

Visual Resource Evaluation Report



Proposed
Telecommunication
Facility

Watertown/CT1140

655 Bassett Road
Watertown, Connecticut 06795

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Infinigy Project # 226-015

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PROJECT SUMMARY

North Atlantic Towers is currently proposing the construction of a 150-foot self-supporting monopole telecommunications facility to be located on the property at 655 Bassett Road in Watertown, Connecticut (Appendix A – Site Location Map). Infinigy Engineering PLLC (*Infinigy*) was retained by North Atlantic Towers to conduct a Visual Resource Evaluation (VRE) encompassing a 2-mile radius (Study Area) from the proposed site known as “Watertown” (Subject Property) located on the property at 655 Bassett Road in Watertown, Connecticut (parent parcel). A previous VRE was conducted during January 2010 in connection with this proposed telecommunication facility; however the proposed tower height at the time was 180 feet and the proposed tower location was slightly north of the current proposed location. Findings from the January 2010 VRE were included in *Infinigy’s* report dated February 2, 2010 (revised August 1, 2011) (see Applicants’ Exhibit1, Tab 5).

The current proposed project facility includes a 150-foot tall monopole and a ground-level equipment shelter installed within a 75-foot by 75-foot fenced compound on a 100-foot by 100-foot lease area (Subject Property) situated in an undeveloped wooded area on the northern portion of the parent parcel. The proposed tower location is approximately 200 feet south of the originally proposed tower location. The proposed tower and fenced equipment compound are designed to provide space for future carriers’ equipment and antenna structures. Access to the telecommunications facility will be from Bassett Road, along an existing unimproved access drive, then along a new 12-foot wide gravel access drive to the compound. Utilities to the facility are proposed to be run underground, along the access route.

PROJECT SITE SETTING

The parent parcel consists of a ±51.53-acre parcel of land zoned as Residential (R-90) by the Town of Watertown and identified as Tax Map Parcel 15-25-3 on the current official tax map of the Town of Watertown. The proposed tower location is approximately 0.35 miles north-northwest of the intersection of Bassett Road and Linkfield Road, in an undeveloped wooded area of the parent parcel identified as “655 Bassett Road” in the Town of Watertown, Litchfield County, Connecticut. A Site Location Map is included in Appendix A. The parent parcel currently consists predominantly of undeveloped wooded land and pastures. A single-family residence and agricultural use buildings exist on the parent parcel proximate to Bassett Road.

The parent parcel is generally characterized as a moderately hilly parcel used for residential and agricultural purposes. Land use within the area surrounding the parent parcel is characterized as a mixture of agricultural and residential. The topography of the Study Area is characterized as moderately rolling slopes with steep slopes to the east and northeast of the Subject Property, proximate to the Wigwam Reservoir area. The overall topography of the area ranges in elevation and demonstrates a gradual increase from east to west from approximately 500 feet AMSL on Bidwell Road adjacent to Black Rock State Park, approximately 2.3 miles southeast of the Subject Property, to approximately 950 feet AMSL on Linkfield and Wigwam Roads, approximately 3.2 miles north of the Subject Property.

The Subject Property is located at an elevation of approximately 833 feet AMSL. The height of the tree canopy on the Subject Property in the *immediate vicinity* of the proposed tower location is estimated to be approximately 90 feet above ground level.

The existing vegetative cover within the Study Area can be described as a combination of active agricultural and residential lands interspersed with large stands of mixed deciduous and coniferous (evergreen) forest. The areas dominated by dense woodland or forest cover include the lands immediately adjacent to the Subject Property and the majority of the land located within a half-mile to the east, north and west of the Subject Property.

METHODOLOGY

To estimate the visibility associated with the proposed facility, **Infinigy** evaluated the Subject Property in two phases, consisting of determining potential visibility using topographic relief as well as vegetative cover, and a field investigation to compare the results of the topographic mapping. Areas of potential visibility within the Study Area were identified during the predictive mapping that was completed and a Viewshed Analysis Map was produced (Appendix B). In addition to the Viewshed Analysis Map generated through topographic mapping and conservative tree cover estimates, **Infinigy** conducted a field investigation known as a “balloon float” to evaluate actual visibility from public roads and other publicly accessible areas surrounding the Subject Property. During the balloon float, photographs were taken at various locations and areas in order to 1) aid in the development of photosimulated views of the proposed tower from locations where the tower is expected to be visible, and 2) to document locations/areas from where the tower is not expected to be visible. Data obtained during the field investigation was evaluated and utilized to produce Photo Location Maps (Appendix C) and Field-Verified Visibility Maps (Appendix E), and to verify the results of the predictive mapping illustrated on the Viewshed Analysis Map.

COMPUTER MODELING VISIBILITY ANALYSIS

A computer modeling tool, ESRI’s ArcView Spatial Analyst software, is utilized to calculate the areas from which the proposed facility is expected to be visible. Information specific to the facility, such as tower height and structure, significant objects and/or structures that would obstruct potential views, ground elevation, and surrounding topography is entered into the computer modeling program and interpreted during the modeling process.

Subsequent to data entry, constraints are applied to the computer model to more accurately define the potential visibility of the proposed facility within the Study Area. During the initial computer analysis, the tree canopy is omitted and the only visual constraint evaluated is topography. This initial analysis provides a reference point that can be used to assist in the determination of seasonal visibility fluctuations. The average tree height for the Study Area is determined during the field investigation by visual observation from local thoroughfares, or by using available information for the area. In the case of the proposed Watertown facility, an average *Study Area* tree canopy height of 65 feet was utilized in the development of the Viewshed Analysis Map. An additional data layer depicting significant resource areas such as State Forests and Parks, recreational facilities, registered historic sites, open space

lands and other sensitive receptors was obtained from the Connecticut State Department of Energy and Environmental Protection (CTDEEP). The data layer is added to the Viewshed Analysis Map and is useful in identifying potential impacts to sensitive receptors within the Study Area.

BALLOON FLOAT & STUDY AREA FIELD INVESTIGATION

On November 3, 2011, from approximately 9:30am until approximately 5:30pm **Infinigy** conducted a noticed balloon float at the Subject Property and a field investigation to evaluate the visibility of the proposed tower within the Study Area, particularly from the areas to the north and northwest of the Subject Property, including the Evergreen Berry Farm located off of Bassett Road. Written notification of the balloon float was provided to the Town of Watertown and abutters via e-mail on November 1, 2011. The balloon float consisted of raising and maintaining a tethered, helium-filled, 3-foot diameter, red-colored balloon at a height of 150 feet above grade, at the proposed tower location. During the balloon float, an **Infinigy** representative drove along the following publicly accessible roads within the Study Area to determine and document locations/areas from where the balloon was visible: Bassett Road; Gilbert Road; Linkfield Road; Hidden Pond Road; Stoney Brook Lane; Route 63; Morris Town Line Road; Route 109 (Thomaston Road/Branch Road); Moosehorn Road; Wigwam Road; Deer Run Road; Babbit Road; Northfield Road; Old Northfield Road; Bidwell Hill Road; Ice House Road (Echo Lake Recreation Area); Smith Pond Road; Joshua Town Road; Honey Hill Road; and the access road to Crestbrook Park (adjacent to the south end of Lockwood Pond). Additionally, **Infinigy** personnel walked the length of the driveway for the Evergreen Berry Farm and walked along the perimeter of the blueberry fields at the Evergreen Berry Farm. **Infinigy** personnel also conducted field reconnaissance in the immediate vicinity of the residence at 867 Linkfield Road (property on National Register of Historic Places), along the driveways of and adjacent to the residences at 465 and 489 Bassett Road, and on the property of 30 Gilbert Road with the property owner's consent.

Throughout the duration of the balloon float, a second **Infinigy** representative was stationed at the Subject Property to confirm that the balloon remained in the air, and to monitor and document its position, including periods of significant deflection due to wind. On the day of the field investigation, weather conditions included temperatures ranging from approximately 40 to 55 degrees Fahrenheit, with mostly cloudy skies in the morning and mostly sunny skies in the afternoon, and approximate wind speeds from 2 to 8 mph generally out of the west and southwest.

On November 9, 2011, from approximately 10:00am until 4:30pm, **Infinigy** returned to the Subject Property to conduct an additional noticed balloon float in order to evaluate visibility of the proposed tower from the Mattatuck Trail. The balloon was raised at the same location and using the same procedures that were used during the November 3, 2011 balloon float. During the float, an **Infinigy** representative walked the Mattatuck Trail between Route 6 (east of the Subject Property) and Route 109 (northwest of the Subject Property). Throughout the duration of the balloon float, a second **Infinigy** representative was stationed at the Subject Property to confirm that the balloon remained in the air, and to monitor and document its position, including periods of significant deflection due to wind. During the float, weather

conditions included temperatures ranging from approximately 45 to 60 degrees Fahrenheit, with sunny skies and approximate wind speeds from 2 to 10 mph generally out of the south.

The foliage conditions at the time of both balloon floats were generally leaf-off, although leaves were still present on trees in some portions of the Study Area. The findings from the balloon floats on both dates are presented and discussed in later sections of this report.

PHOTOGRAPHIC LOG

During the course of the balloon floats on November 3 and November 9, 2011, *Infinigy* personnel conducted drive-through and pedestrian reconnaissance as described in the previous section. Emphasis was placed on residential areas, the area of the Evergreen Berry Farm to the north and northwest of the Subject Property and additional areas that were determined to be potentially sensitive viewshed receptors. Photographs were taken from a variety of locations, settings and vantage points to document those locations from where the balloon was, or in some cases was not, visible. A photographic log was maintained including photo locations, direction of view from each location and factors such as intervening vegetation and visibility above or through existing tree lines, as applicable.

Photographs of the balloon from the locations summarized in the table below were taken with a SONY Cyber-Shot 8.1 Megapixel camera which has a focal length equivalent to a 35 mm camera with 38 to 115 mm zoom. The camera lens that most closely represents the unaided human eye is known as the “normal focal length” lens. Research suggests that for a 35mm camera which produces a 24 x 36 mm image, the normal focal length is approximately 50mm. For the Visual Resource Evaluation, photos were obtained with the camera lens set at focal lengths ranging from 50mm to 60mm for the purposes of most accurately representing the unaided human eye.

During the Study Area field investigation, the latitude and longitude of each photograph were recorded using a handheld GPS receiver unit. The geographic coordinate data were utilized to overlay photo locations onto aerial images in GoogleEarth® and generate the Photo Location Maps in Appendix C.

