05	0.05-0.16	…
January–June 2022	13,002	70.7	27.1	1.6	0.4	0.0	0.1	100.0
95% confidence interval	…	69.47-71.97	25.88-28.36	1.41-1.89	0.31-0.59	0.01-0.09	0.02-0.17	…
July–December 2022	13,385	72.6	25.4	1.3	0.6	0.0	0.1	100.0
95% confidence interval	…	71.55-73.67	24.34-26.44	1.11-1.50	0.46-0.75	0.01-0.06	0.04-0.19	…
Children								
July–December 2020[2]	1,984	75.5	23.1	0.6	0.6	-	-	100.0
95% confidence interval	…	72.90-77.91	20.84-25.55	0.29-1.37	0.23-1.80	-	-	…
January–June 2021[2]	4,016	79.1	19.8	0.4	0.7	0.0	0.0	100.0
95% confidence interval	…	77.27-80.78	18.12-21.61	0.17-0.91	0.42-1.05	0.00-0.04	0.01-0.23	…
July–December 2021	4,211	79.1	19.6	0.4	0.8	–	0.0	100.0
95% confidence interval	…	77.45-80.73	18.05-21.35	0.20-0.65	0.55-1.22	–	0.01-0.17	…
January–June 2022	3,585	81.7	17.3	0.5	0.5	–	0.1	100.0
95% confidence interval	…	80.05-83.31	15.70-18.93	0.22-1.02	0.31-0.74	–	0.01-0.31	…
July–December 2022	3,768	81.9	16.9	0.3	0.9	–	0.0	100.0
95% confidence interval	…	80.08-83.64	15.34-18.64	0.11-0.60	0.52-1.41	–	0.00-0.12	…

0.0 Quantity more than zero but less than 0.05.

… Category not applicable.

– Quantity zero.

[1]Landline-only refers to households with a landline telephone in which no residents have a working cell phone. In reports based on 2003-2018 data, this category was labeled as "landline without wireless."

[2]Due to the COVID-19 pandemic, NHIS data collection switched to a telephone-only mode beginning on March 19, 2020. Personal visits resumed in all areas in September 2020. However, contact with households was still attempted by telephone first, and a majority of interviews were completed by telephone. Additionally, from August-December 2020, a subsample of adult respondents who completed an NHIS interview in 2019 were recontacted by telephone and asked to participate again. Response rates were lower and respondent characteristics were different in April–December 2020. Differences observed in estimates between 2020 and other time periods—particularly estimates of people living in phoneless households—may have been impacted by these differences in respondent characteristics. The "telephone first" data collection approach that began in July 2020 continued through April 2021. Pre-pandemic interviewing procedures, with initial contact attempts by personal visit, resumed in May 2021.

NOTE: Data are based on household interviews of a sample of the civilian noninstitutionalized population.

SOURCE: National Center for Health Statistics, National Health Interview Survey.

Table 2. Percent distribution of personal telephone status for adults, by selected demographic characteristics: United States, July-December 2022

Demographic characteristic	Wireless-only adults	Wireless-mostly adults	Dual-users	Landline-mostly adults	Landline-only adults	Phoneless adults	Unknown[1]	Total
Total	71.7	15.2	6.1	3.2	2.1	1.3	0.4	100.0
Age (years)								
18–24	78.8	16.0	2.1	0.4	0.3	1.9	0.5	100.0
25–29	87.6	8.2	1.5	0.3	0.6	1.4	0.5	100.0
30–34	88.4	8.9	1.0	0.1	0.1	1.1	0.4	100.0
35–44	83.3	12.0	2.1	0.4	0.2	1.2	0.8	100.0
45–64	71.2	18.5	6.2	1.7	1.2	0.9	0.3	100.0
65 and over	47.8	17.4	14.6	11.4	6.9	1.7	0.3	100.0
Race and ethnicity								
Hispanic or Latino, any race(s)	80.0	11.6	3.5	0.9	1.5	1.7	0.8	100.0
Asian, single race[2]	73.0	16.1	5.1	1.1	1.0	3.0	0.7	100.0
Black, single race[2]	69.5	17.9	5.7	2.4	2.2	1.9	0.3	100.0
White, single race[2]	69.5	15.7	7.0	4.3	2.3	0.8	0.3	100.0
Other and multiple races[2]	77.5	12.5	3.6	1.7	1.3	3.1	0.4	100.0
Sex								
Male	72.4	15.7	5.3	2.6	2.0	1.4	0.6	100.0
Female	71.1	14.7	6.8	3.8	2.1	1.2	0.3	100.0
Education								
Some high school or less	72.5	10.5	5.1	3.4	4.0	3.9	0.5	100.0
High school graduate or GED[3]	70.5	13.6	6.3	4.2	3.1	1.8	0.5	100.0
Some post-high school, no degree	72.8	15.1	6.0	3.3	1.7	0.6	0.4	100.0
4-year college degree or higher	71.5	17.8	6.3	2.3	1.0	0.7	0.5	100.0
Family income relative to federal poverty threshold[4]								
Less than 100%	77.8	9.0	2.8	2.4	3.8	3.7	0.6	100.0
100% to less than 200%	74.9	11.0	4.2	4.1	3.6	2.1	0.3	100.0
200% or greater	70.8	17.0	6.8	3.0	1.4	0.7	0.3	100.0
Geographic region[5]								
Northeast	58.0	22.6	9.8	5.2	2.5	0.8	1.1	100.0
Midwest	73.8	13.4	5.5	3.7	2.1	1.0	0.5	100.0
South	74.1	14.1	5.8	2.7	1.9	1.2	0.3	100.0
West	76.0	13.0	4.3	2.3	1.9	2.1	0.3	100.0
Metropolitan statistical area status								
Metropolitan	71.8	15.8	6.0	2.9	1.8	1.2	0.4	100.0
Not metropolitan	71.4	11.1	6.6	5.1	3.9	1.5	0.4	100.0

See footnotes at end of table.

Table 2. Percent distribution of personal telephone status for adults, by selected demographic characteristics: United States, July-December 2022—*Continued*

Demographic characteristic	Wireless-only adults	Wireless-mostly adults	Dual-users	Landline-mostly adults	Landline-only adults	Phoneless adults	Unknown[1]	Total
Home ownership status								
Owned or being bought	66.2	18.1	7.7	4.2	2.4	1.0	0.4	100.0
Renting	85.3	8.2	2.0	0.9	1.4	1.8	0.5	100.0
Other arrangement	66.8	14.7	6.6	**	2.5	**	0.8	100.0
Number of adults in survey sample (unweighted)	9,240	1,963	930	614	414	176	48	13,385

** Estimate does not meet NCHS standards of reliability as specified in *National Center for Health Statistics Data Presentation Standards for Proportions* (available from: https://www.cdc.gov/nchs/data/series/sr_02/sr02_175.pdf).

– Quantity zero.

[1]Unknown includes adults with either unknown landline, unknown wireless, or unknown frequency-of-use status (for adults with both landline and wireless telephones). Adults with both unknown landline and unknown wireless status are excluded from the analysis.

[2]Race groups are non-Hispanic.

[3]GED is General Educational Development high school equivalency diploma.

[4]Based on family income and family size using the U.S. Census Bureau's poverty thresholds. Early Release estimates stratified by poverty status are based on reported income only and may differ from similar estimates produced later that are based on both reported and imputed income. Family income relative to the federal poverty threshold was unknown for 11.0% of adults in these analyses. NCHS imputes income when income is unknown, but the imputed income file is not available until the annual NHIS microdata are released.

[5]In the geographic classification of the U.S. population, states are grouped into the following four regions used by the U.S. Census Bureau: *Northeast* includes Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont; *Midwest* includes Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin; *South* includes Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia; and *West* includes Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population. Korn and Graubard 95% confidence intervals for these estimates are presented in Table 3.

SOURCE: National Center for Health Statistics, National Health Interview Survey, July-December 2022.

Table 3. Korn and Graubard 95% confidence intervals for percent distributions in Table 2

Demographic characteristic	Wireless-only adults	Wireless-mostly adults	Dual-users	Landline-mostly adults	Landline-only adults	Phoneless adults	Unknown[1]	Total
Total	70.6-72.8	14.3-16.0	5.6-6.6	2.9-3.6	1.8-2.3	1.0-1.6	0.3-0.6	…
Age (years)								
18–24	75.1-82.3	12.9-19.5	1.1-3.7	0.1-1.1	0.0-1.1	0.9-3.5	0.1-1.2	…
25–29	84.7-90.2	6.1-10.8	0.4-3.5	0.0-1.4	0.1-1.6	0.6-2.5	0.1-1.4	…
30–34	85.6-90.8	6.8-11.4	0.4-2.3	0.0-0.5	0.0-0.5	0.6-2.0	0.1-1.0	…
35–44	81.4-85.2	10.4-13.7	1.5-2.8	0.2-0.8	0.1-0.5	0.7-2.0	0.4-1.7	…
45–64	69.5-73.0	16.9-20.1	5.4-7.0	1.3-2.2	0.9-1.6	0.6-1.2	0.1-0.6	…
65 and over	45.9-49.7	16.2-18.7	13.3-15.9	10.3-12.6	6.1-7.7	1.3-2.1	0.1-0.5	…
Race and ethnicity								
Hispanic or Latino, any race(s)	78.1-81.8	10.0-13.3	2.7-4.5	0.5-1.5	1.0-2.2	1.0-2.8	0.3-1.6	…
Asian, single race[2]	69.0-76.7	12.7-20.0	3.6-6.9	0.5-2.1	0.4-2.0	1.8-4.6	0.2-1.8	…
Black, single race[2]	66.7-72.2	15.8-20.1	4.3-7.4	1.7-3.4	1.5-3.1	1.2-2.8	0.1-0.9	…
White, single race[2]	68.2-70.8	14.6-16.8	6.4-7.7	3.9-4.8	2.0-2.7	0.6-1.0	0.2-0.5	…
Other and multiple races[2]	72.0-82.4	8.0-18.2	1.8-6.3	0.5-4.2	0.3-3.7	1.3-6.2	0.0-2.0	…
Sex								
Male	71.1-73.7	14.5-16.9	4.8-5.9	2.2-3.1	1.7-2.4	1.0-1.8	0.3-0.9	…
Female	69.5-72.6	13.5-15.9	6.0-7.7	3.3-4.3	1.8-2.5	0.9-1.5	0.2-0.5	…
Education								
Some high school or less	69.9-75.1	8.8-12.4	3.8-6.7	2.4-4.8	3.0-5.3	2.6-5.6	0.1-1.3	…
High school graduate or GED[3]	68.7-72.3	12.2-15.2	5.4-7.2	3.5-4.9	2.5-3.7	1.3-2.6	0.2-0.8	…
Some post-high school, no degree	71.0-74.6	13.6-16.8	5.2-6.8	2.8-4.0	1.3-2.2	0.4-1.0	0.2-0.7	…
4-year college degree or higher	69.8-73.2	16.3-19.3	5.5-7.3	1.8-2.9	0.7-1.3	0.4-0.9	0.3-0.7	…
Family income relative to federal poverty threshold[4]								
Less than 100%	74.8-80.6	7.1-11.1	1.7-4.1	1.6-3.4	2.8-5.0	2.5-5.3	0.2-1.5	…
100% to less than 200%	72.7-77.0	9.2-13.0	3.3-5.2	3.2-5.1	2.9-4.5	1.4-3.0	0.1-0.7	…
200% or greater	69.5-72.0	16.0-18.1	6.1-7.5	2.6-3.4	1.2-1.7	0.5-1.0	0.2-0.6	…
Geographic region[5]								
Northeast	55.1-60.8	20.9-24.4	8.2-11.7	3.9-6.8	1.9-3.3	0.3-1.6	0.5-1.9	…
Midwest	72.2-75.4	11.6-15.4	4.7-6.4	3.0-4.4	1.6-2.7	0.5-1.7	0.2-0.9	…
South	72.1-76.0	12.7-15.6	5.1-6.6	2.2-3.2	1.5-2.3	0.8-1.5	0.1-0.5	…
West	74.3-77.7	11.4-14.8	3.6-5.1	1.8-2.9	1.5-2.5	1.4-3.0	0.0-0.9	…
Metropolitan statistical area status								
Metropolitan	70.6-72.9	14.9-16.7	5.5-6.6	2.6-3.3	1.5-2.0	1.0-1.6	0.3-0.7	…
Not metropolitan	68.4-74.2	9.0-13.5	5.3-8.1	4.2-6.2	3.0-5.0	1.0-2.3	0.2-0.8	…

See footnotes at end of table.

Table 3. Korn and Graubard 95% confidence intervals for percent distributions in Table 2—*Continued*

Demographic characteristic	Wireless-only adults	Wireless-mostly adults	Dual-users	Landline-mostly adults	Landline-only adults	Phoneless adults	Unknown[1]	Total
Home ownership status								
Owned or being bought	64.7-67.8	17.0-19.3	7.1-8.4	3.7-4.7	2.1-2.7	0.8-1.2	0.2-0.6	…
Renting	83.8-86.6	7.2-9.4	1.5-2.6	0.7-1.3	1.0-1.8	1.3-2.4	0.2-0.9	…
Other arrangement	59.1-73.8	10.3-20.1	3.4-11.4	…	1.0-4.9	…	0.0-4.2	…

… Category not applicable.

[1]Unknown includes adults with either unknown landline, unknown wireless, or unknown frequency-of-use status (for adults with both landline and wireless telephones). Adults with both unknown landline and unknown wireless status are excluded from the analysis.

[2]Race groups are non-Hispanic.

[3]GED is General Educational Development high school equivalency diploma.

[4]Based on family income and family size using the U.S. Census Bureau's poverty thresholds. Early Release estimates stratified by poverty status are based on reported income only and may differ from similar estimates produced later that are based on both reported and imputed income. Family income relative to the federal poverty threshold was unknown for 11.0% of adults in these analyses. NCHS imputes income when income is unknown, but the imputed income file is not available until the annual NHIS microdata are released.

[5]In the geographic classification of the U.S. population, states are grouped into the following four regions used by the U.S. Census Bureau: *Northeast* includes Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont; *Midwest* includes Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin; *South* includes Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia; and *West* includes Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming.

NOTES: Data are based on household interviews of a sample of the civilian noninstitutionalized population.

SOURCE: National Center for Health Statistics, National Health Interview Survey, July-December 2022.

Search

911 Stats & Data

911 Stats & Data

Collecting and sharing nationwide 911 statistics helps the 911 community better understand the state of the industry, including progress toward Next Generation 911 (NG911) and the implementation of various funding and governance models. The data can have a significant impact on a state's ability to make the case for additional funding, legislative changes and more.

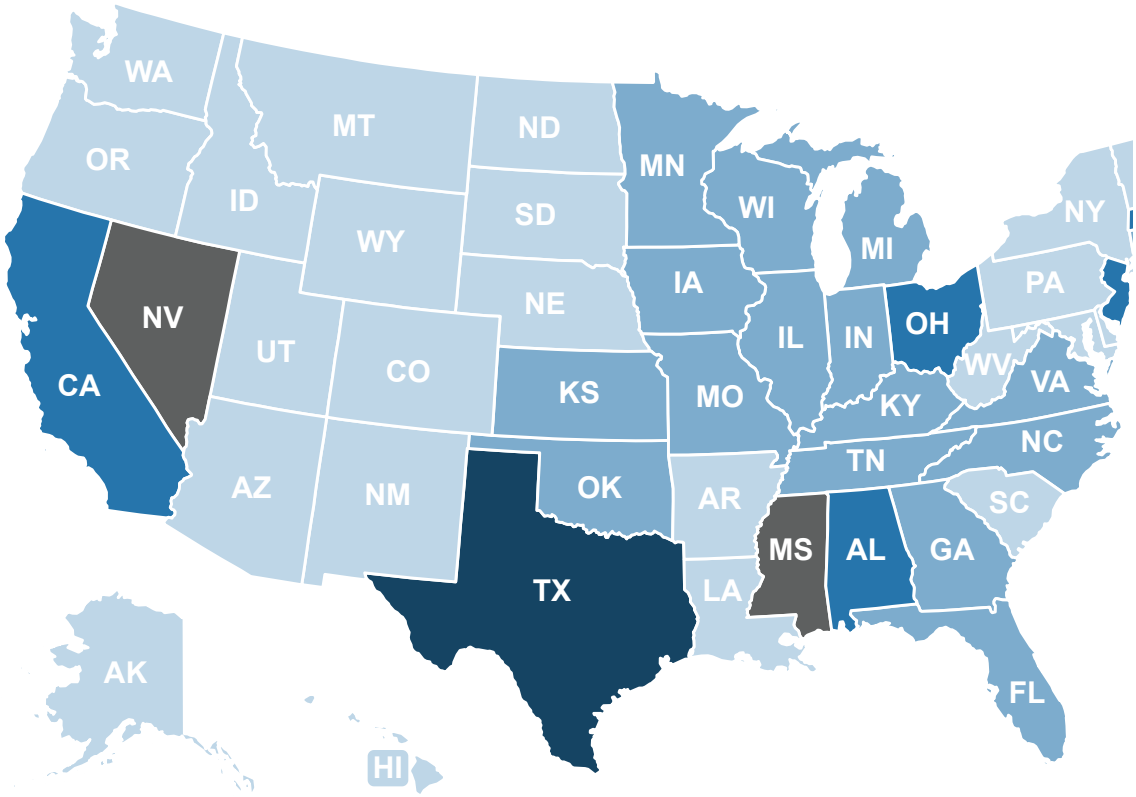
This interactive map highlights the most comprehensive and current data about state 911 systems available since calendar year 2019. The available data is provided by the states to the National 911 Profile Database, which is also compiled into the National 911 Annual Report: 2021 Data. Data provided from other sources is indicated by an asterisk.

Click on any of the filters above the map to view national results for these five topics. Click on any state or territory to see all data voluntarily submitted by the entity.

2022 | 2021 | 2020 | 2019

Total Number of PSAPs | Text-to-911 | Governance Structure | PSAPs providing EMD | Training Requirements

The total number of primary and secondary PSAPs in a state, grouped by range

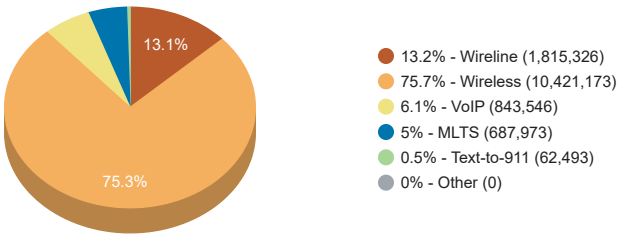


0 - 99 | 100 - 199 | 200 - 499 | 500+ | State reported unknown | State did not submit data

New York

911 Calls and Equipment Positions

Total Calls:

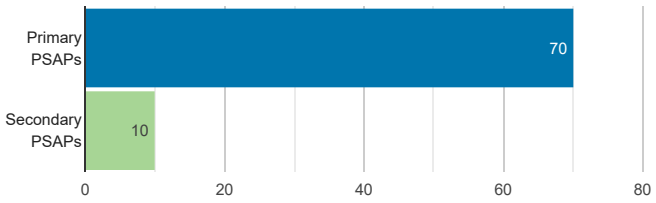


Data Points

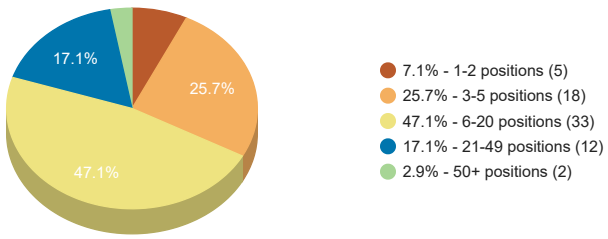
Total Equipment Positions	1,400
Total annual 911 calls	13,768,018
Total wireline 911 calls	1,815,326

Total wireless 911 calls	10,421,173
Total VoIP 911 calls	843,546
Total MLTS 911 calls	687,973
Total texts-to-911	62,493
Primary PSAPs	70
Secondary PSAPs	10
Primary PSAPs with 1-2 911 equipment positions	5
Primary PSAPs with 3-5 911 equipment positions	18
Primary PSAPs with 6-20 911 equipment positions	33
PSAPs with 21-49 911 equipment positions	12
PSAPs with 50+ 911 equipment positions	2
Total 911 equipment positions	1,400

Number of Primary and Secondary PSAPs



Primary PSAPs with Equipment Positions



PSAP Operations, QA and Governance

Telecommunicator Minimum Training Requirements

NG911 Planning & Procurement

NG911 Transition & Operations

NG911 Maturity

Last Updated: 02/21/2023

MEDIA REQUESTS

NHTSAmedia@dot.gov

1200 New Jersey Ave SE, Washington, DC 20590

Proposed Wireless Telecommunications Facility

Site Name: Weiss Pond (NY-057)
73 Route 9
Town of Fishkill
Dutchess County, NY

VISUAL RESOURCE ASSESSMENT

HOMELAND TOWERS

Prepared for:
Homeland Towers
9 Harmony Street, 2nd Floor
Danbury, CT 06810

Revised June 25, 2024

SARATOGA ASSOCIATES
Landscape Architects, Architects, Engineers, and Planners, P.C.

