

STATE OF CONNECTICUT  
DEPARTMENT OF ENVIRONMENTAL PROTECTION



April 12, 2007

Ms. Nicole Dentamaro  
VHB, Inc.  
54 Tuttle Place  
Middletown, CT 06457

Re: Optasite Facility at 1 Deerfield  
Lane, Ansonia

Dear Ms. Dentamaro:

I have reviewed Natural Diversity Data Base maps and files regarding the area delineated on the map you provided for the proposed Optasite Facility at 1 Deerfield Lane in Ansonia, Connecticut. According to our information there are no known extant populations of Federal or State Endangered, Threatened or Special Concern Species that occur at the site in question.

Natural Diversity Data Base information includes all information regarding critical biological resources available to us at the time of the request. This information is a compilation of data collected over the years by the Natural Resources Center's Geological and Natural History Survey and cooperating units of DEP, private conservation groups and the scientific community. This information is not necessarily the result of comprehensive or site-specific field investigations. Consultations with the Data Base should not be substitutes for on-site surveys required for environmental assessments. Current research projects and new contributors continue to identify additional populations of species and locations of habitats of concern, as well as, enhance existing data. Such new information is incorporated into the Data Base as it becomes available.

Please contact me if you have further questions at 424-3592. Thank you for consulting the Natural Diversity Data Base. Also be advised that this is a preliminary review and not a final determination. A more detailed review may be conducted as part of any subsequent environmental permit applications submitted to DEP for the proposed site.

Sincerely,

Dawn M. McKay  
Biologist/Environmental Analyst



AST

Wednesday, March 14, 2007

<p><b>LEGAL NOTICE</b></p> <p>Optasite Towers LLC is proposing to install a new wireless telecommunications facility, consisting of a ±150-foot tall monopole, antenna and associated ground equipment to be developed on portions of property located at 1 Deerfield Lane in Ansonia, Connecticut. This facility will provide improved wireless coverage to areas of Ansonia.</p> <p>Parties interested in submitting comments regarding any potential effects of the proposed facility on historic properties may do so by sending comments to Vanasse Hangen Brustlin, Inc. 54 Tuttle Place, Middletown, CT 06457, to the attention of Nicole Dentamaro. Questions about this proposed project may be submitted via regular mail, email to <a href="mailto:ndentamaro@vhb.com">ndentamaro@vhb.com</a>, or by calling (860) 632-1500 ext. 2317.</p> <p>VHB will be accepting comments and / or questions within 30 days of the date of this publication. Therefore, all comments or questions regarding this matter should be postmarked/submitted by no later than April 13, 2007.</p> <p><b>LEGAL NOTICE</b> Southern Connecticut State University REQUEST FOR QUOTATION</p>	<p><b>LEGAL NOTICE</b></p> <p><b>NOTICE OF PUBLIC AUCTION FORECLOSURE SALE:</b> <b>SINGLE FAMILY 141 NOBLE STREET; WEST HAVEN</b></p> <p>Pursuant to a judgment of the Superior Court for the Judicial District of New Haven at New Haven in: Deutsche Bank National Trust Company, Trustee of Ameriquest Mortgage Inc. v. Eric Voigt, Executor of the Estate, Docket No. NNH-CV-06-5003516S, the property named above will be sold, subject to Court approval, at public auction on Saturday, March 24, 2007 at 11:00 AM on the premises.</p> <p>The successful bidder shall deposit with the Committee, at the time of the sale, a certified check or bank check in the amount of Fifteen Thousand Five Hundred Dollars (\$15,500.00). The balance of the proceeds is to be paid no later than thirty (30) days from the approval of the sale by the Court. If the purchaser is unable to complete the sale within said thirty (30) day period, the deposit shall be forfeited.</p>	<p><b>LEGAL NOTICE</b></p> <p><b>NOTICE OF PUBLIC AUCTION FORECLOSURE SALE:</b> <b>RESIDENTIAL 18 BENTON STREET, HAMDEN, CT</b></p> <p>Pursuant to a judgment of the Superior Court for the Judicial District of New Haven at New Haven in: Nationwide Advantage Mortgage v. Hector Sanchez, et al Docket No. NNH CV 06 500 6110S, the property named above will be sold, subject to Court approval, at public auction on Saturday, March 24, 2007 at 11:00 a.m. on the premises.</p> <p>The successful bidder shall deposit with the Committee, at the time of the sale, a certified check or bank check in the amount of Sixteen Thousand Four Hundred Dollars (\$16,400.00). The balance of the proceeds is to be paid no later than thirty (30) days from the approval of the sale by the Court. If the purchaser is unable to complete the sale within the thirty (30) day period, the deposit shall be forfeited.</p> <p>Further description of the</p>	<p><b>LEGAL NOTICE</b></p> <p><b>STATE OF CONN Superior Court Juvenile Matters ORDER OF NOTICE</b> <b>NOTICE TO: WARREN LYDE of parts unknown</b></p> <p>A petition/motion has been filed seeking: The petition, whereby the court's decision can effect your parental rights, if any, regarding minor child(ren) will be heard on: 4.11.07 at 11:00 A.M. at Superior Court for Juvenile Matters, 239 Whalley Ave., New Haven, CT 06511. Therefore, ORDERED, that notice of the hearing of this petition be given by publishing this Order of Notice once on 3/14/2007, in the NEW HAVEN REGISTER, a newspaper having a circulation in the town/city of: NEW HAVEN, CONNECTICUT.</p> <p>Hon. J. Bernadette Conway, Judge Beth Marsan, Clerk 3/9/07</p> <p>Right to Counsel: Upon proof of inability to pay for a lawyer, the court will provide one for you at court expense. Any such request should be made immediately at the court office where your hearing is to be held. 1871242</p> <hr/> <p><b>MILFORD</b> <b>LEGAL NOTICE</b></p>
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*Vanasse Hangen Brustlin, Inc.*

March 19, 2007

Mr. Kevin Blake, Corporate Council  
253 Main Street  
Ansonia, CT 06401

To comply with Section 106 of the National Historic Preservation Act (NHPA) of 1966, as amended, Optasite Towers LLC (Optasite) has retained Vanasse Hangen Brustlin, Inc. (VHB) to evaluate proposed tower facilities for any adverse effect it may have on historic properties. As part of this evaluation, and in conformance with the Nationwide Programmatic Agreement (NPA) for review of effects on historic properties for proposed undertakings, VHB is submitting this tower construction notification to the Town of Ansonia municipal offices and Municipal Historian.

Optasite is proposing to install a new wireless telecommunication facility, consisting of a ±150-foot tall monopole, antenna, and associated ground equipment to be developed on property located at 1 Deerfield Lane in Ansonia, Connecticut. This facility will provide improved wireless coverage to areas of Ansonia.

The purpose of this letter is to notify the Town of Ansonia that public notice of this proposed facility was published in the New Haven Register on March 15, 2007 and to invite comments regarding any potential effects that the proposed facility may have upon historic properties from relevant individuals or groups that you may be aware of.

Parties interested in submitting comments regarding any potential effects of the proposed facility on historic properties may do so by sending them to Vanasse Hangen Brustlin, Inc., 54 Tuttle Place, Middletown, CT, 06457, to the attention of Nicole Dentamaro. Questions about this proposed project may be submitted via mail to the above address, emailed to [ndentamaro@vhb.com](mailto:ndentamaro@vhb.com), or by calling (860) 632-1500 ext. 2317.

VHB will be accepting comments and/or questions within 30 days of the date of this publication. Therefore, all comments or questions regarding this matter should be postmarked/submitted by no later than April 13, 2007.



*Vanasse Hangen Brustlin, Inc.*

March 19, 2007

Ms. Margaret J. Gibbs, D.H. Litt.  
Municipal Historian  
253 Main Street  
Ansonia, CT 06401

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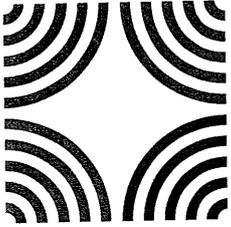
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VHB will be accepting comments and/or questions within 30 days of the date of this publication. Therefore, all comments or questions regarding this matter should be postmarked/submitted by no later than April 13, 2007.

54 Tuttle Place  
Middletown, Connecticut 06457-1847  
**860.632.1500 • FAX 860.632.7879**  
email: [info@vhb.com](mailto:info@vhb.com)  
[www.vhb.com](http://www.vhb.com)



Connecticut Commission on Culture & Tourism

May 3, 2007

Historic Preservation  
& Museum Division

Ms. Nicole Dentamaro  
Vanasse Hangen Brustlin Inc.  
54 Tuttle Place  
Middletown, CT 06457-1847

59 South Prospect Street  
Hartford, Connecticut  
06106

(v) 860.566.3005  
(f) 860.566.5078

Subject: Telecommunications Facilities  
1 Deerfield Lane  
Ansonia, CT  
Optasite #CT-999-0099-Woodbridge

Dear Ms. Dentamaro:

The State Historic Preservation Office has reviewed the above-named project. This office expects that the proposed undertaking will have no effect on historic, architectural, or archaeological resources listed on or eligible for the National Register of Historic Places.

This office appreciates the opportunity to have reviewed and commented upon the proposed undertaking.

This comment is provided in accordance with the National Historic Preservation Act and the Connecticut Environmental Policy Act.

For further information, please contact Dr. David A. Poirier, Staff Archaeologist.

Sincerely,

Karen Senich  
Deputy State Historic Preservation Officer



## Dentamaro, Nicole

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**From:** towernotifyinfo@fcc.gov  
**Sent:** Friday, March 02, 2007 3:01 AM  
**To:** Dentamaro, Nicole  
**Cc:** kim.pristello@fcc.gov; diane.dupert@fcc.gov  
**Subject:** NOTICE OF ORGANIZATION(S) WHICH WERE SENT PROPOSED TOWER CONSTRUCTION NOTIFICATION INFORMATION - Email ID #1467456

Dear Sir or Madam:

Thank you for using the Federal Communications Commission's (FCC) Tower Construction Notification System (TCNS). The purpose of this electronic mail message is to inform you that the following authorized persons were sent the information you provided through TCNS, which relates to your proposed antenna structure. The information was forwarded by the FCC to authorized TCNS users by electronic mail and/or regular mail (letter).

Persons who have received the information that you provided include leaders or their designees of federally-recognized American Indian Tribes, including Alaska Native Villages (collectively "Tribes"), Native Hawaiian Organizations (NHOs), and State Historic Preservation Officers (SHPOs). For your convenience in identifying the referenced Tribes and in making further contacts, the City and State of the Seat of Government for each Tribe and NHO, as well as the designated contact person, is included in the listing below. We note that Tribes may have Section 106 cultural interests in ancestral homelands or other locations that are far removed from their current Seat of Government. Pursuant to the Commission's rules as set forth in the Nationwide Programmatic Agreement for Review of Effects on Historic Properties for Certain Undertakings Approved by the Federal Communications Commission (NPA), all Tribes and NHOs listed below must be afforded a reasonable opportunity to respond to this notification, consistent with the procedures set forth below, unless the proposed construction falls within an exclusion designated by the Tribe or NHO. (NPA, Section IV.F.4).

The information you provided was forwarded to the following Tribes and NHOs who have set their geographic preferences on TCNS. If the information you provided relates to a proposed antenna structure in the State of Alaska, the following list also includes Tribes located in the State of Alaska that have not specified their geographic preferences. For these Tribes and NHOs, if the Tribe or NHO does not respond within a reasonable time, you should make a reasonable effort at follow-up contact, unless the Tribe or NHO has agreed to different procedures (NPA, Section IV.F.5). In the event such a Tribe or NHO does not respond to a follow-up inquiry, or if a substantive or procedural disagreement arises between you and a Tribe or NHO, you must seek guidance from the Commission (NPA, Section IV.G). These procedures are further set forth in the FCC's Declaratory Ruling released on October 6, 2005 (FCC 05-176).

1. THPO Kathleen Knowles - Mashantucket Pequot Tribe - Mashantucket, CT - electronic mail  
Exclusions: For every tower construction this Tribe requires a site location map, site plans for every project that will result in ground disturbance, and a detailed description of the proposed site. If the proposed tower construction is on an already existing building, the Tribe would like to be informed of that as well.

