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January 22, 2019

Via Federal Express and Email

City of Beacon Common Council 1 Municipal Plaza Beacon, New York 12508

RE: Application of Orange County-Poughkeepsie Limited Partnership d/b/a Verizon Wireless –110 Howland Avenue

Dear Mayor Casale and Members of the City Council

Please accept this letter as Verizon Wireless' response to the comments provided in the John Clarke Planning and Design January 11, 2019 letter in connection with the above referenced application. For ease of reference, Mr. Clarke's comments have been provided below in their entirety followed by our responses.

1. The Special Permit Application and Site Plan identify the parcel as in the R1-20 zoning district, but it is actually in the R1-40 district.

Response: The enclosed plans have been corrected to include the correct zoning district.

2. Short EAF question 3.a states the site acreage is 6 acres, but the Dutchess County Parcel Access lists the lot size as 4.359 acres. The form should also attach DEC's EAF Mapper to confirm some of the answers.

<u>Response</u>: The revised Short EAF has been revised and now includes the DEC EAF Mapper.

3. Sections 223-24.5 D(1)(a) and D(3) of the Zoning Code include as locational priorities that new facilities should be attached to a City-owned or existing structure, wherever possible. The application's Site Selection Analysis contains no specific information on consideration of alternative sites. Only two are listed as possibilities, both on the proposed property. For example, there is a City of Beacon water tower only 800 feet to the south that could have been investigated. The application should include a more detailed explanation of alternative properties (see also Section 223-24.5 R(4)).

Response: We question whether the references to Section 223-24.5 are correct. Although Section 223-24.5 of the Zoning Law regulates wireless telecommunications facilities, we note that in August, 2018, the City Council enacted Local Law 13 of the Year 2018 which created section 223-26.4, which specifically purports to regulate small cell facilities. Moreover, Section 223-26.4 establishes specific location priorities for small cells that differ from Section 223-24.5. The City Council intended to have small cell facilities exempt from Section 223-24.5 and, instead regulated by Section 223-26.4.

That said, the Site Selection Analysis included with the Radio Frequency Analysis confirms that the new regulations governing small cell facilities was reviewed and it was determined that no city owned or higher priority sites existing in the area that are suitable for collocation. The analysis also provides that:

"[a]s is the case with other micro sites the search area provided to Site Acquisition (SACQ) by RF Engineering is relatively limited in size which in turn limits the number of potential candidates, in this case there were two. Due to the small nature of the target area, coordination with other sites in design, interest in maximizing site capabilities while limiting the number of solutions required limits the areas where this site will work...."

We asked the Verizon Wireless RF Engineer to comment on the viability of using the water tank in place of the new wooden utility pole. As set forth in greater detail in the supplemental RF letter enclosed herewith, the water tank is not a viable candidate for collocation since it will provide significantly less coverage (approximately 50% less) compared to the proposed facility.

4. If this property is determined to be the only or best viable option, why is the tower not located farther back on the site, closer to the tree line where it could be better screened from the immediate neighbors? It is instead placed directly next to a residential building and parking lot in full view of the houses just to the south, one of which is listed as The Swann Inn of Beacon, a tourist-oriented bed and breakfast originally built in the 1860s.

Response: The proposed utility pole is not located directly next to the Swann Inn of Beacon. According to Google Earth Pro, the proposed utility pole is located

approximately 215' from the Swann Inn of Beacon. More importantly, the proposed pole will be a wooden utility pole similar to the existing utility poles that are located much closer to the Swann Inn of Beacon and the other nearby residences. See, enclosed photograph that was included in the original application that shows an existing utility pole/line. The existing utility pole/line is much closer to the referenced residences. Although the proposed pole is taller than the existing utility poles, it is hard to imagine how the proposed pole is considered more objectionable than the existing utility poles. The photosimulations previously provided clearly demonstrate how well the proposed pole blends in with the environment.

The purpose of installing the small cell facility at the edge of the Beyond Disability parking lot is to limit the improvements to those necessary for the facility. For example, relocating the pole back further on the site will require the installation of a gravel driveway for access. Utilities will also need to be extended back to the small cell facility. Verizon Wireless does not believe the additional development and associated impacts are necessary, especially considering the minor nature of the installation as currently proposed. Small cell facilities are intended to have limited footprints and without excessive improvements such as access roads and extended utilities pathways.

Finally, Verizon Wireless proposes to install fencing around the small cell facility in the same style as that which currently surrounds the existing dumpsters on the property. This will help screen a portion of the facility from neighboring properties.

5. The visible area identified in the Key Map of the Visual Analysis should include 53-60 Chiusano Drive. One of the photographs at the end of the application packet clearly shows that the tower site will be visible from this adjacent house to the south.

<u>Response</u>: Tectonic Engineering has revised to the viewshed map slightly to include additional visible area (shaded green) just south west of the house in question.

6. The Site Plan in the application should propose landscaping and/or screening to minimize the visual impacts from surrounding properties, consistent with Section 223-24.5 G.

Response: Based on the minor nature of the proposal (as demonstrated by the photosimulations previously provided), including the installation of the white fence surrounding the small cell facility, Verizon Wireless does not believe that the proposal results in any significant visual impacts that require mitigation with landscaping or otherwise.

7. The Site Plan should show the setback distances from the tower to the residential building on the site and to the surrounding property lines, meeting the setback requirements in 223-24.5 E.

<u>Response</u>: The enclosed plans have been revised to include the requested information.

Very truly yours,

Scott P. Olson, Esq.