INTRODUCTION

Homeland Towers seeks approval from the Town of Fishkill, NY to construct a wireless telecommunications facility (the "Facility") at 73 NY Route 9 (Albany Post Road) in the Town of Fishkill, Dutchess County, NY ("host property"). To address issues of potential visual impact, Saratoga Associates, Landscape Architects, Architects, Engineers, and Planners, P.C. was retained to conduct a Visual Resource Assessment ("VRA") of the proposed Project.

The study area for this VRA extends to a two-mile radius from the Facility (hereafter referred to as the "2-mile study area").

PROJECT DESCRIPTION

The Facility will be located at 41° 29' 4410" N, 73° 54' 02.70" W. ("Facility site"). The 4.0± acre host property is identified in Dutchess County tax records as tax parcel 133089-6154-00-852538-0000. The existing ground elevation at the Facility site is approximately 280± feet above mean sea level (AMSL). The Facility is located approximately 270 feet west of NY Rte. 9, approximately 1,100 feet north of the intersection of Carol Lane and 1,500 feet north of the Dutchess/Putnam County Line. The 4.0± acre host property is zoned GB (General Business) as defined by the Town of Fishkill Zoning Code.

The Facility involves the construction of a wireless telecommunications tower consisting of a 150-foot-tall monopole designed to support up to four antenna levels. The monopole will be located within a 25 by 25-foot± (625± square foot) fenced compound. Up to four (4) 22 by 10-foot± equipment pads for installation of proposed and future collocated carrier ground level equipment will be within separate fenced areas adjacent to the monopole compound. The ground level equipment will be approximately eight (8) feet tall. Access to the Facility site will be from an existing gravel access drive/service lot currently serving existing commercial businesses at 73 NY Rte. 9.

An existing slope will be excavated to level the ground around the tower compound and equipment pads. An 18-foot± high retaining wall will be constructed to return to existing grade.

The Facility is proposed as a galvanized steel structure with white antennas. These colors generally minimize visual contrast with the pale blue and grey hue of the background sky. The applicants are willing to paint/color the Facility any color the Town feels would help reduce the noticeability of the Facility. Alternative colors may include a brown color to blend with the earth tone colors of the background mountains, or a two-tone tan/pale grey coloration to help blend the lower portion of the tower with the background landscape and the upper portion with the background sky. Photo simulations provided in Figures C9, C10, C16, and C17 illustrate these color alternatives. The applicants are also willing to consider a 180 foot-tall faux "flagpole" alternative. Photo simulations illustrating this option are provided in Figures C11 and C18.

LANDSCAPE SETTING

The Facility is in the Town of Fishkill, NY (2022 estimated population 23,804[1]). The host property includes four existing one story wood frame and masonry structures housing several commercial and light manufacturing tenants. Tenants include Lisikalos Realty, Lisikalos Construction, Garrison Forge, Acadia Stairs, Lisilakos Building & Development, Hudson Valley Cabinet, Classic RV, Burke Services, RC Antique Frames, Classic Tire & Auto Center.

The local area is dominated by sand and gravel extraction and associated industrial operations. The host property is bordered to the east by the Century Aggregates sand and gravel quarry and concrete ready mix processing facility. Thalle Industries stone quarry and asphalt plant is approximately 1,000 feet northeast of the Facility. The Cransville Block ready mix concrete manufacturing plant is directly opposite the host property on NY Rte. 9.

Other commercial properties along this stretch of NY Rte. 9 include Affordable Granite and Cabinetry, Tow Boss Towing and Recovery, Lawn Dawg lawn care and landscaping, Companion Pet Hospital, RAJ Auto Sales, and Jireh Resources Company.

The Carol Lane neighborhood is approximately 1,100 feet south of the Facility. Approximately nine (9) one- and two-story residential structures are found along this dead-end residential road. The Brookside Senior Park mobile home community is approximately 1,700 feet south of the Facility. Approximately 50 mobile home units are clustered in this neighborhood.

The nearest residential structure is approximately 1,070 feet south of the Facility (209 Carol Lane).

The Facility is located within a steeply sided valley along Clove Creek. Densely wooded mountains rise over 1,000 feet on both the east and west side of the narrow valley. The topographic low point is approximately 198 feet above sea level (ASL) along the Fishkill Creek in the northwestern portion of the 2-mile study area. The topographic highpoint is approximately 1,524 feet ASL at North Beacon Mountain in the western portion of the 2-mile study area.

The study area is dominated by large tracts of mature mixed deciduous and evergreen woodland. The tree canopy occupies approximately 6,836 acres of the 8,040-acre 2-mile study area (85%). Mature trees generally range from 50 to 70 feet in height. Dense forest vegetation prevents long distance views in most areas.

Approximately 845 acres (11%) of the 2-mile study area is classified as developed land. Approximately 155 acres (1.9%) is classified as scrub land or agriculture; approximately 113 acres (1.4%) is classified as open water; and approximately 91 acres (1.1%) is classified as barren land.[2]

Approximately 33 miles of public roadways are within the 2-mile study area. Interstate 84 is the most heavily travelled roadway with an average daily traffic volume (AADT) of approximately 51,459 vehicles per day at NY Rte. 9. NY Rte. 9 at the host property has an AADT of 18,340

[1] https://www.census.gov/quickfacts/fact/table/fishkilltowndutchesscountynewyork/HCN010217

[2] Land Cover calculations are based on general land cover classifications as presented in the NLCD Land Cover dataset. https://viewer.nationalmap.gov/basic/#productSearch. These calculations are provided as a general description of land cover conditions which characterize the 2-mile study area.

vehicles per day at the project site.[3] The posted speed limit in this area is 55 miles per hour (MPH).

Roadways within the 2-mile study area are commonly enclosed within dense roadside vegetation significantly limiting views to the immediate road corridor. There are several openings in roadside vegetation along NY Rte. 9 in the vicinity of the Facility. These openings are illustrated in Photos 16, 17 and 18 in Appendix B. NY Rte. 9 road segments where views in the direction of the Facility are substantially interrupted by roadside vegetation are illustrated in Photos 03, 08, 21, and 22 in Appendix B.

VIEWSHED ANALYSIS

Viewshed mapping identifies the geographic area within which there is a relatively high probability that some portion of the Facility could be visible above intervening topography, vegetation and built structures.

Viewshed analysis was conducted using Global Mapper 25.0 GIS software based on publicly available LiDAR data acquired from the NYS GIS Clearinghouse. A digital surface model (DSM) was created from the LiDAR LAS data points to represent the natural and built features of the earth's surface within the 2-mile study area. Using Global Mapper's viewshed analysis tool, the proposed Facility location and height point (i.e., 150 feet above finished grade) were input and a conservative offset of 5' 8" was applied to account for the observer's eye level. The resulting viewshed identifies grid cells where a line-of-sight to the Facility high point (i.e., top of 150-foot-tall monopole) is likely to exist.

The viewshed map does not determine how much of the proposed Facility would be visible above intervening landform, structures, or vegetation (e.g., 100%, 50%, 10% etc. of total tower height), but rather the geographic area within which some portion of the Facility would likely be visible. The viewshed map provides a general understanding of a Facility's potential visibility and identifies areas to be visited during field reconnaissance.

Figure A1 identifies areas of potential project visibility at a macro scale within the 2-mile study area. Figure A2 provides a more localized assessment potential visibility within 1 mile of the facility. Figures A1 and A2 are provided in Appendix A.

Viewshed analysis indicates a view of the proposed telecommunications tower is possible from approximately 47 acres (0.6%) of the 8,046 acres within the 2-mile study area. Of this, approximately 41 acres (87%) falls within the host property, the adjacent Century Aggregates quarry and Cransville Block manufacturing facility on the east side of NY Rte. 9.

Existing woodland vegetation screens potential views of the Facility from the vast majority of the 2-mile study area. Excluding the host property and adjacent quarry and associated manufacturing land uses, viewshed analysis indicates the Facility is potentially visible from just 6 acres.

[3] https://gisportalny.dot.ny.gov/portalny/apps/webappviewer/index.html

STUDY AREA RECONNAISSANCE

A balloon visibility test was conducted on March 16, 2024, to allow the public and local decision-makers an opportunity to observe the location and potential visibility of the Project.

One 4-foot± diameter red balloon was raised to the approximate top elevation of the proposed tower. The balloon was raised at approximately 9:00am and remained aloft until 2:00pm. The weather was fair to generally clear for the duration of the test. Wind speed was approximately 6mph at the time of launch with the balloon flying at or near the intended altitude. Winds steadily increased to approximately 14 mph by 11am[4] causing the balloon to bob and drift to some degree.

While the balloon was in the air a visual analyst drove public roads and walked local trails to inventory areas where viewshed mapping identified potential Project visibility. Photographs were taken from key observation points that were identified and mapped in advance of the balloon test in consultation with the Town of Fishkill. Additional photographs were also taken from other places where balloon visibility was found as well as from locations where the balloon was not visible to balance the photo record and document visual conditions representative of less affected areas.

Photographs were taken using a high resolution digital single lens reflex ("DSLR") camera with a lens setting of approximately 50mm (full frame sensor) lens to minimize optical distortion. The precise coordinates of each photo location were recorded in the field using a handheld global positioning system (GPS) unit. Prior to field reconnaissance the coordinates of the proposed telecommunications tower were programmed into a handheld GPS unit as a "waypoint." The "waypoint indicator" function of the GPS (arrow pointing along a calculated bearing) was used to assist the visual analyst determine the direction of the tower site from each photo location.

Photographs taken during the visibility test are provided in Appendix B. The location of these photographs is identified on the viewshed maps included as Figures A1 and A2 in Appendix A.

VISUALLY SENSITIVE RESOURCES

Scenic Resources of Statewide Significance - To avoid subjectivity in assessing potential visual impact, the New York State Department of Environmental Conservation's ("NYSDEC") Program Policy on Assessing and Mitigating Visual Impact (DEP-00-02 [revised 12/13/2019]) ("DEC Visual Policy") provides guidance in the determination of visual significance under the State Environmental Quality Review Act (SEQRA). Aesthetic impact is defined by the DEC Visual Policy as follows:

> "Aesthetic impact occurs when there is a detrimental effect on the perceived beauty of a place or structure. Mere visibility of a project should not be a threshold for decision making. Instead, a project, by virtue of its visibility, must clearly interfere with or reduce the public's enjoyment or appreciation of the appearance of a significant place or structure."[5]

[4] https://www.wunderground.com/history/daily/us/ny/newburgh/KSWF/date/2024-3-16
[5] DEC Visual Policy, p.15. (https://www.dec.ny.gov/docs/permits_ej_operations_pdf/visualpolicydep002.pdf)

The DEC Visual Policy defines an "aesthetically significant place" as a place formally designated and visited because of its beauty.[6] Aesthetically significant places are established by federal or state government pursuant to statutory authority, are a matter of public record and are not arbitrarily or subjectively determined. The DEC Visual Policy contains specific criteria defining places considered to be aesthetic resources of statewide significance. These places are high value sites including state parks, scenic roads, wild, scenic and recreational rivers, state forests, wildlife management areas, scenic areas of statewide significance, Heritage Areas, National Natural Landmarks, state or federally designated trails, properties or districts listed or eligible for listing on the National Register of Historic Places, among others.

The DEC Policy does not apply to potentially affected places that are not open to the general public. The DEC Visual Policy states:

> "The Visual Policy is intended to address places or locations that have been officially designated for their aesthetic qualities and that are accessible to the public at large as opposed to places that may have individual or private importance only." [7]

Places meeting the DEC Visual Policy definition of Scenic Resource of Statewide Significance include the following:

- State Parks – Portions of two State Parks are found within the 2-mile study area: Hudson Highlands State Park to the northeast and Clarence Fahnstock State Park to the southwest.

  Based on viewshed analysis the Facility will not be visible from any location within Clarence Fahnstock State Park.

  Based on viewshed analysis the Facility may be visible (at distances greater than ¾ mile) from portions of the Fishkill Ridge (white) Trail on the east facing slope of the Fishkill Ridge in the northern section of Hudson Highlands State Park. Park maps identify two vista points near the top of Lambs Hill and Bald Hill on this trail. During the March 16 balloon test a visual analyst hiked the extent of the Fishkill Ridge Trail to identify potential tower visibility. Filtered views of the balloon were observed in several locations through intervening deciduous stems and branches. An unobstructed view of the balloon was found at a vista point near the top of Lambs Hill. Photographs documenting visibility along the Fishkill Ridge Trail are provided in Appendix B (refer to Photos 24-33).

  Except for the identified unobstructed vista of the Clove Creek Valley from the top of Lambs Hill (at a distance of more than 1 mile), views in the direction of the Facility from all other portions of the trail are substantially or completely screened by dense intervening deciduous woodland. In areas where the filtered views were identified, existing vegetation in leaf-off condition is sufficiently dense to maintain a substantial visual barrier to distant views. Such filtered views will be completely screened at times of the year when leaves are on the trees. A photo simulation illustrating filtered visibility of the Facility from the Fishkill Ridge Trail under leaf-off conditions is provided in Appendix C (refer to Figure C21-C22).

[6] DEC Visual Policy, p.15.
[7] DEC Visual Policy, p.4.

A photo simulation illustrating visibility of the Facility from the Lambs Hill vista point is also provided in Appendix C (refer to Figures C23-C24). Although the Facility is directly visible on the valley floor it is viewed within the context of the surrounding Century Aggregates and Thalle Industries sand and gravel surface mining operations and other associated industrial and commercial facilities along the NY Rte. 9 corridor.

- Hudson Highlands Scenic Area of Statewide Significance (SASS) – The eastern boundary of Hudson Highlands SASS generally follows highpoints along the Fishkill Ridge within the Hudson Highlands State Park. The upper portion of the Fishkill Ridge Trail may fall within the SASS. Potential views of the Facility from the SASS are described above in the discussion of visibility from the Fishkill Ridge Trail.
- National Register of Historic Places – Two National Register of Historic Places (NRHP) districts are found within the 2-mile study area. These are the Valhalla Highlands Historic District and the Van Wyck-Wharton House. Based on viewshed analysis the Facility will not be visible from either district.

  During the March 16 balloon test a visual analyst visited the Valhalla Highlands Historic District to confirm the viewshed result. No area of potential visibility was identified. A photograph taken from a high point with this district is provided in Appendix B (refer to photo 07).
- National Register-eligible (NRE) sites –No properties eligible for listing on the NRHP are found in the 2-mile study area.
- Sharpe Reservation – 2,000 acre The Fresh Air Fund's Sharpe Reservation is located on Round Mountain on the east side of the Clove Creek Valley. Not-for-profit Sharpe Reservation provides sleep away camp experiences to underserved communities and year-round environmental educational programs to school groups and community organizations.

  Viewshed analysis indicates that the facility will not be visible from the Sharpe Reservation. During the March 16 balloon test a visual analyst hiked the portion of the Sharpe Reservation Wilderness Trail nearest the project site to identify potential tower visibility. The balloon was not observed from the Wilderness Trail. Photographs documenting views in the direction of the Facility from the Wilderness Trail are provided in Appendix B (refer to Photos 19-20).

  Hudson River Valley Greenway Trail (NYS Bike Route 9) – NY Rte. 9 within the 2-mile study area is part of the 147-mile-long NYS Bike Route 9 Designated Greenway Land Trail. The Hudson River Valley Greenway establishes a diverse network of trails that connect resources such as riverfront parks, historic sites, nature preserves, schools, residential areas, train stations, and city/village business districts, as well as providing public access to the Hudson River.

  The Facility will be intermittently visible from NY Rte. 9 in the immediate vicinity of the host property. Where visible the proposed monopole telecommunications tower will be viewed within the context of the surrounding adjacent Century Aggregates and Thalle Industries sand and gravel surface mining operations and other associated industrial and commercial facilities along the NY Rte. 9 corridor.

Photographs from NY Rte. 9 taken during the March 16 balloon test are provided in Appendix B (refer to Photos 03, 08, 16, 17, 18, 21, and 22). Photo simulations illustrating the character and degree of visibility from NY Rte. 9 are provided in Appendix C (refer to Figures C7-C11, C12-C13, C14-C18, and C19-C20).

The location of these scenic resources of statewide significance is provided in Figures A1 and A2 in Appendix A.

Aesthetic Resources of Local Importance - Aesthetic resources of local importance are publicly accessible places generally recognized and enjoyed by community residents and visitors for their unique aesthetic value. Aesthetic resources of local importance are established by local government pursuant to statutory authority and are not arbitrarily or subjectively determined. Such places are most commonly municipal parks, trails, bikeways, and may also include not-for-profit conservation lands and open space preserves.

- "Battery" Monument – A roadside monument commemorating site of three batteries guarding the "gorge of the mountains, Fishkill Clove" during the American revolution is found on the west site of NY Rte. 9, approximately 570 feet southeast of the Facility. The site includes a historic marker, commemorative plaque, and American flag positions within 15-20 feet of the road shoulder. The site does not offer parking, roadside pull-off or other amenities for visitors. Photographs from NY Rte. 9 at the Battery Monument are provided in Appendix B (refer to Photo 17). A photo simulation illustrating the character and degree of visibility from this location is provided in Appendix C (refer to Figure C12-C13).
- Gateway Corridor – Goal I of the Town of Fishkill Comprehensive Plan Update (CPU) (May 3, 2023) is to "[c]reate and enhance gateways that welcome visitors to our Town and define Fishkill as a quality community". A related objective is to "[p]reserve and enhance the existing rural, community and scenic character of …Route 9… to maintain the 'town and country' character and to distinguish Fishkill from neighboring municipalities. Pay special attention to applying the 'Design Guidelines' that have been incorporated in the Code of the Town of Fishkill, in Chapter 150, Zoning sections 150-144 through 150-153".

  This area of the Route 9 corridor is also depicted in the Dutchess County Greenway Guides about the Regional Pattern of Centers and Greenspaces, on the Centers and Greenspaces map as "Contained Greenspaces", "Continuous Greenspaces" and "Conserve Greenspaces".[8]

  Photo simulations illustrating the character and degree of visibility from the Gateway Corridor are provided in Appendix C (refer to Figures C7-C11, C12-C13, C14-C18, and C29-C20).

  It must be noted that the Facility is a specially permitted use in the GB zoning district. It is further noted that in the GB zoning district the Town Code allows for a 185-foot-tall wireless tower, and the Applicants have only proposed a 150-foot facility, the height for which has been confirmed by the Town's RF Consultant as being the minimum height necessary in order to provide service to the area in need.

[8] https://www.dutchessny.gov/Departments/Planning/Docs/Centers- Greenspaces-All4Pages-Optimized.pdf.

Other Areas of Local Interest - While not rising to the threshold of statewide significance or local importance, other places of local interest have been included in this visual assessment to represent potential Facility views from roadways and residential neighborhoods. These places are addressed in this VRA to consider potential Facility views that that may be of interest to local community in general.

- Residential Areas – The Carol Lane neighborhood is approximately 1,100 feet south of the Facility. Approximately nine (9) one- and two-story residential structures are found along this dead-end residential road. The Brookside Senior Park mobile home community is approximately 1,700 feet south of the Facility. Approximately 50 mobile home units are clustered in this neighborhood. The nearest residential structure is approximately 1,070 feet south of the Facility (209 Carol Lane).

  Minor areas of visibility were identified in the vicinity of Carol Lane and on several streets within Brookside Senior Park. These potentially affected areas were visited and photographed during field reconnaissance. Photographs are provided in Appendix B (refer to Photos 09, 10, 11, 12, 13, 14, 15, and 16. Photo simulations illustrating the character and degree of visibility from these residential areas are provided in Appendix C (refer to Figures C3-C4, C5-C6, and C7-C11).

- Roadways – Approximately 33 miles of public roadways are within the 2-mile study area. Interstate 84 is the most heavily travelled roadway with an average daily traffic volume (AADT) of approximately 51,459 vehicles per day at NY Rte. 9. The Facility will not be visible from I-84.

  NY Rte. 9 at the host property has an AADT of 18,340 vehicles per day at the project site. The Facility will be intermittently visible from NY Rte. 9 in the immediate vicinity of the host property. Where visible the proposed monopole telecommunications tower will be viewed within the context of the surrounding adjacent Century Aggregates and Thalle Industries sand and gravel surface mining operations and other associated industrial and commercial facilities along the NY Rte. 9 corridor.

  Photographs from NY Rte. 9 taken during the March 16 balloon test are provided in Appendix B (refer to Photos 03, 08, 16, 17, 18, 21, and 22). Photo simulations illustrating the character and degree of visibility from NY Rte. 9 are provided in Appendix C (refer to Figures C7-C11, C12-C13, C14-C18, and C19-C20).

  Given the complex visual stimuli encountered by motorists travelling in a moving vehicle, even if the Facility is visible, it is probable viewer recognition of the Facility would be limited to a fraction of the total available viewing time. As the tendency of motorists is to focus down the road peripheral views of the Facility may go largely unnoticed by most travelers.