2. Cell Tower Coordinator Sequahna Mars - Narragansett Indian Tribe - Wyoming, RI - electronic mail and regular mail

The information you provided was also forwarded to the additional Tribes and NHOs listed below. These Tribes and NHOs have NOT set their geographic preferences on TCNS, and therefore they are currently receiving tower notifications for the entire United States. For these Tribes and NHOs, you are required to use reasonable and good faith efforts to

determine if the Tribe or NHO may attach religious and cultural significance to historic properties that may be affected by its proposed undertaking. Such efforts may include, but are not limited to, seeking information from the relevant SHPO or THPO, Indian Tribes, state agencies, the U.S. Bureau of Indian Affairs, or, where applicable, any federal agency with land holdings within the state (NPA, Section IV.B). If after such reasonable and good faith efforts, you determine that a Tribe or NHO may attach religious and cultural significance to historic properties in the area and the Tribe or NHO does not respond to TCNS notification within a reasonable time, you should make a reasonable effort to follow up, and must seek guidance from the Commission in the event of continued non-response or in the event of a procedural or substantive disagreement. If you determine that the Tribe or NHO is unlikely to attach religious and cultural significance to historic properties within the area, you do not need to take further action unless the Tribe or NHO indicates an interest in the proposed construction or other evidence of potential interest comes to your attention.

None

The information you provided was also forwarded to the following SHPOs in the State in which you propose to construct and neighboring States. The information was provided to these SHPOs as a courtesy for their information and planning. You need make no effort at this time to follow up with any SHPO that does not respond to this notification. Prior to construction, you must provide the SHPO of the State in which you propose to construct (or the Tribal Historic Preservation Officer, if the project will be located on certain Tribal lands), with a Submission Packet pursuant to Section VII.A of the NPA.

3. SHPO John W Shannahan - Connecticut Historical Commission - Hartford, CT - electronic mail
4. SHPO Cara Metz - Massachusetts Historical Commission - Boston, MA - electronic mail
5. Deputy SHPO Brona Simon - Massachusetts Historical Commission - Boston, MA - electronic mail
6. SHPO Bernadette Castro - Parks, Recreation & Historic Preservation - Albany, NY - regular mail
7. Director Ruth L Pierpont - Bureau of Field Services, NY State Parks &\* Hist. Pres. - Waterford, NY - electronic mail
8. SHPO Frederick C Williamson - Rhode Island Historic Preservation & Heritage Comm - Providence, RI - regular mail
9. Deputy SHPO Edward F Sanderson - Rhode Island Historic Preservation & Heritage Comm - Providence, RI - electronic mail

"Exclusions" above set forth language provided by the Tribe, NHO, or SHPO. These exclusions may indicate types of tower notifications that the Tribe, NHO, or SHPO does not wish to review. TCNS automatically forwards all notifications to all Tribes, NHOs, and SHPOs that have an expressed interest in the geographic area of a proposal, as well as Tribes and NHOs that have not limited their geographic areas of interest. However, if a proposal falls within a designated exclusion, you need not expect any response and need not pursue any additional process with that Tribe, NHO, or SHPO. Exclusions may also set forth policies or procedures of a particular Tribe, NHO, or SHPO (for example, types of information that a Tribe routinely requests, or a policy that no response within 30 days indicates no interest in participating in pre-construction review).

If you are proposing to construct a facility in the State of Alaska, you should contact Commission staff for guidance regarding your obligations in the event that Tribes do not respond to this notification within a reasonable time.

Please be advised that the FCC cannot guarantee that the contact(s) listed above opened and reviewed an electronic or regular mail notification. The following information relating to the proposed tower was forwarded to the person(s) listed above:

Notification Received: 02/21/2007  
Notification ID: 25092  
Tower Owner Individual or Entity Name: VHB/Optasite  
Consultant Name: Nicole Dentamaro  
Street Address: 54 Tuttle Place  
City: Middletown  
State: CONNECTICUT  
Zip Code: 06457  
Phone: 860-632-1500  
Email: ndentamaro@vhb.com

Structure Type: POLE - Any type of Pole  
Latitude: 41 deg 21 min 2.7 sec N  
Longitude: 73 deg 2 min 57.3 sec W  
Location Description: 1 Deerfield Lane  
City: Ansonia  
State: CONNECTICUT  
County: NEW HAVEN  
Ground Elevation: 146.6 meters  
Support Structure: 45.7 meters above ground level  
Overall Structure: 45.7 meters above ground level  
Overall Height AMSL: 192.3 meters above mean sea level

If you have any questions or comments regarding this notice, please contact the FCC using the electronic mail form located on the FCC's website at:

<http://wireless.fcc.gov/outreach/notification/contact-fcc.html>.

You may also call the FCC Support Center at (877) 480-3201 (TTY 717-338-2824). Hours are from 8 a.m. to 7:00 p.m. Eastern Time, Monday through Friday (except Federal holidays). To provide quality service and ensure security, all telephone calls are recorded.

Thank you,  
Federal Communications Commission

## Dentamaro, Nicole

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**From:** towernotifyinfo@fcc.gov  
**Sent:** Wednesday, February 28, 2007 11:25 PM  
**To:** Dentamaro, Nicole  
**Cc:** towernotifyinfo@fcc.gov; sequahna@yahoo.com  
**Subject:** Reply to Proposed Tower Structure (Notification ID #25092) - Email ID #1472679

Dear Nicole Dentamaro,

Thank you for using the Federal Communications Commission's (FCC) Tower Construction Notification System (TCNS). The purpose of this email is to inform you that an authorized user of the TCNS has replied to a proposed tower construction notification that you had submitted through the TCNS.

The following message has been sent to you from Cell Tower Coordinator Sequahna Mars of the Narragansett Indian Tribe in reference to Notification ID #25092:

On behalf of the Narragansett Indian Tribe, the Narragansett Indian Tribal Historic Preservation Office is hereby formally initiating consultation and review of cell tower site designated by TCNS # 25092, located in Ansonia, CT. Follow-up on behalf of the cell tower carrier should be initiated by contacting Sequahna Mars, at sequahna@yahoo.com, or Doug Harris, at 401-742-4035, or dh@nithpo.com. Thank you.

For your convenience, the information you submitted for this notification is detailed below.

Notification Received: 02/21/2007  
Notification ID: 25092  
Tower Owner Individual or Entity Name: VHB/Optasite  
Consultant Name: Nicole Nicole  
Street Address: 54 Tuttle Place  
City: Middletown  
State: CONNECTICUT  
Zip Code: 06457  
Phone: 860-632-1500  
Email: ndentamaro@vhb.com

Structure Type: POLE - Any type of Pole  
Latitude: 41 deg 21 min 2.7 sec N  
Longitude: 73 deg 2 min 57.3 sec W  
Location Description: 1 Deerfield Lane  
City: Ansonia  
State: CONNECTICUT  
County: NEW HAVEN  
Ground Elevation: 146.6 meters  
Support Structure: 45.7 meters above ground level  
Overall Structure: 45.7 meters above ground level  
Overall Height AMSL: 192.3 meters above mean sea level

## Dentamaro, Nicole

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**From:** towernotifyinfo@fcc.gov  
**Sent:** Thursday, March 01, 2007 9:49 AM  
**To:** Dentamaro, Nicole  
**Cc:** towernotifyinfo@fcc.gov; KKnowles@mptn-nsn.gov  
**Subject:** Reply to Proposed Tower Structure (Notification ID #25092) - Email ID #1474319

Dear Nicole Dentamaro,

Thank you for using the Federal Communications Commission's (FCC) Tower Construction Notification System (TCNS). The purpose of this email is to inform you that an authorized user of the TCNS has replied to a proposed tower construction notification that you had submitted through the TCNS.

The following message has been sent to you from THPO Kathleen Knowles of the Mashantucket Pequot Tribe in reference to Notification ID #25092:

Dear Ms. Dentamaro,  
Regarding Notification ID # 25092, after reviewing the information provided, we have no knowledge of properties of religious and cultural importance to the Mashantucket Pequot Tribe. However, we recommend a Phase I Archaeological Reconnaissance Survey be conducted to identify previously unknown properties of cultural and religious importance. We would appreciate a copy of any work performed on this project.  
Kathleen Knowles,  
Tribal Historic Preservation Officer  
Mashantucket Pequot Tribe

For your convenience, the information you submitted for this notification is detailed below.

Notification Received: 02/21/2007  
Notification ID: 25092  
Tower Owner Individual or Entity Name: VHB/Optasite  
Consultant Name: Nicole Nicole  
Street Address: 54 Tuttle Place  
City: Middletown  
State: CONNECTICUT  
Zip Code: 06457  
Phone: 860-632-1500  
Email: ndentamaro@vhb.com

Structure Type: POLE - Any type of Pole  
Latitude: 41 deg 21 min 2.7 sec N  
Longitude: 73 deg 2 min 57.3 sec W  
Location Description: 1 Deerfield Lane  
City: Ansonia  
State: CONNECTICUT  
County: NEW HAVEN  
Ground Elevation: 146.6 meters  
Support Structure: 45.7 meters above ground level  
Overall Structure: 45.7 meters above ground level  
Overall Height AMSL: 192.3 meters above mean sea level



## *INTEGRATED HISTORIC PRESERVATION PLANNING*

April 18, 2007

Nicole Dentamaro  
Environmental Scientist  
Vanasse Hangen Brustlin, Inc.  
54 Tuttle Place  
Middletown, CT 06457-1847

**RE: Preliminary Archeological Assessment of the Proposed Telecommunications Tower CT-999-0099 Located off Osbourne Lane in Ansonia, Connecticut**

Ms. Dentamaro:

Heritage Consultants, LLC, is pleased to have this opportunity to provide Vanasse Hangen Brustlin, Inc., with the following preliminary archeological assessment of a proposed telecommunications tower CT-999-0099 located off Osbourne Lane in Ansonia, Connecticut (Figure 1). The current project entailed completion of an existing conditions cultural resources summary based on the examination of GIS data obtained from the Connecticut State Historic Preservation Office, as well as historic maps, aerial photographs, and topographic quadrangles maintained by Heritage Consultants, LLC. This investigation did not consider the effects of the proposed construction upon built resources, and it is based upon project location information provided to Heritage Consultants, LLC by Vanasse Hangen Brustlin, Inc. The objectives of this study were: 1) to gather and present data regarding previously identified cultural resources situated within the vicinity of the Areas of Potential Effect; 2) to investigate the proposed project parcel in terms of its natural and historical characteristics; and 3) to evaluate the need for completing additional cultural resources investigations.

Environmental characteristics frequently are used to predict the location of archeological sites. Typically distance to water, slope, and soil types are included as part of these predictive models. A review of environmental characteristics identified in the vicinity of the proposed tower suggests that this location is favorable to past human settlement and landuse. In particular, the proposed tower location appears to be a gently sloping parcel situated within close proximity to several unnamed streams and wetlands (Figure 1). In addition, a review of previously recorded cultural resources on file with the Connecticut State Historic Preservation Office indicates that while no properties listed on the National Register of Historic Places are situated within 1.6 km (1.0 mi) of the proposed cellular communications tower location, several previously recorded prehistoric sites are located in the region surrounding the tower (Figure 2). Furthermore, it occupies a historic site attributed to the Cold War era that is discussed in greater detail below.

Figures 3 through 7 illustrate that the proposed tower location and the region surrounding it was largely rural in character during the nineteenth through mid twentieth century. The 1970 and 1972 aerial photographs, however, demonstrate that substantial changes to the landscape encompassing the tower location had occurred (Figures 8 and 9). In the late 1950's this location became part of the Nike Project, the US Army's anti ballistic missile system (Figures 10 and 11). With a control station located to the

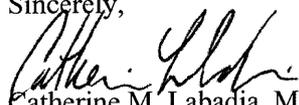
Ms. Nicole Dentmaro  
April 18, 2007  
Page 2

south, this launch station was part of the second version of Nike development, known as an Improved Hercules System Site, which carried a larger, farther reaching missile. The Nike missiles carried a small nuclear warhead, and were intended as a last ditch defense against Soviet airborne nuclear attacks by destroying the bombers with high altitude nuclear explosions. This weapon system was never used and all the bases were deactivated as part of the Anti-Ballistic Missile Treaty; the Hercules, however, is still in use by other countries. In May of 1971, the Ansonia Nike Site was deactivated and Department of Defense turned the site over to the U.S. Army Reserve. Since that time, residential housing has been constructed on the Integrated Fire Control (IFC) Area grounds, and the launch area, the location of the proposed cellular communications tower, is now a horse farm. This transition can be seen in the attached aerial photographs from 1986 and 2004 (Figures 10 and 11), as well as photographs taken during a recent visit to the project area (Figure 12).

