

FCC Rule 1.1307 NEPA Screening

Thompson 100

Rich Road

Thompson, CT

CHA Project Number: 14957.1006.1106

Prepared for:

*MCF Communications, Inc.
733 Turnpike Street, Suite 105
North Andover, MA 01845*

Prepared by:



*III Winners Circle
Albany, New York 12205
(518) 453-4500*

July 19, 2007

NEPA Land Use Screening Checklist

Client: MCF Communications, Inc. Site Name: Thompson 100	CHA #: 14957.1006.1106	Location: Rich Road, Thompson, Windham Co., CT	
		Check either the left box below if Positive, or the right box if Negative.	
NEPA Threshold	Reference	Positive	Negative
1. Wilderness Area Is the proposed facility located in an officially designated wilderness area?	www.wilderness.net USGS topographic map		X
2. Wildlife Preserve Is the proposed facility located in an officially designated wildlife preserve?	www.wilderness.net USGS topographic map		X
3. Threatened and Endangered Species Will the proposed facility likely affect threatened or endangered species or designated critical habitats?	U.S. Dept. Of the Interior-Fish and Wildlife Service (Field Service) and CTDEP		X
4. Threatened and Endangered Species Will the proposed facility likely jeopardize the continued existence of any proposed endangered or threatened species?	U.S. Dept. Of the Interior-Fish and Wildlife Service (Field Service) and CTDEP		X
5. Critical habitat Will the proposed facility likely result in the destruction or adverse modification of proposed critical habitats (as determined by the Endangered Species Act of 1973)?	U.S. Dept. Of the Interior-Fish and Wildlife Service (Field Service) and CTDEP		X
6. National Register of Historic Places Will the facility affect districts, sites, buildings, structures or objects, significant in American history, architecture, archeology, engineering or culture, that are listed (or eligible for listing) in the National Register of Historic Places?	State Historic Preservation Office (SHPO)		X
7. Indian Religious Will the facility affect Indian religious site(s)?	SHPO, American Indian Tribes, Bureau of Indian Affairs, TCNS		pending
8. Floodplain Is the facility located in a flood plain?	Federal Emergency Management Agency (FEMA)		X
9. Surface Features Will the construction of the proposed facility involve significant change in surface features (e.g., wetland fill, deforestation or water diversion)?	Army Corps of Engineers (ACOE) and CTDEP		X
10. High Intensity White Lights Will the proposed facility be located in a residential neighborhood as defined by local zoning law and equipped with high intensity white lights?	Federal Aviation Administration (FAA) and Local Zoning		X
The undersigned has reviewed and approved the completion of this NEPA checklist for the above referenced site.			
Signed: _____ Title: <u>Environmental Scientist, Clough Harbour & Associates LLP</u> Date: <u>7/19/07</u> Print Name: <u>Nicole Frazer</u>			
11. Facility Power *Responsibility of Client Will the proposed NON-ROOFTOP facility equal or exceed total power (of all channels) of 2000 watts ERP for Broadband PCS or 1000 watts for Narrowband PCS and have antennas located less than 10 meters above ground level? Will the proposed ROOFTOP facility equal or exceed total power (of all channels) of 2000 watts ERP for Broadband PCS or 1000 watts for Narrowband PCS?			

Table of Contents

I. Introduction	1
II. Environmental Screening	2
Wilderness Areas	2
Wildlife Preserves	2
Threatened and Endangered Species	3
Historic Places	3
Indian Religious Sites	3
Floodplains.....	4
Surface Features.....	4
High Intensity Lighting.....	5
III. Conclusions	5

List of Attachments

Attachment 1	Project Location Map
Attachment 2	Site Plans
Attachment 3	Wilderness Area/ Wildlife Preserve Documentation
Attachment 4	Threatened and Endangered Species Documentation
Attachment 5	Archeological & Indian Religious Documentation
Attachment 6	FEMA Floodplain Map
Attachment 7	Surface Feature Mapping & Wetland Report

Introduction

The National Environmental Policy Act is the basic national charter for protection of the environment. It requires all Federal agencies to implement procedures to make environmental consideration a necessary part of an agency's decision-making process. Specifically, NEPA and the regulatory guidelines established by the Council on Environmental Quality which implemented the Act, 40 C.F.R. §§ 1500 et seq., require all Federal agencies to take into account environmental consequences when making decisions which could be considered "major federal actions."