Photographs taken during field reconnaissance are provided as in Appendix B. Photographs were taken from the following places:

Photo ID # (Appendix B)	Location Description	Distance to Tower (feet)	View Indicated by Land Cover Viewshed - (See Fig. A1 & A2)	Balloon Visible	Photo/ Simulation Provided as:
1	East Mountain Rd	7,920	NO	NO	
2	Skyline Dr near NY Rte. 9	5,970	YES	YES	Figure C1/C2

Photo ID # (Appendix B)	Location Description	Distance to Tower (feet)	View Indicated by Land Cover Viewshed - (See Fig. A1 & A2)	Balloon Visible	Photo/ Simulation Provided as:
3	NY Rte. 9 near #3527	4,830	NO	NO	
4	Skyline Dr	5,810	NO	NO	
5	Skyline Dr near #84	5,970	NO	NO	
6	Mountain Brook Dr near #50	4,850	NO	FILTERED	
7	Mountainview Dr near #44	8,610	NO	NO	
8	NY Rte. 9 at East Mountain Rd	2,380	NO	NO	
9	Boulder Rd near #15	2,320	NO	NO	
10	Treeline Circle Near #41	3,000	NO	NO	
11	Baseline Rd near #9	1,850	NO	FILTERED	Figure C3/C4
12	East Mountain Rd N at East Mountain Rd	3,090	NO	NO	
13	Carol Lane near #252	1,450	NO	FILTERED	Figure C5/C6
14	Carol Lane near #225	1,270	NO	NO	
15	Carol Lane near #215	1,230	NO	FILTERED	
16	NY Rte. 9 at Carol Lane	1,160	YES	YES	Figure C7/C8/C9/C10/ C11
17	NY Rte. 9 at "Battery" Monument	570	YES	YES	Figure C12/C13
18	NY Rte. 9 at Project Site	310	YES	YES	Figure C14/C15/16/ C17/C18
19	Sharpe Reservation - Wilderness Trail	2,040	NO	NO	
20	Sharpe Reservation - Wilderness Trail	2,480	NO	NO	
21	NY Rte. 9 near Century Aggregates Quarry Entrance	1,080	NO	FILTERED	
22	NY Rte. 9 near Thalle Quarry	2,100	NO	NO	Figure C19/C20
23	Hudson Highlands State Park - Wilkinson (Yellow) Trailhead	3,750	NO	NO	
24	Hudson Highlands State Park - Fishkill Ridge (White) Trail	4,340	NO	NO	
25	Hudson Highlands State Park - Fishkill Ridge (White) Trail	3,860	NO	NO	
26	Hudson Highlands State Park - Fishkill Ridge (White) Trail	4,000	NO	NO	
27	Hudson Highlands State Park - Fishkill Ridge (White) Trail	4,080	NO	NO	
28	Hudson Highlands State Park - Fishkill Ridge (White) Trail	4,140	NO	FILTERED	Figure C21/C22
29	Hudson Highlands State Park - Fishkill Ridge (White) Trail	4,400	NO	FILTERED	
30	Hudson Highlands State Park - Fishkill Ridge (White) Trail	4,990	NO	NO	
31	Hudson Highlands State Park - Fishkill Ridge (White) Trail	5,020	NO	FILTERED	
32	Hudson Highlands State Park - Fishkill Ridge (White) Trail	5,070	NO	NO	
33	Hudson Highlands State Park - Fishkill Ridge (White) Trail	5,390	YES	YES	Figure C23/C24

PHOTO SIMULATIONS

To illustrate how the Facility will appear photo simulations were prepared from nine (9) affected photo locations. Photo simulations were developed by superimposing a rendering of a three-dimensional computer model of the proposed Facility into the base photograph taken from each corresponding visual receptor. The three-dimensional computer model was developed using *3D Studio Max Design*® software (3D Studio Max).

Simulated perspectives (camera views) were matched to the corresponding base photograph for each simulated view by replicating the precise coordinates of the field camera position (as recorded by handheld GPS) and the focal length of the camera lens used (e.g. 50mm). Precisely matching these parameters assures scale accuracy between the base photograph and the subsequent simulated view. The camera's elevation (Z) value is derived from digital elevation model (DEM) data plus the camera's height above ground level. The camera's target position was set to match the bearing of the corresponding existing condition photograph as recorded in

the field. With the existing conditions photograph displayed as a "viewport background," and the viewport properties set to match the photograph's pixel dimensions, minor camera adjustments were made (horizontal and vertical positioning, and camera roll) to align the horizon in the background photograph with the corresponding features of the 3D model.

To verify the camera alignment, elements visible within the photograph (e.g., existing buildings, utility poles, topography, etc.) were identified and digitized from digital orthophotos as needed. Each element was assigned a Z value based on DEM data and then imported to 3D Studio Max. A 3D terrain model was also created (using DEM data) to replicate the existing local topography. The digitized elements were then aligned with corresponding elements in the photograph by adjusting the camera target. If necessary, slight camera adjustments were made for accurate alignment.

A daylight system was created matching the exact date and time of each baseline photograph to assure proper shading and shadowing of modeled elements.

Once the camera alignment was verified, a to-scale 3D model of the proposed 150-foot-tall monopole style telecommunications tower was merged into the model space. The 3D model of the Facility was constructed in sufficient detail to accurately convey visual character and reveal impacts. The scale, alignment, elevations, and location of the visible elements of the proposed tower are true to the conceptual design. Postproduction editing (i.e., airbrush out portion of tower that falls below or behind foreground topography and vegetation) was completed using Adobe Photoshop software. The methodology accurately represents the location, height, and visual character of the proposed tower.

The 150-foot-tall monopole is illustrated using the currently proposed standard galvanized finish. Photo simulations are provided in Appendix C.

Photo simulations illustrating a brown color to blend with the earth tone colors of the background mountains, and a two-tone tan/pale grey coloration to help blend the lower portion of the tower with the background landscape and the upper portion with the background sky. Photo simulations provided in Figures C9, C10, C16, and C17 in Appendix C illustrate these color alternatives. Photo simulations illustrating the 180 foot-tall flagpole option is provided in Figures C11 and C18.

SUMMARY AND CONCLUSION

The Facility involves the construction of a wireless telecommunications tower consisting of a 150-foot-tall monopole designed to support up to four antenna levels.

The host property includes four existing one story wood frame and masonry structures housing several commercial and light manufacturing tenants. These existing structures screen most views of the base of the Facility and ground level equipment. The local area is dominated by sand and gravel extraction and associated industrial operations, including the adjacent Century Aggregates sand and gravel quarry and concrete ready mix processing facility; Thalle Industries stone quarry and asphalt plant; and the Cransville Block ready mix concrete manufacturing plant. The Facility site is decidedly commercial/industrial in character.

Viewshed Analysis Summary - Viewshed analysis indicates a view of the proposed telecommunications tower is possible from approximately 47 acres (0.6%) of the 8,046 acres within the 2-mile study area. Of this, approximately 41 acres (87%) falls within the host property, the adjacent Century Aggregates quarry and Cransville Block manufacturing facility on the east side of NY Rte. 9. Existing woodland vegetation screens potential views of the Facility from the vast majority of the 2-mile study area. Excluding the host property and adjacent quarry and associated manufacturing land uses, viewshed analysis indicates the Facility is potentially visible from just 6 acres within the 2-mile study area.

Visibility from Residential Neighborhoods and Local Roads - Residential development is generally limited to two planned single-family residential neighborhoods. Nine (9) single family residential homes are on Carol Lane approximately 1,100 feet south of the facility and approximately 50 mobile homes are in the Brookside Senior Park approximately 1, 700 feet to the south. Minor areas of visibility were identified in the vicinity of Carol Lane and on several streets within Brookside Senior Park. Seasonal filtered views are found in these areas through branches and stems of local deciduous trees during winter leaf-off season. These views will be substantially or completely screened during summer leaf-on season.

Facility views are found along NY Rte. 9 at Carol Lane (refer to Figures C7 through C11 in Appendix C), near the Battery Monument (refer Figures C12 through C13), and at the project site (refer to Figures C14 through C18). NY Rte. 9 in this area is identified as a “Gateway Corridor” in the Town of Fishkill Comprehensive Plan Update (May 2023). In each of these views the upper portion of the monopole structure and antennas appears above the background mountains.

The posted speed limit along affected segments of NY Rte. 9 is 55 MPH. Views experienced by motorists and passengers would be brief and primarily peripheral to the direction of travel. Given the complex visual stimuli encountered by motorists travelling in a moving vehicle, even if the Facility is visible, it is probable viewer recognition of the Facility would be limited to a fraction of the total available viewing time. As the tendency of motorists is to focus down the road peripheral views of the Facility may go largely unnoticed by most travelers.

Bicyclists travelling Bike Route 9 would have opportunity to view the Facility for a somewhat longer duration. There is presently no dedicated parking or roadside turnoff in the vicinity of the Battery Monument.

The Town Comprehensive Plan Update (May 2023) Goal I – Create and Enhance Gateways of states as an objective that future development within gateway areas should apply Zoning "Design Guidelines" that have been incorporated into the Code of the Town of Fishkill, in Chapter 150, Zoning sections 150-144 through 150-153. Although these design guidelines do not directly address telecommunications structures the Facility is proposed as a galvanized steel structure with white antennas. These colors generally minimize visual contrast with the pale blue and grey hue of the background sky. The applicants are willing to paint/color the Facility any color the Town feels would help reduce the noticeability of the Facility. Alternative colors may include a brown color to blend with the earth tone colors of the background mountains, or a two-tone tan/pale grey coloration to help blend the lower portion of the tower with the background landscape and the upper portion with the background sky. Photo simulations provided in Figures C90, C10, C16, and C17 illustrate these color alternatives.Visibility from Scenic Resources of Statewide Significance – The Facility will be intermittently visible from NY Rte. 9, a Designated Hudson River Valley Greenway Trail (NYS Bike Route 9). Where visible the proposed monopole telecommunications tower will be viewed within the context of the surrounding adjacent Century Aggregates and Thalle Industries sand and gravel surface mining operations and other associated industrial and commercial facilities along the NY Rte. 9 corridor.

The Facility will be visible through intervening deciduous stems and branches from several locations of the Fishkill Ridge (white) Trail in Hudson Highlands State Park at distances greater than ¾ mile. These views will be substantially or completely screened during summer leaf-on season. An unobstructed view will occur from a trail side vista point near the top of Lambs Hill at a distance of more than 1 mile. Where visible the Facility will be a minor point of distinction and viewed within the context of the surrounding Century Aggregates and Thalle Industries sand and gravel surface mining operations and other associated industrial and commercial facilities along the NY Rte. 9 corridor.

Visual Impact Conclusion - Visual impact is defined by the NYS Department of Environmental Conservation as follows:

> *"Aesthetic impact occurs when there is a detrimental effect on the perceived beauty of a place or structure. Mere visibility a project should not be a threshold for decision making Instead a project, by virtue of its visibility, must clearly interfere with or reduce the public's enjoyment or appreciation of the appearance of a significant place or structure. "*[9] *Significant aesthetic impacts are those that may cause a diminishment of the public enjoyment and appreciation of an inventoried resource, or one that impairs the character or quality of such a place. Proposed large facilities by themselves should not be a trigger for a declaration of significance."*[10]

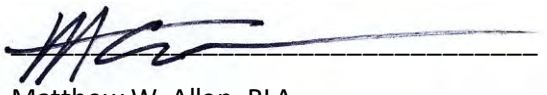
[9] NYSDEC Visual Policy (DEP-00-2), p15.
[10] *Id.* p.5.

In other words, the DEC Visual Policy recognizes that not everything that is visible rises to the level of an Aesthetic Impact, and not all Aesthetic Impacts rise to the level of a Significant Aesthetic Impact that may diminish public enjoyment of the resource.

Based on the degree of Facility visibility, it is clear that any remaining project visibility is not of a size or extent that it would constitute an unacceptable magnitude. Nor does the Facility affect a sufficient number of public viewers or geographic area where the Facility can reasonably be deemed to be visually important as defined by SEQRA.

Furthermore, when considered within the framework of the DEC Visual Policy's definition of "significant adverse visual impact", it is clear the Facility will not cause a diminishment of the public enjoyment and appreciation of any scenic or historic resource, or one that impairs the character or quality of such a place. As such the proposed Project will not result in an adverse visual impact.

Submitted by:



Matthew W. Allen, RLA

APPENDIX A
Viewshed Maps

WEISS POND (NY057)

73 Route 9
Town of Fishkill, Dutchess County, NY

Figure A1

Viewshed Map

2 Mile Radius

2 miles
1 mile
Van Wyck-Wharton House
Tower
Valhalla Highlands Historic District

Legend

- Area of Likely Tower Visibility (incl. screening vegetation)
- Monopole Tower (150 ft)

Visually Sensitive Resources

- Hudson Highlands SASS
- National Register of Historic Places
- State Park
- Designated Greenway Trail/State Bike Route 9
- Gateway Corridor (Town Comprehensive Plan Update)
- Hudson Highlands State Park Trails
- Sharpe Reservation Wilderness Trail
- Trail Overlook

Photographs (see Appendix B)

- Balloon Not Visible
- Balloon Visible Trough Trees (Seasonal Visibility)
- Balloon Visible

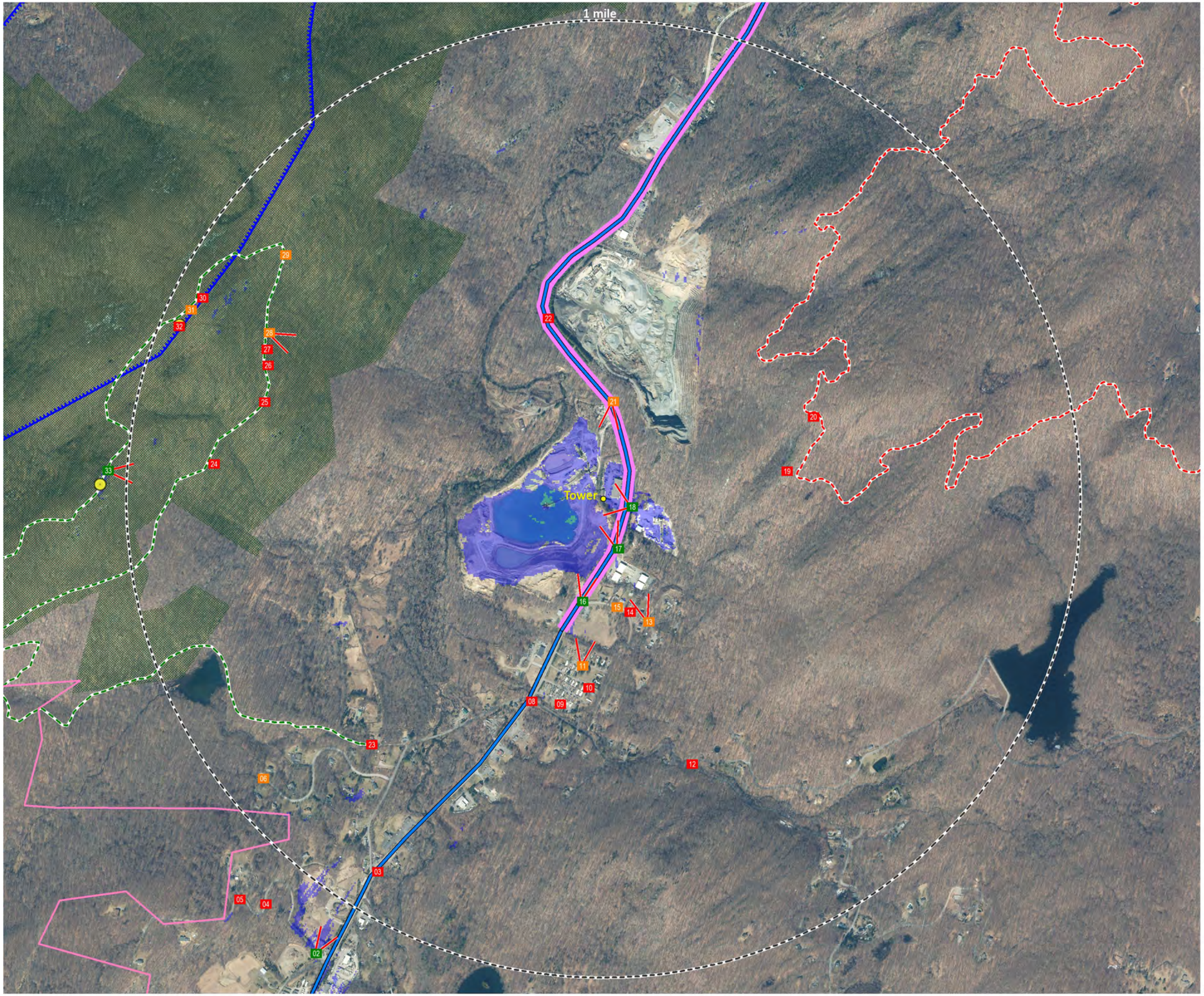
Note: Viewshed mapping provides a general understanding of where the proposed project is theoretically visible based on regional topographic, forest and building cover data sources.

This viewshed area includes the screening effect of intervening vegetation and buildings. The location and height of vegetated areas and buildings is based on current LIDAR data aquired from the NYS GIS Clearinghouse.

1000 ft 3000 ft 5000 ft

SARATOGA ASSOCIATES

HOMELAND TOWERS



WEISS POND (NY057)

73 Route 9
Town of Fishkill, Dutchess County, NY

Figure A2

Viewshed Map

1 Mile Radius

Legend

- Area of Likely Tower Visibility (incl. screening vegetation)
- Monopole Tower (150 ft)

Visually Sensitive Resources

- Hudson Highlands SASS
- National Register of Historic Places
- State Park
- Designated Greenway Trail/State Bike Route 9
- Gateway Corridor (Town Comprehensive Plan Update)
- Hudson Highlands State Park Trails
- Sharpe Reservation Wilderness Trail
- Trail Overlook

Photographs (see Appendix B)

- Balloon Not Visible
- Balloon Visible Trough Trees (Seasonal Visibility)
- Balloon Visible
- Photo Simulation (see Appendix C)

Note: Viewshed mapping provides a general understanding of where the proposed project is theoretically visible based on regional topographic, forest and building cover data sources.

This viewshed area includes the screening effect of intervening vegetation and buildings. The location and height of vegetated areas and buildings is based on current LIDAR data aquired from the NYS GIS Clearinghouse.