Enclosures

verizon

PROJECT NO.: 20161509173

SITE NAME:

HOWLAND MICRO



48 HOURS PRIOR TO DIGGING, CONTRACTOR TO NOTIFY ALL UTILITY COMPANIES TO LOCATE ALL UNDERGROUND UTILITIES.

Know what's below. Call before you dig.

DRAWING INDEX DESCRIPTION SHEET TITLE SHEET SITE PLAN Z-1 OVERALL SITE PLAN POLE ELEVATION, DETAILS & NOTES Z-4 DETAILS & NOTES

CODE COMPLIANCE

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

- IBC2015 WITH LATEST NEW YORK STATE AMENDMENTS NFPA 70-14 (NEC 2014) TIA-222-G-05 WITH LATEST ADDENDA

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START AT 1275 JOHN ST. GO STRAIGHT (NE) ON JOHN ST. IN 0.61 MI TURN RIGHT (E) ON TO BAILEY RD. IN 1.03 MI TURN RIGHT (SSW) ON TO SR 15 (W HENRIETTA RD). IN 1.04 MI TURN LEFT (E) ON TO LEHIGH STATION RD. IN 0.49 MI TURN RIGHT (SSW) ON TO 1-390 S RAMP. IN 0.27 MI KEEP RIGHT (SW) ON TO 1-90 E (NEW YORK STATE THWY) RAMP 12B. 10.5.7 MI KEEP LEFT (E) ON 1-90 E (NEW YORK STATE THWY) RAMP. IN 72.90 MI KEEP RIGHT (N) ON TO 1-690 E RAMP. 39. IN 0.92 MIKEEP RIGHT (ESE) ON 1-690 E RAMP. IN 8.91 MI KEEP RIGHT (SSE) ON TO 1-91 S RAMP 13. IN 76.37 MI KEEP LEFT (ESE) ON TO SR 17 RAMP 2E. IN 113.42 MI KEEP RIGHT (ENE) ON TO 1-84 E RAMP 121. IN22.57 MI KEEP RIGHT (E) ON TO SR 90 (NORTH RD) RAMP 11. IN 0.21 MI TURN RIGHT (SSW) ON TO SR 90 (NORTH RD) RAMP 11. IN 0.21 MI TURN RIGHT (SSW) ON TO SR 90 (NORTH RD) RAMP 11. IN 0.21 MI TURN RIGHT (SSW) ON TO SR 90 (NORTH RD) ROMP 11. IN 0.21 MI TURN RIGHT (SSW) ON TO SR 90 (NORTH RD) ROMP 11. IN 0.21 MI TURN RIGHT (SSW) ON TO SR 90 (NORTH RD) ROMP 11. IN 0.21 MI TURN RIGHT (SSW) ON TO SR 90 (WOLCOTT AVE). IN 0.49 MI KEEP LEFT (SE) ON TO BEEKMAN ST 1.57 MI. IN 0.20 MI GO STRAIGHT (ESE) ON TO SR 90 (WOLCOTT AVE). IN 1.11 MI TURN LEFT (ENE) ON TO HOWLAND AVE. IN 0.26 MI FINISH AT 110 HOWLAND AVE, BEACON, NY. 05:22:36 302.11 MI.

PROJECT INFORMATION

SITE TYPE: UTILITY POLE SITE NAME: HOWLAND MICRO SITE ADDRESS: 110 HOWLAND AVENUE BEACON, NY 12508 DUTCHESS COUNTY:

ZONING DISTRICT: R1-40 COORDINATES: LATITUDE: 41° 29' 40.66" N (NAD 83) LONGITUDE: 73° 57' 19.85" W (NAD 83)