<i>PHOTOGRAPHIC LOG</i>				
Photo	View Direction	Location	Coordinates	Visibility
1	North-Northwest	Driveway for #867 Linkfield Road	N 41° 38' 46.5" W 73° 07' 57.9"	Visible above tree line
2	North-Northwest	Linkfield Road; South of property at #867 Linkfield Road	N 41° 38' 45.7" W 73° 07' 57.9"	Visible above tree line
3	North-Northwest	North of property at #890 Linkfield Road	N 41° 38' 50.2" W 73° 07' 58.5"	Visible above tree line
4	North	Bassett Road; Southeast of residence at #655	N 41° 39' 09.8" W 73° 08' 07.8"	Visible above tree line

<i>PHOTOGRAPHIC LOG</i>				
Photo	View Direction	Location	Coordinates	Visibility
		Bassett Road		
5	East-Southeast	465 Bassett Road; Adjacent to garage	N 41° 39' 28.5" W 73° 08' 21.7"	Barely discernable through trees during leaf-off conditions
6	East	Driveway for #465 Bassett Road	N 41° 39' 26.9" W 73° 08' 24.1"	Visible above tree line
7	East	Adjacent to residence at #489 Bassett Road	N 41° 39' 24.1" W 73° 08' 19.8"	Visible through trees during leaf-off conditions
8	East-Southeast	Driveway for Evergreen Berry Farm (near north end of pond)	N 41° 39' 29.4" W 73° 08' 26.0"	Visible through trees during leaf-off conditions
9	East	Driveway for Evergreen Berry Farm (near south end of pond)	N 41° 39' 27.6" W 73° 08' 27.4"	Visible through trees during leaf-off conditions
10	East	Bassett Road, north of entrance to Evergreen Berry Farm	N 41° 39' 27.5" W 73° 08' 29.2"	Visible through trees during leaf-off conditions
11	Southeast	Wooded area east of residence at #30 Gilbert Road	N 41° 39' 37.4" W 73° 08' 33.2"	Visible above distant tree line; obstructed view through trees on #30 Gilbert Road property
12	West-Northwest	Bassett Road in the vicinity of #870, #875 and #884 Bassett Road	N 41° 39' 18.4" W 73° 07' 48.2"	Visible above tree line
13	West-Northwest	Bassett Road, east of driveway for #887 Bassett Road	N 41° 39' 18.7" W 73° 07' 44.3"	Visible above tree line
14	West-Northwest	Driveway for #887 Bassett Road	N 41° 39' 19.8" W 73° 07' 46.9"	Visible above tree line
15	Southwest	Area adjacent to Route 109, along SE portion of Wigwam Reservoir	N 41° 39' 51.2" W 73° 07' 47.3"	Visible above tree line; obstructed view through trees along Route 109
16	Southwest	Route 109, Waterbury Water Authority access to Wigwam Reservoir	N 41° 39' 52.1" W 73° 07' 41.3"	Visible above tree line
17	South-Southeast	Route 109, near northern end of Wigwam Reservoir	N 41° 40' 23.8" W 73° 08' 30.3"	Visible above tree line
18	Southeast	Driveway to Evergreen Berry Farm, adjacent to seasonal farm stand	N 41° 39' 32.0" W 73° 08' 21.5"	Not Visible
19	Southeast	Evergreen Berry Farm; Southwest corner of blueberry field	N 41° 39' 33.0" W 73° 08' 19.4"	Not Visible
20	Southeast	Evergreen Berry Farm; Western edge of blueberry field	N 41° 39' 36.0" W 73° 08' 21.2"	Not Visible
21	Southeast	Evergreen Berry Farm; Northwest edge of blueberry field	N 41° 39' 39.5" W 73° 08' 20.5"	Not Visible

<i>PHOTOGRAPHIC LOG</i>				
Photo	View Direction	Location	Coordinates	Visibility
22	South-Southeast	Evergreen Berry Farm; Northern edge of blueberry field	N 41° 39' 41.1" W 73° 08' 16.0"	Not Visible
23	East-Southeast	Bassett Road; near residence at #409 Bassett Road	N 41° 39' 28.5" W 73° 08' 31.0"	Visible
24	Northwest	Driveway for Crestbrook Park, adjacent to southern end of Lockwood Pond	N 41° 38' 2.71" W 73° 06' 49.1"	Not Visible

PHOTOGRAPHIC SIMULATION METHODOLOGY

The proposed tower is constructed in 3D modeling software according to client specifications which include variables such as tower height and structure, various antennae design layouts and associated ground equipment. Terrain and aerial imagery are imported from publicly available sources. The proposed tower is then positioned at the appropriate ground location using the latitude and longitude coordinates provided by the client or obtained through a field survey.

Cameras are then set up within the modeling software using coordinates provided to match locations of field photography. The “virtual camera” view moves the proposed tower to the appropriate distance and elevation relative to the viewer as well as the approximate view to the left or right. Field Photography is subsequently imported into the modeling software to align the proposed tower with the balloon in the image. This is done to more accurately assess the proposed location, as the modeling software assumes the balloon will be centered in the field of view. The proposed Tower, now accurately constructed as a 3D model within the software, is exported out of the modeling software using the camera shots created with the “virtual camera” set up to match field photo locations. Using 2D graphics software, the field photography and 3D modeling data are combined, removing data that would not be visible due to tree lines or structures (aerial photography is used to determine locations of obstructions relative to tower) and adding light and shadows.

Infinigy utilizes the location of the balloon as well as the simulation methodology previously discussed to accurately simulate the visual presence the tower will have from a given location. Photographic simulations were generated using the photos from 16 locations within the Study Area where the balloon was visible. The photographic simulations represent an accurately scaled depiction of the proposed monopole tower. Photographic simulations of the proposed monopole tower are included in Appendix F. The locations and the orientations of the simulation photos are detailed below:

Photo 1: View from 867 Linkfield Road facing N-NW (~0.77 miles S-SE of Project Site)

- Photo 2: View from Linkfield Road, south of the driveway at #867 facing N-NW (~0.78 miles S-SE of Project Site)
- Photo 3: View from Linkfield Road, north of #890 facing N-NW (~0.70 miles S-SE of Project Site)
- Photo 4: View from Bassett Road, SE of #655 facing North (~0.30 miles South of Project Site)
- Photo 5: View from 465 Bassett Road facing E-SE (~0.17 miles W-NW of Project Site)
- Photo 6: View from 465 Bassett Road driveway facing East (~0.20 miles West of Project Site)
- Photo 7: View from 489 Bassett Road facing East (~0.14 miles West of Project Site)
- Photo 8: View from driveway for Evergreen Berry Farm facing E-SE (~0.24 miles W-NW of Project Site)
- Photo 9: View from driveway for Evergreen Berry Farm, adjacent to black raspberry bushes, facing East (~0.25 miles West of Project Site)
- Photo 10: View from Bassett Road, just north of the entrance to the Evergreen Berry Farm, facing East (~0.27 miles West of Project Site)
- Photo 11: View from wooded area east of 30 Gilbert Road, facing SE (~0.40 miles NW of Project Site)
- Photo 12: View from Bassett Road, in the vicinity of 870, 875 and 884 Bassett Road facing W-NW (~0.35 miles E-SE of Project Site)
- Photo 13: View from Bassett Road facing W-NW (~0.40 miles E-SE of Project Site)
- Photo 16: View from Route 109, at the Waterbury Water Authority access to Wigwam Reservoir facing SW (~0.66 miles NE of Project Site)
- Photo 17: View from Route 109, near the northern end of Wigwam Reservoir facing S-SE (~1.16 miles N-NW of Project Site)
- Photo 23: View from 409 Bassett Road facing E-NE (~0.30 miles W-SW of Project Site)

FINDINGS

On November 3, 2011 and November 9, 2011 the balloon was raised to a height of 150 feet above ground level at the proposed tower location, and was continuously monitored and verified to be in the air, without significant deflection, throughout the duration of each balloon float. *Infinigy's* findings, based on field reconnaissance of the surrounding areas during the balloon floats, are presented in the following sections.

Property at 867 Linkfield Road

The residential property at 867 Linkfield Road (south-southeast of the proposed tower location) is listed on the National Register of Historic Places; however, it is located at a

distance of 0.75 miles from the proposed tower location, outside the Area of Potential Effect (APE) for visual effects as defined by the Federal Communications Commission's *National Programmatic Agreement for Review of Effects on Historic Properties*. (The established APE for towers 200 feet or less in height is a 0.5-mile radius around the proposed tower location.) For this reason, the property was not addressed as a potentially affected property in the Preliminary Cultural Resources Assessment report dated November 23, 2009, prepared by Heritage Consultants, LLC.

A photograph was taken from the driveway for the residence at 867 Linkfield Road in the direction of the proposed tower location (Photo 1). From this vantage point, the balloon was visible above the distant tree line; however, the current view is compromised by existing utility poles and lines along Linkfield Road. A photograph was also taken from a location along the west side of Linkfield Road, southeast of the 867 Linkfield Road residence (Photo 2). From this vantage point, the balloon was visible above the distant tree line through an opening in the trees on the 867 Linkfield Road property; however, as in Photo 1, the view is currently compromised by the existing utility poles and lines along the road, north of the property. Although potentially visible from some portions of this property, unobstructed views of the proposed tower are not expected from the residence itself due to the presence of intervening trees located immediately north of the residence and on the northern portion of the property. During leaf-off conditions, the potential exists for partial, obstructed views of the proposed tower through the trees north of the residence; however, during leaf-on conditions, views of the tower are not expected from the residence.

Evergreen Berry Farm

An *Infinigy* representative walked the length of the driveway for the Evergreen Berry Farm, as well as the perimeter and central portions of the blueberry field to the northeast/north of the driveway. Photographs were taken from the following locations in the direction of the proposed tower location: the southwestern portion of the driveway (Photos 8 and 9); Bassett Road, northwest of the driveway entrance (Photo 10); the northeastern portion of the driveway, adjacent to the seasonal farm stand structure (Photo 18); and four locations along the perimeter of the blueberry field (Photos 19 through 22). The balloon was not visible from any point along the perimeter or central portions of the blueberry field, or from the location adjacent to the seasonal farm stand. From the two photo locations along the southwestern portion of the driveway, the balloon was visible through the trees, but did not extend above the existing tree line. From the portion of Bassett Road immediately northwest of the driveway entrance, the balloon was visible through the trees and slightly above the existing tree line, and only while traveling toward the southeast. *Infinigy* also conducted reconnaissance in the vicinity of the Alex residence to the southwest of the blueberry field. The balloon was not visible from this area due to the dense tree cover south of the residence.

Gilbert Road

An *Infinigy* representative drove the length of Gilbert Road in both directions. The balloon was not visible from along this road due to topography and/or the dense tree cover along the road. Reconnaissance was conducted on the property at 30 Gilbert Road in the immediate vicinity of the residence and within the wooded area to the east of the residence. The

property owner accompanied the *Infinigy* representative during the reconnaissance. The balloon was not visible from the residence due to surrounding dense tree cover. A photograph was taken from a location on the property at 30 Gilbert Road within the wooded area to the east of the residence (Photo 11). From this location, approximately 0.4 miles from the proposed facility, the balloon was visible through the trees on the 30 Gilbert Road property and could be seen above the distant tree line.

Bassett Road

An *Infinigy* representative conducted reconnaissance along the driveways to, and in the vicinity of, the residences at 465 and 489 Bassett Road. A photograph was taken from along the driveway to the residence at 465 Bassett Road (Photo 6). From this location, the balloon was visible above the existing tree line. A second photograph was taken on the property of 465 Bassett Road, from the turn-around area adjacent to the garage, south of the residence (Photo 5). From this location, the balloon was visible through the trees, but the view was significantly obstructed. A photograph was also taken from a location adjacent to the residence at 489 Bassett Road (Photo 7). From this location, the balloon was visible above the existing tree line to the east of the residence, but the view was partially obstructed by trees in the immediate vicinity of the residence.

A photograph was taken from along Bassett Road near the property at 409 Bassett Road, west-northwest of the proposed tower location (Photo 23). From this location, approximately 0.3 miles from the proposed facility, the balloon was visible above the tree line.

Reconnaissance was also conducted along Bassett Road to the east-southeast of the proposed tower location. A photograph was taken from along Bassett Road in the vicinity of the properties at 870, 875 and 884 Bassett Road (Photo 12). From this location, approximately 0.35 miles from the proposed facility, the balloon was visible above the existing tree line. Photographs were also taken from along the driveway to the residence at 887 Bassett Road (Photo 14) and from along Bassett Road in front of the property east of the driveway to 887 Bassett Road (Photo 13). From these locations, approximately 0.36 and 0.4 miles, respectively, from the proposed facility, the balloon was visible above the existing tree line.

Wigwam Reservoir

An *Infinigy* representative traveled Route 109 in both directions along the northeast side of the Wigwam Reservoir. The balloon was visible from limited sections of Route 109 near the northern end of the reservoir (Photo 17) and southern end of the reservoir (Photos 15 and 16). From the location of Photo 17, approximately 1.16 miles from the proposed facility, the balloon was visible only slightly above the existing tree line. From the locations of Photo 15 and Photo 16, approximately 0.61 and 0.66 miles, respectively, from the proposed facility, views of the balloon were intermittent and largely obstructed by the trees along the southwest side of Route 109.

Crestbrook Park and Other Recreational Areas

An *Infinigy* representative visited Crestbrook Park and drove along the driveway (extending from Northfield Road) and through the parking lots. The balloon was not visible from these areas. A photograph was taken from along the driveway, near the southern end of Lockwood Pond in the direction of the proposed tower location (Photo 24).

Infinigy also conducted reconnaissance from the following additional recreational areas: Black Rock State Park; Humaston Brook State Park Scenic Reserve; Smith Pond; Nystroms Park; and Echo Lake. The balloon was not visible from these areas.