0 ft 500 ft 1500 ft 2500 ft

SARATOGA ASSOCIATES

HOMELAND TOWERS

APPENDIX B
Photo Log

Existing View

Photo	Location	Municipality	Distance to Site	Balloon Visible
01	East Mountain Rd	Phillipstown(t)	7,920 ft	Not Visible

Existing View

Photo	Location	Municipality	Distance to Site	Balloon Visible
02	Skyline Dr near NY Rte. 9	Phillipstown (t)	5,970 ft	Visible

PHOTO LOG - March 16, 2024 Balloon Test

Figure B1

Existing View

Photo	Location	Municipality	Distance to Site	Balloon Visible
03	NY Rte. 9 near #3527	Phillipstownl (t)	4,830 ft	Not Visible

Existing View

Photo	Location	Municipality	Distance to Site	Balloon Visible
04	Skyline Dr	Phillipstown (t)	5,810 ft	Not Visible

PHOTO LOG - March 16, 2024 Balloon Test

Figure B2

Existing View

Photo	Location	Municipality	Distance to Site	Balloon Visible
05	Skyline Dr near #84	Phillipstown (t)	5,970 ft	Visible

Existing View

Photo	Location	Municipality	Distance to Site	Balloon Visible
06	Mountain Brook Dr near #50	Phillipstown(t)	4,850 ft	Seasonal

PHOTO LOG - March 16, 2024 Balloon Test

Figure B3

Existing View

Photo	Location	Municipality	Distance to Site	Balloon Visible
07	Mountainview Dr near #44	Phillipstown (t)	8,610 ft	Not Visible

Existing View

Photo	Location	Municipality	Distance to Site	Balloon Visible
08	NY Rte. 9 at East Mountain Rd	Fishkill (t)	2,380 ft	Not Visible

PHOTO LOG - March 16, 2024 Balloon Test

Figure B4

Existing View

Photo	Location	Municipality	Distance to Site	Balloon Visible
09	Boulder Rd near #15	Phillpstown (t)	2,320 ft	Not Visible

Existing View

Photo	Location	Municipality	Distance to Site	Balloon Visible
10	Treeline Circle Near #41	Phillipstown (t)	3,000 ft	Not Visible

PHOTO LOG - March 16, 2024 Balloon Test

Figure B5

Existing View

Photo	Location	Municipality	Distance to Site	Balloon Visible
11	Baseline Rd near #9	Phillipstown (t)	1,850 ft	Seasonal

Existing View

Photo	Location	Municipality	Distance to Site	Balloon Visible
12	East Mountain Rd N at East Mountain Rd	Phillipstown(t)	3,090 ft	Not Visible

PHOTO LOG - March 16, 2024 Balloon Test

Figure B6

Existing View

Photo	Location	Municipality	Distance to Site	Balloon Visible
13	Carol Lane near #252	Fishkill (t)	1,450 ft	Seasonal

Existing View

Photo	Location	Municipality	Distance to Site	Balloon Visible
14	Carol Lane near #225	Fishkill (t)	1,270 ft	Not Visible

PHOTO LOG - March 16, 2024 Balloon Test

Figure B7

Existing View

Photo	Location	Municipality	Distance to Site	Balloon Visible
15	Carol Lane near #215	Fishkill (t)	1,230 ft	Seasonal

Existing View

Photo	Location	Municipality	Distance to Site	Balloon Visible
16	NY Rte. 9 at Carol Lane	Fishkill (t)	1,160 ft	Visible

PHOTO LOG - March 16, 2024 Balloon Test

Figure B8

Existing View

Photo	Location	Municipality	Distance to Site	Balloon Visible
17	NY Rte. 9 at “Battery” Monument	Fishkill (t)	570 ft	Visible

Existing View

Photo	Location	Municipality	Distance to Site	Balloon Visible
18	NY Rte. 9 at Project Site	Fishkill (t)	310 ft	Visible

PHOTO LOG - March 16, 2024 Balloon Test

Figure B9

Existing View

Photo	Location	Municipality	Distance to Site	Balloon Visible
19	Sharpe Reservation - Wilderness Trail	Fishkill (t)	2,040 ft	Not Visible

Existing View

Photo	Location	Municipality	Distance to Site	Balloon Visible
20	Sharpe Reservation - Wilderness Trail	Fishkill (t)	2,480 ft	Not Visible

PHOTO LOG - March 16, 2024 Balloon Test

Figure B10

Existing View

Photo	Location	Municipality	Distance to Site	Balloon Visible
21	NY Rte. 9 near Century Aggregates Quarry Entrance	Fishkill (t)	1,080ft	Seasonal

Existing View

Photo	Location	Municipality	Distance to Site	Balloon Visible
22	NY Rte. 9 near Thalle Quarry	Fishkill (t)	2,100 ft	Not Visible

PHOTO LOG - March 16, 2024 Balloon Test

Figure B11

Existing View

Photo	Location	Municipality	Distance to Site	Balloon Visible
23	Hudson Highlands State Park - Wilkinson (Yellow) Trailhead	Fishkill (t)	3,750 ft	Not Visible

Existing View

Photo	Location	Municipality	Distance to Site	Balloon Visible
24	Hudson Highlands State Park - Fishkill Ridge (White) Trail	Fishkill (t)	4,340 ft	Not Visible

PHOTO LOG - March 16, 2024 Balloon Test

Figure B12

Existing View

Photo	Location	Municipality	Distance to Site	Balloon Visible
25	Hudson Highlands State Park - Fishkill Ridge (White) Trail	Fishkill (t)	3,855ft	Not Visible

Existing View

Photo	Location	Municipality	Distance to Site	Balloon Visible
26	Hudson Highlands State Park - Fishkill Ridge (White) Trail	Fishkill (t)	4,000 ft	Not Visible

Existing View

Photo	Location	Municipality	Distance to Site	Balloon Visible
27	Hudson Highlands State Park - Fishkill Ridge (White) Trail	Fishkill (t)	4,080ft	Not Visible

Existing View

Photo	Location	Municipality	Distance to Site	Balloon Visible
28	Hudson Highlands State Park - Fishkill Ridge (White) Trail	Fishkill (t)	4,140 ft	Seasonal

PHOTO LOG - March 16, 2024 Balloon Test

Figure B14

Existing View

Photo	Location	Municipality	Distance to Site	Balloon Visible
29	Hudson Highlands State Park - Fishkill Ridge (White) Trail	Fishkill (t)	4,440ft	Seasonal

Existing View

Photo	Location	Municipality	Distance to Site	Balloon Visible
30	Hudson Highlands State Park - Fishkill Ridge (White) Trail	Fishkill (t)	4,990t	Not Visible

Existing View

Photo	Location	Municipality	Distance to Site	Balloon Visible
31	Hudson Highlands State Park - Fishkill Ridge (White) Trail	Fishkill (t)	5,021 ft	Seasonal

Existing View

Photo	Location	Municipality	Distance to Site	Balloon Visible
32	Hudson Highlands State Park - Fishkill Ridge (White) Trail	Fishkill (t)	5,070 ft	Not Visible

PHOTO LOG - March 16, 2024 Balloon Test

Figure B16

Existing View

Photo	Location	Municipality	Distance to Site	Balloon Visible
33	Hudson Highlands State Park - Fishkill Ridge (White) Trail	Fishkill (t)	5,390 ft	Visible

Existing View

Photo	Location	Municipality	Distance to Site	Balloon Visible

APPENDIX C
Photo Simulations

Photo 02 - Skyline Dr near NY Rte 9
EXISTING CONDITION

Photograph Information

Date:	March 16, 2024	Photo Location:	41° 28’ 54.5376” N
Time:	9:15am		73° 54’ 44.7048” W
Focal Length:	50mm	Distance to Tower:	5,970 Feet
Camera:	Canon 6D Mark II		

SARATOGA ASSOCIATES

HOMELAND TOWERS

Figure C1
PHOTO SIMULATIONS
Visual Impact Assessment
WEISS POND (NY-057)
Wireless Telecommunications Facility
73 Route 9
Town of Fishkill, Dutchess County, NY

Photo 02 - Skyline Dr near NY Rte 9
SIMULATED CONDITION

Photograph Information

Date:	March 16, 2024	Photo Location:	41° 28’ 54.5376” N
Time:	9:15am		73° 54’ 44.7048” W
Focal Length:	50mm	Distance to Tower:	5,970 Feet
Camera:	Canon 6D Mark II		

SARATOGA ASSOCIATES

HOMELAND TOWERS

Figure C2
PHOTO SIMULATIONS
Visual Impact Assessment
WEISS POND (NY-057)
Wireless Telecommunications Facility
73 Route 9
Town of Fishkill, Dutchess County, NY

Photo 11 - Baseline Rd near #9
EXISTING CONDITION

SARATOGA ASSOCIATES

Photograph Information

Date:	March 16, 2024	Photo Location:	41° 29′ 25.8900″ N
Time:	9:50am		73° 54′ 05.9868″ W
Focal Length:	50mm	Distance to Tower:	1,850 Feet
Camera:	Canon 6D Mark II		

HOMELAND TOWERS

Figure C3
PHOTO SIMULATIONS
Visual Impact Assessment
WEISS POND (NY-057)
Wireless Telecommunications Facility
73 Route 9
Town of Fishkill, Dutchess County, NY

Photo 11 - Baseline Rd near #9
SIMULATED CONDITION

SARATOGA ASSOCIATES

Photograph Information

Date:	March 16, 2024	Photo Location:	41° 29′ 25.8900″ N
Time:	9:50am		73° 54′ 05.9868″ W
Focal Length:	50mm	Distance to Tower:	1,850 Feet
Camera:	Canon 6D Mark II		

HOMELAND TOWERS

Figure C4
PHOTO SIMULATIONS
Visual Impact Assessment
WEISS POND (NY-057)
Wireless Telecommunications Facility
73 Route 9
Town of Fishkill, Dutchess County, NY

Photo 13 - Carol Ln near #252
EXISTING CONDITION

Photograph Information

Date:	March 16, 2024	Photo Location:	41° 29’ 30.6816” N
Time:	9:55am		73° 53’ 56.3136” W
Focal Length:	50mm	Distance to Tower:	1,450 Feet
Camera:	Canon 6D Mark II		

SARATOGA ASSOCIATES

HOMELAND TOWERS

Figure C5
PHOTO SIMULATIONS
Visual Impact Assessment
WEISS POND (NY-057)
Wireless Telecommunications Facility
73 Route 9
Town of Fishkill, Dutchess County, NY

Photo 13 - Carol Ln near #252
SIMULATED CONDITION

Photograph Information

Date:	March 16, 2024	Photo Location:	41° 29’ 30.6816” N
Time:	9:55am		73° 53’ 56.3136” W
Focal Length:	50mm	Distance to Tower:	1,450 Feet
Camera:	Canon 6D Mark II		

SARATOGA ASSOCIATES

HOMELAND TOWERS

Figure C6
PHOTO SIMULATIONS
Visual Impact Assessment
WEISS POND (NY-057)
Wireless Telecommunications Facility
73 Route 9
Town of Fishkill, Dutchess County, NY

Photo 16 - NY Rte. 9 at Carol Lane
EXISTING CONDITION

Photograph Information

Date:	March 16, 2024	Photo Location:	41° 29′ 32.9172″ N
Time:	9:50am		73° 54′ 05.9472″ W
Focal Length:	50mm	Distance to Tower:	1,160 Feet
Camera:	Canon 6D Mark II		

SARATOGA ASSOCIATES

HOMELAND TOWERS

Figure C7
PHOTO SIMULATIONS
Visual Impact Assessment
WEISS POND (NY-057)
Wireless Telecommunications Facility
73 Route 9
Town of Fishkill, Dutchess County, NY

Photo 16 - NY Rte. 9 at Carol Lane
SIMULATED CONDITION - Galvanized Steel Option

SARATOGA ASSOCIATES

Photograph Information

Date:	March 16, 2024	Photo Location:	41° 29′ 32.9172″ N
Time:	9:50am		73° 54′ 05.9472″ W
Focal Length:	50mm	Distance to Tower:	1,150 Feet
Camera:	Canon 6D Mark II		

HOMELAND TOWERS

Figure C8
PHOTO SIMULATIONS
Visual Impact Assessment
WEISS POND (NY-057)
Wireless Telecommunications Facility
73 Route 9
Town of Fishkill, Dutchess County, NY

Photo 16 - NY Rte. 9 at Carol Lane
SIMULATED CONDITION - Painted Option (Brown)

Photograph Information

Date:	March 16, 2024	Photo Location:	41° 29′ 32.9172″ N
Time:	9:50am		73° 54′ 05.9472″ W
Focal Length:	50mm	Distance to Tower:	1,150 Feet
Camera:	Canon 6D Mark II		

SARATOGA ASSOCIATES

HOMELAND TOWERS

Figure C9
PHOTO SIMULATIONS
Visual Impact Assessment
WEISS POND (NY-057)
Wireless Telecommunications Facility
73 Route 9
Town of Fishkill, Dutchess County, NY

Photo 16 - NY Rte. 9 at Carol Lane
SIMULATED CONDITION - Two Tone Option (Shadow Beige and Pale Grey)

Photograph Information

Date:	March 16, 2024	Photo Location:	41° 29′ 32.9172″ N
Time:	9:50am		73° 54′ 05.9472″ W
Focal Length:	50mm	Distance to Tower:	1,150 Feet
Camera:	Canon 6D Mark II		

SARATOGA ASSOCIATES

HOMELAND TOWERS

Figure C10
PHOTO SIMULATIONS
Visual Impact Assessment
WEISS POND (NY-057)
Wireless Telecommunications Facility
73 Route 9
Town of Fishkill, Dutchess County, NY

Photo 16 - NY Rte. 9 at Carol Lane
SIMULATED CONDITION - “Flagpole” (without flag) Option

SARATOGA ASSOCIATES

Photograph Information

Date:	March 16, 2024	Photo Location:	41° 29’ 32.9172” N
Time:	9:50am		73° 54’ 05.9472” W
Focal Length:	50mm	Distance to Tower:	1,150 Feet
Camera:	Canon 6D Mark II		

HOMELAND TOWERS

Figure C11
PHOTO SIMULATIONS
Visual Impact Assessment
WEISS POND (NY-057)
Wireless Telecommunications Facility
73 Route 9
Town of Fishkill, Dutchess County, NY

Photo 17 - NY Rte. 9 at “Battery” Monument
EXISTING CONDITION

SARATOGA ASSOCIATES

Photograph Information

Date:	March 16, 2024	Photo Location:	41° 29’ 38.1588” N
Time:	10:00am		73° 54’ 01.1088” W
Focal Length:	50mm	Distance to Tower:	570 Feet
Camera:	Canon 6D Mark II		

HOMELAND TOWERS

Figure C12
PHOTO SIMULATIONS
Visual Impact Assessment
WEISS POND (NY-057)
Wireless Telecommunications Facility
73 Route 9
Town of Fishkill, Dutchess County, NY

Photo 17 - NY Rte. 9 at “Battery” Monument
SIMULATED CONDITION

SARATOGA ASSOCIATES

Photograph Information

Date:	March 16, 2024	Photo Location:	41° 29’ 38.1588” N
Time:	10:00am		73° 54’ 01.1088” W
Focal Length:	50mm	Distance to Tower:	610 Feet
Camera:	Canon 6D Mark II		

HOMELAND TOWERS

Figure C13
PHOTO SIMULATIONS
Visual Impact Assessment
WEISS POND (NY-057)
Wireless Telecommunications Facility
73 Route 9
Town of Fishkill, Dutchess County, NY

Photo 18 - NY Rte. 9 at Project Site
EXISTING CONDITION

Photograph Information

Date:	March 16, 2024	Photo Location:	41° 29′ 43.2204″ N
Time:	10:10am		73° 53′ 58.7436″ W
Focal Length:	24mm	Distance to Tower:	310 Feet
Camera:	Canon 6D Mark II		

SARATOGA ASSOCIATES

HOMELAND TOWERS

Figure C14
PHOTO SIMULATIONS
Visual Impact Assessment
WEISS POND (NY-057)
Wireless Telecommunications Facility
73 Route 9
Town of Fishkill, Dutchess County, NY

Photo 18 - NY Rte. 9 at Project Site
SIMULATED CONDITION - Galvanized Steel Option

SARATOGA ASSOCIATES

Photograph Information

Date:	March 16, 2024	Photo Location:	41° 29′ 43.2204″ N
Time:	10:10am		73° 53′ 58.7436″ W
Focal Length:	24mm	Distance to Tower:	310 Feet
Camera:	Canon 6D Mark II		

HOMELAND TOWERS

Figure C15
PHOTO SIMULATIONS
Visual Impact Assessment
WEISS POND (NY-057)
Wireless Telecommunications Facility
73 Route 9
Town of Fishkill, Dutchess County, NY

Photo 18 - NY Rte. 9 at Project Site
SIMULATED CONDITION - Painted Option (Brown)

Photograph Information

Date:	March 16, 2024	Photo Location:	41° 29′ 43.2204″ N
Time:	10:10am		73° 53′ 58.7436″ W
Focal Length:	24mm	Distance to Tower:	310 Feet
Camera:	Canon 6D Mark II		

SARATOGA ASSOCIATES

HOMELAND TOWERS

Figure C16
PHOTO SIMULATIONS
Visual Impact Assessment
WEISS POND (NY-057)
Wireless Telecommunications Facility
73 Route 9
Town of Fishkill, Dutchess County, NY

Photo 18 - NY Rte. 9 at Project Site
SIMULATED CONDITION - Two Tone Option (Shadow Beige and Pale Grey)

SARATOGA ASSOCIATES

Photograph Information

Date:	March 16, 2024	Photo Location:	41° 29′ 43.2204″ N
Time:	10:10am		73° 53′ 58.7436″ W
Focal Length:	24mm	Distance to Tower:	310 Feet
Camera:	Canon 6D Mark II		

HOMELAND TOWERS

Figure C17
PHOTO SIMULATIONS
Visual Impact Assessment
WEISS POND (NY-057)
Wireless Telecommunications Facility
73 Route 9
Town of Fishkill, Dutchess County, NY

Photo 18 - NY Rte. 9 at Project Site
SIMULATED CONDITION - “Flagpole” (without flag) Option

SARATOGA ASSOCIATES

Photograph Information

Date:	March 16, 2024	Photo Location:	41° 29’ 43.2204” N
Time:	10:10am		73° 53’ 58.7436” W
Focal Length:	24mm	Distance to Tower:	310 Feet
Camera:	Canon 6D Mark II		

HOMELAND TOWERS

Figure C18
PHOTO SIMULATIONS
Visual Impact Assessment
WEISS POND (NY-057)
Wireless Telecommunications Facility
73 Route 9
Town of Fishkill, Dutchess County, NY

Photo 21 - NY Rte. 9 near Century Aggregates Quarry Entrance
EXISTING CONDITION

Photograph Information

Date:	March 16, 2024	Photo Location:	41° 29′ 54.6900″ N
Time:	10:12am		73° 54′ 01.5156″ W
Focal Length:	24mm	Distance to Tower:	1,080 Feet
Camera:	Canon 6D Mark II		

SARATOGA ASSOCIATES

HOMELAND TOWERS

Figure C19
PHOTO SIMULATIONS
Visual Impact Assessment
WEISS POND (NY-057)
Wireless Telecommunications Facility
73 Route 9
Town of Fishkill, Dutchess County, NY

Photo 21 - NY Rte. 9 near Century Aggregates Quarry Entrance
SIMULATED CONDITION

SARATOGA ASSOCIATES

Photograph Information

Date:	March 16, 2024	Photo Location:	41° 29′ 54.6900″ N
Time:	10:12am		73° 54′ 01.5156″ W
Focal Length:	24mm	Distance to Tower:	1,080 Feet
Camera:	Canon 6D Mark II		

HOMELAND TOWERS

Figure C20
PHOTO SIMULATIONS
Visual Impact Assessment
WEISS POND (NY-057)
Wireless Telecommunications Facility
73 Route 9
Town of Fishkill, Dutchess County, NY

Photo 28 - Hudson Highlands State Park - Fishkill Ridge (White) Trail
EXISTING CONDITION

Photograph Information

Date:	March 16, 2024	Photo Location:	41° 30’ 02.1888” N
Time:	12:00pm		73° 54’ 51.5124” W
Focal Length:	50mm	Distance to Tower:	4,140 Feet
Camera:	Canon 6D Mark II		

SARATOGA ASSOCIATES

HOMELAND TOWERS

Figure C21
PHOTO SIMULATIONS
Visual Impact Assessment
WEISS POND (NY-057)
Wireless Telecommunications Facility
73 Route 9
Town of Fishkill, Dutchess County, NY

Photo 28 - Hudson Highlands State Park - Fishkill Ridge (White) Trail
SIMULATED CONDITION

Photograph Information

Date:	March 16, 2024	Photo Location:	41° 30’ 02.1888” N
Time:	12:00pm		73° 54’ 51.5124” W
Focal Length:	50mm	Distance to Tower:	4,140 Feet
Camera:	Canon 6D Mark II		

SARATOGA ASSOCIATES

HOMELAND TOWERS

Figure C22
PHOTO SIMULATIONS
Visual Impact Assessment
WEISS POND (NY-057)
Wireless Telecommunications Facility
73 Route 9
Town of Fishkill, Dutchess County, NY

Photo 33 - Hudson Highlands State Park - Fishkill Ridge (White) Trail
EXISTING CONDITION

SARATOGA ASSOCIATES

Photograph Information

Date:	March 16, 2024	Photo Location:	41° 29′ 46.4604″ N
Time:	1:30pm		73° 55′ 15.7152″ W
Focal Length:	50mm	Distance to Tower:	5,390 Feet
Camera:	Canon 6D Mark II		

HOMELAND TOWERS

Figure C23
PHOTO SIMULATIONS
Visual Impact Assessment
WEISS POND (NY-057)
Wireless Telecommunications Facility
73 Route 9
Town of Fishkill, Dutchess County, NY

Photo 33 - Hudson Highlands State Park - Fishkill Ridge (White) Trail
SIMULATED CONDITION

SARATOGA ASSOCIATES

Photograph Information

Date:	March 16, 2024	Photo Location:	41° 29′ 46.4604″ N
Time:	1:30pm		73° 55′ 15.7152″ W
Focal Length:	50mm	Distance to Tower:	5,390 Feet
Camera:	Canon 6D Mark II		

HOMELAND TOWERS

Figure C24
PHOTO SIMULATIONS
Visual Impact Assessment
WEISS POND (NY-057)
Wireless Telecommunications Facility
73 Route 9
Town of Fishkill, Dutchess County, NY

Memo To: Town of Fishkill, NY

From: Sean Haynberg, V-COMM, LLC

Date: June 25, 2024

Subject: Homeland Towers NY057 Weiss Pond Site – Flagpole Issues

V-COMM was commissioned by Homeland Towers to study the improvement in RF coverage that would result from a proposed wireless communications facility located at 73 Route 9 in Fishkill, NY. The coverage enhancement for the proposed tower was provided in the RF report for NY057 Weiss Pond dated April 8, 2024. As provided in the report, The proposed tower site with a CMRS antenna centerline of 147 ft will provide significant improvement in wireless coverage for the Verizon wireless network, and the site will support collocation for other carriers' antennas to enhance their networks in the area as well, and can provide additional support for Public Safety radio antennas, as needed. The proposed structure was a monopole for this location to support up to 4 wireless carrier's antenna systems, to provide sufficient coverage to this area, and support an omni antenna at the top for public safety or other two-way radio needs. Monopole structures are specifically designed to accommodate and support multiple antennas, remote radio head units for wireless remotes minimizing cable lengths and optimizing coverage, and other equipment such as mechanical down-tilting brackets, as well.