While most buildings and the bunker still remain, the launch magazines have been filled and horses occupy the Assembly building. Although this historic military facility possesses is part of an important part of our national history, landscape modifications in this region likely have destroyed any significant prehistoric or historic archeological deposits within the proposed lease area associated with cellular communications tower CT-999-0099. As shown in Figure 13, the area is comprised of fill soils that were brought in during construction of the military base, this built up landform can be seen in Figure 9. Additional landscape modifications were known to have occurred subsequent to the site having been decommissioned. As a result, any significant historic cultural deposits likely have been destroyed. Therefore, it is highly unlikely that intact cultural remains exist within the Area of Potential Effect. Because construction of the tower will be confined to an area that has been impacted by substantial ground disturbing activities, it is the professional opinion of Heritage Consultants, LLC further archeological investigations of proposed telecommunications tower CT-999-0099 are not warranted.

If you have any questions regarding this Technical Memorandum, or if we may be of additional assistance with this or any other projects you may have, please do not hesitate to call us at 860-667-3001 or email us [info@heritage-consultants.com](mailto:info@heritage-consultants.com). We are at your service.

Sincerely,



Catherine M. Labadia, M.A.

President & Principal Investigator

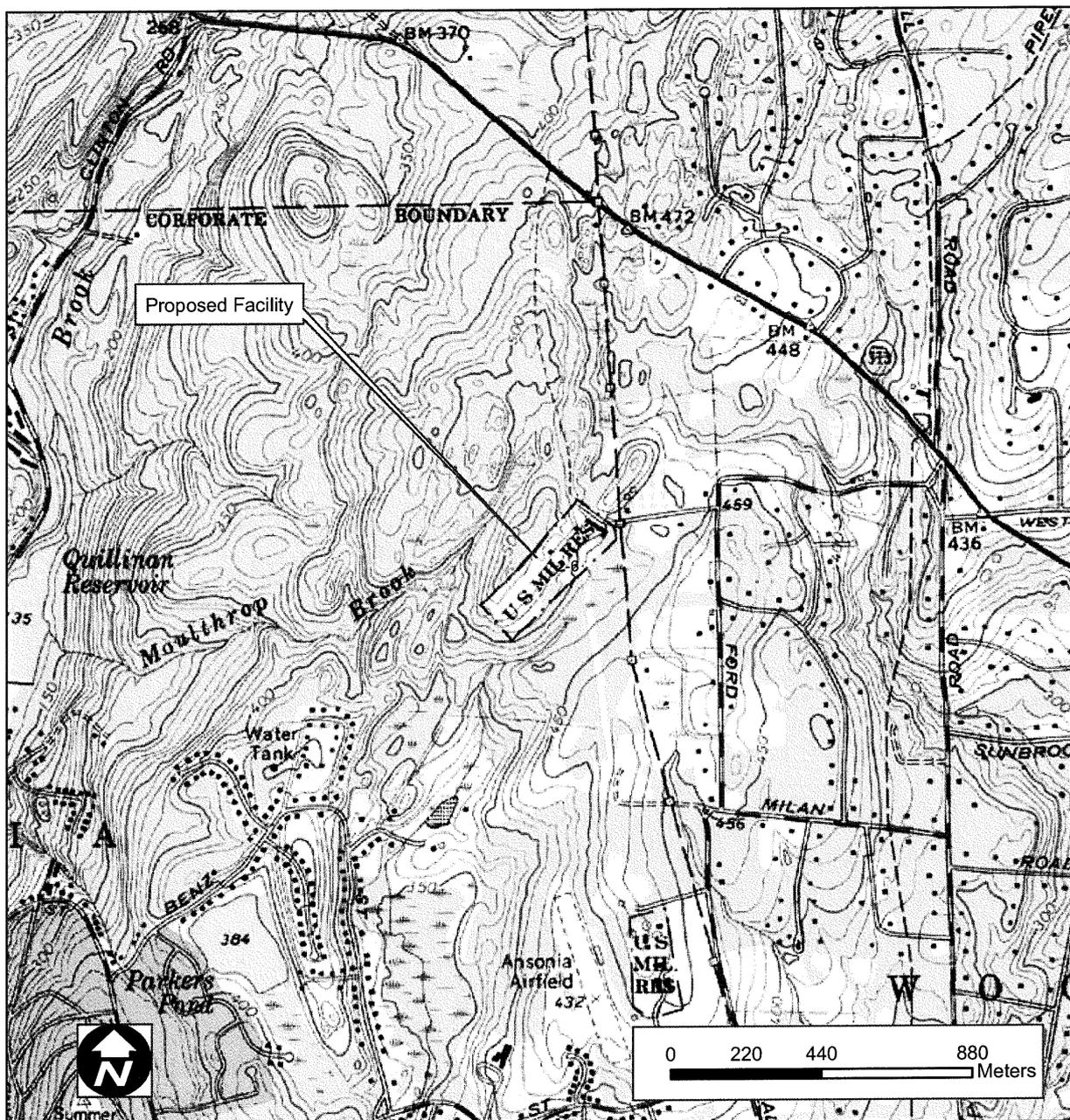


Figure 1. Excerpt from a recent USGS 7.5' series topographic map depicting the approximate location of proposed cellular communications tower CT-999-0099 in Ansonia, Connecticut.

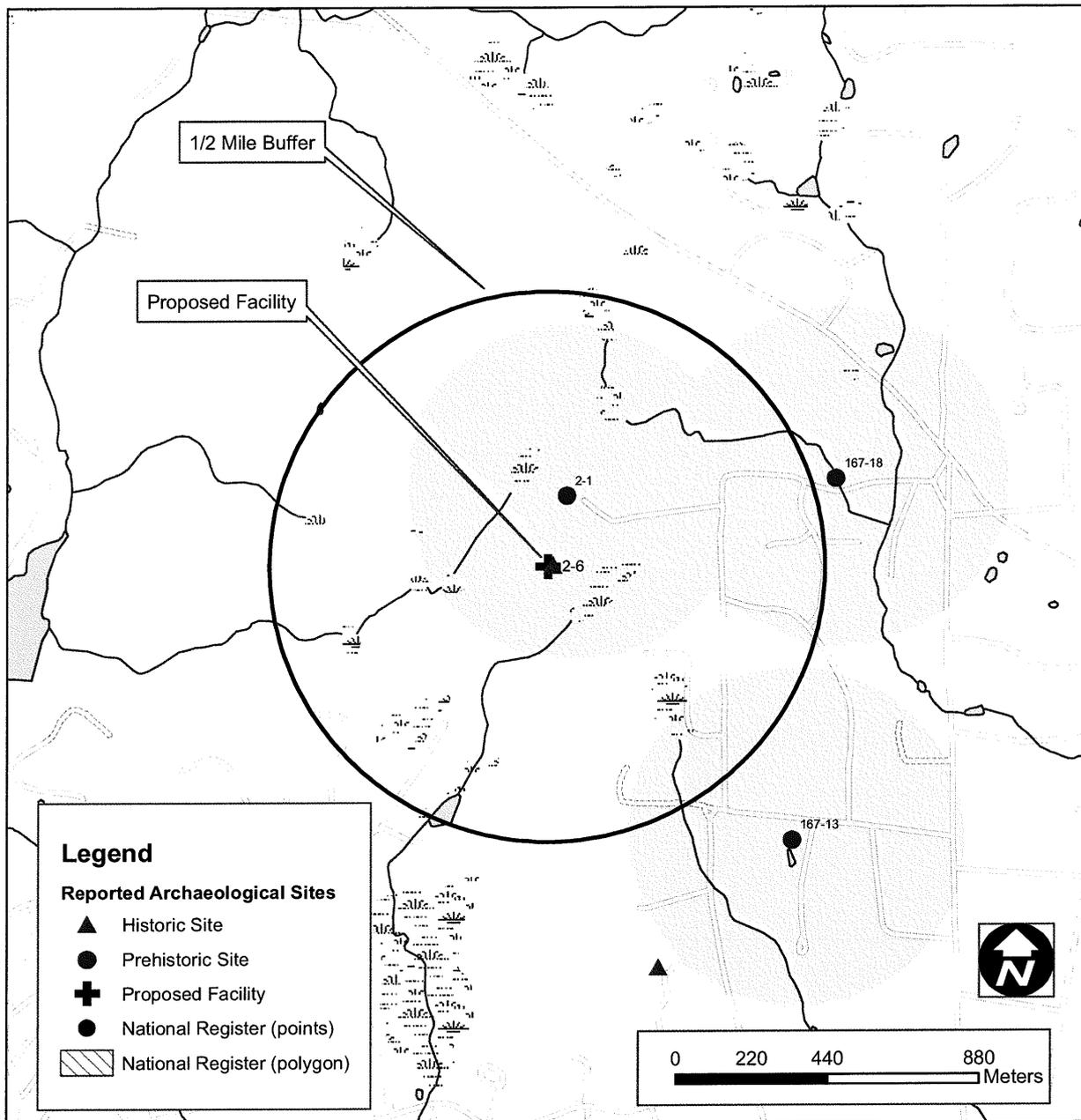


Figure 2. Map of previously identified archaeological sites and properties listed on the National Register of Historic Places situated in the vicinity of proposed cellular communications tower CT-999-099 in Ansonia, Connecticut.



Figure 3. Excerpt from an historic 1856 map depicting the approximate location of proposed cellular communications tower CT-999-099 in Ansonia, Connecticut.

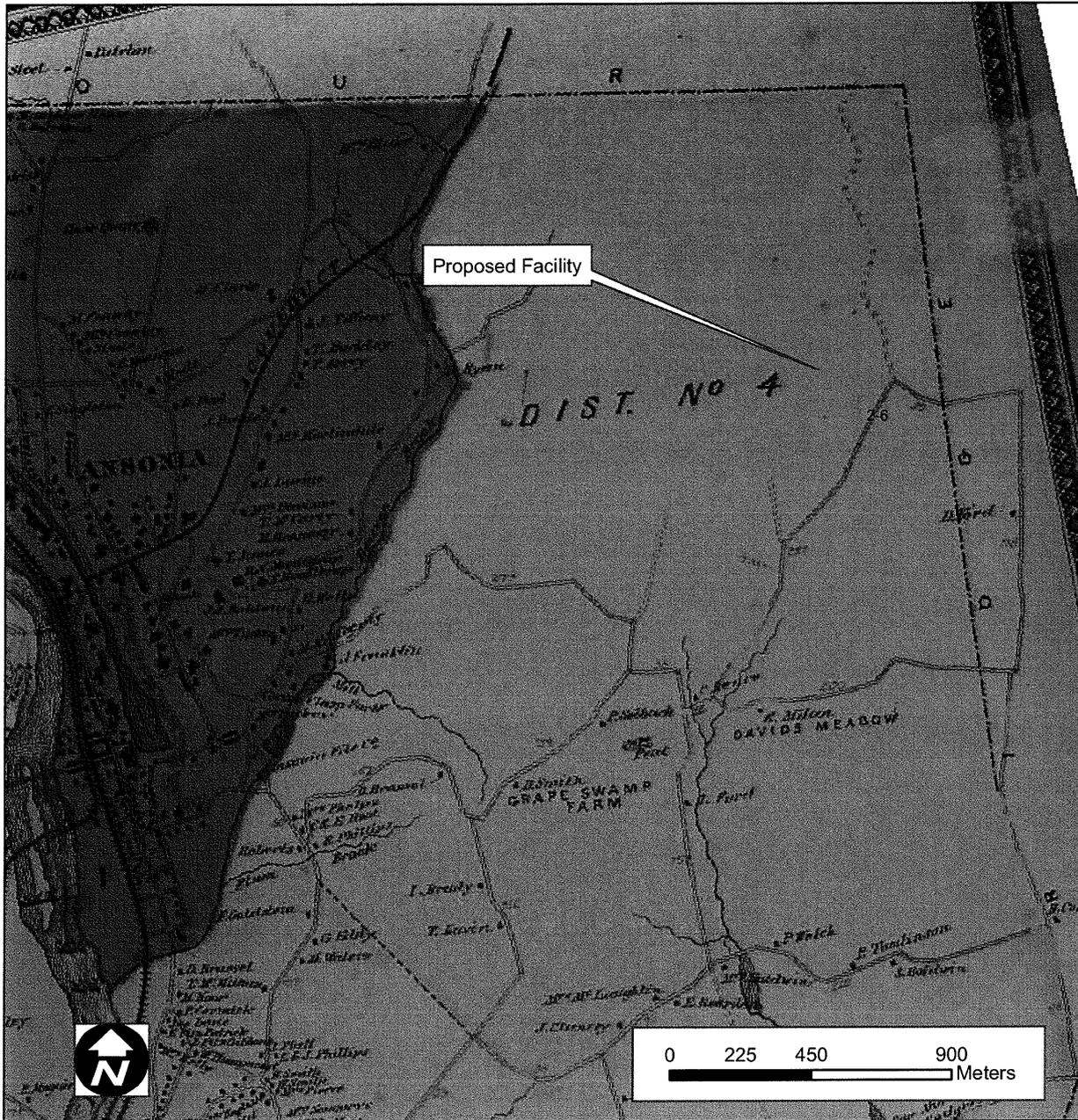


Figure 4. Excerpt from an historic 1868 map depicting the approximate location of proposed cellular communications tower CT-999-0099 in Ansonia, Connecticut.