As a licensing agency, the Federal Communication Commission (FCC) complies with NEPA by requiring licensees to review their proposed actions for environmental consequences. The FCC's rules implementing NEPA are found at Title 47 of the Code of Federal Regulations, Part 1, Subpart I, rule sections 1.1301 to 1.1319.

Section 1.1307 of these rules lists eight environmental and cultural resources that are considered environmentally sensitive. If a proposed facility has potential significant impact on any of these resources an Environmental Assessment should be prepared to fully address the environmental impacts of the facility. If none of these resources are significantly impacted by facility no further compliance with NEPA is required. Pursuant to Section 1.1307, these resources are as follows:

- (1) Facilities that are to be located in an officially designated wilderness area.
- (2) Facilities that are to be located in an officially designated wildlife preserve.
- (3) Facilities that: (i) May affect listed threatened or endangered species or designated critical habitats; or (ii) are likely to jeopardize the continued existence of any proposed endangered or threatened species or likely to result in the destruction or adverse modification of proposed critical habitats, as determined by the Secretary of the Interior pursuant to the Endangered Species Act of 1973.
- (4) Facilities that may affect districts, sites, buildings, structures or objects, significant in American history, architecture, archeology, engineering or culture, that are listed, or are eligible for listing, in the National Register of Historic Places.
- (5) Facilities that may affect Indian religious sites.
- (6) Facilities to be located in a floodplain
- (7) Facilities whose construction will involve significant change in surface features (e.g., wetland fill, deforestation or water diversion).

(8) Antenna towers and/or supporting structures that are to be equipped with high intensity white lights which are to be located in residential neighbor-hoods, as defined by the applicable zoning law.

Environmental Screening

Clough Harbour & Associates LLP were retained by MCF Communications, Inc. to prepare this environmental screening to determine if the Thompson facility could have a potential significant environmental impact on any of the eight resources.

The Thompson facility is located on Rich Road in Thompson, Windham County, CT. Refer to Attachment 1 for the site location map and Attachment 2 for the proposed site plans dated April 2007.

Clough Harbour & Associates LLP completed a search of existing databases and literature to determine the potential environmental impacts of the facility. Except where otherwise noted, information presented herein is based solely on publicly available, state and federal databases and literature, and does not have the benefit of an on site investigation. The results are as follows:

Wilderness Areas

To determine potential environmental impacts of the facility on the officially designated wilderness areas, Clough Harbour & Associates LLP evaluated the following information:

- ✓ The National Wilderness Preservation System
(www.wilderness.net)
- ✓ [USGS](#) Topographic Map

Based on a review of this data, the facility is not located in or adjacent to an officially designated wilderness area. Refer to Attachment 3 for supporting documentation on this resource

Wildlife Preserves

To determine potential environmental impacts of the facility on the officially designated wildlife preserves, Clough Harbour & Associates LLP evaluated the following information:

- ✓ The National Wilderness Preservation System
(www.wilderness.net)
- ✓ [USGS](#) Topographic Map

Based on a review of this data, the facility is not located in or adjacent to an officially designated wildlife preserve. Refer to Attachment 3 for supporting documentation on this resource

Threatened and Endangered Species

To determine potential environmental impacts of the facility on any listed or proposed threatened or endangered species or critical habitats, Clough Harbour & Associates LLP evaluated the following information:

- ✓ State of Connecticut Department of Environmental Protection Natural Diversity Database
- ✓ United States Fish and Wildlife Service Threatened and Endangered Species Database

Based on a review of this data, the facility will not impact a listed or proposed threatened or endangered species or their critical habitats. Refer to Attachment 4 for supporting documentation on this resource.

Historic Places

To determine potential environmental impacts of the facility on historic places, a report was submitted to the CTSHPO on July 3, 2007 by Kleinfelder for their review. The CTSHPO responded on July 5, 2007 indicating that the project will have No Effect upon Connecticut's archeological heritage. This comment was conditional upon Kleinfelder providing additional copies of the final reconnaissance report. Additional copies were provided to the CTSHPO on July 19, 2007. Refer to Attachment 5 for supporting documentation for this resource.

Indian Religious Sites

To determine potential environmental impacts of the facility on Indian religious sites the Tower Construction Notification System (TCNS) website was contacted on April 30, 2007 to initiate contact with different leaders or designees of federally-recognized American Indian Tribes (Tribes), Native Hawaiian Organizations (NHOs), State Historic Preservation Officers (SHPOs), and Tribal Historic Preservation Officers (THPOs).