GROUND ELEVATION: 251± A.M.S.L. (NAVD88) PROPERTY OWNER: ABILITY BEYOND DISABILITY

4 BERKSHIRE BLVD. BETHEL, CT 06801

APPLICANT: ORANGE COUNTY

POUGHKEEPSIE LIMITED PARTNERSHIP

VERIZON WIRELESS 1275 JOHN ST. SUITE 100

WEST HENRIETTA NY 14586

SUITE 100 WEST HENRIETTA NY 14586

EBI ENGINEERING PC

21 B Street | Burlington, MA 01803 Tel: (781) 273-2500 | Fax: (781) 273-3311 www.ebiconsulting.com



Kelly Shah

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ENGINEER STAMP/SIGNATURE

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EBI JOB NO: 8118000249

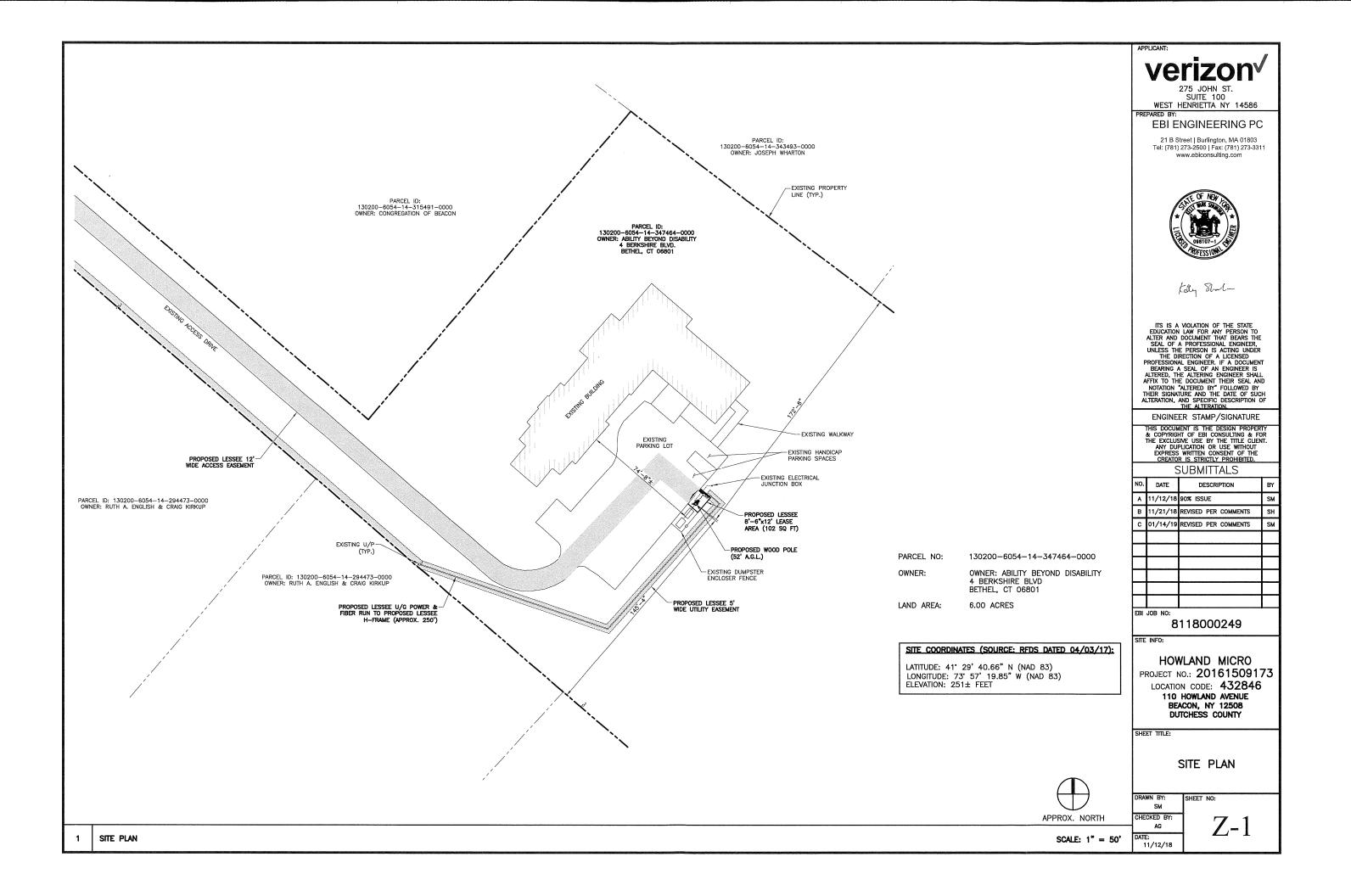
HOWLAND MICRO PROJECT NO.: 20161509173

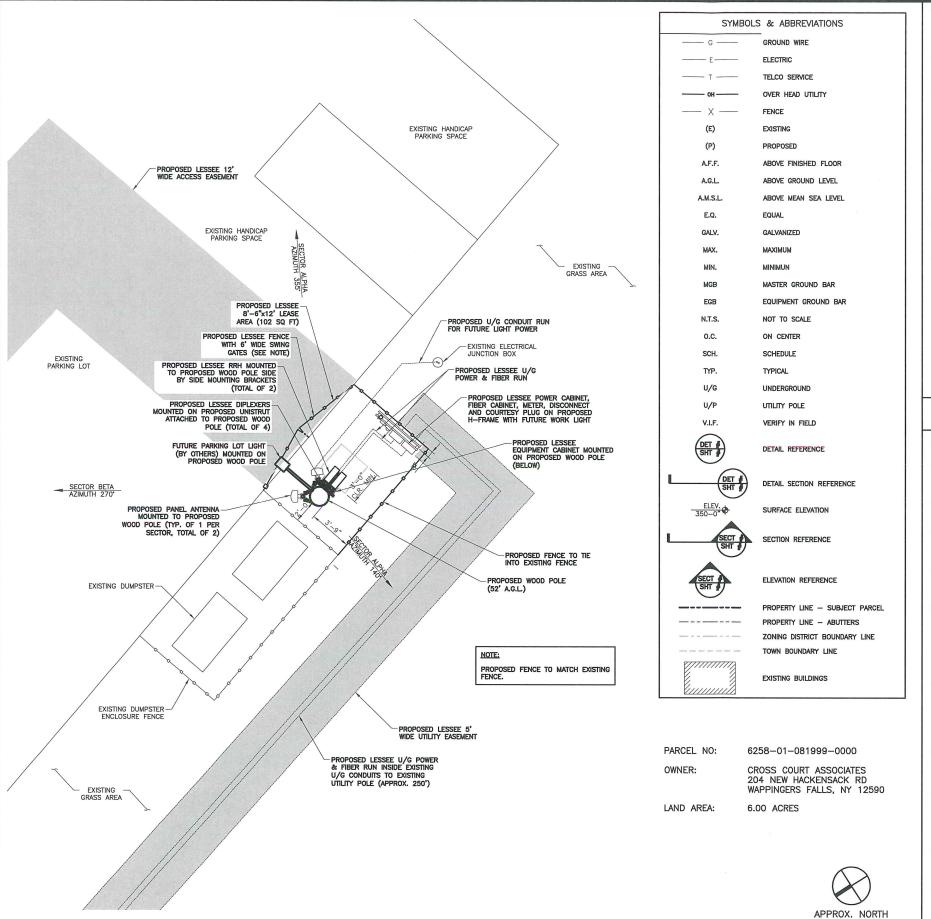
LOCATION CODE: 432846 110 HOWLAND AVENUE BEACON, NY 12508 DUTCHESS COUNTY

SHEET TITLE:

TITLE SHEET

SHEET NO: SM 1 - |





 THE PROJECT CONCERNS THE INSTALLATION/OPERATION AND MAINTENANCE OF AN UNMANNED PUBLIC UTILITY/PERSONAL WIRELESS SERVICE FACILITY.