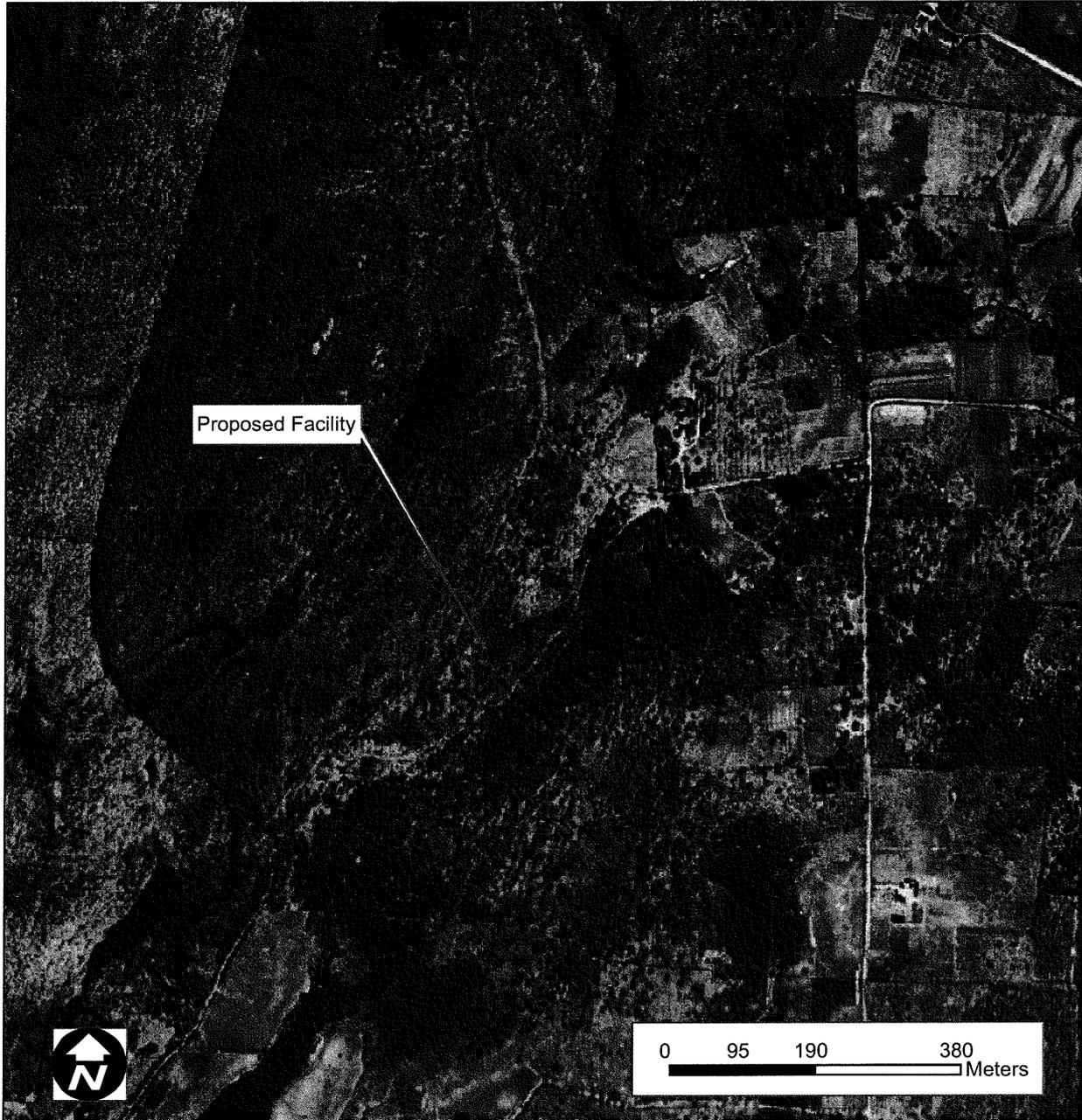


Figure 5. Excerpt from a 1934 aerial photograph depicting the approximate location of proposed telecommunications tower CT-999-0099 in Ansonia, Connecticut.

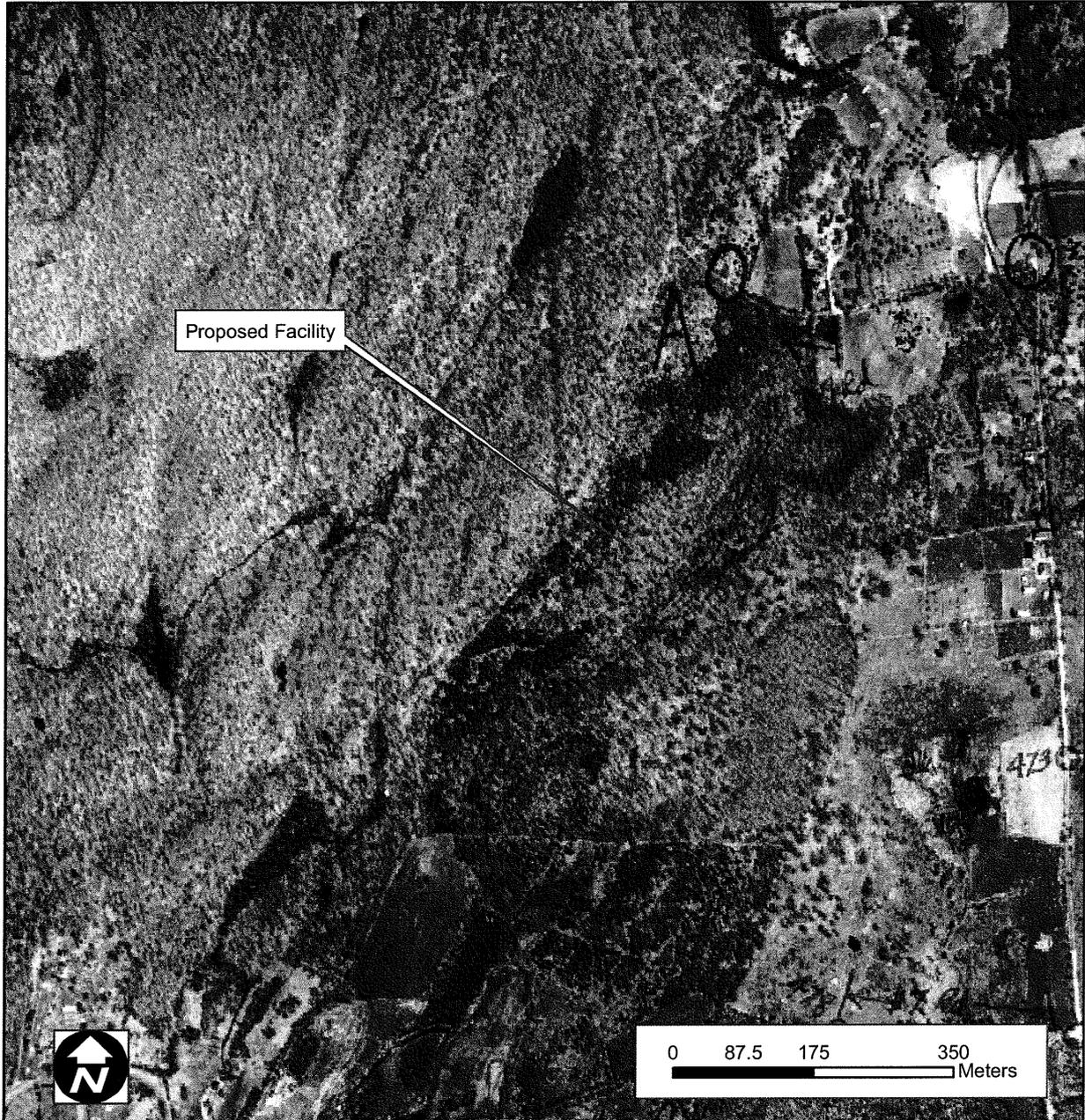


Figure 6. Excerpt from a 1949 aerial photograph depicting the approximate location of proposed telecommunications tower CT-999-0099 in Ansonia, Connecticut.

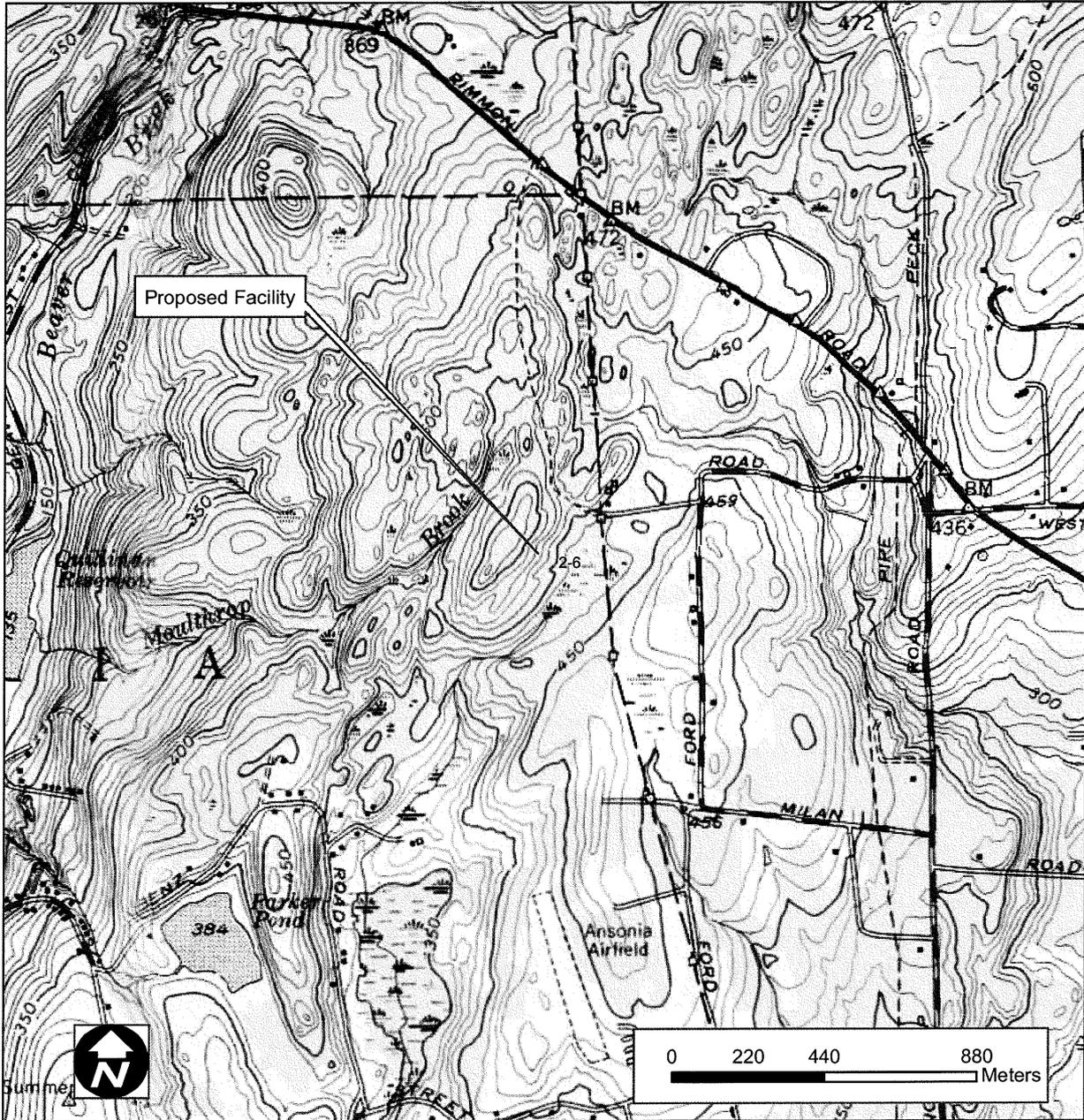


Figure 7. Excerpt from the 1953 USGS 7.5' series topographic quadrangle depicting the approximate location of proposed telecommunications tower CT-999-0099 in Ansonia, Connecticut.