The Tribes, NHOs, and THPOs that specified their geographic preference per the TCNS are as follows:

1. Mashantucket Pequot Tribe
2. Narragansett Tribe

The Mashantucket Pequot Tribe indicated on May 3, 2007 that they have no knowledge of properties of religious and cultural importance to their tribe. However, they recommended a Phase 1 Archeological Reconnaissance be conducted and that a copy be forwarded for their files. A copy of the Phase 1 was provided to the tribe in July 18, 2007. No further correspondence with the Mashantucket Pequot Tribe is required.

The Narragansett Tribe has formally initiated consultation for review of the proposed project. The Narragansett Tribe has scheduled a field investigation of the site and will contact CHA with the results of his field investigation. Refer to Attachment 5 for copies of all correspondence.

Response pending

Floodplains

To determine potential environmental impacts of the facility on floodplains, Clough Harbour & Associates LLP evaluated the following information:

- ✓ Thompson FEMA Floodplain Map

Based on the review of this data, the facility is not located in a floodplain. Refer to Attachment 6 for supporting documentation on this resource.

Surface Features

To determine potential environmental impacts of the facility on the surface features including wetlands, deforestation and water diversion, Clough Harbour & Associates LLP evaluated the following information:

- ✓ National Wetland Inventory Map – Webster Quadrangle
- ✓ USGS Mapping – Webster Quadrangle

Additionally, Kleinfelder completed a field investigation on April 17, 2007 to delineate the wetland and watercourse boundaries on the property. Wetlands and watercourses do not fall within the project limits.

Based on a review of this data as well as the results of Kleinfelder's field investigation, the facility will not significantly impact surface water features. Refer to Attachment 7 for supporting documentation on this resource.

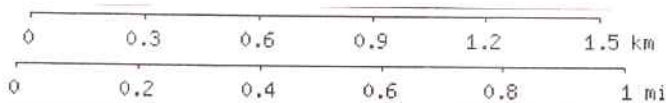
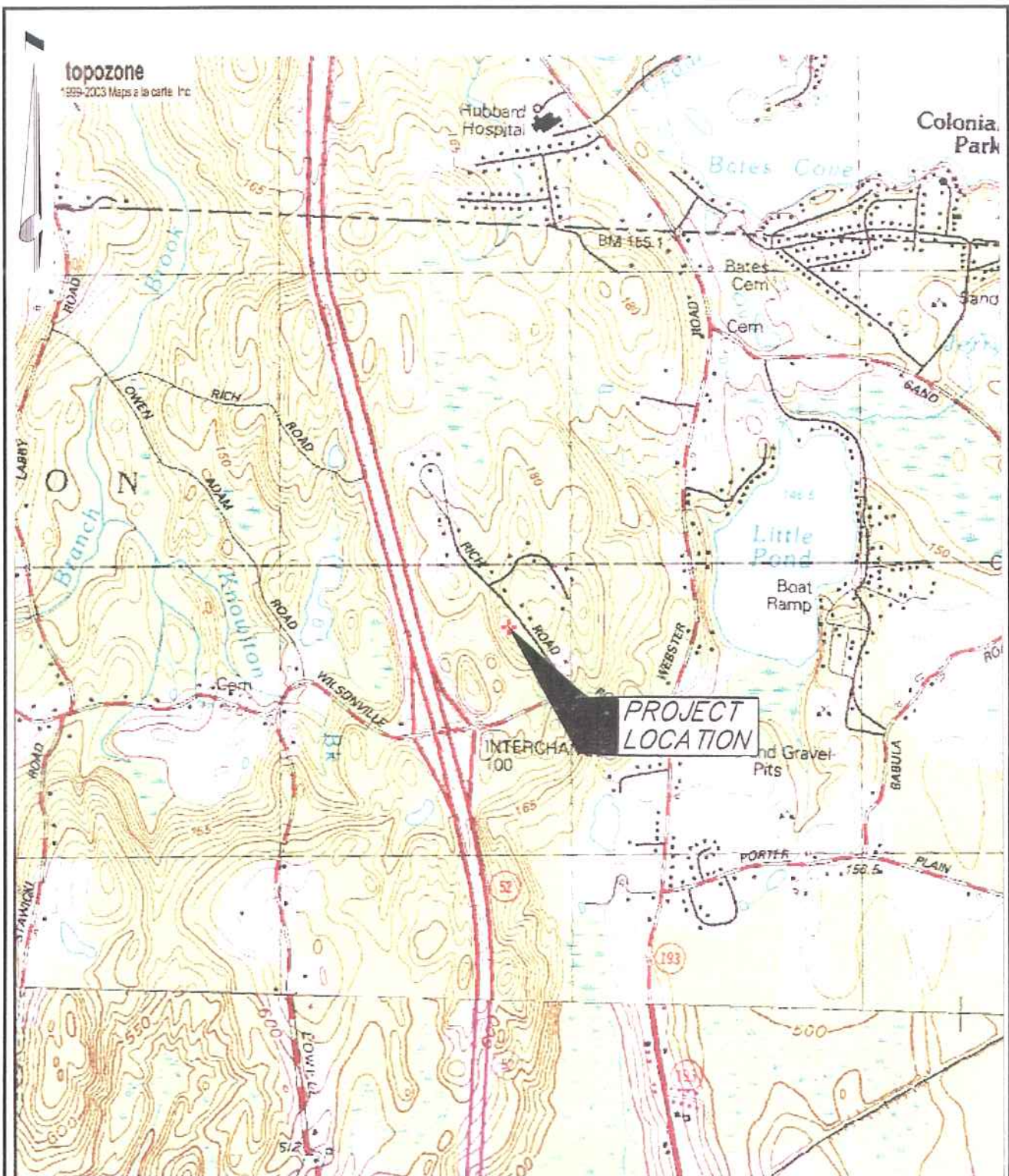
High Intensity Lighting