In comparison to the standard wireless Monopole structures, Flagpole structures have specific limitations on supporting equipment which can limit the number of carriers collocating, supporting omni antennas, supporting remote read head equipment, fitting smaller antenna arrays inside the enclosed flagpole structure, and limits on antenna azimuth pointing, and does not allow the use of mechanical downtilt brackets, which are used to optimize wireless coverage. For example, Flagpole structures can result in limitations on the following:

1. Omni-directional whip antennas usually needed for public safety emergency communications will not fit inside a flagpole.

2. Flagpoles have limited space inside to fit antenna arrays, and can limit the size of the antennas used, resulting is less antenna gain and signal strength with smaller antennas, and in some cases limit the number of sector antennas that can be mounted at specific height (i.e. 2 or 3 sectors per height), resulting in multiple antenna heights with sufficient antenna separation to hold the carrier antennas to support the multiple sectors.
3. With limited space inside the flagpole, the carrier's remote radio equipment is typically operating on the ground, resulting in additional cable insertion loss and lower operating power for the site, which has the potential to reduce coverage in the area.
4. Flagpoles may limit certain antenna azimuths to be used, and limits the use of antenna downtilt brackets, which are used to optimize the coverage and performance, and limit the interference, of wireless carrier networks.
5. Flagpoles may limit the amount of collocation space for additional wireless carrier's equipment. In some cases, they may limit the number of wireless carriers that can collocate on the structure.
6. Flagpoles limit potential future modifications for carriers seeking to add new frequency bands and antennas to the tower, to provide enhanced network capacity and wireless technologies in the future.
7. Maintaining antennas and other equipment inside the flagpole is more difficult, as the equipment is more difficult to access as compared to a Monopole that has easy access to equipment with tower climbers. For Flagpoles, cranes and bucket trucks are needed more often for any maintenance or repairs.
8. Flagpoles also have noise concerns with the chain, ropes and flag on the flagpole, and if the flag is to be up during the night then flag etiquette requires ground lighting which will make the tower more visible during the night and potentially add light pollution. Also, there are requirements for raising and lowering the flag throughout the year.

Therefore, for all the reasons above the preference is for a Monopole structure for this site, to efficiently support up to 4 wireless carrier's antenna systems for collocation, to optimize coverage and performance with standard remote radio equipment for 4G and 5G operations and antenna mechanical downtilting, and omni antenna at the top of the tower for emergency communications, as needed.

Sean Haynberg

6/25/2024

Sean Haynberg
Director of RF Technologies, V-COMM, L.L.C.

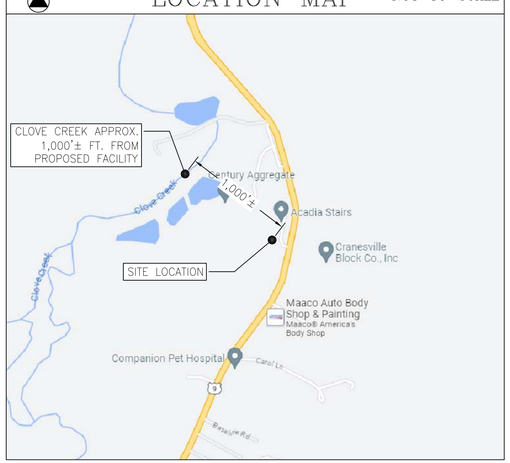
SITE # NY057 - WEISE POND
LISIKATOS REALTY CORP.
73 ROUTE 9
FISHKILL, NY 12524

PROJECT DESCRIPTION

- INSTALLATION OF A 150 FT. MONOPOLE/TOWER WITHIN A FENCED-IN COMPOUND AT GRADE
- EXISTING SITE ACCESS TO BE UTILIZED UP TO TOWER LOCATION
- INSTALLATION OF VERIZON OUTDOOR EQUIPMENT CABINETS AND A DIESEL FUELED BACK-UP EMERGENCY GENERATOR ON A CONCRETE PAD WITH ANTENNAS/APPERTUNANCES AT 147 FT. ON THE STRUCTURE
- ELECTRICAL/TELEPHONE SERVICES ROUTED FROM EXISTING UTILITY POLE UNDERGROUND TO EQUIPMENT COMPOUND

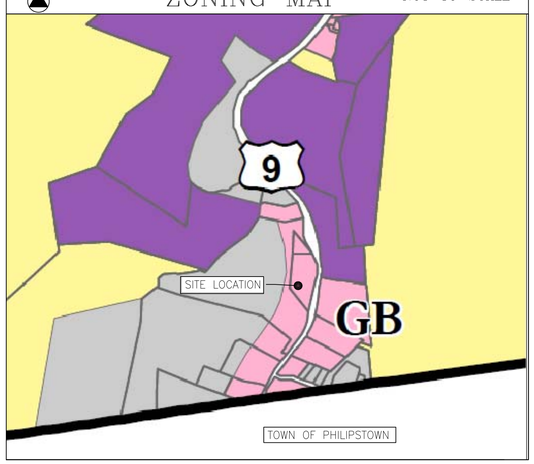
LOCATION MAP

NOT-TO-SCALE



ZONING MAP

NOT-TO-SCALE



GIS AERIAL MAP

NOT-TO-SCALE

PROJECT SUMMARY

SITE ID:	NY057 - WEISE POND
SITE ADDRESS:	73 ROUTE 9 FISHKILL, NY 12524
PROPERTY OWNER:	LISIKATOS REALTY CORP. 73 ROUTE 9 FISHKILL, NY 12524
PARCEL ID:	133089-6154-00-852538-0000
ZONING:	GB - GENERAL BUSINESS DISTRICT
TOWER COORDINATES:	41° 29' 44.10" N 73° 54' 02.70" W
GROUND ELEVATION:	280 FT. AMSL
APPLICANT:	HOMELAND TOWERS 9 HARMONY ST.; 2ND FL. DANBURY, CT 06810

DRAWING SCHEDULE

SHEET NO.	SHEET DESCRIPTION
T-1	TITLE SHEET
-	PROPERTY SURVEY
C-0	1,500 FT. PROPERTY OWNER MAP & LIST
C-1	SITE PLAN
C-2	GRADING/DRAINAGE & FACILITY REMOVAL/SITE RESTORATION PLAN
C-3	ENLARGED SITE PLAN
C-4	ELEVATIONS
C-5	SITE NOTES & DETAILS
C-6	FENCE & MISC. DETAILS
VZ-1	VERIZON EQUIPMENT PLAN & DETAILS
VZ-2	ANTENNA PLAN & VERIZON EQUIP. SPECS

HOMELAND TOWERS
Homeland Towers, LLC
9 Harmony Street, 2nd Floor
Danbury, CT 06810

NEW YORK SMSA LIMITED PARTNERSHIP
d/b/a
verizon
4 CENTERROCK ROAD
WEST NYACK, NY 10994

On Air Engineering, LLC
88 Foundry Pond Road
Cold Spring, NY 10516
onair@optonline.net
201-456-4624

LICENSURE

STATE OF NEW YORK
DAVID WEINPAHL
No. 078901
LICENSED PROFESSIONAL ENGINEER

DAVID WEINPAHL, P.E.
NY LIC NO. 078901

NO.:	DATE:	SUBMISSIONS
0	08.18.23	REVIEW SET
1	12.07.23	ZONING FILING
2	04.04.24	REVISED PER TOWN COMMENTS
3	05.24.24	REVISED PER TOWN COMMENTS
4	06.24.24	REVISED PER TOWN COMMENTS

DRAWN BY: MF

CHECKED BY: DW

HOMELAND TOWERS SITE ID:
NY057
WEISE POND

VERIZON SITE NAME:
WEISE POND

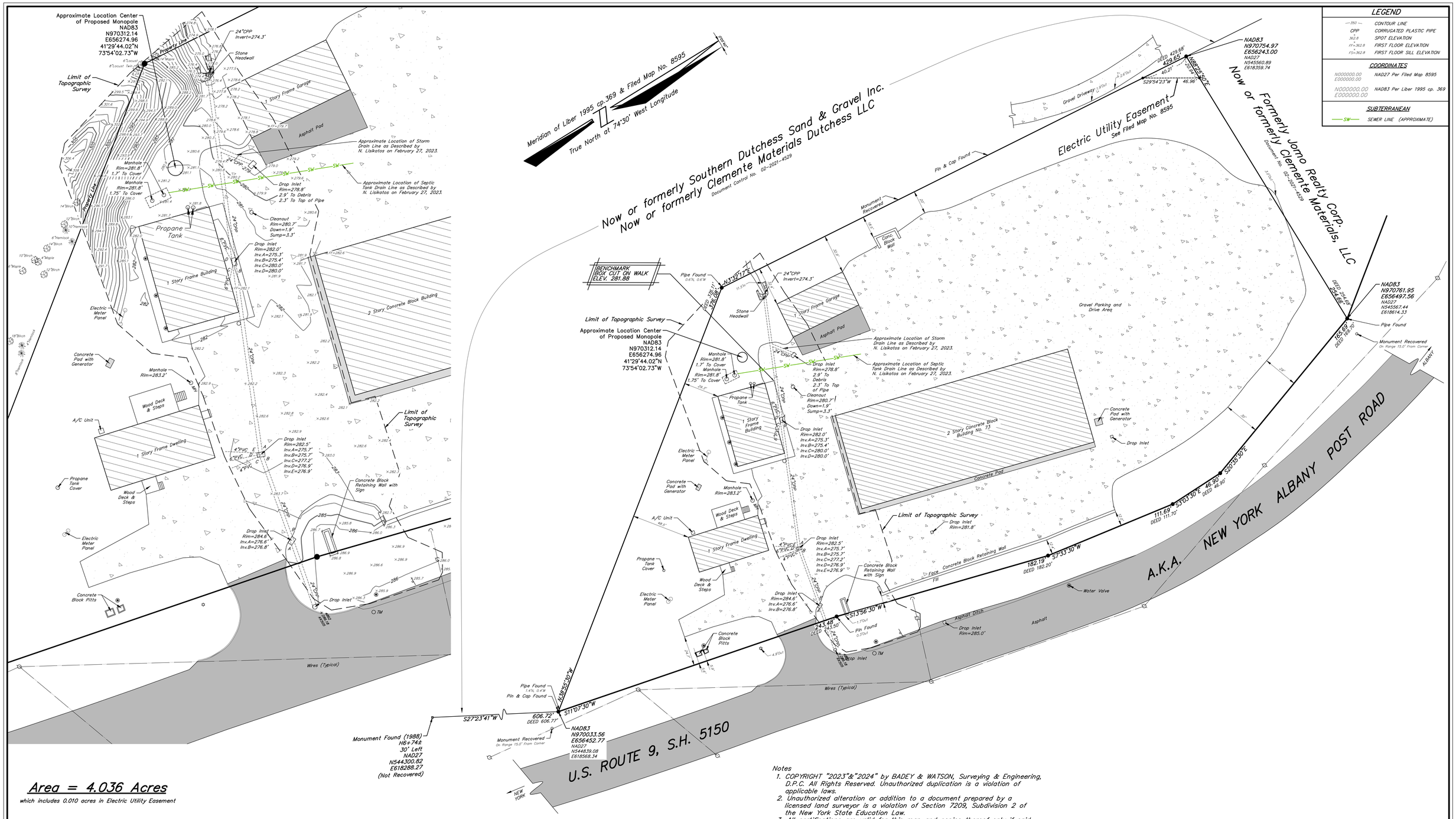
PROJECT ADDRESS:
LISIKATOS REALTY CORP.
73 ROUTE 9
TOWN OF FISHKILL, NY 12524

DRAWING TITLE:
TITLE SHEET

SHEET NUMBER:
T-1

GEOGRAPHIC INDEX 41–29–45.2 –73–54–00.9

T.M. : 6154–00–852538 On 03–03–2023 Closed by MEY Drawn by JFT Spell checked by JFT Checked by JMR W.O. No. 26710 Layout: SURVEY Drawing Name: L526710___R05_V22.DWG



LEGEND

350	CONTOUR LINE
CPP	CORRUGATED PLASTIC PIPE
362.8	SPOT ELEVATION
FF=362.8	FIRST FLOOR ELEVATION
FS=362.8	FIRST FLOOR SILL ELEVATION

COORDINATES

N000000.00 E000000.00	NAD27 Per Filed Map 8595
N000000.00 E000000.00	NAD83 Per Liber 1995 cp. 369

SUBTERRANEAN

SW	SEWER LINE (APPROXIMATE)

Area = 4.036 Acres

which includes 0.010 acres in Electric Utility Easement

This map was prepared for the exclusive use of and is certified only to:

ON AIR ENGINEERING LLC

Notes

1. COPYRIGHT "2023"&"2024" by BADEY & WATSON, Surveying & Engineering, D.P.C. All Rights Reserved. Unauthorized duplication is a violation of applicable laws.
2. Unauthorized alteration or addition to a document prepared by a licensed land surveyor is a violation of Section 7209, Subdivision 2 of the New York State Education Law.
3. All certifications are valid for this map and copies thereof only if said map or copies bear the embossed seal of the surveyor whose signature appears hereon.
4. If underground improvements, easements, or encroachments exist and are neither visible during normal field survey operations nor described in instruments provided to these surveyors, they may not be shown on this map.
5. This property may be affected by instruments which have not been provided to these surveyors. Users of this map should verify title with their attorney or a qualified title examiner.
6. Users are referred to that certain "Survey of Property for Boundary Line Agreement among Percacciolo, Southern Dutchess Sand & Gravel, Inc...." which was filed in the Dutchess County Clerk's office on December 5, 1988 as Map No. 8595.
7. This is a survey of the premises described in the Dutchess County Clerk's Liber 1995 of deeds at page 369 (Percacciolo to Lisikatos Realty Corp.).
8. The meridian and coordinate values hereon refer to the New York State Coordinate System, East Zone (NAD 83) expressed in U.S. Survey Feet.
9. Revised on March 6, 2023, as follows:
   a. Depths of septic tank covers updated.
   Survey was NOT brought to date.
10. Revised on February 8, 2024 to show additional trees near location center located on February 6, 2024.
    Survey was NOT otherwise brought to date.
11. Revised on April 5, 2024 removing 6" Locust Twin at southwest corner of property verified in field on April 4, 2024.
    Survey was NOT brought to date.
12. Revised on June 25, 2024 to remove height of monopole.
    Survey was NOT brought to date.

BADEY & WATSON
Surveying & Engineering, D.P.C.
3063 Route 9
Cold Spring, NY 10516
www.Badey-Watson.com
845.265.9217
877.3.141595 (Toll Free)

SURVEY OF PROPERTY
PREPARED FOR

ON AIR ENGINEERING LLC

SITUATE IN THE

TOWN OF FISHKILL
DUTCHESS COUNTY
NEW YORK

SCALE 1 in. = 30 ft. FEBRUARY 17, 2023

We hereby certify that the survey shown hereon was completed by us on February 17, 2023 that this map was completed on March 3, 2023 and that this survey has been prepared in accordance with the existing Code of Practice for Land Surveys adopted by The New York State Association of Professional Land Surveyors, Inc.
Revised on June 25, 2024. See Note 12.

STATE OF NEW YORK · SHANNON J WATSON · 48167 · LICENSED LAND SURVEYOR

BADEY & WATSON
Surveying & Engineering, D.P.C.
by
NEW YORK STATE LICENSED LAND SURVEYOR
LICENSE No. 48167

PRINTED
June 25, 2024
BADEY & WATSON
Surveying & Engineering, D.P.C.

FILE No. 88–138

	1,500 FT. PROPERTY OWNER LIST FROM PARCEL 133089-6154-00-852538-0000 - 73 Rt. 9, FISHKILL, NY			
	PARCEL #	OWNER NAME	OWNER MAILING ADDRESS	PROPERTY ADDRESS/LOCATION:
1	690380	Gatekeepers Managemt LLC	51 Old Albany Post Rd, Cold Spring, NY 10516	Route 9, Fishkill, NY
2	775385	Singh, Jagdeep; Kaur, Simerjit	3697 Route 9, Cold Spring, NY 10516	9 Route 9, Fishkill, NY
3	735397	Singh, Jagdeep; Kaur, Simerjit	3697 Route 9, Cold Spring, NY 10516	Route 9 Rear, Fishkill, NY
4	683590	Clemente Materials-Dutchess	PO Box 171, Watervliet, NY 12189	15-111 Route 9, Fishkill, NY
5	540440	Ellis, Carolyn T, Francis L, Nathan A	PO Box 139, Yorktown Heights, NY 10598	70 Reservoir Ln, Fishkill, NY
6	866722	North State Associates LLC	172 Route 9, Fishkill, NY 12524	172 Route 9, Fishkill, NY
7	920690	Thalle Industries Inc	172 Route 9, Fishkill, NY 12524	Route 9, Fishkill, NY
8	530700	Fresh Air Fund The	633 Third Ave, NY, NY 10017	436 Van Wyck Lake Rd, Fishkill, NY
9	882578	43-51 Associates LLC	51 Route 100, Briarcliff Manor, NY 10510	Route 9, Fishkill, NY
10	898490	Cranesville Block Co Inc	774 State Hwy 5S, Amsterdam, NY 12010	70 Route 9, Fishkill, NY
11	882456	52 Route 9 LLC	77-25 164th St, Fl 1, Fresh Meadows, NY 11366	52 Route 9, Fishkill, NY
12	866431	AEY Holdings LLC	77-25 164th St, Fl 1, Fresh Meadows, NY 11366	38 Route 9, Fishkill, NY
13	915425	Marino, Gary & Toni	227 Carol Ln, Fishkill, NY 12524	227 Carol Ln, Fishkill, NY
14	922397	Bushek, Edward D.	238 Carol Ln, Fishkill, NY 12524	238 Carol Ln, Fishkill, NY
15	900400	McGuire, John F. Jr & Michelle M.	PO Box 22, Cold Spring, NY 10516	233 Carol Ln, Fishkill, NY
16	869403	Ogden, Jennifer M. & Derek R.	225 Carol Ln, Fishkill, NY 12524	225 Carol Ln, Fishkill, NY
17	859407	Beglan, Michael J. & Natalie A.	219 Carol Ln, Fishkill, NY 12524	219 Carol Ln, Fishkill, NY
18	850411	Allen, William E. & Patricia E.	215 Carol Ln, Fishkill, NY 12524	215 Carol Ln, Fishkill, NY
19	833415	DiBattista, Michael & Kelli	209 Carol Ln, Fishkill, NY 12524	209 Carol Ln, Fishkill, NY
20	828389	8 Route 9 LLC	8 Route 9, Fishkill, NY 12524	8 Route 9, Fishkill, NY
21	862386	Calder, Vicki	236 Carol Ln, Fishkill, NY 12524	Carol Ln, Fishkill, NY
22	7.-1-10	Pelargos Financial Co SA	21 Gortynias St, 15236 P Pendali, Athens, Greece	3688 Carol Ln, Philipstown, NY
23	7.-1-9	McGuire, Gladys	245 Carol Ln, Fishkill, NY 12524	245 Carol Ln, Philipstown, NY
24	7.-1-8	O'Donnell , William	250 Carol Ln, Cold Spring, NY 10516	250-252 Carol Ln, Philipstown, NY
25	7.-1-11	Pelargos Financial Co SA	21 Gortynias St, 15236 P Pendali, Athens, Greece	3687 Rt 9, Philipstown, NY
26	7.-1-7	Ihab Elnaccash	224 Carol Ln, Fishkill, NY 12524	246 Carol Ln, Philipstown, NY
27	7.-1-12	Calder, Vicky	236 Carol Ln, Fishkill, NY 12524	240 Carol Ln, Philipstown, NY
28	7.-1-13	8 Route 9 LLC	8 Route 9, Fishkill, NY 12524	3682 Rt 9, Philipstown, NY
29	7.-1-14.-71	Bookside Senior Citizen Park	P.O. Box 306, Red Hook NY 12571	34 Treeline Cir, Philipstown, NY
30	7.-1-6	Singh, Jagdeep; Kaur, Simerjit	3697 Route 9, Cold Spring, NY 10516	3697 Route 9, Philipstown, NY

NOTES:
1. ABUTTERS MAP & ADDRESSES ARE TAKEN FROM DUTCHESS AND PUTNAM COUNTY ONLINE 'GIS' MAPPING, FEBRUARY 2024.