Figure 8. Excerpt from a 1970 aerial photograph depicting the approximate location of proposed telecommunications tower CT-999-0099 in Ansonia, Connecticut.

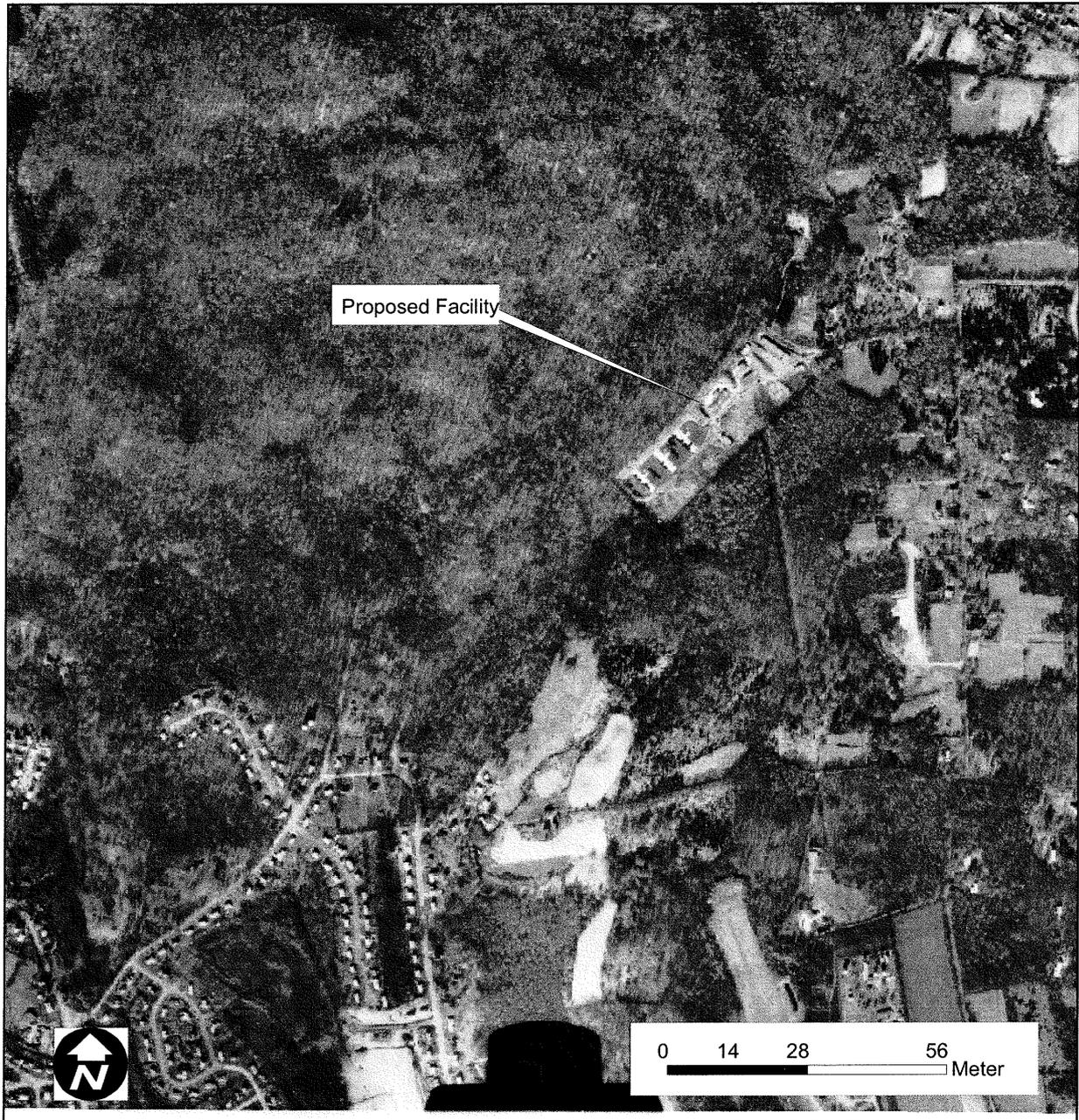


Figure 9. Excerpt from a 1972 aerial photograph depicting the approximate location of proposed telecommunications tower CT-999-0099 in Ansonia, Connecticut.

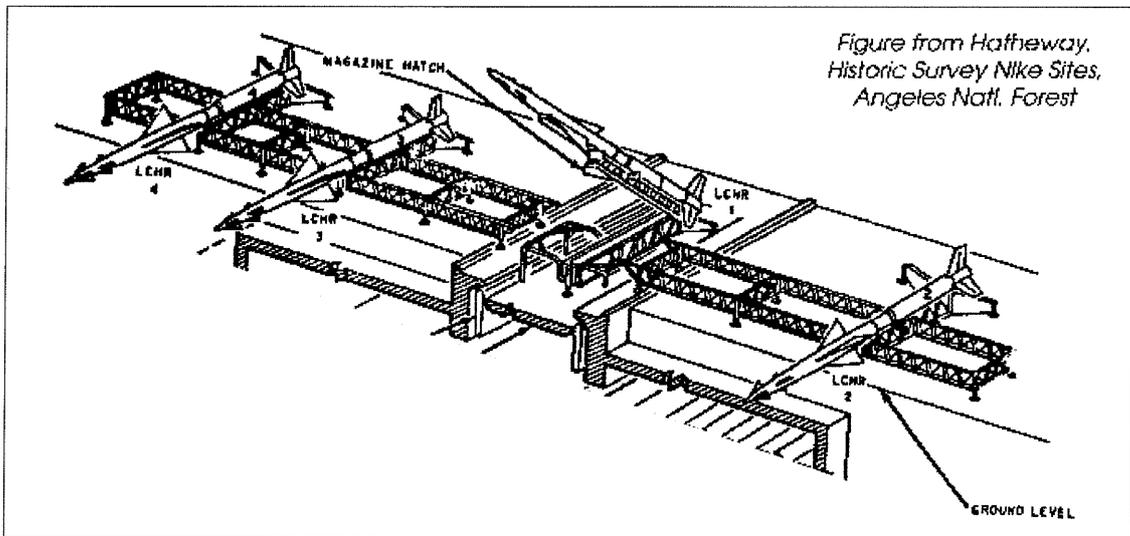
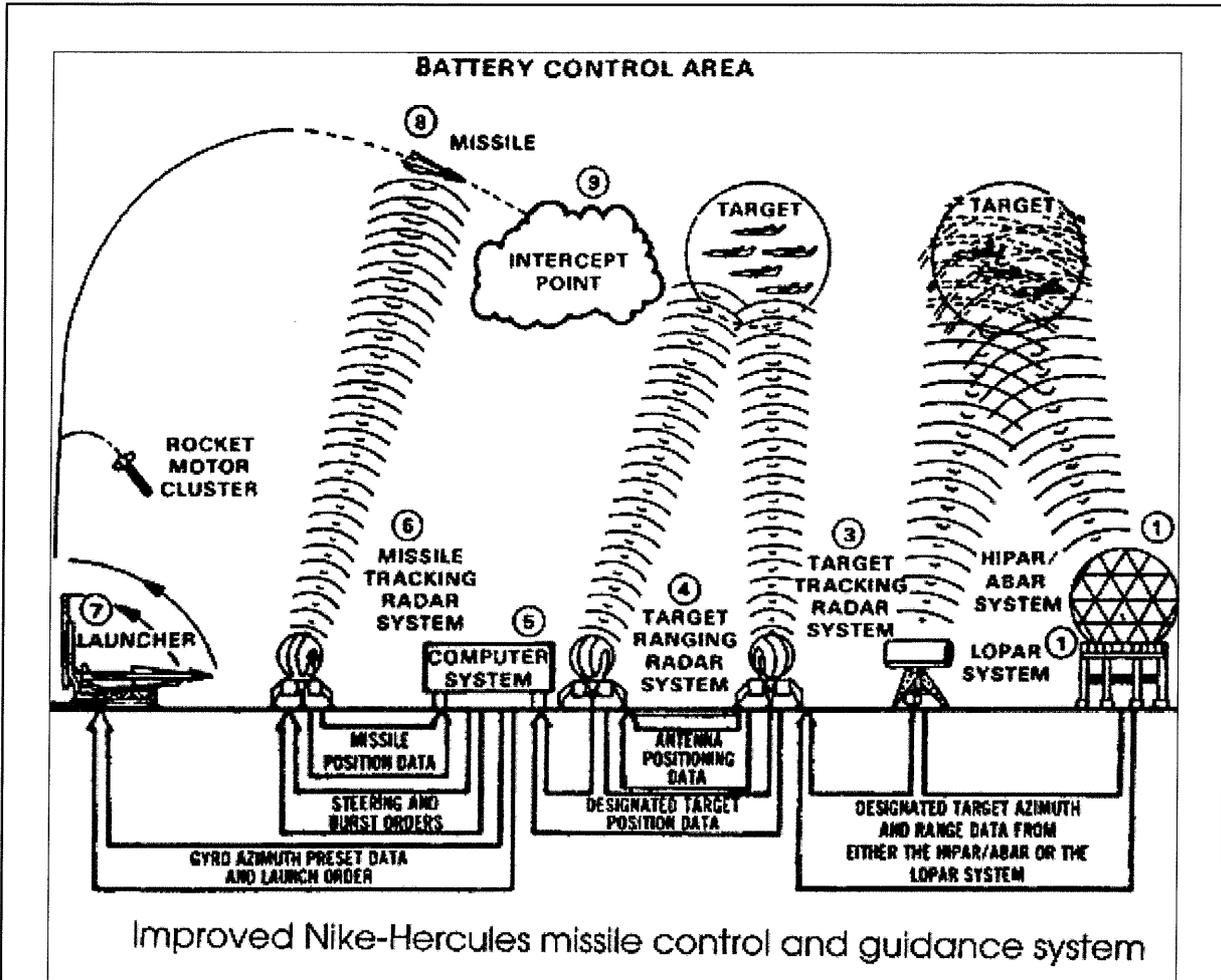


Figure 10. Schematic of the Nike Hercules defense system used in Ansonia ([www.ed-thelen.org](http://www.ed-thelen.org)).

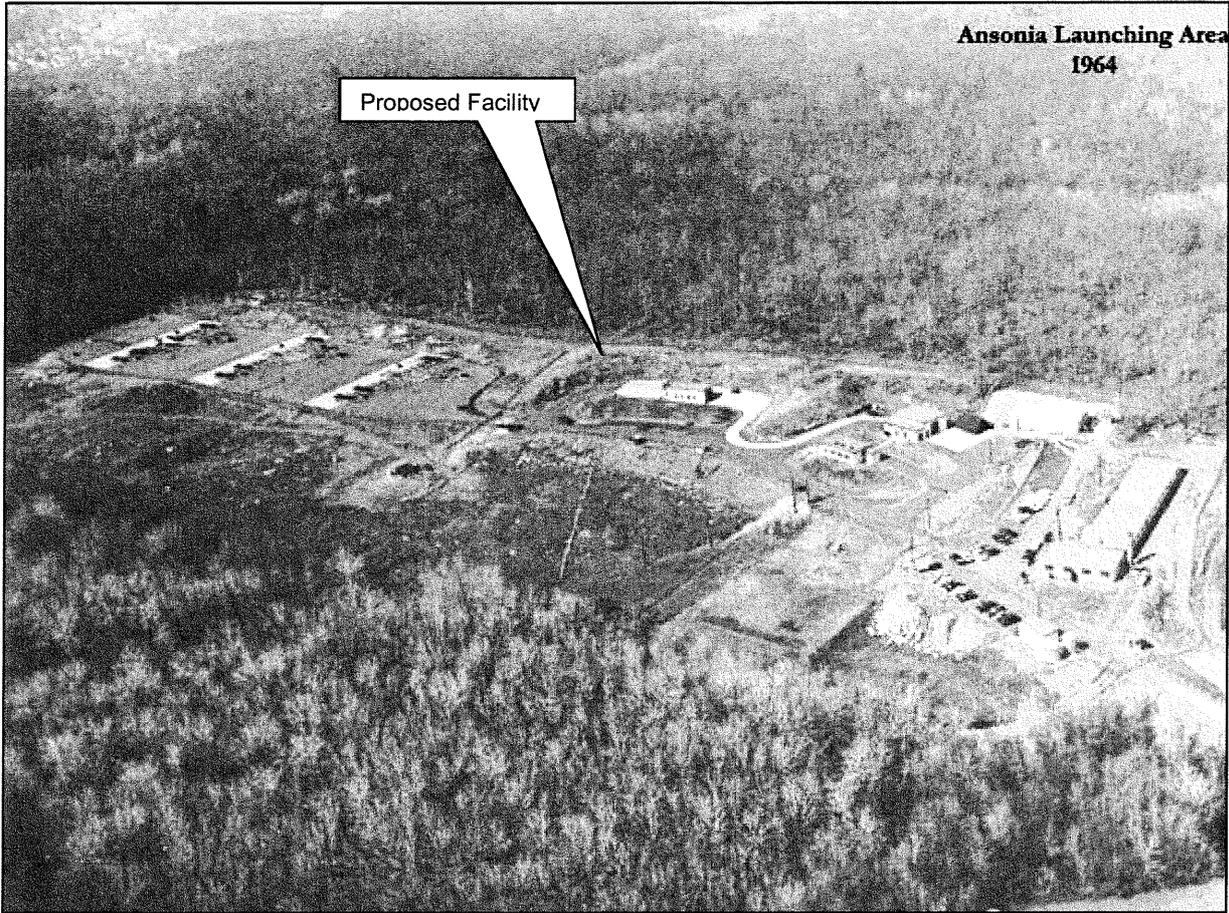


Figure 9. Excerpt from a 1964 aerial photograph depicting the Ansonia Nike Site launch area (<http://207.21.240.231/ansoniasite/index.htm>).