 THE PROPOSED DEVELOPMENT IS UNMANNED AND DOES NOT REQUIRE A MEANS OF WATER SUPPLY OR SEWAGE DISPOSAL, OR HANDICAPPED ACCESS.

 THE PROPOSED DEVELOPMENT IS MINIMAL, AND WILL CREATE NEGLIGIBLE ADDITIONAL STORMWATER RUNOFF AND WILL THEREFORE NOT IMPACT THE EXISTING STORMWATER DRAINAGE SYSTEM.

- THE PROPOSED DEVELOPMENT DOES NOT INCLUDE OUTDOOR STORAGE, ANY SOLID WASTE RECEPTACLES, OR PLUMBING.
- ADEQUATE PARKING EXISTS FOR ONE VEHICLE FOR MAINTENANCE OR EMERGENCY SERVICE ONCE A MONTH.
- THERE ARE NO NEW STREETS, CURBS, SIDEWALKS OR WALKWAYS PROPOSED.
- 7. THERE ARE NO COMMERCIAL SIGNS PROPOSED FOR THIS INSTALLATION.
- 8. EXISTING UTILITIES (LOCATION, SIZES AND INVERTS) SHOWN ON THE PLANS ARE APPROXIMATE AND ARE NOT CERTIFIED AS TO THE ACCURACY OF THEIR LOCATION OR COMPLETENESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATIONS AND DEPTHS OF ALL UTILITIES AND STRUCTURES IN THE PATH OF, OR CLOSELY PARALLEL TO, OR UNDER, THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DELAYS OR DAMAGE OCCURRING AS A RESULT OF INCORRECTLY LOCATED UTILITIES. IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITY OWNERS IN AMPLE TIME FOR THEM TO LOCATE AND MARK THEIR FACILITIES. THE CONTRACTOR SHALL ALSO NOTIFY UNDERGROUND UTILITY WORK LOCATION SERVICE AT LEAST 48 HOURS IN ADVANCE OF COMMENCING ANY WORK.

GENERAL NOTES

2

- 1. ALL SITE WORK SHALL BE INDICATED ON THE DRAWING.
- 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 WAY FROM THE EQUIPMENT AND TOWER AREAS.
- 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 SUBGRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISH SURFACE APPLICATION
- 6. ALL EXISTING ACTIVE SEWER WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY ENGINEERS, EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR PIER DRILLING AROUND OR NEAR UTILITIES.
- C. 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 EXECUTION OF THE WORK, SUBJECT TO THE APPROVE OF ENGINEERING
- THE AREA DISTURBED DUE TO CONSTRUCTION ACTIVITY 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 GUIDELINES FOR EROSION AND SEDIMENT CONTROL, AND COORDINATED WITH THE TOWN.
- 10. CONTRACTOR SHALL NOTIFY UNDERGROUND FACILITIES PROTECTIVE ORGANIZATION AT TELEPHONE NUMBER 1-800-962-7962 PRIOR TO EXCAVATION AT SITE.
- 11. ALL EXCAVATION WORK WITHIN 36" OF EITHER SIDE OF UNDERGROUND UTILITIES MUST BE DONE BY HAND EXCAVATION METHODS.

APPLICANT:

verizon√

VEST HENRIETTA NY 14586

EBI ENGINEERING PC

21 B Street | Burlington, MA 01803 Tel: (781) 273-2500 | Fax: (781) 273-3311 www.ebiconsulting.com



Kelly Shal-

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SUBMITTALS

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EBI JOB NO:

8118000249

HOWLAND MICRO
PROJECT NO.: 20161509173
LOCATION CODE: 432846

110 HOWLAND AVENUE BEACON, NY 12508 DUTCHESS COUNTY

SHEET TITLE:

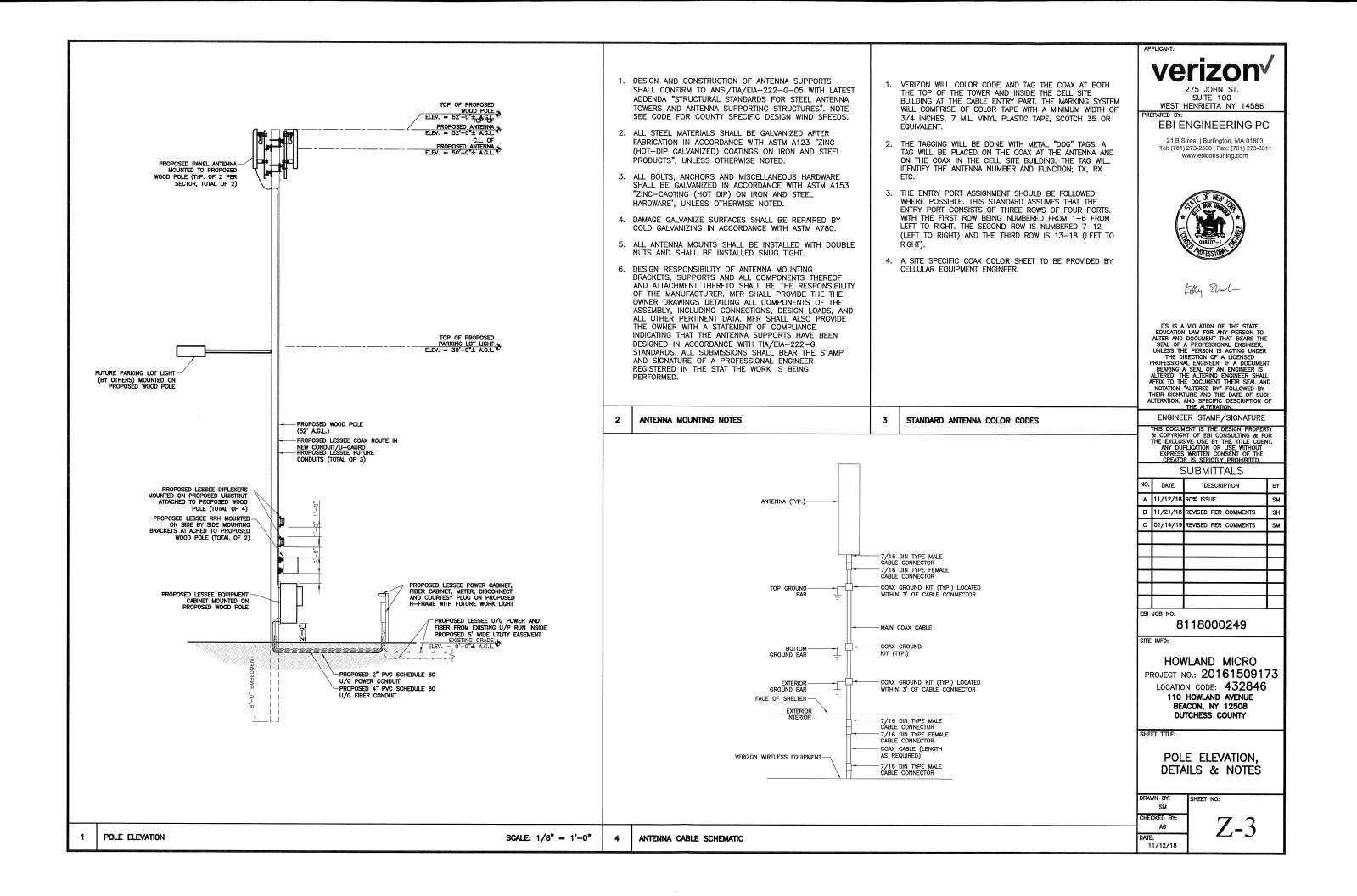
OVERALL SITE PLAN

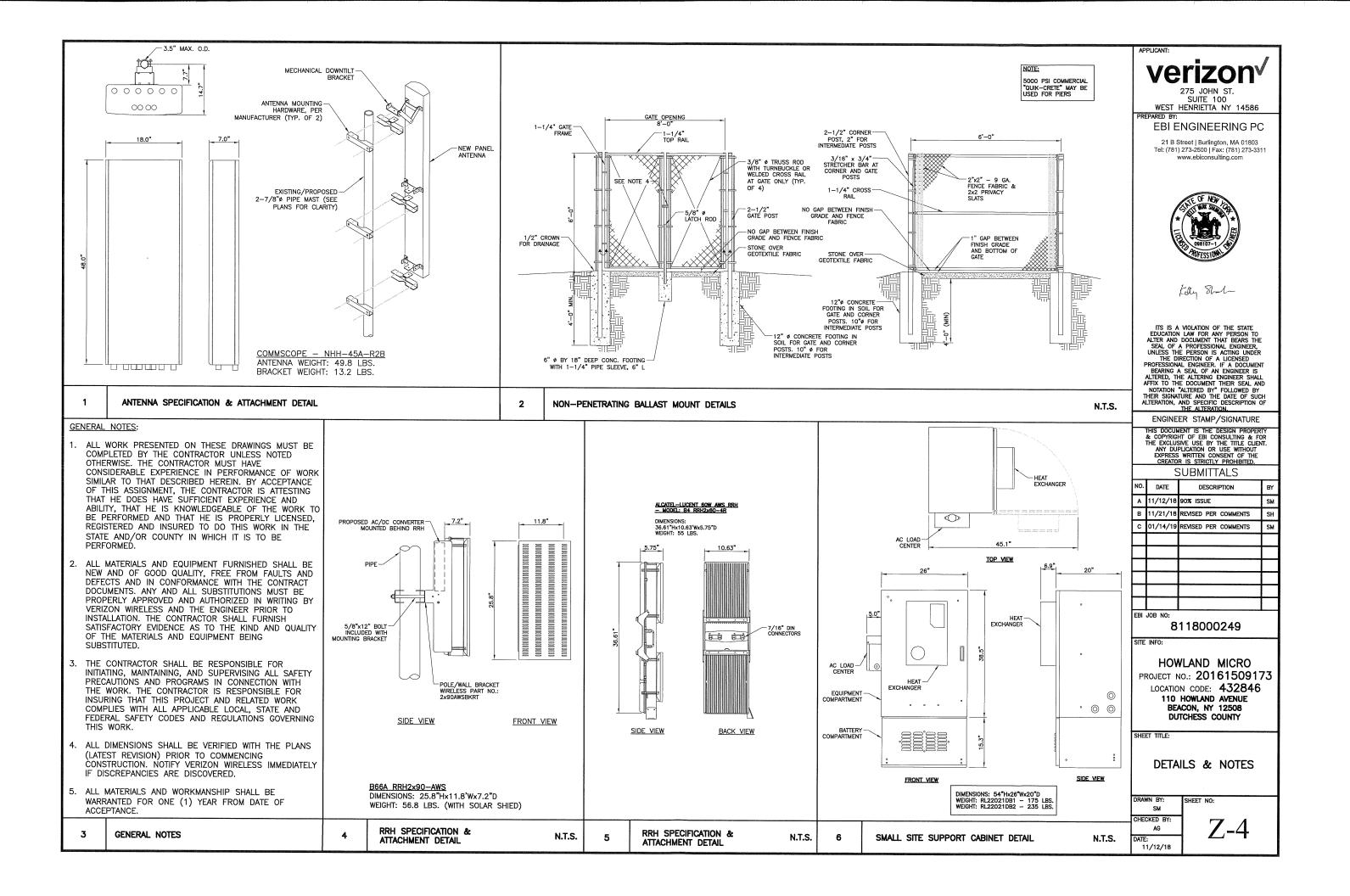
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CHECKED BY:
AG