1 / C-0 1,500 FT. PROPERTY OWNER MAP
Scale: 1" = 200'

HOMELAND TOWERS
Homeland Towers, LLC
9 Harmony Street, 2nd Floor
Danbury, CT 06810

NEW YORK SMSA LIMITED PARTNERSHIP
d/b/a
verizon
4 CENTERROCK ROAD
WEST NYACK, NY 10994

On Air Engineering, LLC
88 Foundry Pond Road
Cold Spring, NY 10516
onair@optonline.net
201-456-4624

LICENSURE

STATE OF NEW YORK DAVID WEINPAHL No. 078901 LICENSED PROFESSIONAL ENGINEER

DAVID WEINPAHL, P.E.
NY LIC NO. 078901

NO.:	DATE:	SUBMISSIONS
0	08.18.23	REVIEW SET
1	12.07.23	ZONING FILING
2	04.04.24	REVISED PER TOWN COMMENTS
3	05.24.24	REVISED PER TOWN COMMENTS
4	06.24.24	REVISED PER TOWN COMMENTS

DRAWN BY:	CHECKED BY:
MF	DW

HOMELAND TOWERS SITE ID:
NY057
WEISE POND

VERIZON SITE NAME:
WEISE POND

PROJECT ADDRESS:
LISIKATOS REALTY CORP.
73 ROUTE 9
TOWN OF FISHKILL, NY 12524

DRAWING TITLE:
1,500 FT. PROPERTY OWNER MAP & LIST

SHEET NUMBER:
C-0

GENERAL NOTES:

(1) THE APPLICANTS PROPOSE TO INSTALL A WIRELESS TELECOMMUNICATION FACILITY CONSISTING OF A NEW 150 FT. MONOPOLE, ANTENNAS LOCATED ON THE POLE STRUCTURE AND OUTDOOR EQUIPMENT CABINETS & GENERATOR LOCATED WITHIN A FENCED COMPOUND.

(2) THE PROPOSED USE IS NOT INTENDED FOR PERMANENT EMPLOYEE OCCUPANCY AND AS SUCH, POTABLE WATER AND SANITARY SEWERS ARE NOT REQUIRED.

(3) THE FACILITY SHALL BE VISITED ON THE AVERAGE OF ONCE A MONTH FOR MAINTENANCE AND SHALL BE CONTINUOUSLY MONITORED FROM A REMOTE SWITCH FACILITY.

(4) THE FACILITY WILL NOT GENERATE ANY ADDITIONAL NOISE ABOVE AMBIENT LEVELS, FUMES, ODORS, DUST OR VIBRATIONS.

(5) NO COMMERCIAL SIGNS ARE PROPOSED.

(6) NO LIGHTING IS PROPOSED ON THE TOWER STRUCTURE. EQUIPMENT SERVICE LIGHTS ARE PROPOSED AT THE VERIZON EQUIPMENT AND WILL BE CONTROLLED ON A TIMER SWITCH. REFER TO SHEET VZ-1 FOR LOCATIONS. A LIGHTING PLAN IS NOT REQUIRED.

(7) THERE ARE NO EXISTING TREES ON-SITE WITHIN THE PROJECT LIMITS. NO TREE REMOVAL IS PROPOSED.

(8) THIS SET OF PLANS HAS BEEN PREPARED FOR THE PURPOSES OF MUNICIPAL AND AGENCY REVIEW AND APPROVAL. THIS SET OF PLANS SHALL NOT BE UTILIZED AS CONSTRUCTION DOCUMENTS UNTIL ALL CONDITIONS OF APPROVAL HAVE BEEN SATISFIED AND EACH OF THE DRAWINGS HAS BEEN REVISED TO INDICATE "ISSUED FOR CONSTRUCTION".

(9) SITE PLAN IS BASED ON A SURVEY OF PROPERTY PREPARED BY BADEY & WATSON, DATED 2-17-23 AND PRINTED 4-5-24.

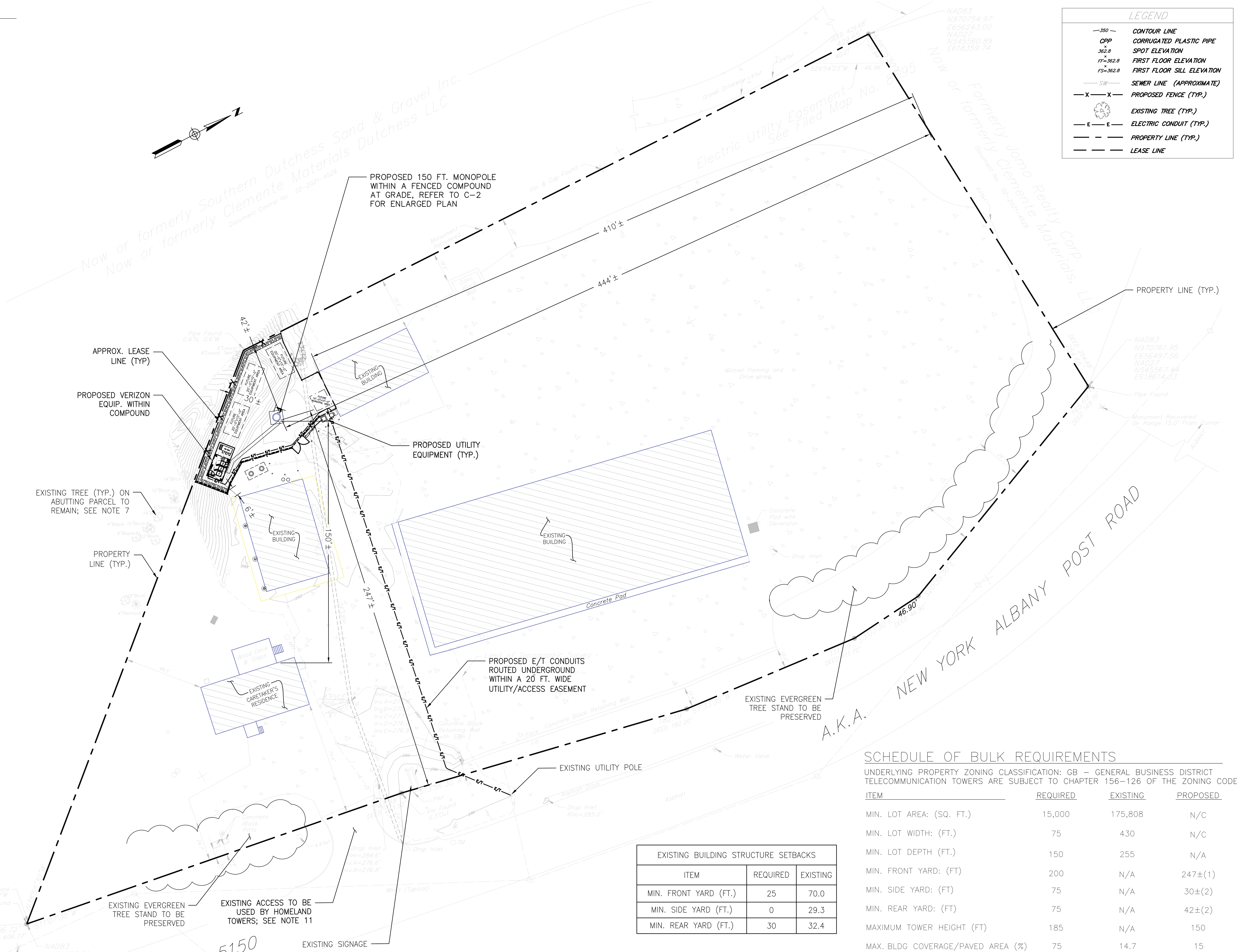
(10) DISTANCE TO FROM PROPOSED TOWER TO NEAREST OFF-SITE RESIDENTIAL STRUCTURE IS APPROX. 1,050 FT. (REFER "GIS AERIAL MAP" ON SHEET T-1). DISTANCE TO NEAREST ON-SITE RESIDENTIAL STRUCTURE (CARETAKER'S BLDG.) IS 150 FT.

(11) THE EXISTING GRAVEL ACCESS DRIVE WILL BE USED. THIS ALSO SERVES AS AN EMERGENCY ACCESS PATHWAY. NO IMPROVEMENTS TO THE EXISTING ACCESS DRIVE IS REQUIRED.

(12) THERE ARE NO OUTDOOR STORAGE AREAS REQUIRED OR PART OF THIS APPLICATION.

(13) THERE ARE NO PROPOSED IMPROVEMENTS TO THE EXISTING DRAINAGE SYSTEM. THE GRAVEL COMPOUND IS PERVIOUS AND WILL BE PITCHED TOWARDS THE EXISTING DRAINAGE SWALE AS NOTED ON SHEET C-2.

(14) A LANDSCAPING PLAN IS NOT PROPOSED AS THE FACILITY HAS BEEN DESIGNED WITH RETAINING WALLS ON TWO SIDES AND EXISTING BUILDINGS ON THE REMAINING TWO SIDES.



1 / C-1 SITE PLAN
Scale: 1" = 30'

0 30' 60'
Scale: 1" = 30'

EXISTING BUILDING STRUCTURE SETBACKS		
ITEM	REQUIRED	EXISTING
MIN. FRONT YARD (FT.)	25	70.0
MIN. SIDE YARD (FT.)	0	29.3
MIN. REAR YARD (FT.)	30	32.4

SCHEDULE OF BULK REQUIREMENTS

UNDERLYING PROPERTY ZONING CLASSIFICATION: GB – GENERAL BUSINESS DISTRICT
TELECOMMUNICATION TOWERS ARE SUBJECT TO CHAPTER 156–126 OF THE ZONING CODE

ITEM	REQUIRED	EXISTING	PROPOSED
MIN. LOT AREA: (SQ. FT.)	15,000	175,808	N/C
MIN. LOT WIDTH: (FT.)	75	430	N/C
MIN. LOT DEPTH (FT.)	150	255	N/A
MIN. FRONT YARD: (FT)	200	N/A	247±(1)
MIN. SIDE YARD: (FT)	75	N/A	30±(2)
MIN. REAR YARD: (FT)	75	N/A	42±(2)
MAXIMUM TOWER HEIGHT (FT)	185	N/A	150
MAX. BLDG COVERAGE/PAVED AREA (%)	75	14.7	15

NOTES:
(1) DISTANCE TO PROPERTY LINE
(2) DISTANCE TO PROPOSED LEASE AREA FOR SIDE & REAR YARD TOWER SETBACKS; SETBACKS TO SIDE/REAR YARD PROP. LINES ARE 2 FT. FURTHER

N/A NOT APPLICABLE
N/C NO CHANGE

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LICENSURE

STATE OF NEW YORK · DAVID WEINPAHL · No. 078901 · LICENSED PROFESSIONAL ENGINEER

DAVID WEINPAHL, P.E.
NY LIC NO. 078901

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DRAWN BY: MF

CHECKED BY: DW

HOMELAND TOWERS SITE ID:
NY057
WEISE POND

VERIZON SITE NAME:
WEISE POND

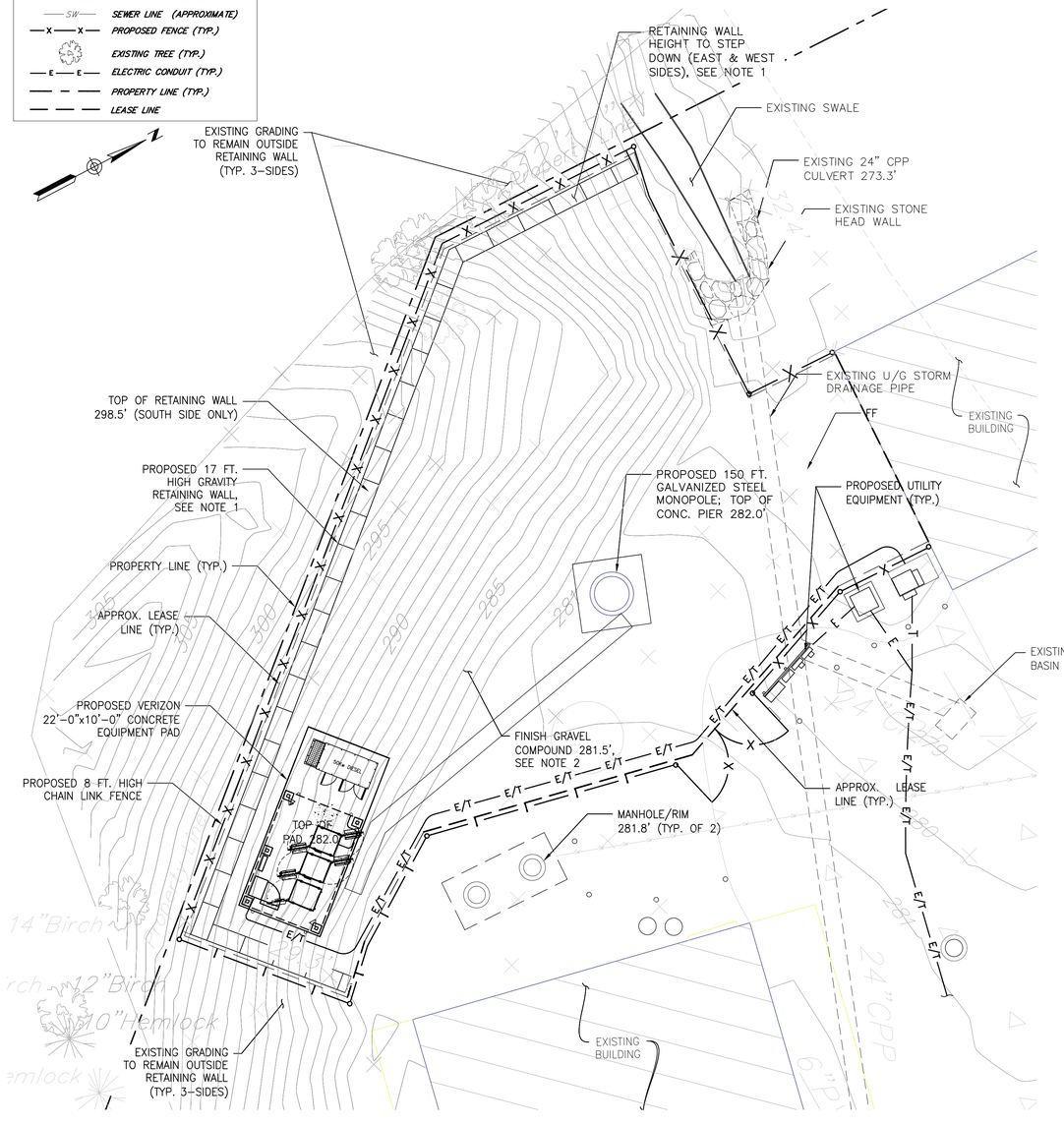
PROJECT ADDRESS:
LISIKATOS REALTY CORP.
73 ROUTE 9
TOWN OF FISHKILL, NY 12524

DRAWING TITLE:
SITE PLAN

SHEET NUMBER:
C-1

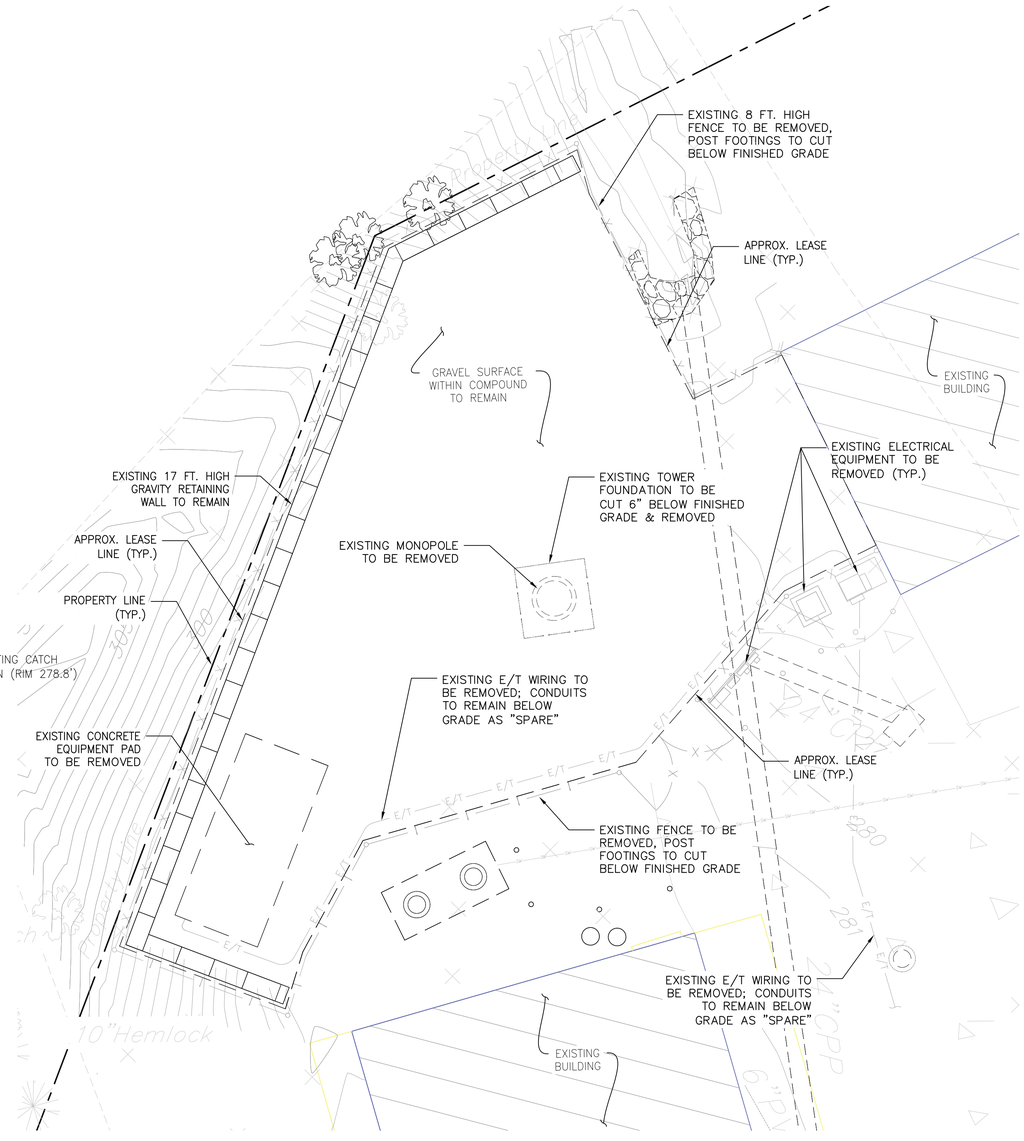
LEGEND

—350—	CONTOUR LINE
CPP	CORRUGATED PLASTIC PIPE
362.8	SPOT ELEVATION
FF=362.8	FIRST FLOOR ELEVATION
FS=362.8	FIRST FLOOR SILL ELEVATION
—SW—	SEWER LINE (APPROXIMATE)
—X—X—	PROPOSED FENCE (TYP.)
	EXISTING TREE (TYP.)
—E—E—	ELECTRIC CONDUIT (TYP.)
— — —	PROPERTY LINE (TYP.)
— — —	LEASE LINE



1 C-2 GRADING/DRAINAGE PLAN
Scale: 1/8" = 1'-0"

8' 4' 0' 8' 16'
Scale: 1/8" = 1'-0'



2 C-2 FACILITY REMOVAL/SITE RESTORATION PLAN
Scale: 1/8" = 1'-0"

8' 4' 0' 8' 16'
Scale: 1/8" = 1'-0'

NOTES TO 1/C-2:
1. RETAINING WALL LAYOUT, HEIGHT AND DETAILS ARE PRELIMINARY AND WILL BE FINALIZED UPON ZONING APPROVAL.
2. EXISTING TOPO BASED ON SURVEY BY BADEY & WATSON. SLOPED AREA WITHIN PROPOSED COMPOUND TO BE EXCAVATED & REMOVED OFF-SITE; RE-GRADE TO 2% SLOPE ACROSS FINISHED GRAVEL COMPOUND.

NOTES TO 2/C-2:
1. HOMELAND TOWERS LEASE LINE FOLLOWS OUTSIDE LIMITS OF RETAINING WALL, PORTION OF EXISTING GARAGE AND PROPOSED CHAIN LINK COMPOUND FENCE.
2. REFER TO FACILITY COST REMOVAL LETTER, UNDER SEPARATE COVER. CARRIER EQUIPMENT (NOT SHOWN) TO BE REMOVED UNDER SEPARATE APPLICATIONS.

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VERIZON SITE NAME:
WEISE POND

PROJECT ADDRESS:
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73 ROUTE 9
TOWN OF FISHKILL, NY 12524

DRAWING TITLE:
GRADING/DRAINAGE & FACILITY REMOVAL/SITE RESTORATION PLAN

SHEET NUMBER:
C-2

LEGEND

—350—	CONTOUR LINE
CPP	CORRUGATED PLASTIC PIPE
362.8	SPOT ELEVATION
FF=362.8	FIRST FLOOR ELEVATION
FS=362.8	FIRST FLOOR SILL ELEVATION
—SW—	SEWER LINE (APPROXIMATE)
—X—X—	PROPOSED FENCE (TYP.)
	EXISTING TREE (TYP.)
—E—E—	ELECTRIC CONDUIT (TYP.)
	PROPERTY LINE (TYP.)
	LEASE LINE

EXISTING TREE (TYP. OF 3) ON ADJACENT PARCEL

EXISTING SWALE

EXISTING STONE HEADWALL

EXISTING U/G STORM DRAINAGE PIPE

1 C-4

EXISTING BUILDING

PROPERTY LINE (TYP.)