Figure 10. Excerpt from a 1986 aerial photograph depicting the approximate location of proposed telecommunications tower CT-999-0099 in Ansonia, Connecticut.



Figure 11. Excerpt from a 2004 aerial photograph depicting the approximate location of proposed telecommunications tower CT-999-0099 in Ansonia, Connecticut.



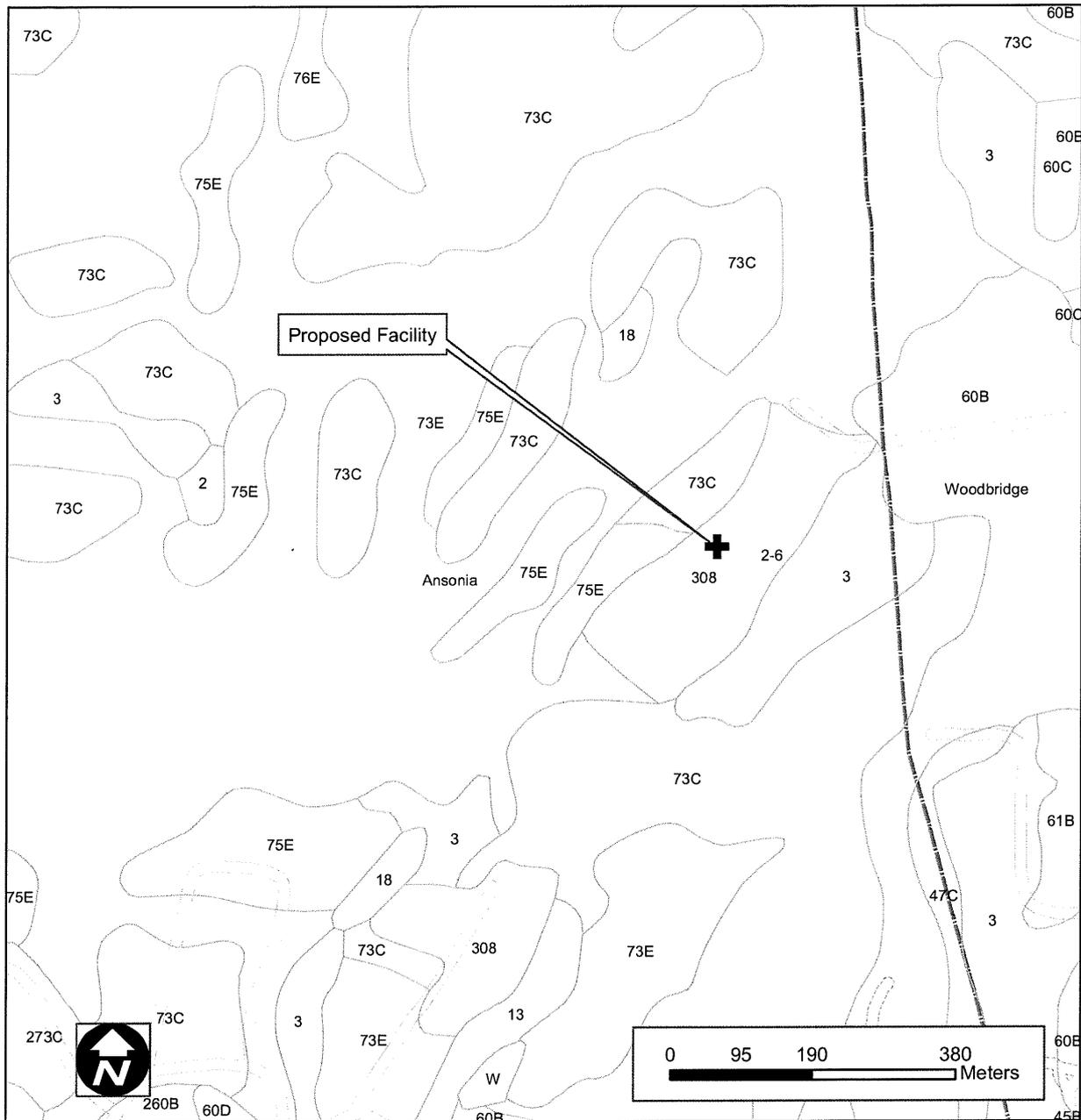


Figure 12. Soil types situated in the vicinity of proposed cellular communications tower CT-999-0099 in Ansonia, Connecticut (note that soil code 308 = Udorthents – smoothed).



5-3-07

Ms Nicole Dentamaro,  
Environmental Scientist  
Vanasse Hangen Brustlin, Inc.  
54 Tuttle Place  
Middletown, CT 06457-1847

Re: PRELIMINARY ARCHEOLOGICAL ASSESSMENT OF THE PROPOSED  
TELECOMMUNICATIONS TOWER CT-999-0099 LOCATED OFF OSBOURNE  
LANE IN ANSONIA, CONNECTICUT  
TCNS # 25092

Dear Ms. Dentamaro,

I have reviewed the Preliminary Archeological Assessment entitled "PRELIMINARY ARCHEOLOGICAL ASSESSMENT OF THE PROPOSED TELECOMMUNICATIONS TOWER CT-999-0099 LOCATED OFF OSBOURNE LANE IN ANSONIA, CONNECTICUT," Submitted by Heritage Consultants, LLC. The research design and testing strategy meets acceptable professional standards, and agree with the recommendations and conclusions. Please keep me informed of any further developments with respect to this project.

Sincerely,

*Kathleen Knowles*

Kathleen Knowles,  
Tribal Historic Preservation Officer  
Mashantucket Pequot Tribe



MASHANTUCKET PEQUOT MUSEUM  
& RESEARCH CENTER

110 Pequot Trail, PO Box 3180  
Mashantucket, CT 06338  
Phone: 860 396 6800  
Fax: 860 396 6850  
[www.pequotmuseum.org](http://www.pequotmuseum.org)



Vanasse Hangen Brustlin, Inc.

**WETLANDS DELINEATION REPORT**

**Date:** January 30, 2007

**Project No.:** 40999.21

**Prepared For:** Chuck Regulbuto  
Project Manager  
Optasite, Inc.  
One Research Drive, Suite 200C  
Westborough, MA 01581

**Site Location:** Osborne Lane  
Ansonia, CT

**Site Map:** Sketch Map, 01/09/07 – D. Gustafson

**Inspection Date:** January 9, 2007

**Field Conditions:** Weather: sunny, low 40's  
Snow Depth: 0 inches

General Soil Moisture: moist  
Frost Depth: 0 inches

**Type of Wetlands Identified and Delineated:**

Connecticut Inland Wetlands and Watercourses

Tidal Wetlands

U.S. Army Corps of Engineers

**Field Numbering Sequence of Wetlands Boundary:** WF1-01 to WF1-20  
*[as depicted on attached wetland sketch map]*

The classification systems of the National Cooperative Soil Survey, the U.S. Department of Agriculture, Natural Resources Conservation Service, County Soil Survey Identification Legend, Connecticut Department of Environmental Protection and United States Army Corps of Engineers New England District were used in this investigation.

All established wetlands boundary lines are subject to change until officially adopted by local, state, or federal regulatory agencies.

The wetlands delineation was conducted by:

Dean Gustafson  
Professional Soil Scientist

Enclosures

54 Tuttle Place  
Middletown, Connecticut 06457-1847  
**860.632.1500 ■ FAX 860.632.7879**  
email: info@vhb.com  
www.vhb.com

# Attachments

- 
- Wetland Delineation Field Form
  - Soil Map
  - Soil Report
  - Wetland Delineation Sketch Map

**Wetland Delineation Field Form**

Project Address:	Osborne Lane Ansonia, CT	Project Number:	40999.21
Inspection Date:	01/09/07	Inspector:	DEAN GUSTAFSON
Wetland I.D.:	1		

Field Conditions:	Weather: Sunny, low 40's	Snow Depth:	none
	General Soil Moisture: moist	Frost Depth:	none
Type of Wetland Delineation:	Connecticut <input checked="" type="checkbox"/>		
	ACOE <input type="checkbox"/>		
	Tidal <input type="checkbox"/>		
Field Numbering Sequence:	WF 1 to 20		

**WETLAND HYDROLOGY:**

**Nontidal**

Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input checked="" type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated - seepage <input type="checkbox"/>	Seasonally Saturated - perched <input type="checkbox"/>
Comments:		

**Tidal**

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Seasonally Flooded <input type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>	
Comments: N/A		

**WETLAND TYPE:**

**System**

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments:		

**Class**

Emergent Marsh <input type="checkbox"/>	Scrub-shrub <input type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input type="checkbox"/>	
Comments:		

**WATERCOURSE TYPE:**

Upper Perennial <input type="checkbox"/>	Lower Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>
Tidal <input type="checkbox"/>		
Comments: N/A		