Mattatuck Trail

During the balloon float on November 9, 2011, an *Infinigy* representative walked the Mattatuck Trail within the Study Area, between Route 6 (to the east of the proposed tower location) and Route 109 (to the northwest of the proposed tower location). Within the Study Area, the Mattatuck Trail is oriented generally northwest to southeast, and is situated between the proposed tower location and the Wigwam Reservoir. At its closest point, the trail is approximately 0.25 miles east-northeast of the proposed tower location. The balloon was not visible from the trail between Route 6 and Route 109 due to topography and/or dense tree cover. At the time of the balloon float, foliage conditions along the trail were generally leaf-off.

CONCLUSIONS

The Viewshed Analysis Map presents a conservative illustration of the analysis within the 2-mile Study Area. For purposes of this report, for both the computer-generated map and the Field-Verified Visibility Maps, any area where the data indicates that any portion of the proposed structure is either partially or wholly visible is presented as a “visible” area. At the time of the site investigation the seasonal conditions were generally leaf-off conditions, which typically provides the “worst-case” scenario for determining potential visibility. In addition to the protected CT DEEP and municipal properties that are identified on the Viewshed Analysis Map, the map also illustrates the areas where the proposed tower is predicted to be visible based upon the computer-generated elevation and land cover analysis (yellow shaded areas). On the Field-Verified Visibility Maps, areas of anticipated visibility, based on the balloon floats, are shaded in red.

Based on the balloon floats conducted on November 3, 2011 and November 9, 2011, the proposed tower is not expected to be visible from the Evergreen Berry Farm during leaf-on conditions, which is when the farm’s berries are in season and the farm is in operation. During leaf-off conditions, views of the proposed tower from the Evergreen Berry Farm are expected to be limited to areas along the southwest portion of the driveway. From these areas, views of the proposed tower would be largely obstructed by the intervening trees to the south of the driveway (see Monopole Photosimulations, Photos 8 and 9).

The uppermost 15 to 20 feet of the proposed tower is expected to be visible year-round from some areas along the driveway for the residence at 465 Bassett Road (see Monopole

Photosimulations, Photo 6). The uppermost 10 to 15 feet of the proposed tower is expected to be visible year-round from the immediate vicinity of the residence at 465 Bassett Road (see Monopole Photosimulations, Photo 7). The uppermost 5 to 10 feet of the proposed tower is expected to be partially visible during leaf-off conditions only from the vicinity of the residence at 489 Bassett Road. Even during leaf-off conditions, the uppermost portion of the tower will be very difficult to discern through the intervening trees to the southeast (see Monopole Photosimulations, Photo 5).

The proposed tower is not expected to be visible from residences along Gilbert Road due to the dense tree cover surrounding these residences. Based on observations from the property at 30 Gilbert Road, obstructed views of the proposed tower are anticipated from sporadic locations within the wooded areas east of the southern portion of Gilbert Road (see Monopole Photosimulations, Photo 11).

The proposed tower is not expected to be visible from the residence at 867 Linkfield Road due to intervening trees immediately north of the residence. Views of the proposed tower are expected from the driveway for the residence and from Linkfield Road, just south of this property, but the current view from these locations is compromised by existing utility poles and overhead lines along Linkfield Road (see Monopole Photosimulations, Photos 1 and 2).

The proposed tower is not expected to be visible from the Mattatuck Trail, Crestbrook Park, Echo Lake recreational area, Black Rock Lake, Black Rock State Park, Humaston Brook State Park Scenic Reserve, Nystroms Park, Smith Pond or Echo Lake. In addition, no views of the proposed structure are anticipated from the Watertown Center Historic District, which is located approximately 3.5 miles to the south-southeast, in the vicinity of the intersection of Route 63 (Main Street) and Route 6 (Deforest Street).

The proposed tower is expected to be visible year-round from limited sections of Route 109 near the northern and southern ends of Wigwam Reservoir. Only the uppermost 10 to 20 feet of the tower is expected to be visible from Route 109 near the north end of the reservoir and only slightly above the existing tree line (see Monopole Simulations, Photo 17). Visibility of the proposed tower from Route 109 near the southern end of the reservoir is expected to include intermittent, generally obstructed views due to intervening trees along the west side of the road (see Photographs, Photo 15 and Monopole Simulations, Photo 16).

Anticipated Views from Residential Properties

The upper portion of the proposed tower is expected to be visible year-round from portions of the properties at 870, 875, 884 and 887 Bassett Road, to the east-southeast of the proposed tower location, as well as an additional, unidentified residential property immediately east of 887 Bassett Road (see Monopole Photosimulations, Photos 12 and 13). Year-round visibility of the upper portion of the proposed tower is also expected from portions of the properties at 409, 465 and 489 Bassett Road, to the west-northwest and west of the proposed tower location (see Monopole Photosimulations, Photos 6 and 23), and 655 Bassett Road, to the south of the proposed tower location (see Monopole Photosimulations, Photo 4). Additionally, year-round visibility of the upper portion of the proposed tower is expected

from portions of the properties at 890 and 936 Linkfield Road, to the south of the proposed tower location (see Monopole Photosimulations, Photo 3).

Based on the field reconnaissance conducted during the balloon floats on November 3 and November 9, 2011, year-round visibility of the upper portion of the proposed tower is expected from a total of 10 residences: 409 Bassett Road, 489 Bassett Road, 655 Bassett Road; 870 Bassett Road; 875 Bassett Road; 884 Bassett Road; 887 Bassett Road; a residence immediately east of the driveway for 887 Bassett Road (street address was not apparent during the field reconnaissance); 890 Linkfield Road; and 936 Linkfield Road.

The total area encompassing the 2-mile radius Study Area is approximately 8,042 acres. Based on the Viewshed Analysis Map, the total area of predicted leaf-on visibility is approximately 259 acres, 93 of which occur over open water on the Morris Reservoir and the Wigwam Reservoir, both inaccessible to the public. Excluding the acreage over the reservoirs, leaf-on visibility is predicted from a total of 166 acres (or approximately 2 percent) within the Study Area. Of this total, approximately 20 acres are situated on the parent parcel for the Subject Property. Based on the results of predictive visibility mapping, assuming leaf-on conditions, and the results of field reconnaissance conducted during the November 2011 balloon floats, seasonal variation in the total area of visibility during leaf-off conditions is expected to be insignificant.

A cumulative evaluation of the computer-generated analysis and field verification demonstrates that areas to the south along Linkfield Road (photo locations 1, 2 and 3), to the east-southeast along Bassett Road (Photo Locations 12, 13 and 14), to the west along Bassett Road (Photo Locations 6, 7, 10 and 23) and to the north-northwest along a limited portion of Route 109 (Photo Location 17) are expected to have year-round unobstructed views of the upper portion of the proposed tower. The other areas to the west-northwest which were specifically evaluated, consisting of the area along the southwestern portion of the driveway for the Evergreen Berry Farm (Photo Locations 8 and 9), and the wooded area east of Gilbert Road (Photo Location 11), are expected to have obstructed views of the proposed tower during leaf-off (winter) conditions only.

As illustrated on the Field-Verified Visibility Maps, the areas from which the proposed tower is expected to be visible are limited predominantly to secondary roads and private lands inaccessible to the public. Based upon this Visual Resource Evaluation, the proposed facility is not expected to result in adverse visual impacts to nearby public use areas within the Study Area, notably the Evergreen Berry Farm, the Mattatuck Trail and Black Rock State Park.

Alternative Tower Designs

Photosimulations of a 150-foot “monopine” style tower and a “low-profile” monopole style tower were produced using the photographs from five select locations (Photo 2, Photo 3, Photo 10, Photo 11 and Photo 23) in order to show alternative tower designs. These photosimulations are included in Appendix G. Based on the photosimulations, it is Infingy’s opinion that the “monopine” style tower is not a suitable alternative, considering the setting of the proposed tower location and the proposed height of the tower; however, the “low-

profile” monopole style tower may offer a preferable alternative to the traditional monopole tower design.

Evaluation of Potential Visibility of a Tower Located in the Area of the Gustafson Apple Orchard

Using topographic maps and aerial images from GoogleEarth®, Infinigy performed a general evaluation of potential visibility of a tower located in the area of the apple orchard on the Gustafson property along Linkfield Road, to the south-southeast of the intersection with Bassett Road. The significantly lower ground elevation in this area as compared with the current proposed tower location would require a tower height of 200 feet or more, which requires lighting at the top of the tower to comply with FAA regulations. Indeed, AT&T’s RF Engineers evaluated the apple orchard location and determined that a facility of 190 feet AGL results in significant coverage gaps to the north, unlike the proposed 150-foot facility. Views of a tower 200 feet or more in height located in the area of the apple orchard would be expected from a significantly greater number of residential properties to the northeast, east, southeast and south of the apple orchard as compared with the current proposed tower location. Additionally, the sparse tree cover in this general area as compared with the area surrounding the current proposed tower location would provide little natural screening of the lower portion of the tower or the ground level equipment compound. In general, it is our opinion that a tower located in the area of the Gustafson apple orchard would result in a greater overall visual impact to the surrounding area.

APPENDICES

Appendix A – Site Location Map

Appendix B – Viewshed Analysis Map

Appendix C – Photo Location Maps

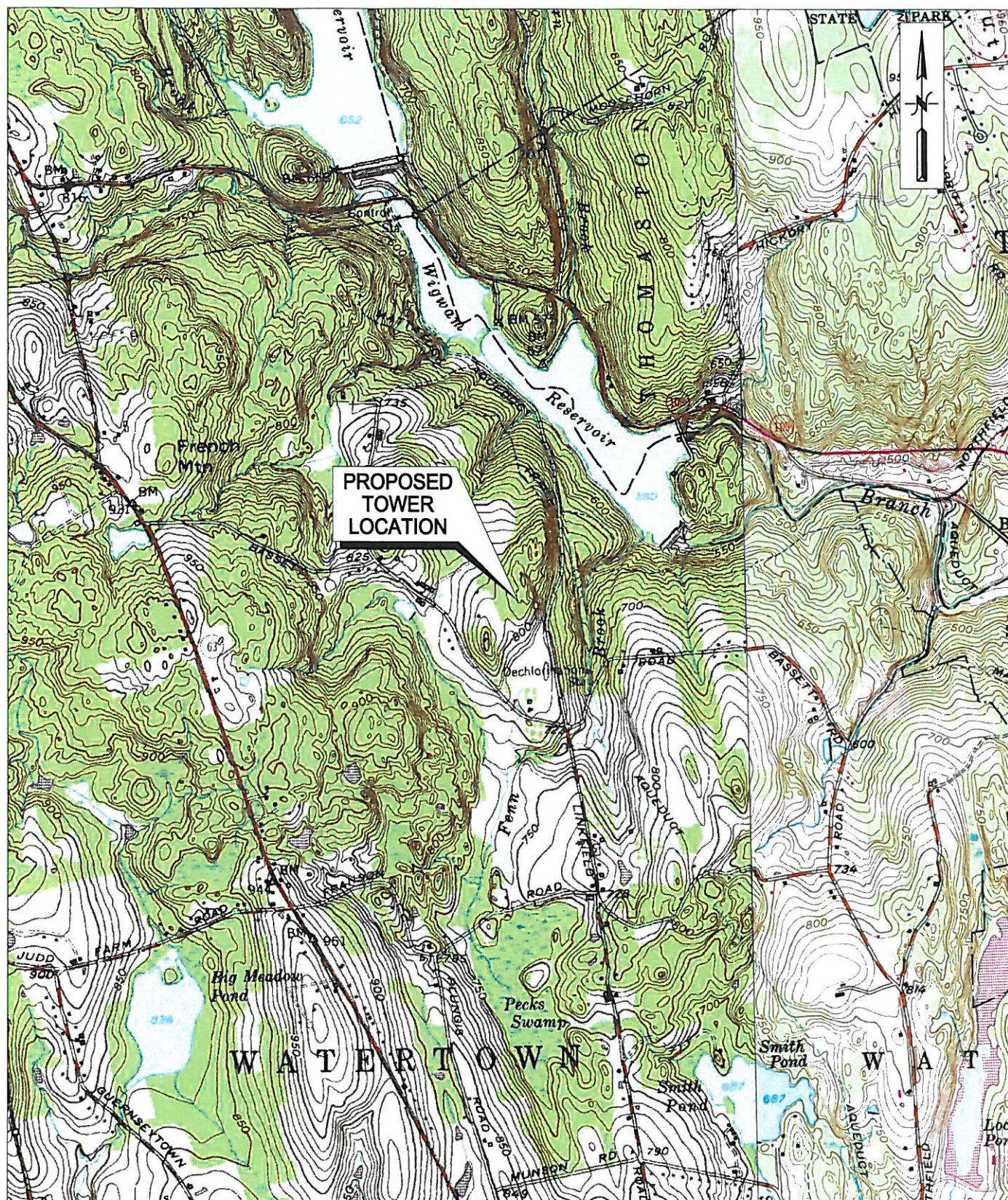
Appendix D – Photographs

Appendix E – Field-Verified Visibility Maps

Appendix F – Monopole Photosimulations

Appendix G – Monopine and Low-Profile Monopole Simulations (Select Locations)

APPENDIX A
SITE LOCATION MAP



SOURCE: USGS

QUADRANGLE: Litchfield, Conn. & Thomaston, Conn.