PROPOSED 150 FT. GALVANIZED STEEL MONOPOLE; TOP OF CONC. PIER 282.0 FT.

PROPOSED 17 FT. HIGH GRAVITY RETAINING WALL, SEE NOTE 1

APPROX. LEASE LINE (TYP.)

PROPOSED 8 FT. HIGH CHAIN LINK FENCE

PROPOSED VERIZON 22'-0"x10'-0" CONCRETE EQUIPMENT PAD WITH STEEL CANOPY ABOVE

50kw DIESEL

PROPOSED VERIZON CABLE BRIDGE

PROPOSED GRAVEL PARKING (ONE VEHICLE)

EXISTING SEPTIC TANK

EXISTING BUILDING

EXISTING PROPANE TANKS (TYP.)

PROPOSED PIPE BOLLARDS (TYP.)

PROPOSED MESA CABINET/VAULT WITH DEDICATED 4" TELCO CONDUIT FROM STREET

PROPOSED PIPE BOLLARD (TYP.)

EXISTING CATCH BASIN

C.B

PROPOSED SIGNAGE ON GATE, SEE 2/C-5 FOR DETAIL

PROPOSED E/T SERVICES ROUTED UNDERGROUND; REFER TO C-1 FOR CONTINUATION

2 C-4

EXISTING CLEANOUT

FUTURE 20'-0"x10'-0" EQUIPMENT AREA

FUTURE 10'-0"x10'-0" MUNICIPAL AREA

87'-0"±

24'-0"±

11'-0"±

27'-0"±

30'-0"±

20'-0"±

NOTE: RETAINING WALL LAYOUT, HEIGHT AND DETAILS ARE PRELIMINARY AND WILL BE FINALIZED UPON ZONING APPROVAL.

1 C-3 ENLARGED SITE PLAN

Scale: 3/16" = 1'-0"

0' 4' 8' 12' 24'

Scale: 3/16" = 1'=0'

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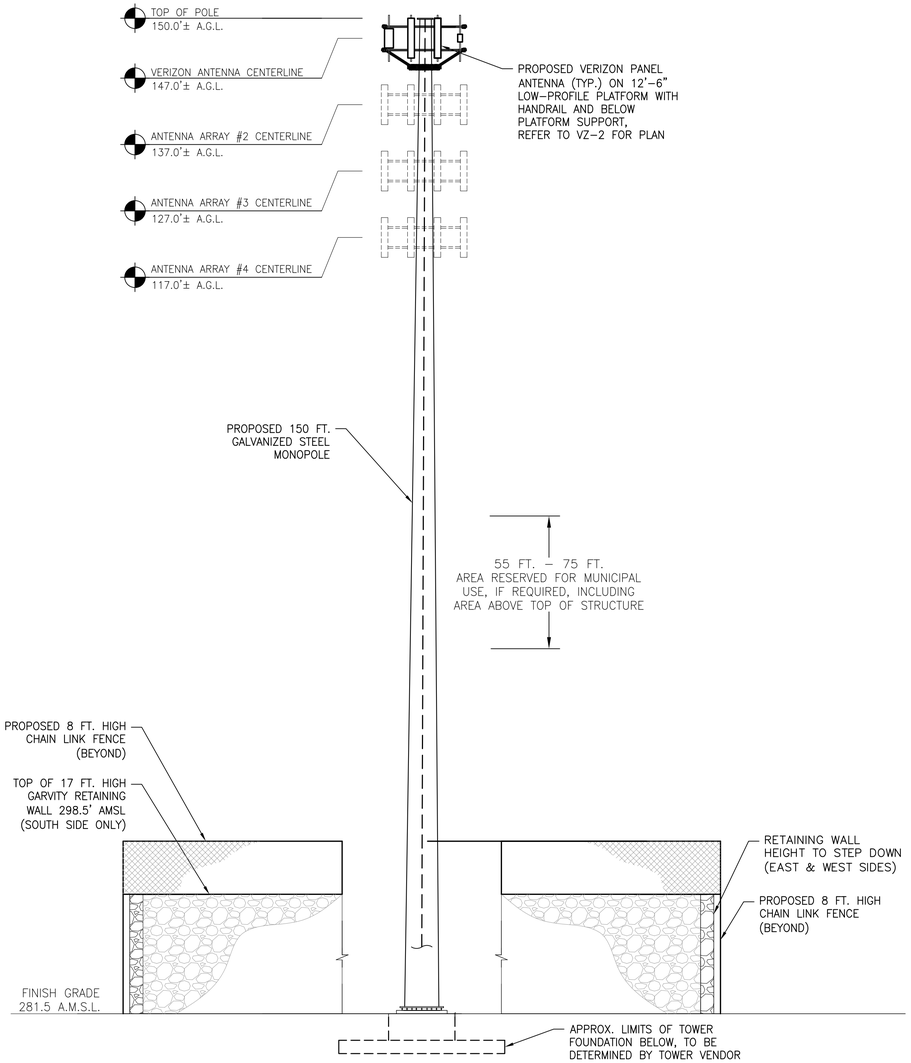
73 ROUTE 9
TOWN OF FISHKILL, NY 12524

DRAWING TITLE:

ENLARGED SITE PLAN

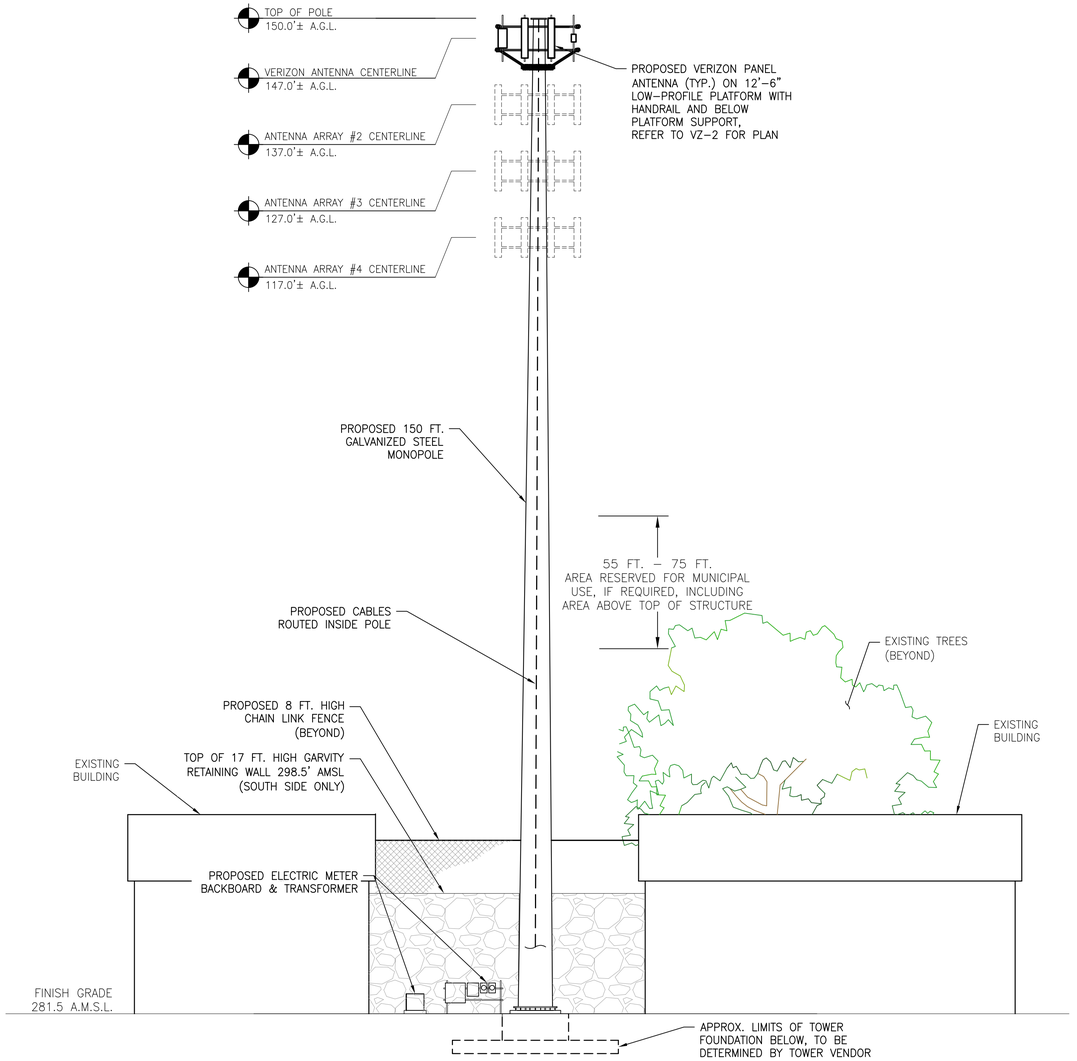
SHEET NUMBER:

C-3



1 C-4 NORTH ELEVATION
Scale: 3/32" = 1'-0"

0 5 10 20
Scale: 3/32" = 1'-0"



2 C-4 EAST ELEVATION
Scale: 3/32" = 1'-0"

0 5 10 20
Scale: 3/32" = 1'-0"

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73 ROUTE 9
TOWN OF FISHKILL, NY 12524

DRAWING TITLE:
ELEVATIONS

SHEET NUMBER:
C-4

SITE NOTES:

1. ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS.
2. RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
3. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
4. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND, FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
5. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
6. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTIC, 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.
7. 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 ENGINEERING.
8. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK SHALL BE GRADED TO A UNIFORM SLOPE, FERTILIZED, SEEDED, AND COVERED WITH MULCH.
9. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR SEDIMENT AND EROSION CONTROL.
10. ALL RESTORATION ISSUES SHALL BE COMPLETED WITHIN 72 HOURS OF THE COMPLETION OF THE WORK ACTIVITY OR WITHIN A REASONABLE AMOUNT OF TIME AS DIRECTED BY THE CONSTRUCTION MANAGER/ ENGINEER.
11. CARE SHALL BE TAKEN TO RETAIN NATURAL GROWTH AND PREVENT DAMAGE TO TREES, WITHIN AND OUTSIDE THE LIMITS OF CONSTRUCTION AND SPECIFIED WORK AREAS, CAUSED BY EQUIPMENT AND MATERIALS. ANY DAMAGE TO THIS NATURAL GROWTH SHALL BE RESTORED AT THE EXPENSE OF THE CONTRACTOR.
12. ALL AREAS DISTURBED BY THE CONTRACTOR WITHOUT AUTHORIZATION SHALL BE RESTORED BY THE CONTRACTOR.
13. IN THE EVENT THE CONTRACTOR DAMAGES AN EXISTING UTILITY SERIVCE CAUSING AN INTERUPPTION IN SAID SERVICE, HE SHALL IMMEDIATELY COMMENCE WORK TO RESTORE SERVICE AND MAY NOT CONTINUE HIS WORK OPERATION UNTIL SERIVCE IS RESTORED.

SEEDING SPECIFICATIONS:

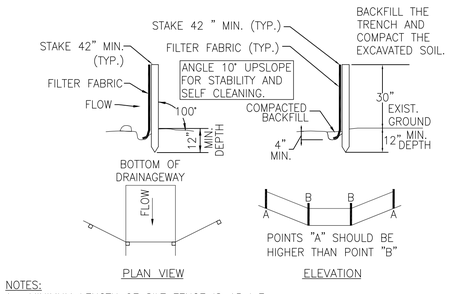
A. IF GROUND HAS BEEN PREVIOUSLY MULCHED, MULCH MUST BE REMOVED OR ADDITIONAL NITROGEN MUST BE ADDED.
B. REMOVE ALL SURFACE STONES 2" OR LARGER AS WELL AS ALL DEBRIS SUCH AS WIRE, CABLE, TREE ROOTS, PIECES OF CONCRETE, CLODS, CLUMPS, OR OTHER UNSUITABLE MATERIAL.
C. APPLY FERTILIZER AT 7.5 POUNDS PER 1,000 SQUARE FEET AND LIME AT 200 POUNDS PER 1,000 SQUARE FEET UNLESS SOIL TESTING FOR REQUIREMENTS IS PERFORMED.
D. NO MOWING IS TO BE UNDERTAKEN UNTIL THE MAJORITY OF THE VEGETATION IS AT LEAST 6" HIGH. MOWING SHOULD CUT THE TOP 1/3 OF VEGETATION. DO NOT UNDER ANY CIRCUMSTANCES CUT VEGETATION BELOW 3".
E. DO NOT APPLY ANY FORM OF WEED CONTROL UNTIL GRASS HAS BEEN MOWED AT LEAST 4 TIMES.
F. THESE SEEDING MEASURES ARE NOT TO BE USED ON SLOPES IN EXCESS OF 2:1 GRADING.
G. PERMANENT SEEDING MEASURES ARE TO BE USED INSTEAD OF TEMPORARY SEEDING MEASURES WHERE WORK IS TO BE SUSPENDED FOR A PERIOD OF TIME LONGER THAN 1 YEAR.
H. IF THERE IS NO EROSION, BUT SEED SURVIVAL IS LESS THAN 100 PLANTS PER SQUARE FOOT AFTER 4 WEEKS OF GROWTH, RE-SEED AS PLANTING SEASON ALLOWS.
I. ALL DISTURBED AREAS OUTSIDE THE PAVEMENT AREA SHALL BE LOAMED AND SEEDED IN ACCORDANCE WITH THE SUGGESTED SEEDING MIXTURES TABLE.

SILT FENCE SPECIFICATIONS:

A. SYNTHETIC FILTER FABRIC SHALL BE A PERVIOUS SHEET OF PROPYLENE, NYLON, POLYESTER, ETHYLENE, OR SIMILAR FILAMENTS AND SHALL BE CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE FOLLOWING MINIMUM REQUIREMENTS:

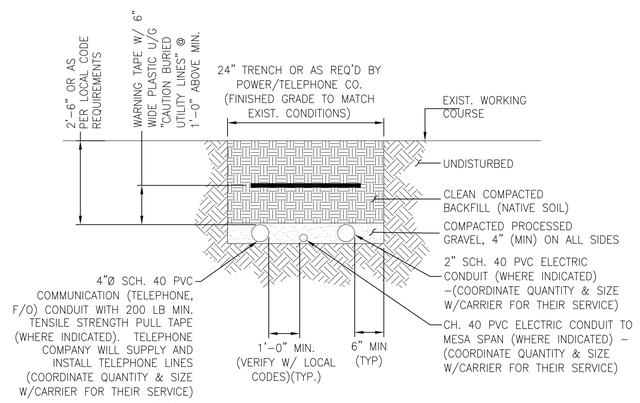
1.	FILTERING EFFICIENCY	75 PERCENT (MIN)
2.	GRAB TENSILE STRENGTH	100 POUNDS
3.	ELONGATION AT FAILURE	15 PERCENT
4.	MULLEN BURST STRENGTH	250 POUNDS PER SQUARE INCH
5.	PUNCTURE STRENGTH	50 POUNDS
6.	APPARENT OPENING SIZE	0.60mm< X <0.90mm
7.	FLOW RATE	0.2 GALLONS PER SQUARE FOOT PER MINUTE
8.	PERMITTIVITY	0.05 PER SECOND (MIN)
9.	ULTRAVIOLET RADIATION STABILITY	70 PERCENT AFTER 500 HOURS OF EXPOSURE (MIN).

B. STAKES ARE TO BE MADE OUT OF HARDWOOD WITH A MINIMUM CROSS SECTIONAL AREA OF 1.5 SQUARE INCHES OR STEEL POSTS WITH A MINIMUM WEIGHT OF 0.5 POUNDS PER LINEAR FOOT.
C. TORN OR PUNCTURED GEOTEXTILES SHALL NOT BE USED. ON SLOPES WHERE SURFACE FLOW FOLLOWS THE SILT FENCE LINE, PERPENDICULAR SILT FENCE CHECKS SHALL BE INSTALLED AT 50 FOOT INTERVALS.
D. LINES OF SILT FENCE SHOULD FOLLOW CONTOUR LINES 5-10 FEET DOWN GRADIENT FROM THE SLOPE. WHERE CONTOUR LINES CAN NOT BE FOLLOWED PERPENDICULAR WINGS SHOULD BE PLACED AT 50 FOOT INTERVALS.

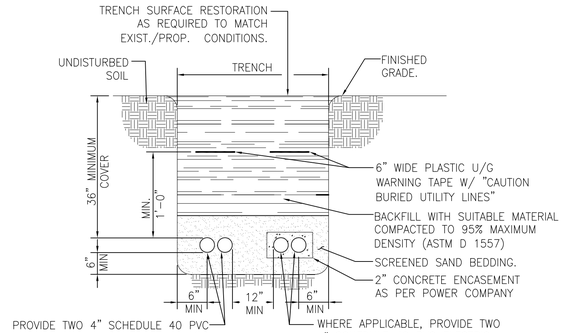


NOTES:
1. MINIMUM LENGTH OF SILT FENCE IS 15 L.F.
2. MAXIMUM POST SPACING IS 10 L.F.
3. JOINTS ONLY AT SUPPORT POST WITH MINIMUM 6" OVERLAP, SECURELY SEALED.
4. SEDIMENTATION DEPOSITS SHALL BE REMOVED WHEN THEY REACH 1/2 THE HEIGHT OF THE SILT FENCE.
5. SILT FENCE SHALL NOT BE USED IN A WATER COURSE.
6. UPON ESTABLISHMENT OF GROUND COVER ON DISTURBED AREAS, AND WHEN DIRECTED BY THE ENGINEER, FENCE WILL BE REMOVED AND ANY SEDIMENTATION WILL BE THINLY SPREAD UPON EXISTING GROUND COVER.

1 C-5 SILT FENCE DETAILS
Scale: N.T.S.

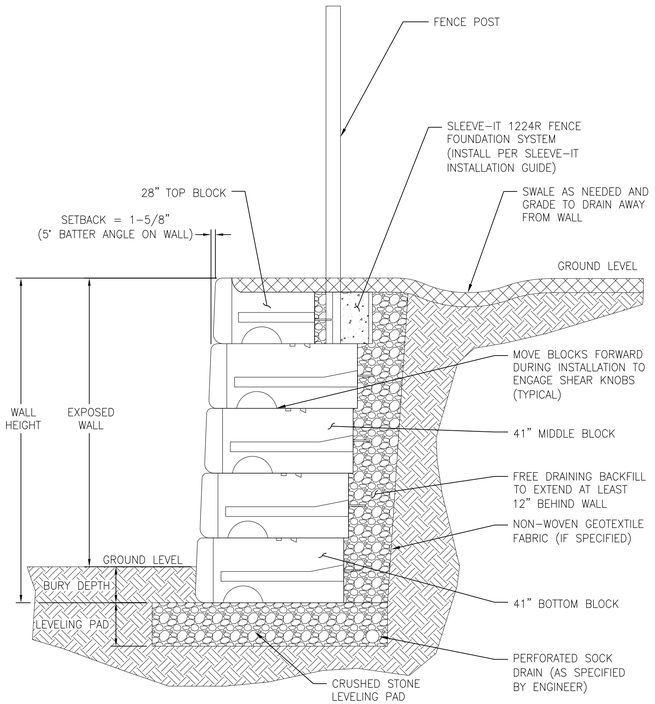


2 C-5 SECONDARY TRENCH DETAIL
Scale: N.T.S.



NOTES:
1. THE CLEAN FILL SHALL PASS THROUGH A 3/8" MESH SCREEN AND SHALL NOT CONTAIN SHARP STONES. OTHER BACKFILL SHALL NOT CONTAIN ASHES, CINDERS, SHELLS, FROZEN MATERIAL, LOOSE DERBIES OR STONES LARGER THAN 2" IN MAXIMUM DIMENSION. WHERE EXISTING UTILITIES ARE LIKELY TO BE ENCOUNTERED.
2. CONTRACTOR SHALL HAND DIG AND PROTECT EXISTING UTILITIES.
3. EXISTING PAVEMENT SHALL BE SAW-CUT PRIOR TO TRENCH EXCAVATION.

3 C-5 PRIMARY UTILITY TRENCH
Scale: N.T.S.



NOTE: RETAINING WALL LAYOUT, HEIGHT AND DETAILS ARE PRELIMINARY AND WILL BE FINALIZED UPON ZONING APPROVAL.