**SPECIAL AQUATIC HABITAT:**

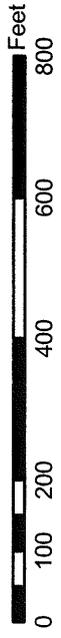
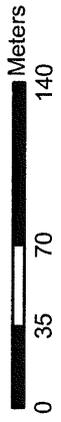
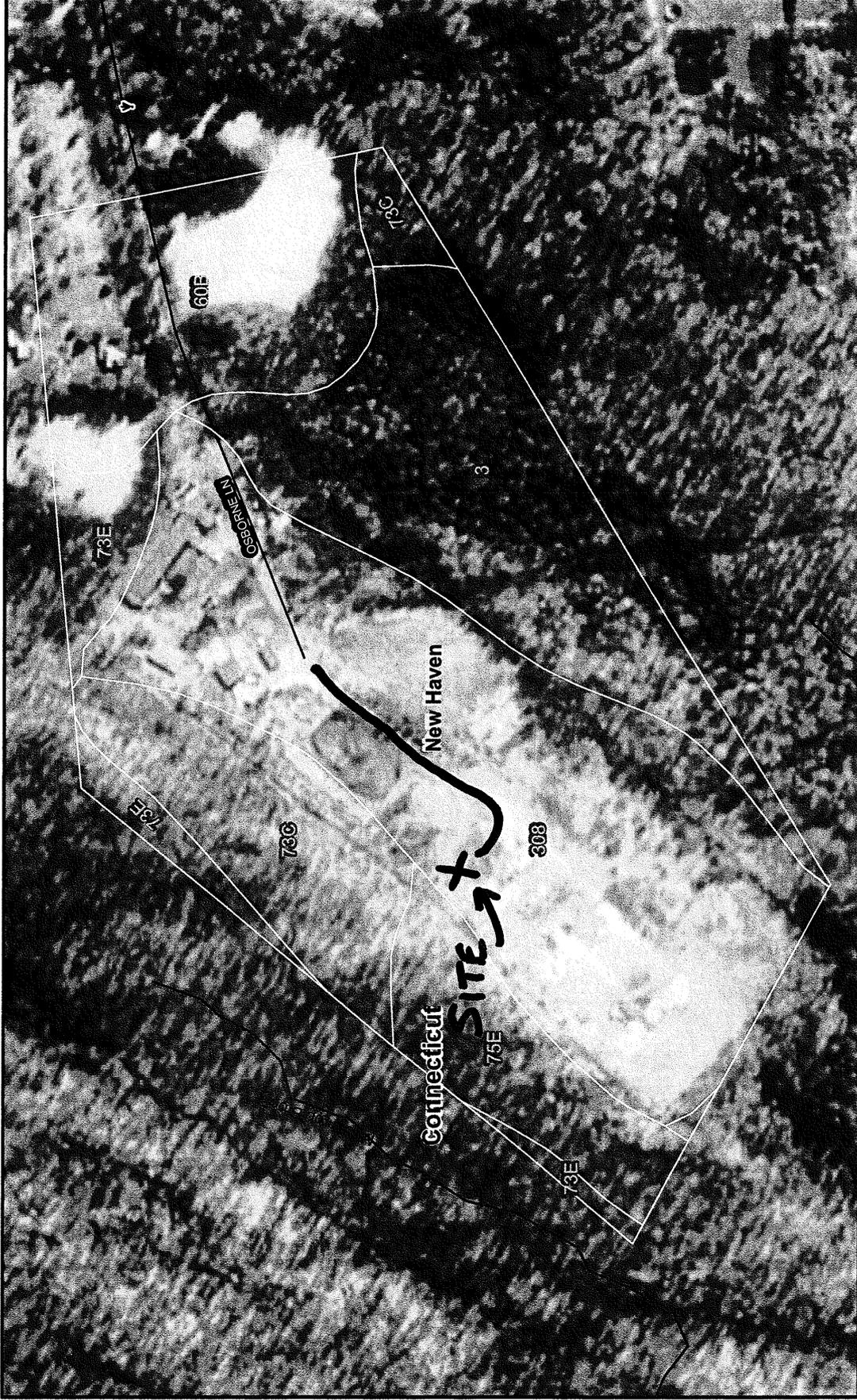
Vernal Pool <input type="checkbox"/>	Other <input type="checkbox"/>	
Comments: N/A		

**DOMINANT PLANTS:**

red maple	
spice bush	
winter berry	
highbush blueberry	
skunk cabbage	

# SOIL SURVEY OF STATE OF CONNECTICUT

Proposed Optasite, Osborne Lane, Ansonia, CT



# SOIL SURVEY OF STATE OF CONNECTICUT

Proposed Optasite, Osborne Lane, Ansonia, CT

## MAP LEGEND

- Soil Map Units
- Cities
- Detailed Counties
- Detailed States
- Interstate Highways
- Roads
- Rails
- Water
- Hydrography
- Oceans
- Escarpment, bedrock
- Escarpment, non-bedrock
- Gulley
- Levee
- Slope
- Blowout
- Borrow Pit
- Clay Spot
- Depression, closed
- Eroded Spot
- Gravel Pit
- Gravelly Spot
- Gulley
- Lava Flow
- Landfill
- Marsh or Swamp
- Miscellaneous Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Slide or Slip
- Sinkhole
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Perennial Water
- Wet Spot

## MAP INFORMATION

Source of Map: Natural Resources Conservation Service  
 Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>

Coordinate System: UTM Zone 18

Soil Survey Area: State of Connecticut  
 Spatial Version of Data: 3  
 Soil Map Compilation Scale: 1:12000

Map comprised of aerial images photographed on these dates:  
 4/3/1991; 4/12/1991

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Map Unit Legend Summary

State of Connecticut

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
3	Ridgebury, Leicester, and Whitman soils, extremely stony	7.4	20.6
60B	Canton and Charlton soils, 3 to 8 percent slopes	5.5	15.3
73C	Charlton-Chatfield complex, 3 to 15 percent slopes, very rocky	4.2	11.8
73E	Charlton-Chatfield complex, 15 to 45 percent slopes, very rocky	1.9	5.3
75E	Hollis-Chatfield-Rock outcrop complex, 15 to 45 percent slopes	2.7	7.5
308	Udorthents, smoothed	14.3	39.6

## Map Unit Description (Brief)

State of Connecticut

[Only those map units that have entries for the selected non-technical description categories are included in this report]

**Map Unit:** 3 - Ridgebury, Leicester, and Whitman soils, extremely stony

**Description Category:** SOI

### *Ridgebury, Leicester And Whitman Soils, Extremely Stony*

*This map unit is in the New England and Eastern New York Upland, Southern Part Major Land Resource Area. The mean annual precipitation is 37 to 50 inches (940 to 1270 millimeters) and the average annual air temperature is 45 to 52 degrees F. (7 to 11 degrees C.) This map unit is 40 percent Ridgebury soils, 35 percent Leicester soils, 15 percent Whitman soils. 10 percent minor components.*

#### *Ridgebury soils*

*This component occurs on upland drainageway and depression landforms. The parent material consists of lodgement till derived from granite, schist, and gneiss. The slope ranges from 0 to 5 percent and the runoff class is very low. The depth to a restrictive feature is 20 to 30 inches to densic material. The drainage class is poorly drained. The slowest permeability within 60 inches is about 0.00 in/hr (very slow), with about 2.5 inches (low) available water capacity. The weighted average shrink-swell potential in 10 to 60 inches is about 1.5 LEP (low). The flooding frequency for this component is none. The ponding hazard is none. The minimum depth to a seasonal water table, when present, is about 3 inches. The maximum calcium carbonate within 40 inches is none. The maximum amount of salinity in any layer is about 0 mmhos/cm (nonsaline). The Nonirrigated Land Capability Class is 7s*

#### *Typical Profile:*

*0 to 1 inches; slightly decomposed plant material  
1 to 5 inches; fine sandy loam  
5 to 14 inches; fine sandy loam  
14 to 21 inches; fine sandy loam  
21 to 60 inches; sandy loam*

#### *Leicester soils*

*This component occurs on upland drainageway and depression landforms. The parent material consists of melt-out till derived from granite, schist, and gneiss. The slope ranges from 0 to 5 percent and the runoff class is very low. The depth to a restrictive feature is greater than 60 inches. The drainage class is poorly drained. The slowest permeability within 60 inches is about 0.57 in/hr (moderate), with about 7.4 inches (high) available water capacity. The weighted average shrink-swell potential in 10 to 60 inches is about 1.5 LEP (low). The flooding frequency for this component is none. The ponding hazard is none. The minimum depth to a seasonal water table, when present, is about 9 inches. The maximum calcium carbonate within 40 inches is none. The maximum amount of salinity in any layer is about 0 mmhos/cm (nonsaline). The Nonirrigated Land Capability Class is 7s*

#### *Typical Profile:*

*0 to 1 inches; moderately decomposed plant material  
1 to 7 inches; fine sandy loam  
7 to 10 inches; fine sandy loam  
10 to 18 inches; fine sandy loam  
18 to 24 inches; fine sandy loam  
24 to 43 inches; gravelly fine sandy loam  
43 to 65 inches; gravelly fine sandy loam*

#### *Whitman soils*

*This component occurs on upland drainageway and depression landforms. The parent material consists of lodgement till derived from gneiss, schist, and granite. The slope ranges from 0 to 2 percent and the runoff class is very low. The depth to a restrictive feature is 12 to 20 inches to densic material. The drainage class is very poorly drained. The slowest permeability within 60 inches is about 0.00 in/hr (very slow), with about 1.9 inches (very low) available water capacity. The weighted average shrink-swell potential in 10 to 60 inches is about 1.5 LEP (low). The flooding frequency for this component is none. The ponding hazard is occasional. The minimum depth to a seasonal water table, when present, is about 0 inches. The maximum calcium carbonate within 40 inches is none. The maximum amount of salinity in any layer is about 0 mmhos/cm (nonsaline). The Nonirrigated Land Capability Class is 7s*

#### *Typical Profile:*

*0 to 1 inches; slightly decomposed plant material  
1 to 9 inches; fine sandy loam  
9 to 16 inches; fine sandy loam  
16 to 22 inches; fine sandy loam  
22 to 60 inches; fine sandy loam*

## Map Unit Description (Brief)

State of Connecticut

**Map Unit:** 60B - Canton and Charlton soils, 3 to 8 percent slopes

**Description Category:** SOI

### *Canton And Charlton Soils, 3 To 8 Percent Slopes*

*This map unit is in the New England and Eastern New York Upland, Southern Part Major Land Resource Area. The mean annual precipitation is 37 to 49 inches (940 to 1244 millimeters) and the average annual air temperature is 45 to 52 degrees F. (7 to 11 degrees C.) This map unit is 45 percent Canton soils, 35 percent Charlton soils. 20 percent minor components.*

### *Canton soils*

*This component occurs on upland hill landforms. The parent material consists of melt-out till derived from schist, granite, and gneiss. The slope ranges from 3 to 8 percent and the runoff class is low. The depth to a restrictive feature is greater than 60 inches. The drainage class is well drained. The slowest permeability within 60 inches is about 1.98 in/hr (moderately rapid), with about 5.6 inches (high) available water capacity. The weighted average shrink-swell potential in 10 to 60 inches is about 1.5 LEP (low). The flooding frequency for this component is none. The ponding hazard is none. The minimum depth to a seasonal water table, when present, is greater than 6 feet. The maximum calcium carbonate within 40 inches is none. The maximum amount of salinity in any layer is about 0 mmhos/cm (nonsaline). The Nonirrigated Land Capability Class is 2e*

#### *Typical Profile:*

*0 to 1 inches; moderately decomposed plant material  
1 to 3 inches; gravelly fine sandy loam  
3 to 15 inches; gravelly loam  
15 to 24 inches; gravelly loam  
24 to 30 inches; gravelly loam  
30 to 60 inches; very gravelly loamy sand*

### *Charlton soils*

*This component occurs on upland hill landforms. The parent material consists of melt-out till derived from granite, schist, and gneiss. The slope ranges from 3 to 8 percent and the runoff class is low. The depth to a restrictive feature is greater than 60 inches. The drainage class is well drained. The slowest permeability within 60 inches is about 0.57 in/hr (moderate), with about 6.4 inches (high) available water capacity. The weighted average shrink-swell potential in 10 to 60 inches is about 1.5 LEP (low). The flooding frequency for this component is none. The ponding hazard is none. The minimum depth to a seasonal water table, when present, is greater than 6 feet. The maximum calcium carbonate within 40 inches is none. The maximum amount of salinity in any layer is about 0 mmhos/cm (nonsaline). The Nonirrigated Land Capability Class is 2e*

#### *Typical Profile:*

*0 to 4 inches; fine sandy loam  
4 to 7 inches; fine sandy loam  
7 to 19 inches; fine sandy loam  
19 to 27 inches; gravelly fine sandy loam  
27 to 65 inches; gravelly fine sandy loam*

## Map Unit Description (Brief)

State of Connecticut

**Map Unit:** 73C - Charlton-Chatfield complex, 3 to 15 percent slopes, very rocky

**Description Category:** SOI

### *Charlton-Chatfield Complex, 3 To 15 Percent Slopes, Very Rocky*

*This map unit is in the New England and Eastern New York Upland, Southern Part Major Land Resource Area. The mean annual precipitation is 37 to 49 inches (940 to 1244 millimeters) and the average annual air temperature is 45 to 52 degrees F. (7 to 11 degrees C.) This map unit is 45 percent Charlton soils, 30 percent Chatfield soils. 25 percent minor components.*

#### *Charlton soils*

*This component occurs on upland hill landforms. The parent material consists of melt-out till derived from granite, schist and gneiss. The slope ranges from 3 to 15 percent and the runoff class is low. The depth to a restrictive feature is greater than 60 inches. The drainage class is well drained. The slowest permeability within 60 inches is about 0.57 in/hr (moderate), with about 6.4 inches (high) available water capacity. The weighted average shrink-swell potential in 10 to 60 inches is about 1.5 LEP (low). The flooding frequency for this component is none. The ponding hazard is none. The minimum depth to a seasonal water table, when present, is greater than 6 feet. The maximum calcium carbonate within 40 inches is none. The maximum amount of salinity in any layer is about 0 mmhos/cm (nonsaline). The Nonirrigated Land Capability Class is 6s*

#### *Typical Profile:*

*0 to 4 inches; fine sandy loam  
4 to 7 inches; fine sandy loam  
7 to 19 inches; fine sandy loam  
19 to 27 inches; gravelly fine sandy loam  
27 to 65 inches; gravelly fine sandy loam*