Figure Number: ___ 1

Project Number: ___ 226-015

Scale: _____ 1" = 2000'

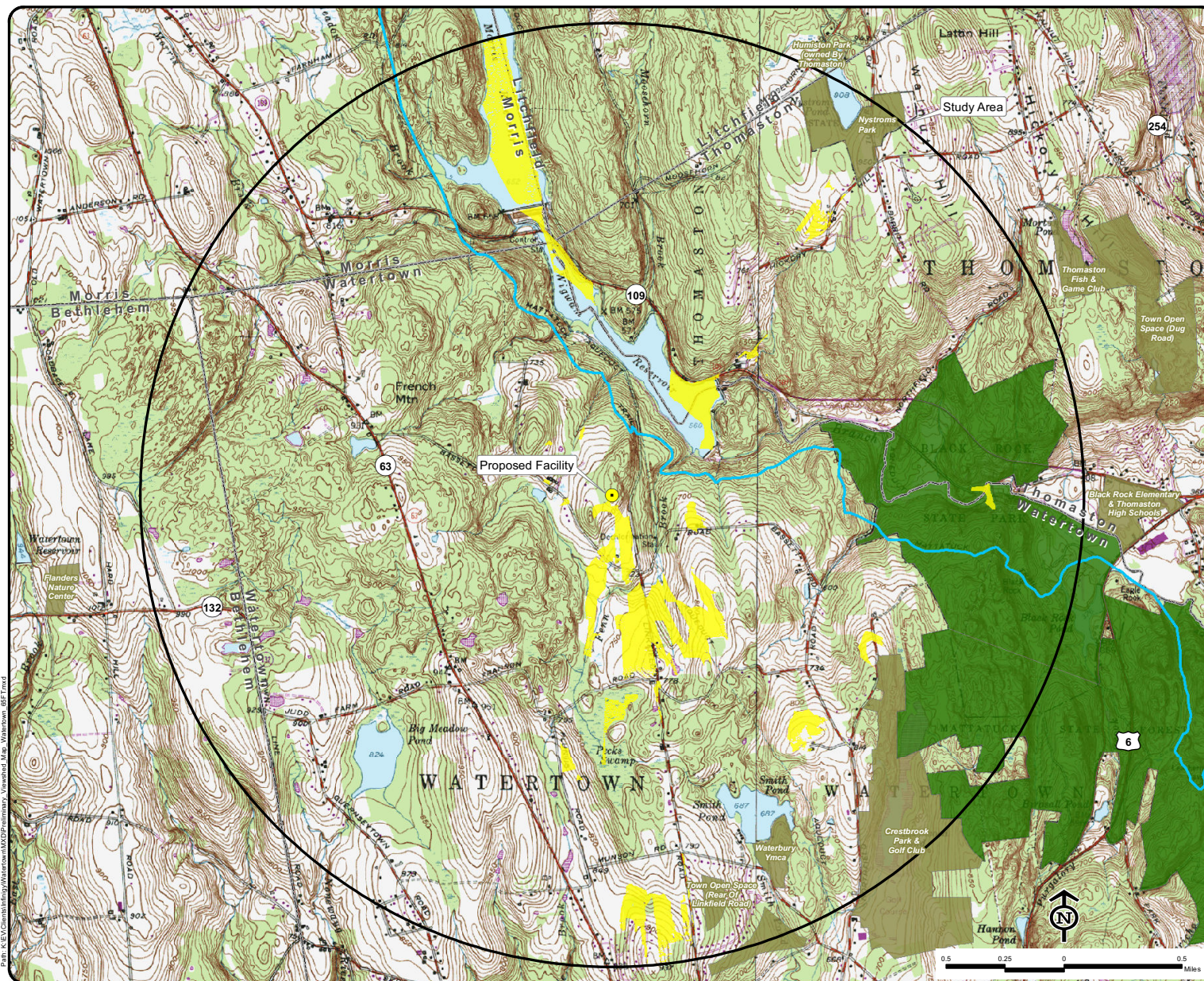
Date: _____ 12/06/2011

SITE LOCATION MAP
PROPOSED CELLULAR TOWER
 655 Bassett Road
 Watertown, CT
 Project Sponsor: North Atlantic Towers

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11 Herbert Drive
 Latham, New York 12110
 (518) 690-0790

APPENDIX B
VIEWSHED ANALYSIS MAP



Viewshed Analysis
Proposed North Atlantic Towers Wireless
Telecommunications Facility
Watertown
655 Bassett Road
Watertown, Connecticut

NOTE:

- Viewshed analysis conducted using ESRI's Spatial Analyst.
- Proposed facility height is 150 feet.
- Existing tree canopy height estimated at 65 feet.
- Study Area is comprised of a two-mile radius surrounding the proposed facility and includes 8,042 acres of land.
- Results not field verified by VHB.

DATA SOURCES:

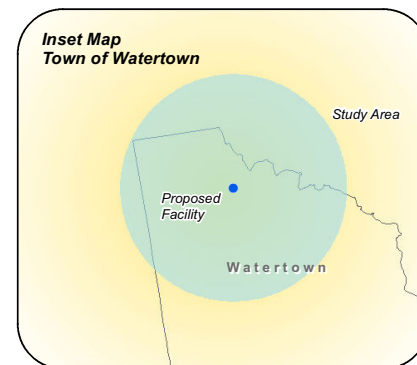
- Digital elevation model (DEM) derived from Connecticut LIDAR-based Digital Elevation Data (collected in 2000) with a 10-foot spatial resolution produced by the University of Connecticut and the Center for Land Use Education and Research (CLEAR); 2007
- Forest areas derived from 2004 and 2010 digital orthophotos with 0.50-meter and 1-meter pixel resolutions, respectively; digitized by VHB, 2011
- Base map comprised of Litchfield (1984) and Thomaston (1976) USGS Quadrangle Maps
- Municipal and Private Open Space data layer provided by CT DEP, 1997
- Federal Open Space data layer provided by CT DEP, 2004
- CT DEP Property data layer provided by CT DEP, December 2010
- CT DEP boat launches data layer provided by CT DEP, Dec 2008
- Scenic Roads layer derived from available State and Local listings

Map Date: 11/7/2011

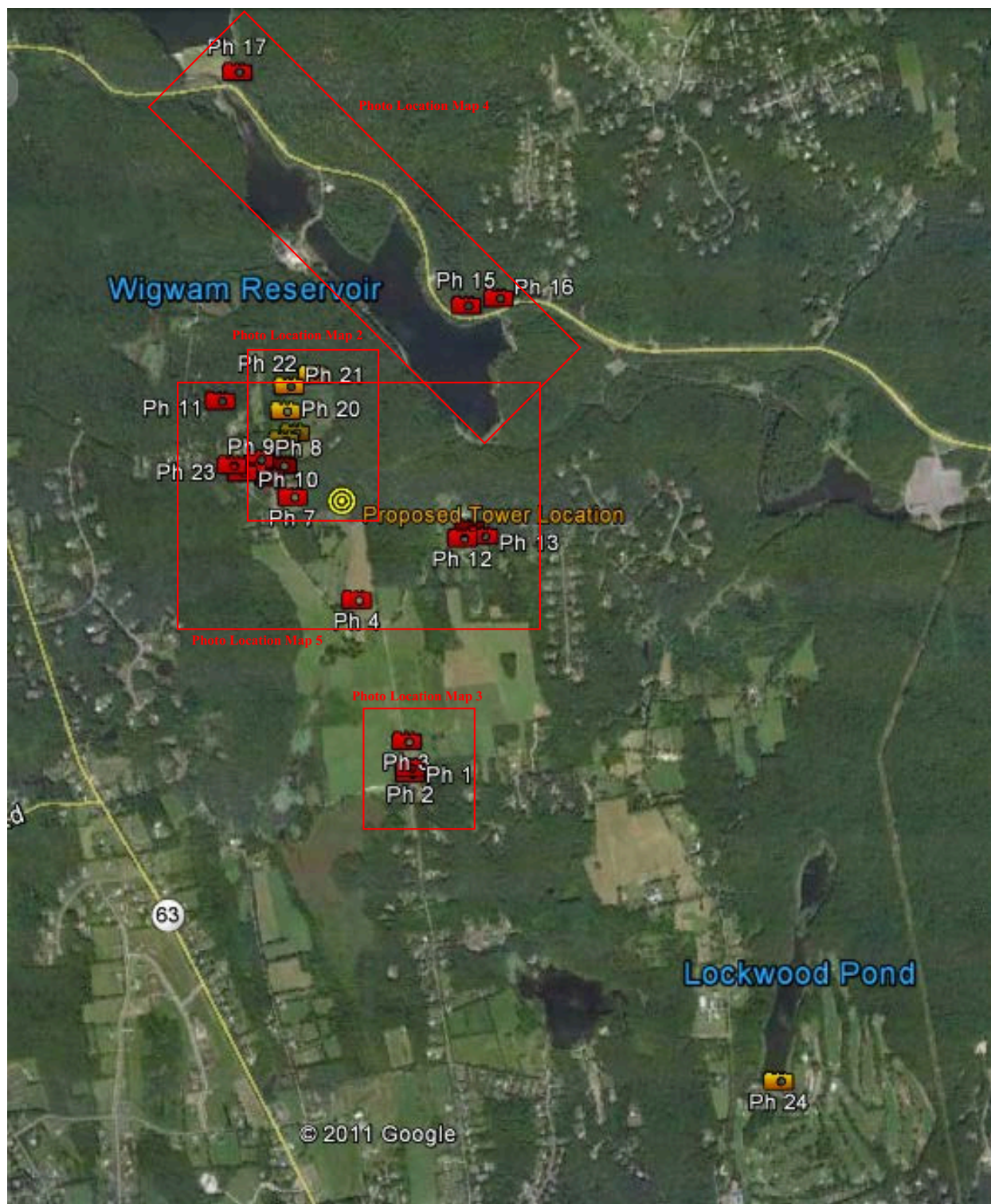
Legend

- Proposed Tower Location
- Approximate Year-Round Visibility Area (+/- 1259 acres)
- Protected Municipal and Private Open Space (CT DEP, 1997)
- Cemetery
- Preservation
- Conservation
- Existing Preserved Open Space
- Recreation
- General Recreation
- School
- Uncategorized
- CT DEP Property (CT DEP, December 2010)
- State Forest
- State Park
- DEP Owned Waterbody
- State Park Scenic Reserve
- Historic Preserve
- Natural Area Preserve
- Fish Hatchery
- Flood Control
- Other
- State Park Trail
- Water Access
- Wildlife Area
- Wildlife Sanctuary
- Federal Open Space (CT DEP, 2004)
- Boat Launches (CT DEP, Dec 2009)
- Scenic Road (State and Local)
- Mattatuck Trail (CT Blue Blaze)
- Town Line

Inset Map
Town of Watertown



APPENDIX C
PHOTO LOCATION MAPS



-  Balloon not visible from this location
-  Balloon visible from this location

Photo Location Map 2 depicts the area of the Evergreen Berry Farm.