4 C-5 GRAVITY RETAINING WALL DETAIL
Scale: N.T.S.

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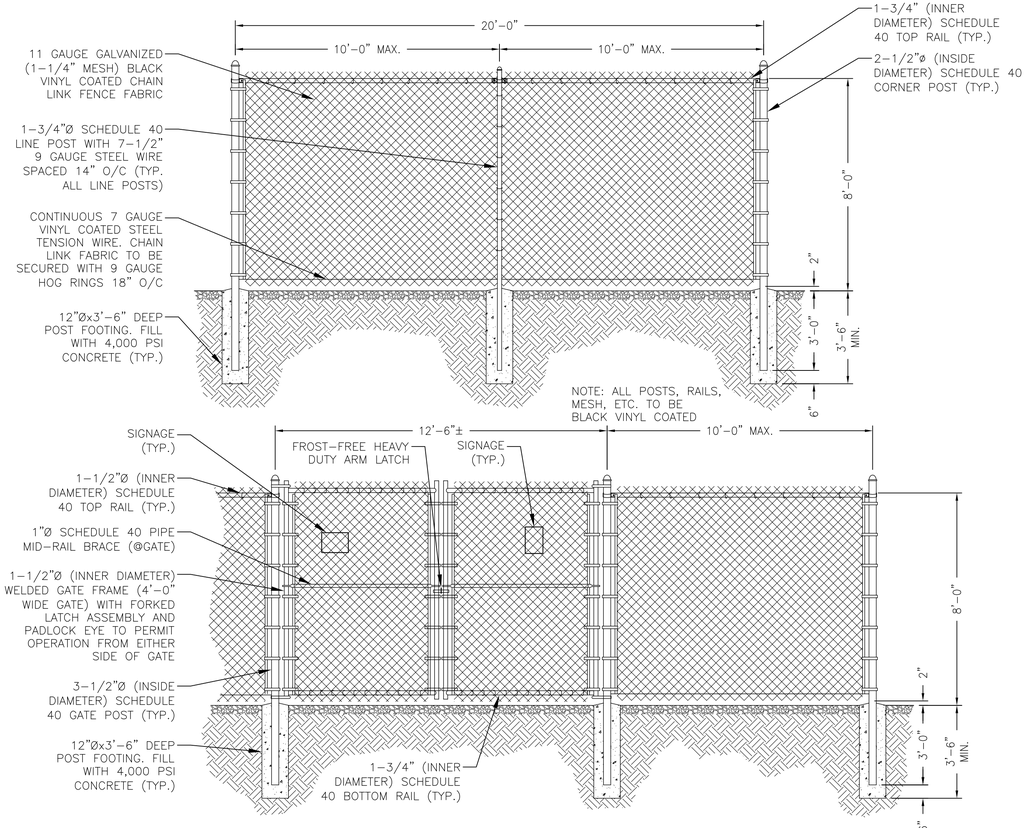
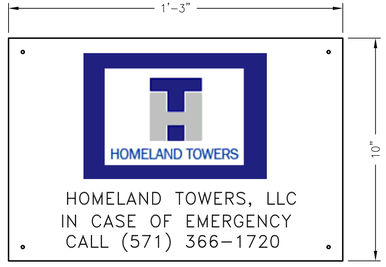
DRAWING TITLE:
CIVIL NOTES & DETAILS

SHEET NUMBER:
C-5



1 C-6 **CHAIN LINK FENCE AND ACCESS GATE DETAIL**
Scale: N.T.S.



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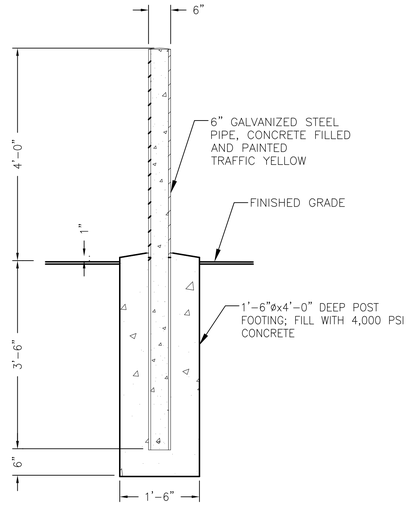
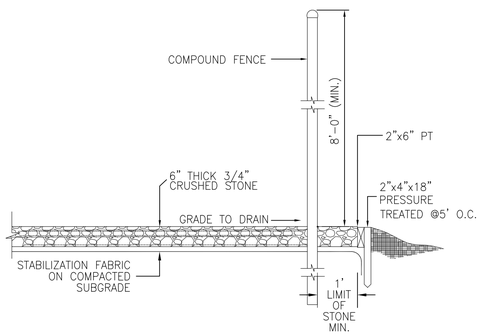
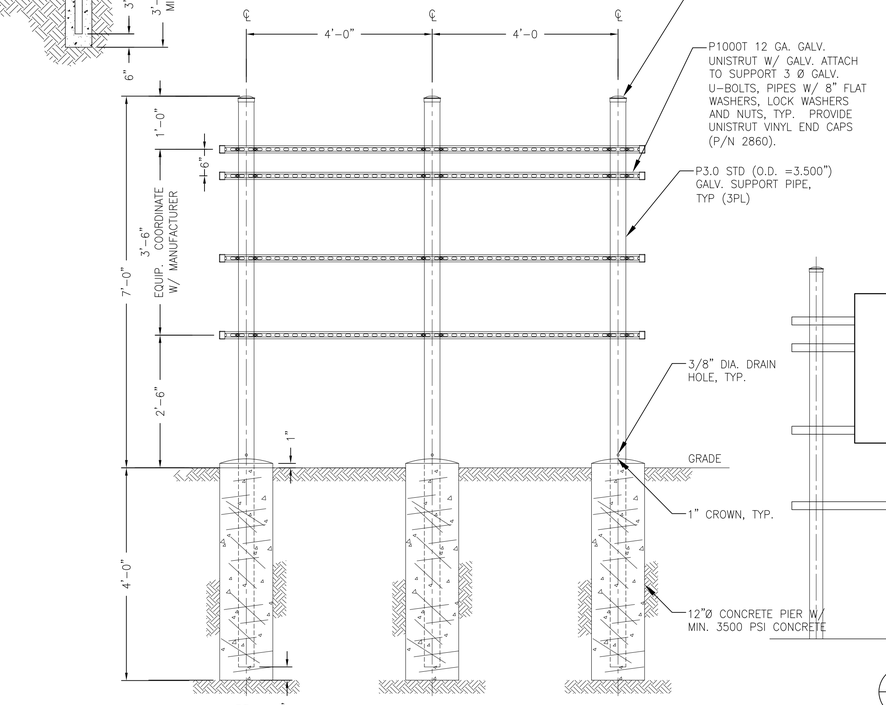
2 C-6 **OWNER SIGNAGE**
Scale: N.T.S.



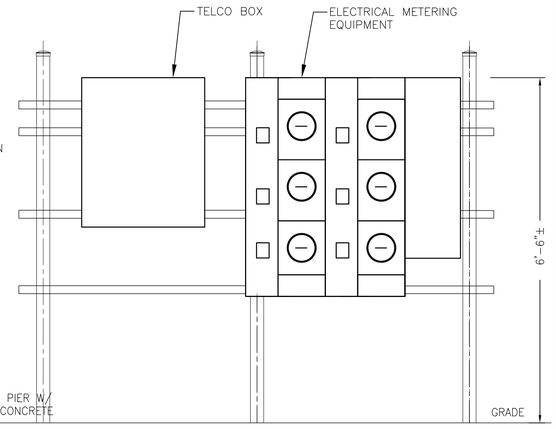
3 C-6 **PIPE BOLLARD DETAIL**
Scale: N.T.S.



4 C-6 **COMPOUND DETAIL**
Scale: N.T.S.



5 C-6 **UTILITY BACKBOARD FRAME DETAIL**
Scale: 3/4"=1'-0"



6 C-6 **UTILITY RACK ELEVATION**
Scale: 3/4"=1'-0"

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LICENSURE

STATE OF NEW YORK · DAVID WEINPAHL · No. 078901 · LICENSED PROFESSIONAL ENGINEER

DAVID WEINPAHL, P.E.
NY LIC NO. 078901

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2	04.04.24	REVISED PER TOWN COMMENTS
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DRAWN BY:	CHECKED BY:
MF	DW

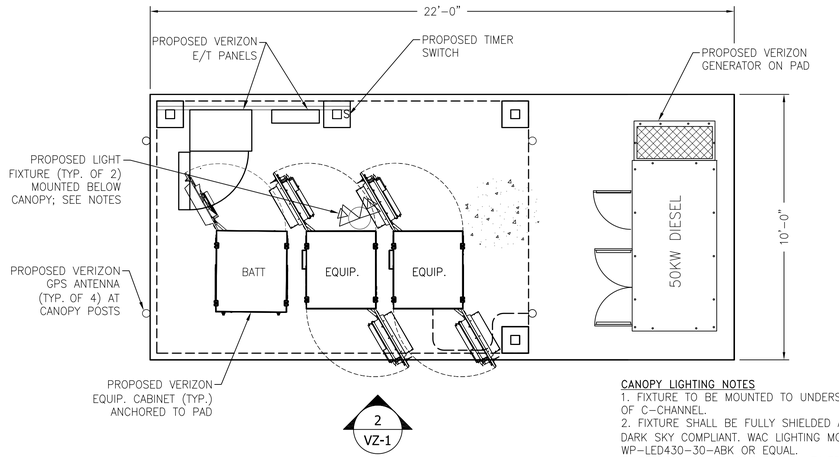
HOMELAND TOWERS SITE ID:
NY057
WEISE POND

VERIZON SITE NAME:
WEISE POND

PROJECT ADDRESS:
LISIKATOS REALTY CORP.
73 ROUTE 9
TOWN OF FISHKILL, NY 12524

DRAWING TITLE:
FENCE & MISC. DETAILS

SHEET NUMBER:
C-6



2 VZ-1

1 VZ-1 EQUIPMENT PLAN

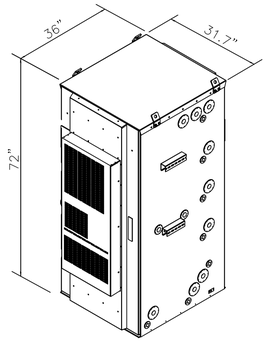
Scale: 3/8" = 1'-0"

0 2 4 6

Scale: 3/8" = 1'-0"

CANOPY LIGHTING NOTES

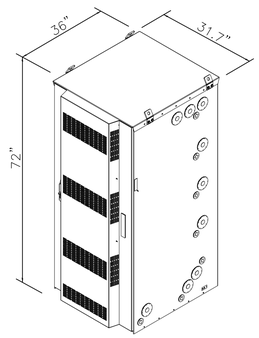
1. FIXTURE TO BE MOUNTED TO UNDERSIDE OF C-CHANNEL.
2. FIXTURE SHALL BE FULLY SHIELDED AND DARK SKY COMPLIANT. WAC LIGHTING MODEL# WP-LED430-30-ABK OR EQUAL.
3. CONTROL ON 4-HOUR MANUAL TIMER SWITCH BY LEVITON OR EQUAL. LOCATE SWITCH ADJACENT TO PANELBOARD.



DELTA BATTERY CABINET				
HEIGHT	WIDTH	DEPTH	WEIGHT	COLOR
72"	31.7"	36"	2,500 LBS	GREY

4 VZ-1 BATTERY CABINET

Scale: N.T.S



DELTA EQUIPMENT CABINET				
HEIGHT	WIDTH	DEPTH	WEIGHT	COLOR
72"	31.7"	36"	800 LBS	GREY

5 VZ-1 EQUIPMENT CABINET

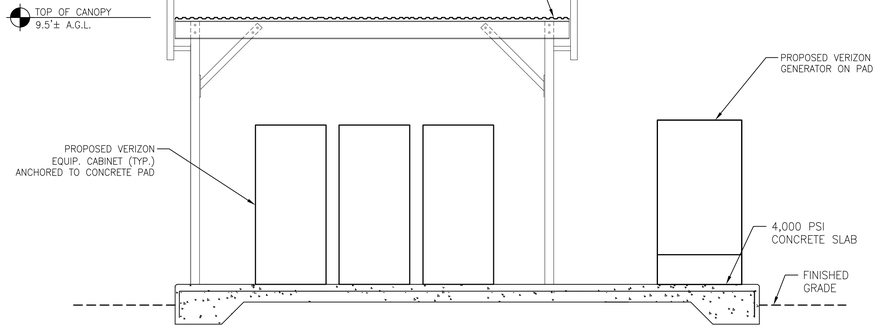
Scale: N.T.S

GENERAC GENERATOR SPECIFICATIONS					
MODEL #	LENGTH	WIDTH	HEIGHT	WEIGHT	COLOR
SD050	94.8"	38.0"	74.5"	2,996 LBS	GREY W/ BLACK TANK

1. DIMENSIONS INCLUDE A 132 GALLON BASE TANK AND LEVEL 2 SOUND ATTENUATED ENCLOSURE
2. IMAGE SHOWS LARGER BASE TANK THAN PROPOSED

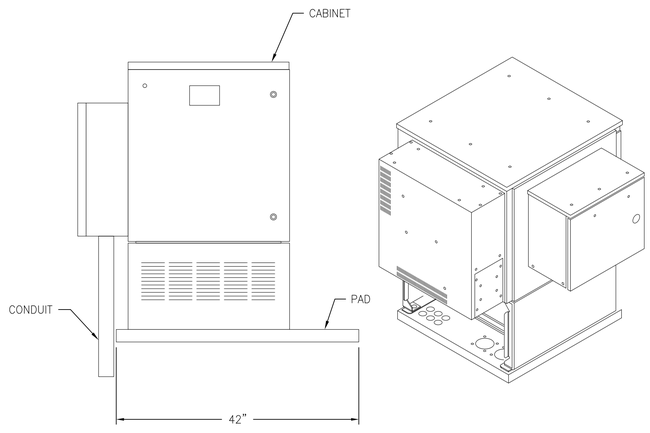
6 VZ-1 GENERATOR DETAIL

Scale: N.T.S.



2 VZ-1 EQUIPMENT PAD ELEVATION

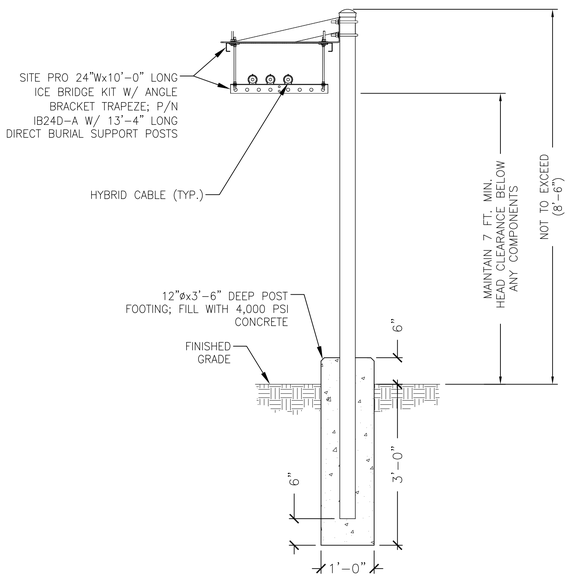
Scale: 3/8" = 1'-0"



MESA TELCO CABINET				
HEIGHT	WIDTH	DEPTH	WEIGHT	COLOR
46.1"	39.4"	36.4"	220 LBS	OFF-WHITE

3 VZ-1 MESA TELCO CABINET DETAILS

Scale: N.T.S.



7 VZ-1 CABLE BRIDGE DETAIL

Scale: N.T.S.

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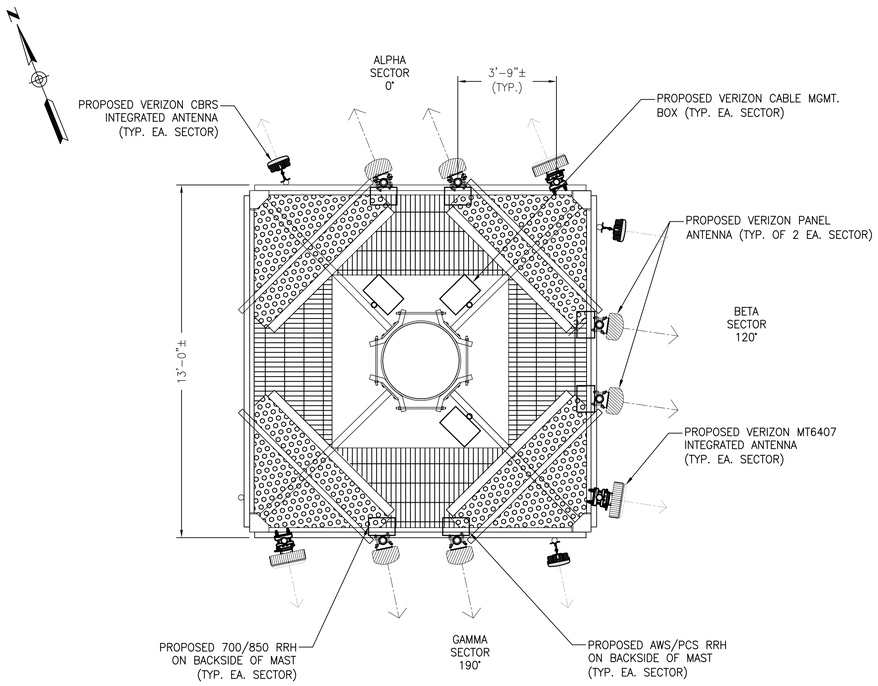
DRAWING TITLE:

VERIZON EQUIPMENT PLAN & DETAILS

SHEET NUMBER:

VZ-1



NOTES TO ANTENNA PLAN:
1. ANTENNA LOW-PROFILE PLATFORM NOTED IS BASED ON ANDREW-COMMSCOPE MODEL #MTC3432 INCLUDING HANDRAIL AND BELOW PLATFORM SUPPORT; DESIGNED TO SUPPORT UP TO (16) MAST POSITIONS.
2. CONTRACTOR SHALL SET ALPHA PLATFORM FACE AT 110° AZIMUTH.

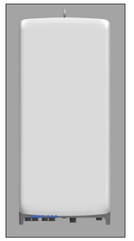
1 VZ-2 ANTENNA PLAN @ 147 FT. A.G.L.
Scale: 3/8" = 1'-0"

NOTES:
1. ANTENNAS AND EQUIPMENT ARE SUBJECT TO CHANGE BASED ON AVAILABILITY AT TIME OF CONSTRUCTION.
2. ANTENNA SECTOR DESIGNATIONS ARE PRELIMINARY AND SUBJECT TO CHANGE PER VERIZON REQUIREMENTS.

0 2 4 6
Scale: 3/8" = 1'-0"

NHH-65B-R2B ANTENNA SPEC.				
HEIGHT	WIDTH	DEPTH	WEIGHT	COLOR
72.0"	11.9"	7.1"	43.7 LBS	GREY

2 VZ-2 'NHH' ANTENNA SPEC.
Scale: N.T.S.

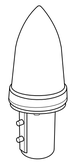


MT6407 INTEGRATED ANTENNA SPEC.				
HEIGHT	WIDTH	DEPTH	WEIGHT	COLOR
35.12"	16.06"	5.5"	79.4 LBS	GREY

3 VZ-2 MT6407 ANTENNA SPEC.
Scale: N.T.S

CBRS INTEGRATED ANTENNA SPEC.				
HEIGHT	WIDTH	DEPTH	WEIGHT	COLOR
12.1"	8.5"	4.1"	18.6 LBS	GREY

4 VZ-2 CBRS ANTENNA SPEC.
Scale: N.T.S



KS-24119L-112A GPS ANTENNA SPEC.			
HEIGHT	WIDTH	DIAMETER	WEIGHT
5"	16.06"	3.17"	0.6 LBS

*ALL MOUNTING OPTIONS FIT PIPES OF 1"-1.45" MAX. DIA.

5 VZ-2 GPS ANTENNA DETAIL
Scale: N.T.S

SAMSUNG RRH AWS/PCS ORAN SPECIFICATION				
HEIGHT	WIDTH	DIAMETER	WEIGHT	COLOR
15"	15"	10"	74.7 LBS	GREY

6 VZ-2 RRH DETAIL - AWS/PCS
Scale: N.T.S

SAMSUNG RRH 700/850 ORAN SPECIFICATION				
HEIGHT	WIDTH	DIAMETER	WEIGHT	COLOR
15"	15"	9.1"	70.3 LBS	GREY

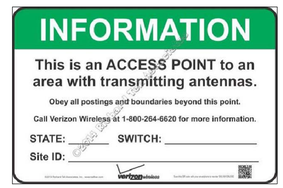
7 VZ-2 RRH DETAIL - 700/850
Scale: N.T.S

RVZDC-6627-PF-48 'OVP' SPECS.				
HEIGHT	WIDTH	DIAMETER	WEIGHT	COLOR
29.5"	16.5"	12.6"	32 LBS	GREY

8 VZ-2 CABLE DIST. BOX DETAIL
Scale: N.T.S

NOTE:
1. "YELLOW" CAUTION SIGN SHALL BE LOCATED AT COMPOUND ENTRY LOCATION AND VERIZON EQUIPMENT.
2. SIGN MEASURES 12"Hx8"W

9 VZ-2 CAUTION SIGN
Scale: N.T.S



NOTE:
1. "GREEN" INFORMATION SIGN SHALL BE LOCATED AT COMPOUND ENTRY LOCATION AND VERIZON EQUIPMENT.
2. SIGN MEASURES 12"Wx8"H

11 VZ-2 VERIZON INFORMATION SIGN
10

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DRAWING TITLE:
ANTENNA PLAN & VERIZON EQUIP. SPECS

SHEET NUMBER:
VZ-2