High intensity white lights are not planned for the facility. Therefore, the facility will not have a significant impact on residential neighborhoods.

Conclusion

Based on review of publicly available data and literature, and with the exception of facility power (item #11 on the NEPA Checklist), the facility will not have a significant environmental impact on any of the environmental or cultural resources identified under Section 1.1307. Therefore, no further work is required to comply with the requirements of the National Environmental Policy Act.

Attachment 1



CHA

CLOUGH HARBOUR & ASSOCIATES LLP

Scale: As Shown

CHA File No:
14957.1006.1106

SITE LOCATION MAP

Thompson Communications Facility
Thompson, Windham Co., CT
Webster Quadrangle

Attachment 2

MCF Communications, Inc.
723 TURNBULL STREET, SUITE 105
NORTH ANDOVER, MA 01848
OFFICE: (978) 687-2036
FAX: (978) 256-8900

CLIA

CLOUGH HARDY AND ASSOCIATES LLP
1115 State Street, Suite 2107, Rocky Hill, CT 06067-2138
Phone: 860.261.4501
<http://www.clia-ha.com>

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

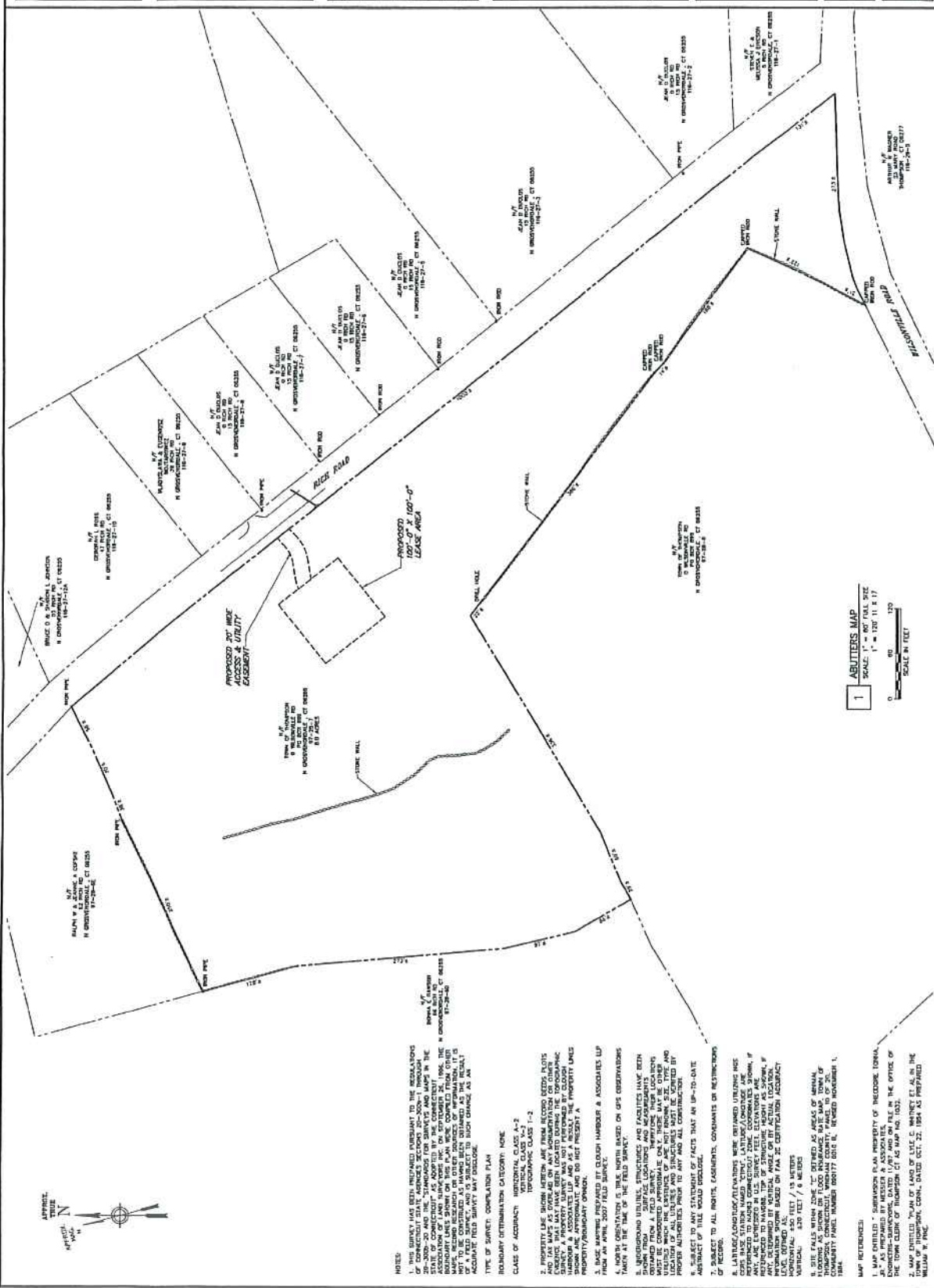
STE NAME:
THOMPSON

STE ADDRESS:
RICH ROAD
THOMPSON, CT
06277

WINDHAM COUNTY

SHEET TITLE
ABUTTERS MAP

SHEET NUMBER
A01