Photo Location Map 3 depicts the Linkfield Road area.

Photo Location Map 4 depicts the Wigwam Reservoir area.

Photo Location Map 5 depicts the Bassett Road – Gilbert Road area.

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11 Herbert Drive
Latham, New York 12110

**PHOTO LOCATION MAP 1 – NOVEMBER 3, 2011 BALLOON TEST
All Photo Locations**

CLIENT NAME: North Atlantic Towers	SITE LOCATION: 655 Bassett Road Watertown, Connecticut	PROJECT NAME: NAT – Watertown	PROJECT NO.: 226-015
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CLIENT NAME:
North Atlantic Towers

SITE LOCATION:
655 Bassett Road
Watertown, Connecticut

PROJECT NAME:
NAT-Watertown

PROJECT NO.:
226-015



-  Balloon not visible from this location
-  Balloon visible from this location



CLIENT NAME:
North Atlantic Towers

SITE LOCATION:
655 Bassett Road
Watertown, Connecticut

PROJECT NAME:
NAT-Watertown

PROJECT NO.:
226-015



-  Balloon not visible from this location
-  Balloon visible from this location



NORTH

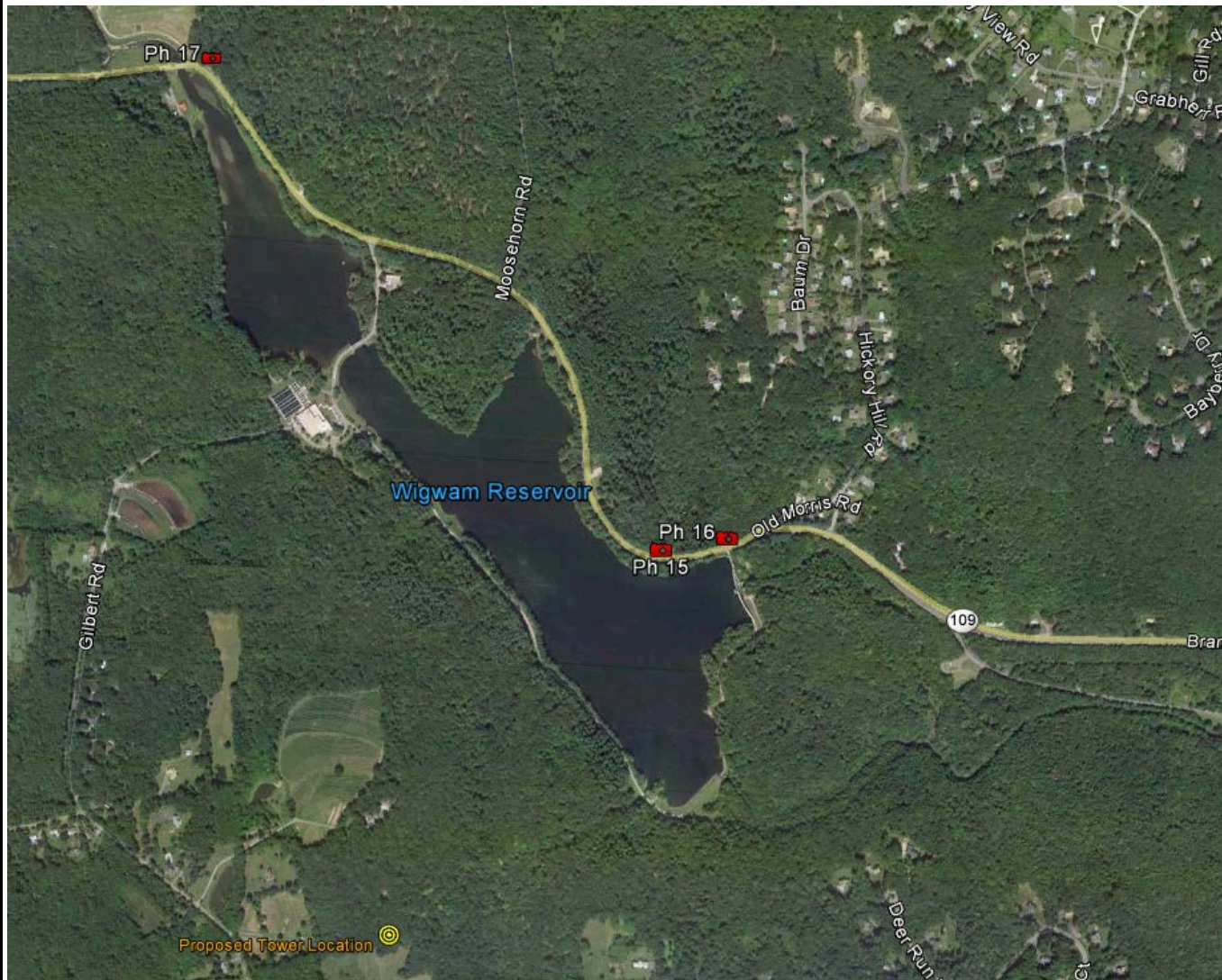
PHOTO LOCATION MAP 4– NOVEMBER 3, 2011 BALLOON TEST
Wigwam Reservoir Area Photo Locations