#### *Chatfield soils*

*This component occurs on upland hill and ridge landforms. The parent material consists of melt-out till derived from gneiss, granite, and schist. The slope ranges from 3 to 15 percent and the runoff class is low. The depth to a restrictive feature is 20 to 40 inches to bedrock (lithic). The drainage class is well drained. The slowest permeability within 60 inches is about 0.57 in/hr (moderate), with about 3.3 inches (moderate) available water capacity. The weighted average shrink-swell potential in 10 to 60 inches is about 1.5 LEP (low). The flooding frequency for this component is none. The ponding hazard is none. The minimum depth to a seasonal water table, when present, is greater than 6 feet. The maximum calcium carbonate within 40 inches is none. The maximum amount of salinity in any layer is about 0 mmhos/cm (nonsaline). The Nonirrigated Land Capability Class is 6s*

#### *Typical Profile:*

*0 to 1 inches; highly decomposed plant material  
1 to 6 inches; gravelly fine sandy loam  
6 to 15 inches; gravelly fine sandy loam  
15 to 29 inches; gravelly fine sandy loam  
29 to 36 inches; unweathered bedrock*

## Map Unit Description (Brief)

State of Connecticut

**Map Unit:** 73E - Charlton-Chatfield complex, 15 to 45 percent slopes, very rocky

**Description Category:** SOI

### *Charlton-Chatfield Complex, 15 To 45 Percent Slopes, Very Rocky*

*This map unit is in the New England and Eastern New York Upland, Southern Part Major Land Resource Area. The mean annual precipitation is 37 to 49 inches (940 to 1244 millimeters) and the average annual air temperature is 45 to 52 degrees F. (7 to 11 degrees C.) This map unit is 45 percent Charlton soils, 30 percent Chatfield soils. 25 percent minor components.*

#### *Charlton soils*

*This component occurs on upland hill landforms. The parent material consists of melt-out till derived from granite, schist, and gneiss. The slope ranges from 15 to 45 percent and the runoff class is high. The depth to a restrictive feature is greater than 60 inches. The drainage class is well drained. The slowest permeability within 60 inches is about 0.57 in/hr (moderate), with about 6.4 inches (high) available water capacity. The weighted average shrink-swell potential in 10 to 60 inches is about 1.5 LEP (low). The flooding frequency for this component is none. The ponding hazard is none. The minimum depth to a seasonal water table, when present, is greater than 6 feet. The maximum calcium carbonate within 40 inches is none. The maximum amount of salinity in any layer is about 0 mmhos/cm (nonsaline). The Nonirrigated Land Capability Class is 7s*

#### *Typical Profile:*

*0 to 4 inches; fine sandy loam  
4 to 7 inches; fine sandy loam  
7 to 19 inches; fine sandy loam  
19 to 27 inches; gravelly fine sandy loam  
27 to 65 inches; gravelly fine sandy loam*

#### *Chatfield soils*

*This component occurs on upland hill and ridge landforms. The parent material consists of melt-out till derived from gneiss, granite, and schist. The slope ranges from 15 to 45 percent and the runoff class is high. The depth to a restrictive feature is 20 to 40 inches to bedrock (lithic). The drainage class is well drained. The slowest permeability within 60 inches is about 0.57 in/hr (moderate), with about 3.3 inches (moderate) available water capacity. The weighted average shrink-swell potential in 10 to 60 inches is about 1.5 LEP (low). The flooding frequency for this component is none. The ponding hazard is none. The minimum depth to a seasonal water table, when present, is greater than 6 feet. The maximum calcium carbonate within 40 inches is none. The maximum amount of salinity in any layer is about 0 mmhos/cm (nonsaline). The Nonirrigated Land Capability Class is 7s*

#### *Typical Profile:*

*0 to 1 inches; highly decomposed plant material  
1 to 6 inches; gravelly fine sandy loam  
6 to 15 inches; gravelly fine sandy loam  
15 to 29 inches; gravelly fine sandy loam  
29 to 36 inches; unweathered bedrock*

## Map Unit Description (Brief)

State of Connecticut

**Map Unit:** 75E - Hollis-Chatfield-Rock outcrop complex, 15 to 45 percent slopes

**Description Category:** SOI

### *Hollis-Chatfield-Rock Outcrop Complex, 15 To 45 Percent Slopes*

*This map unit is in the New England and Eastern New York Upland, Southern Part Major Land Resource Area. The mean annual precipitation is 37 to 49 inches (940 to 1244 millimeters) and the average annual air temperature is 45 to 54 degrees F. (7 to 12 degrees C.) This map unit is 35 percent Hollis soils, 30 percent Chatfield soils, 15 percent Rock Outcrop. 20 percent minor components.*

#### *Hollis soils*

*This component occurs on upland hill and ridge landforms. The parent material consists of melt-out till derived from granite, gneiss, and schist. The slope ranges from 15 to 45 percent and the runoff class is high. The depth to a restrictive feature is 10 to 20 inches to bedrock (lithic). The drainage class is somewhat excessively drained. The slowest permeability within 60 inches is about 0.57 in/hr (moderate), with about 1.8 inches (very low) available water capacity. The weighted average shrink-swell potential in 10 to 60 inches is about 1.5 LEP (low). The flooding frequency for this component is none. The ponding hazard is none. The minimum depth to a seasonal water table, when present, is greater than 6 feet. The maximum calcium carbonate within 40 inches is none. The maximum amount of salinity in any layer is about 0 mmhos/cm (nonsaline). The Nonirrigated Land Capability Class is 7s*

#### *Typical Profile:*

*0 to 1 inches; highly decomposed plant material  
1 to 6 inches; gravelly fine sandy loam  
6 to 9 inches; channery fine sandy loam  
9 to 15 inches; gravelly fine sandy loam  
15 to 25 inches; unweathered bedrock*

#### *Chatfield soils*

*This component occurs on upland hill and ridge landforms. The parent material consists of melt-out till derived from gneiss, granite, and schist. The slope ranges from 15 to 45 percent and the runoff class is high. The depth to a restrictive feature is 20 to 40 inches to bedrock (lithic). The drainage class is well drained. The slowest permeability within 60 inches is about 0.57 in/hr (moderate), with about 3.3 inches (moderate) available water capacity. The weighted average shrink-swell potential in 10 to 60 inches is about 1.5 LEP (low). The flooding frequency for this component is none. The ponding hazard is none. The minimum depth to a seasonal water table, when present, is greater than 6 feet. The maximum calcium carbonate within 40 inches is none. The maximum amount of salinity in any layer is about 0 mmhos/cm (nonsaline). The Nonirrigated Land Capability Class is 7s*

#### *Typical Profile:*

*0 to 1 inches; highly decomposed plant material  
1 to 6 inches; gravelly fine sandy loam  
6 to 15 inches; gravelly fine sandy loam  
15 to 29 inches; gravelly fine sandy loam  
29 to 36 inches; unweathered bedrock*

#### *Rock Outcrop*

*This component occurs on bedrock controlled landforms. The slope ranges from 15 to 45 percent and the runoff class is very high. The Nonirrigated Land Capability Class is 8*

**Map Unit:** 308 - Udorthents, smoothed

**Description Category:** SOI

### *Udorthents, Smoothed*

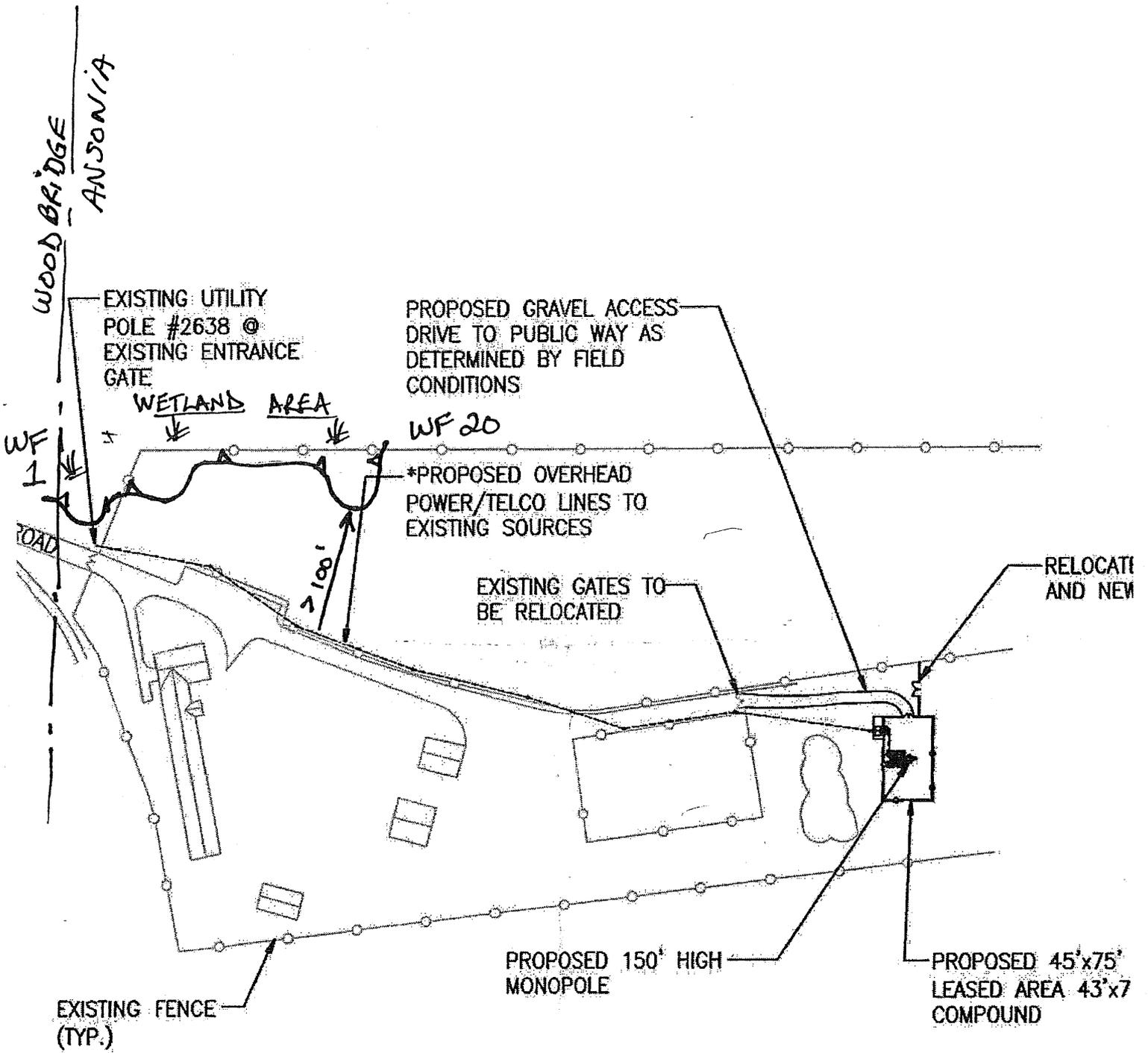
*This map unit is in the New England and Eastern New York Upland, Southern Part Connecticut Valley Major Land Resource Area. The mean annual precipitation is 32 to 50 inches (813 to 1270 millimeters) and the average annual air temperature is 45 to 55 degrees F. (7 to 13 degrees C.) This map unit is 80 percent Udorthents soils. 20 percent minor components.*

#### *Udorthents soils*

*This component occurs on leveled land and fill landforms. The slope ranges from 0 to 35 percent and the runoff class is medium. The depth to a restrictive feature varies, but is commonly greater than 60 inches. The drainage class is typically well drained. The slowest permeability within 60 inches is about 0.00 in/hr (very slow), with about 9.0 inches (high) available water capacity. The weighted average shrink-swell potential in 10 to 60 inches is about 1.4 LEP (low). The flooding frequency for this component is none. The ponding hazard is none. The minimum depth to a seasonal water table is greater than 60 inches. The maximum calcium carbonate within 40 inches is none. The maximum amount of salinity in any layer is about 0 mmhos/cm (nonsaline). The Nonirrigated Land Capability Class is 3e*

#### *Typical Profile:*

*0 to 5 inches; loam  
5 to 21 inches; gravelly loam  
21 to 80 inches; very gravelly sandy loam*




 approximate wetland boundary  
 WF 1 WETLAND FLAG

N.T.S.

Vanasse Hangen Brustlin  
 WETLAND SKETCH

Osborne Lane  
 Ansonia, CT  
 01/09/07