DATE:

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Short Environmental Assessment Form Part 1 - Project Information

Instructions for Completing

Part 1 - Project Information. The applicant or project sponsor is responsible for the completion of Part 1. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

Part 1 - Project and Sponsor Information					
Orange County-Poughkeepsie Limited Partnership d/b/a Verizon Wireless					
Name of Action or Project:					
Howland Micro					
Project Location (describe, and attach a location map):					
110 Howland Avenue, Beacon, Duchess County, NY					
Brief Description of Proposed Action:					
Construct a proposed 52 foot wooden pole with two proposed antennas within a 102 square foot lease area for telecommunications equipment. Verizon Wireless proposes to utilize the existing paved access road. Utility conduits are to extend underground along the perimeter of the paved parking area for approximately 250 feet to an existing utility pole.					
Name of Applicant or Sponsor:	Telepl	none:			
Verizon Wireless				*alaaa aa	m
Raily-pointpointo@vorizonminococcom			(1)		
Address: 1275 John Street, Suite 100					
City/PO:		State:	Zip	Code:	
West Henrietta		NY	1458		
1. Does the proposed action only involve the legislative adoption of a plan, le	ocal lav	v, ordinance,		NO	YES
administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and may be affected in the municipality and proceed to Part 2. If no, continue to	the env	ironmental resources t	hat	√	
2. Does the proposed action require a permit, approval or funding from any other governmental Agency?			NO	YES	
If Yes, list agency(s) name and permit or approval:				\checkmark	
3.a. Total acreage of the site of the proposed action? b. Total acreage to be physically disturbed? c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 4.359 acres <1 acres					
4. Check all land uses that occur on, adjoining and near the proposed action ☐ Urban ☐ Rural (non-agriculture) ☐ Industrial ☐ Comm ☐ Forest ☐ Agriculture ☐ Aquatic ☐ Other (☐ Parkland)	ercial	Residential (subur	ban)		

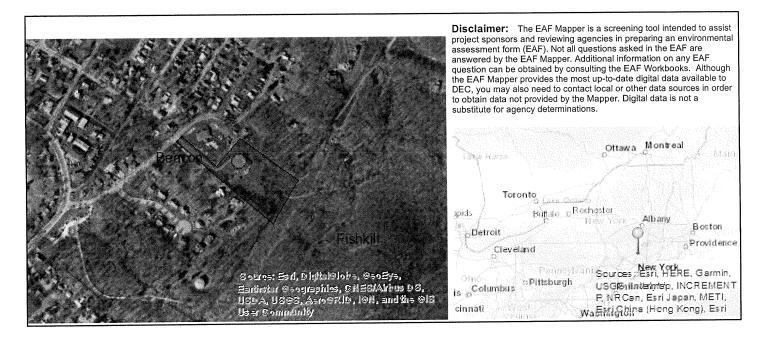
5. Is the proposed action, a. A permitted use under the zoning regulations? b. Consistent with the adopted comprehensive plan? 6. Is the proposed action consistent with the predominant character of the existing built or natural landscape? 7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area? If Yes, identify: 8. a. Will the proposed action result in a substantial increase in traffic above present levels? b. Are public transportation service(s) available at or near the site of the proposed action? c. Are any pedestrian accommodations or bicycle routes available on or near site of the proposed action? 9. Does the proposed action meet or exceed the state energy code requirements? If the proposed action will exceed requirements, describe design features and technologies:	NO NO NO NO O	YES YES YES
 6. Is the proposed action consistent with the predominant character of the existing built or natural landscape? 7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area? If Yes, identify: 8. a. Will the proposed action result in a substantial increase in traffic above present levels? b. Are public transportation service(s) available at or near the site of the proposed action? c. Are any pedestrian accommodations or bicycle routes available on or near site of the proposed action? 9. Does the proposed action meet or exceed the state energy code requirements? If the proposed action will exceed requirements, describe design features and technologies: 	NO V	YES
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9. Does the proposed action meet or exceed the state energy code requirements? If the proposed action will exceed requirements, describe design features and technologies:		✓
If the proposed action will exceed requirements, describe design features and technologies:		√
	NO	YES
Minimal increase of energy		\checkmark
10. Will the proposed action connect to an existing public/private water supply?	NO	YES
If No, describe method for providing potable water:	\checkmark	
11. Will the proposed action connect to existing wastewater utilities?	NO	YES
If No, describe method for providing wastewater treatment:	\checkmark	
12. a. Does the site contain a structure that is listed on either the State or National Register of Historic	NO	YES
Places? b. Is the proposed action located in an archeological sensitive area?	✓	₩
	NO	YES
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency?		
b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody?		一
If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres:		
14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that	apply:	
Shoreline Forest Agricultural/grasslands Early mid-successional		
☐ Wetland ☐ Urban ☑ Suburban	NO	VES
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered?	NO	YES
	NO NO	YES
16. Is the project site located in the 100 year flood plain?	NO	TES
17. Will the proposed action create storm water discharge, either from point or non-point sources?	NO	YES
If Yes,	\checkmark	
a. Will storm water discharges now to adjust the properties.		
a. Will storm water discharges flow to adjacent properties? b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)? If Yes, briefly describe:		