CLIENT NAME:
North Atlantic Towers

SITE LOCATION:
655 Bassett Road
Watertown, Connecticut

PROJECT NAME:
NAT-Watertown

PROJECT NO.:
226-015



-  Balloon not visible from this location
-  Balloon visible from this location

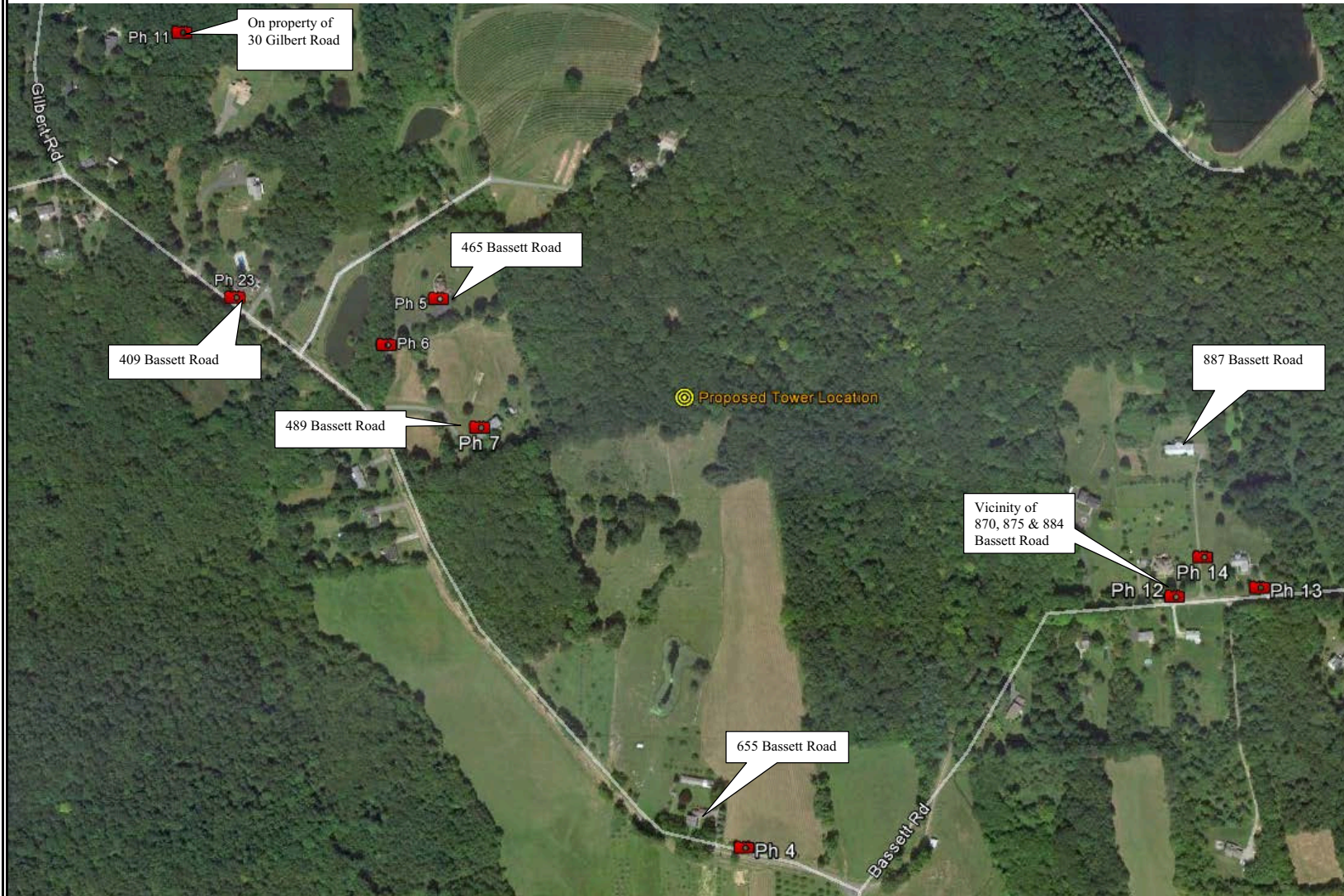


CLIENT NAME:
North Atlantic Towers

SITE LOCATION:
655 Bassett Road
Watertown, Connecticut

PROJECT NAME:
NAT-Watertown

PROJECT NO.:
226-015



Balloon not visible from this location
 Balloon visible from this location



APPENDIX D
PHOTOGRAPHS

CLIENT NAME:
North Atlantic Towers

SITE LOCATION:
655 Bassett Road
Watertown, CT 06795

PROJECT NAME:
NAT-Watertown

PROJECT NO.:
226-015

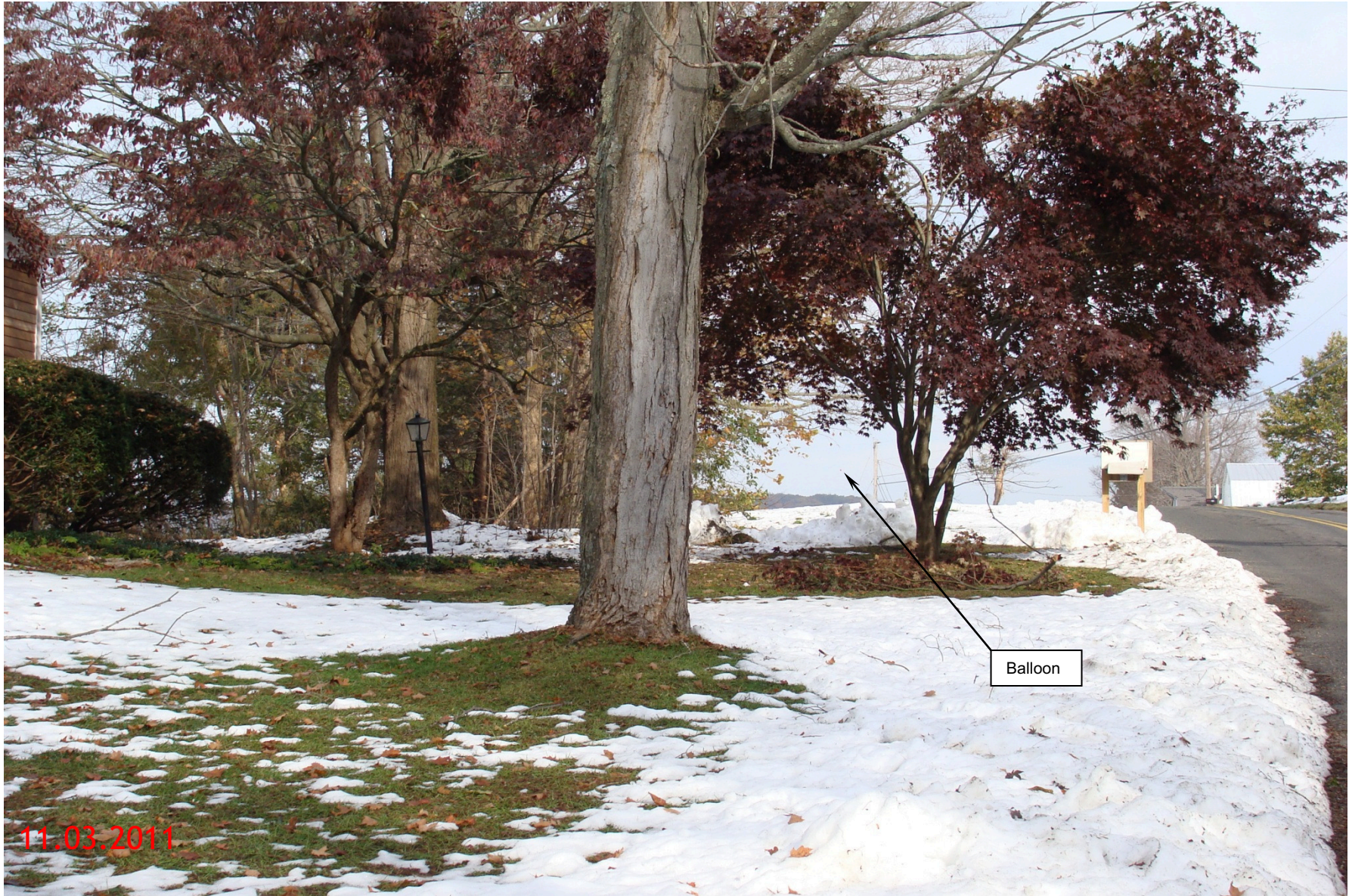


CLIENT NAME:
North Atlantic Towers

SITE LOCATION:
655 Bassett Road
Watertown, CT 06795

PROJECT NAME:
NAT-Watertown

PROJECT NO.:
226-015



11.03.2011

CLIENT NAME:
North Atlantic Towers

SITE LOCATION:
655 Bassett Road
Watertown, CT 06795

PROJECT NAME:
NAT-Watertown

PROJECT NO.:
226-015



CLIENT NAME:
North Atlantic Towers

SITE LOCATION:
655 Bassett Road
Watertown, CT 06795

PROJECT NAME:
NAT-Watertown

PROJECT NO.:
226-015



CLIENT NAME:
North Atlantic Towers

SITE LOCATION:
655 Bassett Road
Watertown, CT 06795

PROJECT NAME:
NAT-Watertown

PROJECT NO.:
226-015



CLIENT NAME:
North Atlantic Towers

SITE LOCATION:
655 Bassett Road
Watertown, CT 06795

PROJECT NAME:
NAT-Watertown

PROJECT NO.:
226-015



CLIENT NAME:
North Atlantic Towers

SITE LOCATION:
655 Bassett Road
Watertown, CT 06795

PROJECT NAME:
NAT-Watertown

PROJECT No.:
226-015



CLIENT NAME:
North Atlantic Towers

SITE LOCATION:
655 Bassett Road
Watertown, CT 06795

PROJECT NAME:
NAT-Watertown

PROJECT NO.:
226-015



CLIENT NAME:
North Atlantic Towers

SITE LOCATION:
655 Bassett Road
Watertown, CT 06795

PROJECT NAME:
NAT-Watertown

PROJECT NO.:
226-015



CLIENT NAME:
North Atlantic Towers

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655 Bassett Road
Watertown, CT 06795

PROJECT NAME:
NAT-Watertown

PROJECT NO.:
226-015



CLIENT NAME:
North Atlantic Towers

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655 Bassett Road
Watertown, CT 06795

PROJECT NAME:
NAT-Watertown

PROJECT NO.:
226-015



CLIENT NAME:
North Atlantic Towers

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655 Bassett Road
Watertown, CT 06795

PROJECT NAME:
NAT-Watertown

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226-015



CLIENT NAME:
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655 Bassett Road
Watertown, CT 06795

PROJECT NAME:
NAT-Watertown

PROJECT NO.:
226-015



11.03.2011

CLIENT NAME:
North Atlantic Towers

SITE LOCATION:
655 Bassett Road
Watertown, CT 06795

PROJECT NAME:
NAT-Watertown

PROJECT NO.:
226-015



CLIENT NAME:
North Atlantic Towers

SITE LOCATION:
655 Bassett Road
Watertown, CT 06795

PROJECT NAME:
NAT-Watertown

PROJECT NO.:
226-015



CLIENT NAME:
North Atlantic Towers

SITE LOCATION:
655 Bassett Road
Watertown, CT 06795

PROJECT NAME:
NAT-Watertown

PROJECT No.:
226-015



CLIENT NAME:
North Atlantic Towers

SITE LOCATION:
655 Bassett Road
Watertown, CT 06795

PROJECT NAME:
NAT-Watertown

PROJECT NO.:
226-015



CLIENT NAME:
North Atlantic Towers

SITE LOCATION:
655 Bassett Road
Watertown, CT 06795

PROJECT NAME:
NAT-Watertown

PROJECT NO.:
226-015



11.03.2011



11 Herbert Drive
Latham, New York 12110

Photo 19 (Balloon not visible)

Date: 11/3/2011

**Looking SE from SW corner of the blueberry field at the Evergreen
Berry Farm, approximately 0.19 miles from proposed tower**

CLIENT NAME:
North Atlantic Towers

SITE LOCATION:
655 Bassett Road
Watertown, CT 06795

PROJECT NAME:
NAT-Watertown

PROJECT NO.:
226-015





11 Herbert Drive
Latham, New York 12110

Photo 20 (Balloon not visible)

Date: 11/3/2011

**Looking SE from western edge of blueberry field at the Evergreen
Berry Farm, approximately 0.25 miles from proposed tower**

CLIENT NAME:
North Atlantic Towers

SITE LOCATION:
655 Bassett Road
Watertown, CT 06795

PROJECT NAME:
NAT-Watertown

PROJECT NO.:
226-015



CLIENT NAME:
North Atlantic Towers

SITE LOCATION:
655 Bassett Road
Watertown, CT 06795

PROJECT NAME:
NAT-Watertown

PROJECT NO.:
226-015



CLIENT NAME:
North Atlantic Towers

SITE LOCATION:
655 Bassett Road
Watertown, CT 06795

PROJECT NAME:
NAT-Watertown

PROJECT NO.:
226-015



CLIENT NAME:
North Atlantic Towers

SITE LOCATION:
655 Bassett Road
Watertown, CT 06795

PROJECT NAME:
NAT-Watertown

PROJECT NO.:
226-015





11 Herbert Drive
Latham, New York 12110

Photo 24 (Balloon not visible)

Date: 11/3/2011

**Looking NW from driveway for Crestbrook Park, adjacent to
southern end of Lockwood Pond, approximately 1.97 miles from
proposed tower**

CLIENT NAME:
North Atlantic Towers

SITE LOCATION:
655 Bassett Road
Watertown, CT 06795

PROJECT NAME:
NAT-Watertown

PROJECT NO.:
226-015



APPENDIX E

FIELD-VERIFIED VISIBILITY MAPS



11 Herbert Drive
Latham, New York 12110

FIELD-VERIFIED VISIBILITY MAP 1 – NOVEMBER 3, 2011 BALLOON TEST
Evergreen Berry Farm Area

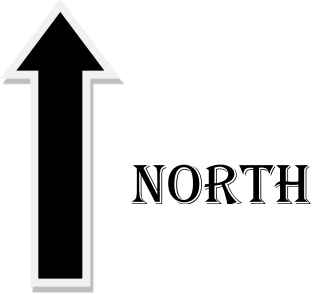
*Shaded areas indicate where balloon was visible during the test.

CLIENT NAME: North Atlantic Towers	SITE LOCATION: 655 Bassett Road Watertown, Connecticut	PROJECT NAME: NAT-Watertown	PROJECT NO.: 226-015
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 Balloon not visible from this location

 Balloon visible from this location



NOTE: Visibility from areas along the southwestern portion of the driveway for the Evergreen Berry Farm is expected during winter, leaf-off conditions only. Views will be obstructed by the trees to the east of the driveway.

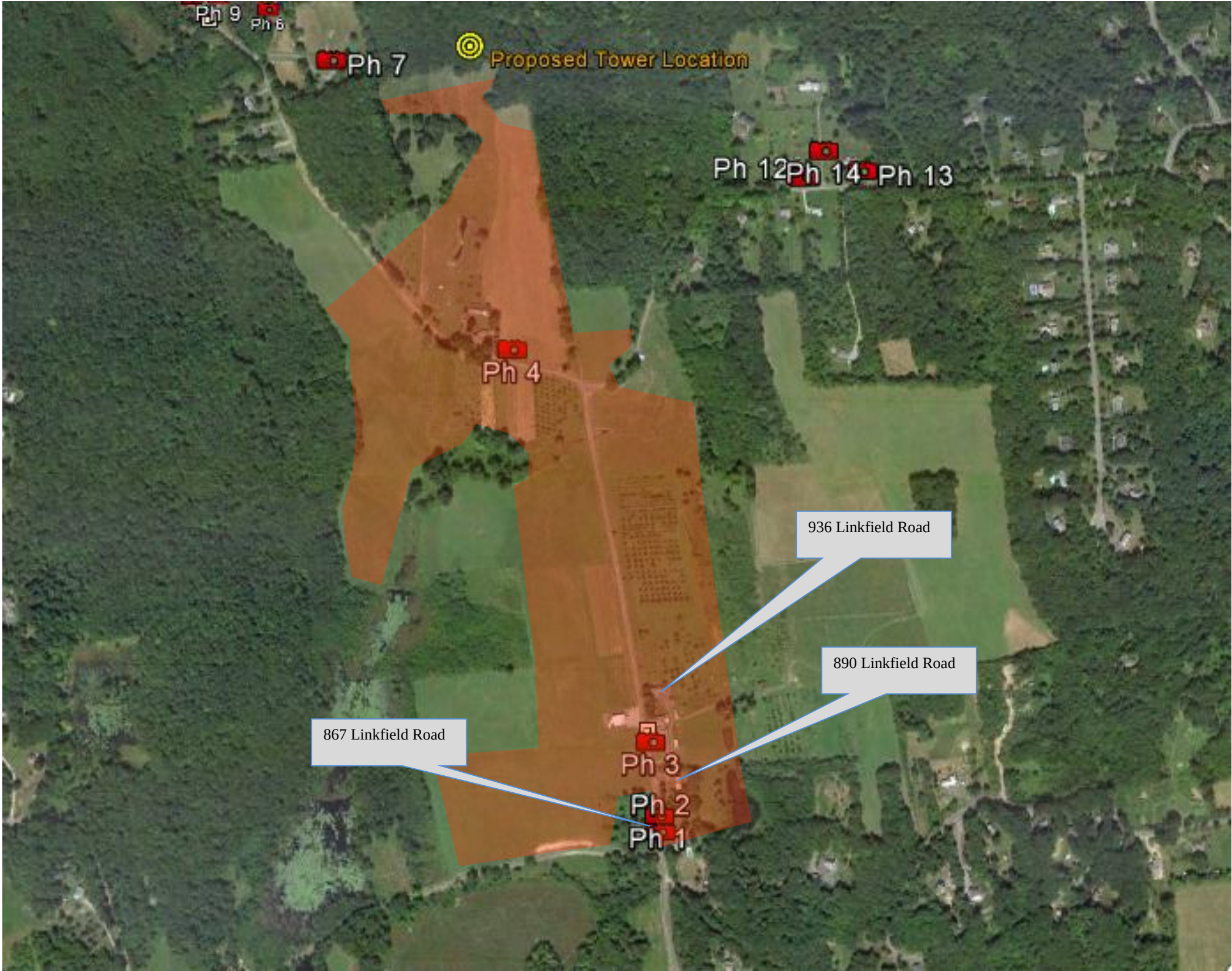


11 Herbert Drive
Latham, New York 12110

FIELD-VERIFIED VISIBILITY MAP 2 – NOVEMBER 3, 2011 BALLOON TEST
Linkfield Road Area

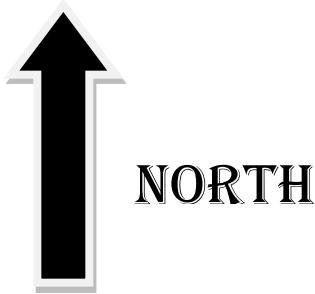
*Red shaded areas indicate where balloon was visible during test

CLIENT NAME: North Atlantic Towers	SITE LOCATION: 655 Bassett Road Watertown, Connecticut	PROJECT NAME: NAT-Watertown	PROJECT NO.: 226-015
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 Balloon not visible from this location

 Balloon visible from this location



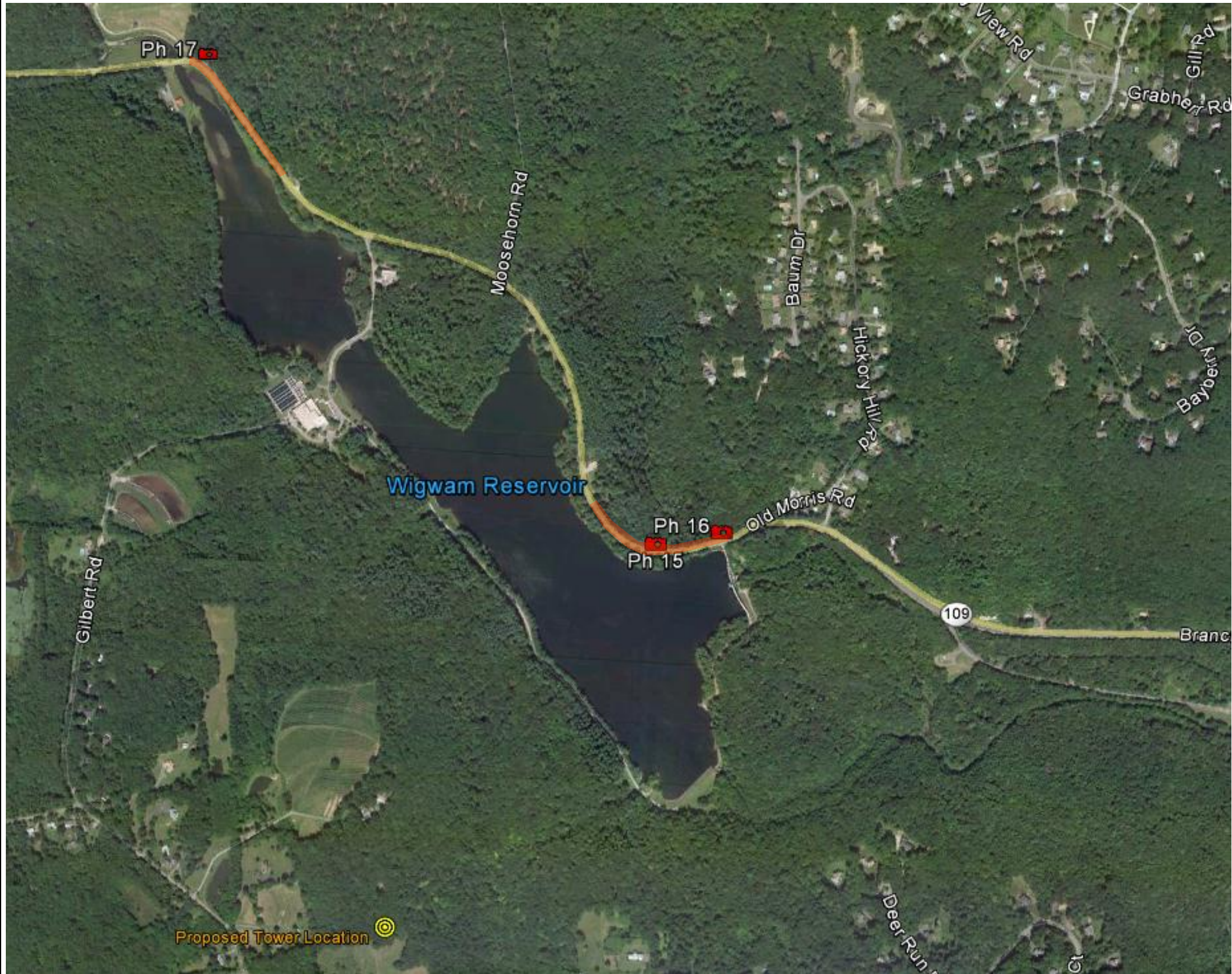


11 Herbert Drive
Latham, New York 12110

FIELD-VERIFIED VISIBILITY MAP 3 – NOVEMBER 3, 2011 BALLOON TEST
Wigwam Reservoir Area

*Red shaded areas indicate where the balloon was visible during the test

CLIENT NAME: North Atlantic Towers	SITE LOCATION: 655 Bassett Road Watertown, Connecticut	PROJECT NAME: NAT-Watertown	PROJECT NO.: 226-015
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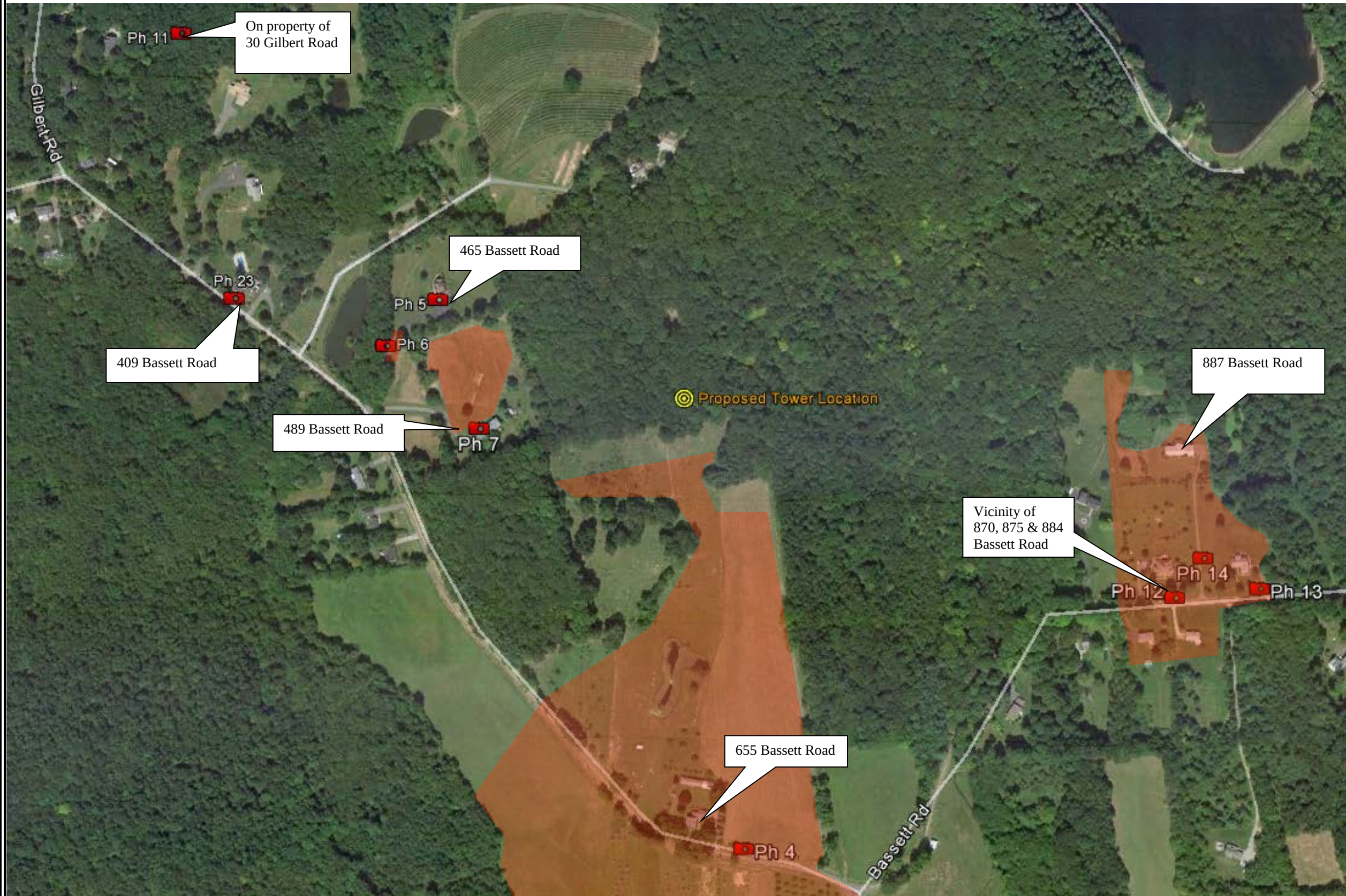


CLIENT NAME:
North Atlantic Towers

SITE LOCATION:
655 Bassett Road
Watertown, Connecticut

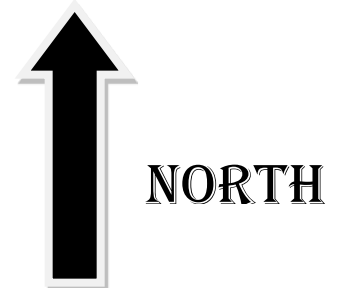
PROJECT NAME:
NAT-Watertown

PROJECT NO.:
226-015



 Balloon not visible from this location

 Balloon visible from this location



APPENDIX F
MONOPOLE PHOTOSIMULATIONS



Existing View



11.03.2011

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NORTH ATLANTIC
TOWERS

Site Location

655 Bassett Road,
Litchfield County,
Watertown, CT 06795

Watertown - Photo 1

CT-1140

150' Monopole Simulation

View from driveway for property at #867 Linkfield
Road, approx. 0.77 miles South-Southeast of the
proposed site. Focal length approximately 52 mm.



Existing View



Watertown - Photo 2
CT-1140

150' Monopole Simulation

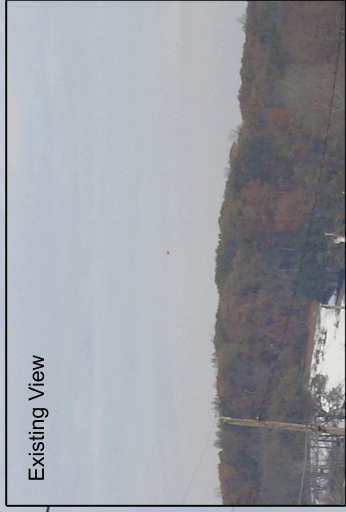
View from Linkfield Road, south of driveway entrance for property at #867 Linkfield Road (northeast corner of house at far left in photo), approx. 0.78 miles South-Southeast of the proposed site. Focal length approx. 58 mm.

Site Location

655 Bassett Road,
Litchfield County,
Watertown, CT 06795



Existing View



Site Location
655 Bassett Road,
Litchfield County,
Watertown, CT 06795

Watertown - Photo 3
CT-1140

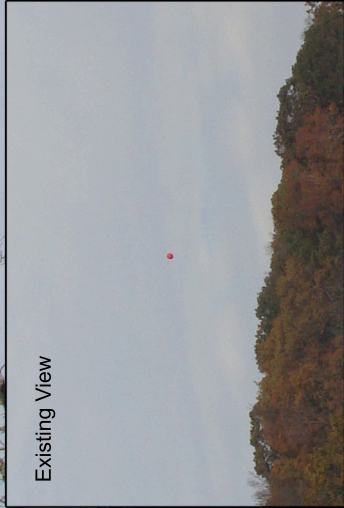
150' Monopole Simulation

View from Linkfield Road, north of property at #890
Linkfield Road, approx. 0.70 miles South-Southeast of
the proposed site. Focal length approximately 58 mm.

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engineering

NORTH ATLANTIC
TOWERS

Existing View



Site Location

655 Bassett Road,
Litchfield County,
Watertown, CT 06795

Watertown - Photo 4

CT-1140

150' Monopole Simulation

View from Bassett Road, southeast of residence at
#655 Bassett Road, approx. 0.30 miles South of the
proposed site. Focal length approximately 54 mm.