b. Consistent with the adopted comprehensive plan? b. Consistent with the adopted comprehensive plan? c. Is the proposed action consistent with the predominant character of the existing built or natural landscape? 7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area? If Yes, identify: 8. a. Will the proposed action result in a substantial increase in traffic above present levels? b. Are public transportation service(s) available at or near the site of the proposed action? c. Are any pedestrian accommodations or bicycle routes available on or near site of the proposed action? 9. Does the proposed action meet or exceed the state energy code requirements? If the proposed action will exceed requirements, describe design features and technologies: 10. Will the proposed action connect to an existing public/private water supply? If No, describe method for providing potable water: 11. Will the proposed action connect to existing wastewater utilities? If No, describe method for providing wastewater treatment: 12. a. Does the site contain a structure that is listed on either the State or National Register of Historic Places? b. Is the proposed action located in an archeological sensitive area? 13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency? b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody? If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres:	YES NO NO NO NO NO NO NO NO NO N	YES YES YES YES YES YES YES YES
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wetlands or other waterbodies regulated by a federal, state or local agency? b Would the proposed action physically alter, or encroach into, any existing wetland or waterbody?		V
b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody? If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres:	NO	YES 🗸
14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that Shoreline Forest Agricultural/grasslands Early mid-successional	apply:	
□ Wetland □ Urban □ Suburban Suburban □ Suburb	NO	YES
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered?	√	
16. Is the project site located in the 100 year flood plain?	NO	YES
17. Will the proposed action create storm water discharge, either from point or non-point sources?	NO	YES
If Yes, a. Will storm water discharges flow to adjacent properties? NO YES		
b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)?		1
b. Will storm water discharges be directed to established conveyance systems (fund) and storm drams). If Yes, briefly describe:		

18. Does the proposed action include construction or other activities that result in the impoundment of	NO	YES
water or other liquids (e.g. retention pond, waste lagoon, dam)? If Yes, explain purpose and size:	✓	
19. Has the site of the proposed action or an adjoining property been the location of an active or closed	NO	YES
solid waste management facility?		
If Yes, describe:	✓	
20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or	NO	YES
completed) for hazardous waste?		
If Yes, describe:	✓	
I AFFIRM THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE	BEST C	F MY
KNOWLEDGE		
Applicant/sponsor name: Verizon Wireless Date: November 13, 2018		
Signature: Elaine Langer		

18. Does the proposed action include construction or other activities that result in the impoundment of	NO	YES
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Applicant/sponsor name: Date:		
Signature:		

EAF Mapper Summary Report



Part 1 / Question 7 [Critical Environmental Area]	No .
Part 1 / Question 12a [National Register of Historic Places]	No
Part 1 / Question 12b [Archeological Sites]	Yes
Part 1 / Question 13a [Wetlands or Other Regulated Waterbodies]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
Part 1 / Question 15 [Threatened or Endangered Animal]	No No
Part 1 / Question 16 [100 Year Flood Plain]	No
Part 1 / Question 20 [Remediation Site]	No



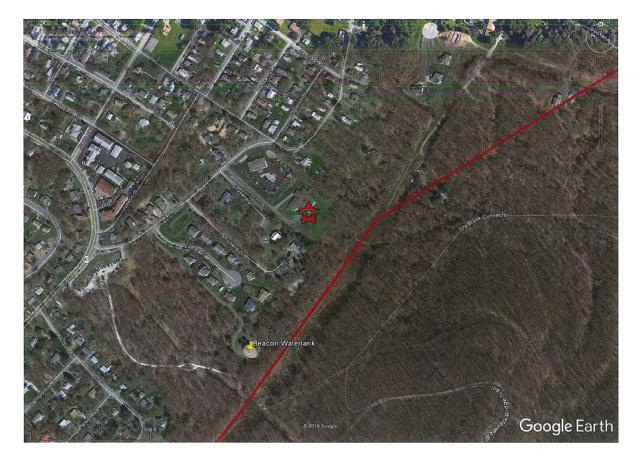
January 22, 2019

Scott Olson, Esq. Young / Sommer IIc ATTORNEYS AT LAW Five Palisades Drive, Albany, NY 12205

RE: Howland Application, Municipal Water Tank

A question was posed as to whether or not Verizon may be able to move the proposed installation to an alternate water tank location off Howland Ave near the Breakneck Ridge Trail.