Existing View

Simulated
150' Monopole



Watertown - Photo 5

CT-1140

150' Monopole Simulation

View from turn-around area adjacent to garage (south of residence)
at #465 Basset Road, approx. 0.17 miles West-Northwest of the
proposed site. Focal length approximately 54 mm.

Site Location

655 Basset Road,
Litchfield County,
Watertown, CT 06795



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Existing View



Site Location
655 Bassett Road,
Litchfield County,
Watertown, CT 06795

Watertown - Photo 6
CT-1140
150' Monopole Simulation
View from driveway for #465 Bassett Road, approx.
0.20 miles West of the proposed site. Focal length
approximately 55 mm.



Existing View



Site Location

655 Bassett Road,
Litchfield County,
Watertown, CT 06795

Watertown - Photo 7

CT-1140

150° Monopole Simulation

View from area adjacent to residence at #489 Bassett Road, approx. 0.14 miles West of the proposed site.
Focal length approximately 58 mm.



Existing View

Simulated
150' Monopole



Site Location
655 Bassett Road,
Litchfield County,
Watertown, CT 06795

Watertown - Photo 8
CT-1140
150' Monopole Simulation
View from driveway for Evergreen Berry Farm,
approx. 0.24 miles West-Northwest of the proposed
site. Focal length approximately 58 mm.



Existing View

Simulated
150' Monopole



Site Location

655 Bassett Road,
Litchfield County,
Watertown, CT 06795

Watertown - Photo 9
CT-1140

150' Monopole Simulation

View from driveway for Evergreen Berry Farm, adjacent to
black raspberry bushes, approx. 0.25 miles West of the
proposed site. Focal length approximately 58 mm.



Existing View



Site Location

655 Bassett Road,
Litchfield County,
Watertown, CT 06795

Watertown - Photo 10

CT-1140

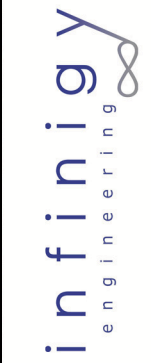
150' Monopole Simulation

View from Bassett Road, just north of entrance to Evergreen Berry Farm, approx. 0.27 miles West of the proposed site.
Focal length approximately 59 mm.





Existing View



Site Location
655 Bassett Road,
Litchfield County,
Watertown, CT 06795

Watertown - Photo 11
CT-1140
150' Monopole Simulation
View from within wooded area east of residence at #30
Gilbert Road, approx. 0.40 miles Northwest of the
proposed site. Focal length approximately 57 mm.



Existing View



Site Location

655 Bassett Road,
Litchfield County,
Watertown, CT 06795

Watertown - Photo 12

CT-1140

150' Monopole Simulation

View from Bassett Road, in the vicinity of properties at #870, #875 and #884 Bassett Road, approx. 0.35 miles East-Southeast of the proposed site. Focal length approximately 57 mm.



Existing View



Site Location

655 Bassett Road,
Litchfield County,
Watertown, CT 06795

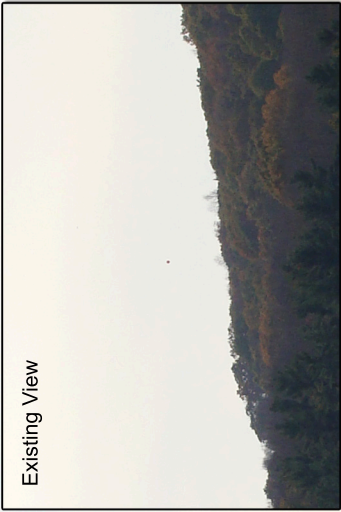
Watertown - Photo 13

CT-1140

150' Monopole Simulation

View from Bassett Road, east of driveway for residence at #887 Bassett Road, approx. 0.40 miles East-Southeast of the proposed site. Focal length approximately 60 mm.

Existing View



0444



Watertown - Photo 16

CT-1140

150' Monopole Simulation

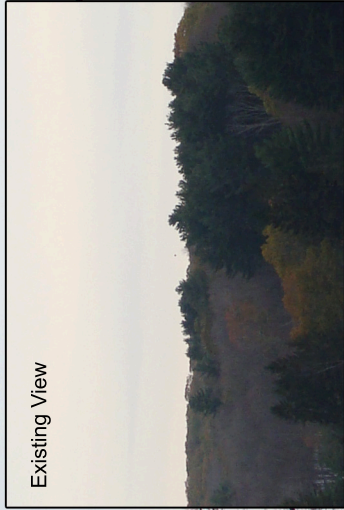
View from Route 109, at the Watertown Water Authority access to Wigwam Reservoir, along the southeastern portion of the reservoir, approx. 0.66 miles Northeast of the proposed site. Focal length approximately 59mm.

Site Location

655 Bassett Road,
Litchfield County,
Watertown, CT 06795



Existing View



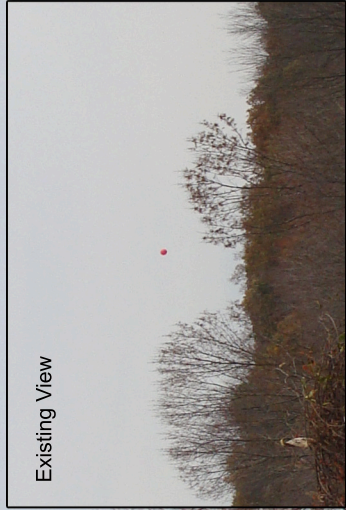
Site Location
655 Bassett Road,
Litchfield County,
Watertown, CT 06795

Watertown - Photo 17
CT-1140

150' Monopole Simulation
View from Route 109, near the northern end of Wigwam
Reservoir, approx. 1.16 miles North-Northwest of the
proposed site. Focal length approximately 58 mm.



Existing View



Site Location

655 Bassett Road,
Litchfield County,
Watertown, CT 06795

Watertown - Photo 23

CT-1140

150' Monopole Simulation

View from Bassett Road, near residence at #409
Bassett Road, approx. 0.30 miles West-Northwest of
the proposed site. Focal length approximately 56 mm.



APPENDIX G

MONOPINE AND LOW-PROFILE MONOPOLE PHOTOSIMULATIONS (SELECT LOCATIONS)



Existing View



Watertown - Photo 2
CT-1140

150' Low-profile Monopole Simulation

View from Linkfield Road, south of driveway entrance for property at #867 Linkfield Road (northeast corner of house at far left in photo), approx. 0.78 miles South-Southeast of the proposed site. Focal length approx. 58 mm.

Site Location

655 Bassett Road,
Litchfield County,
Watertown, CT 06795





Existing View



Watertown - Photo 2

CT-1140

150' Monopine Simulation

View from Linkfield Road, south of driveway entrance for property at #867 Linkfield Road (northeast corner of house at far left in photo), approx. 0.78 miles South-Southeast of the proposed site. Focal length approx. 58 mm.

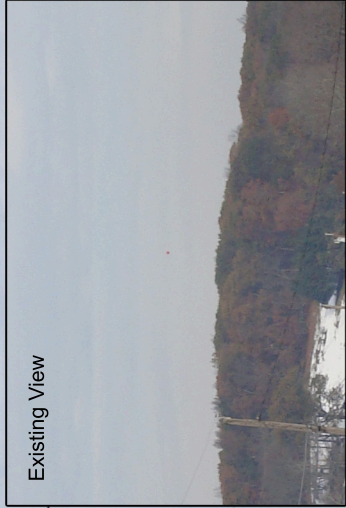
Site Location

655 Bassett Road,
Litchfield County,
Watertown, CT 06795



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Existing View



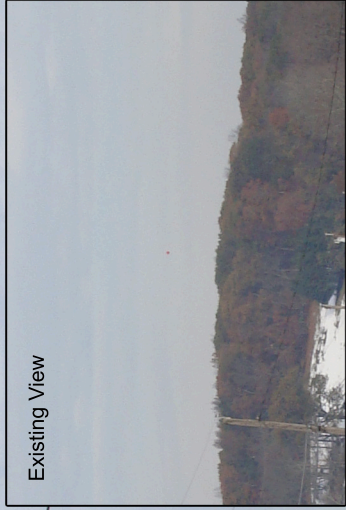
Site Location
655 Bassett Road,
Litchfield County,
Watertown, CT 06795

Watertown - Photo 3
CT-1140
150' Low-Profile Monopole Simulation
View from Linkfield Road, north of property at #890
Linkfield Road, approx. 0.70 miles South-Southeast of the
proposed site. Focal length approximately 58 mm.

infinigy
engineering

NORTH ATLANTIC
TOWERS

Existing View



Site Location
655 Bassett Road,
Litchfield County,
Watertown, CT 06795

Watertown - Photo 3
CT-1140

150' Monopine Simulation

View from Linkfield Road, north of property at #890
Linkfield Road, approx. 0.70 miles South-Southeast of
the proposed site. Focal length approximately 58 mm.

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Existing View



Site Location

655 Bassett Road,
Litchfield County,
Watertown, CT 06795

Watertown - Photo 10

CT-1140

150' Low-Profile Monopole Simulation

View from Bassett Road, just north of entrance to Evergreen Berry Farm, approx. 0.27 miles west of the proposed site.
Focal length approximately 59 mm.



Existing View



Site Location

655 Bassett Road,
Litchfield County,
Watertown, CT 06795

Watertown - Photo 10

CT-1140

150' Monopine Simulation

View from Bassett Road, just north of entrance to Evergreen Berry Farm, approx. 0.27 miles West of the proposed site.
Focal length approximately 59 mm.





Existing View

Site Location

655 Bassett Road,
Litchfield County,
Watertown, CT 06795

Watertown - Photo 11

CT-1140

150' Low-Profile Monopole Simulation

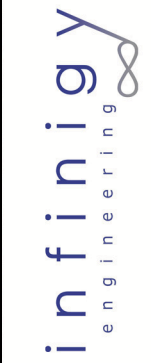
View from within wooded area east of residence at #30
Gilbert Road, approx. 0.40 miles Northwest of the
proposed site. Focal length approximately 57 mm.



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Existing View



Site Location

655 Bassett Road,
Litchfield County,
Watertown, CT 06795

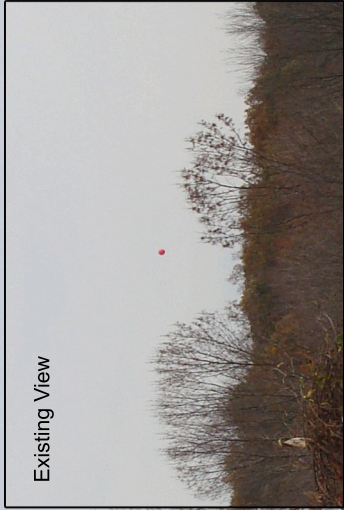
Watertown - Photo 11

CT-1140

150' Monopine Simulation

View from within wooded area east of residence at #30
Gilbert Road, approx. 0.40 miles Northwest of the
proposed site. Focal length approximately 57 mm.

Existing View



Site Location

655 Bassett Road,
Litchfield County,
Watertown, CT 06795

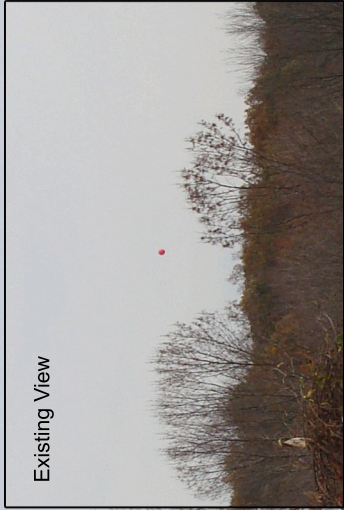
Watertown - Photo 23

CT-1140

150' Low-Profile Monopole Simulation

View from Bassett Road, near residence at #409 Bassett Road,
approx. 0.30 miles West-Northwest of the proposed site. Focal
length approximately 56 mm.

Existing View



Site Location

655 Bassett Road,
Litchfield County,
Watertown, CT 06795

Watertown - Photo 23

CT-1140

150' Monopine Simulation

View from Bassett Road, near residence at #409
Bassett Road, approx. 0.30 miles West-Northwest of
the proposed site. Focal length approximately 56 mm.