The proposed Howland installation (red star in map below) and the Beacon Water Tank location (yellow pin) discussed are shown below:

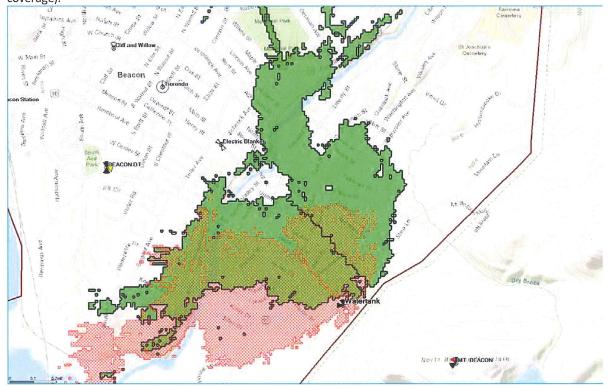


We have been aware of this water tank location and have reviewed it prior to and during the process of developing the proposed Howland site. This location has been deemed not of similar RF value for multiple reasons. It is critical to understand how the actual physical location of the Beacon Water Tank has much of its potential viewshed blocked by local obstructions. Additionally the water tank structure itself is lower in available ACL and approximately 800' south of the desired location and search area. For the purpose of comparison we have utilized the exact same pole and antenna configuration at each location.

The Beacon Water Tank location fails to achieve the Howland site objectives for the following reasons and is therefore RF Rejected:

- 1. Too low of position relative to its local obstructions. The water tank location compared to the proposed Howland location suffers from unacceptable signal degradation to the north due to far field (view) blocked by dense localized clutter. The dominant footprint that is necessary to offload the existing sites is not possible from this location due to being blocked by terrain and foliage. Having a clear line of sight (LOS) to area objectives is critical when designing new micro sites at cellular frequencies.
- 2. Poor positioning relative to some area objectives as well as other sites. The water tank is approximately 800' south of the identified search ring. This distance combined with the above mentioned obstructions further limit this locations ability to serve the necessary objectives and provide the necessary capacity offload detailed in the RF Justification.

The image below helps visualize the difference in coverage between the proposed Howland site (Green coverage footprint) and the Beacon Water Tank (Red hashed coverage footprint). Small cell facilities are designed to have smaller coverage footprints and therefore even a slight relocation of the site can significantly alter site performance. As can be seen in the plot below...the water tank site would not serve the intended area (~50% less coverage).



The proposed Howland micro is centrally located to the necessary coverage and capacity improvement area offering an uncluttered view of the coverage objectives. The Beacon Water Tank is not located such that is provides value as an alternate existing (co-locatable) structure due to extensive portions of its potential view shed being blocked by local area terrain and foliage. These obstructions prevent this location from providing the necessary coverage and capacity relief. The Beacon Water Tank is RF rejected due to failing to provide adequate relief with required initiatives.

Very truly yours,

Michael R. Crosby

Engineer IV - RF Design

Michael R. Crosby

Verizon Wireless





Beacon, New York 12508 Howland Micro 110 Howland Avenue

MAP 9165.43

9165.43

ectonic Programme Programme.

Looking northeast from 110 Howland Avenue. Proposed installation will be visible from this location.

Distance from the photographic location to the proposed site is 150'±





Looking northeast from 110 Howland Avenue. Proposed installation is visible from this location. Distance from the photographic location to the proposed site is 150'±

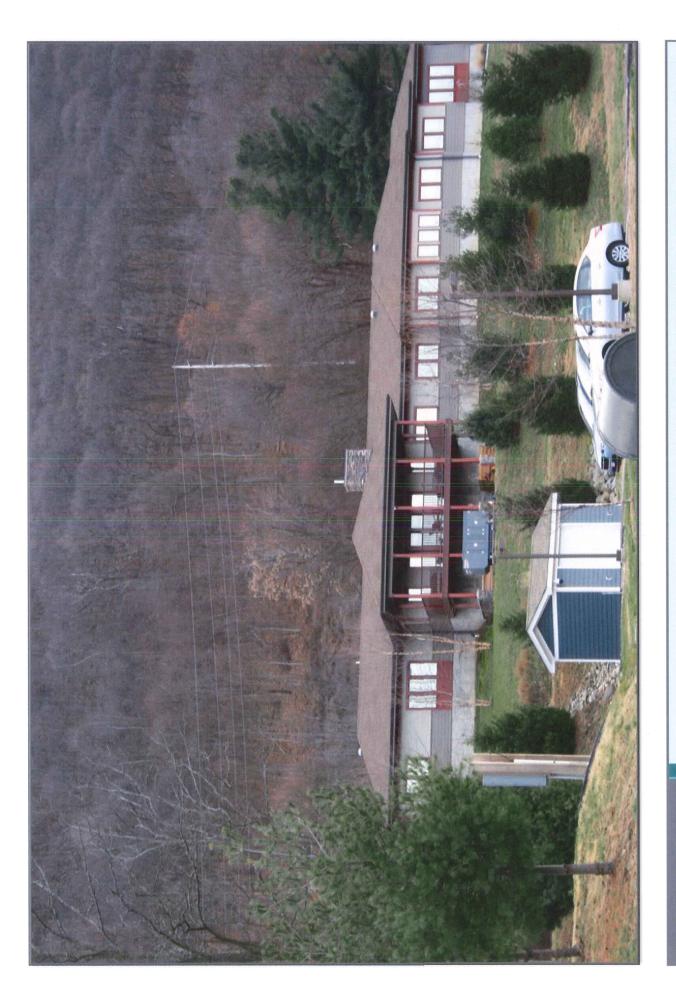
S-1

Looking southeast from 109 Howland Avenue. Proposed installation will be visible from this location.

Distance from the photographic location to the proposed site is 500'±

P-2

2-6





Looking southeast from the intersection of Howland Avenue & Goodrich Street. Proposed installation will be visible from this location.

Distance from the photographic location to the proposed site is 450'±

P-3





Looking southeast from the intersection of Howland Avenue & Goodrich Street. Proposed installation is visible from this location.

Distance from the photographic location to the proposed site is 450'±

S-3