NOTES

1. THIS SURVEY HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONGRESSIONAL STAFF SERVICES SECTION 20-200-1 THROUGH 20-200-10, AND THE REGULATIONS OF THE HOUSE OF REPRESENTATIVES, STATE OF CONNECTICUT, AS ADOPTED BY THE CONCURRENT RESOLUTIONS OF THE HOUSE OF REPRESENTATIVES, STATE OF CONNECTICUT, AND THE SENATE OF THE STATE OF CONNECTICUT, DATED JANUARY 19, 1970. THE BOUNDARY LINES SHOWN ON THIS PLAN WERE COMPILED FROM OTHER SURVEYS, AND THE PROPERTY LINES SHOWN ON THIS PLAN WERE NOT TO BE CONSIDERED AS HAVING BEEN COMPILED FROM THE RESULT OF ANY SURVEY, AND MAY BE SUBJECT TO SUCH CHANGE AS AN ACTUATE SURVEY MAY DISCLOSE.

2. BOUNDARY DETERMINATION CATEGORY: NONE

3. CLASS OF ACRESIM: HORIZONTAL CLASS 1-2
VERTICAL CLASS 1-2
TOPOGRAPHIC CLASS 1-2

4. PROPERTY CLASS: NONE
THIS MAP IS PREPARED ON ANY ADMINISTRATIVE RECORDS AND SURVEY DATA THAT HAVE BEEN LOCATED DURING THE TOPOGRAPHIC SURVEY, AND THE PROPERTY LINES SHOWN ON THIS MAP ARE NOT TO BE CONSIDERED AS HAVING BEEN COMPILED FROM THE RESULT OF ANY SURVEY, AND MAY BE SUBJECT TO SUCH CHANGE AS AN ACTUATE SURVEY MAY DISCLOSE.

5. BACK: MAPS NOT FIELD SURVEYED
FROM APRIL 2007 FIELD SURVEY

6. THIS MAP IS PREPARED ON GFC COORDINATES
TAKEN AT THE TIME OF THE FIELD SURVEY

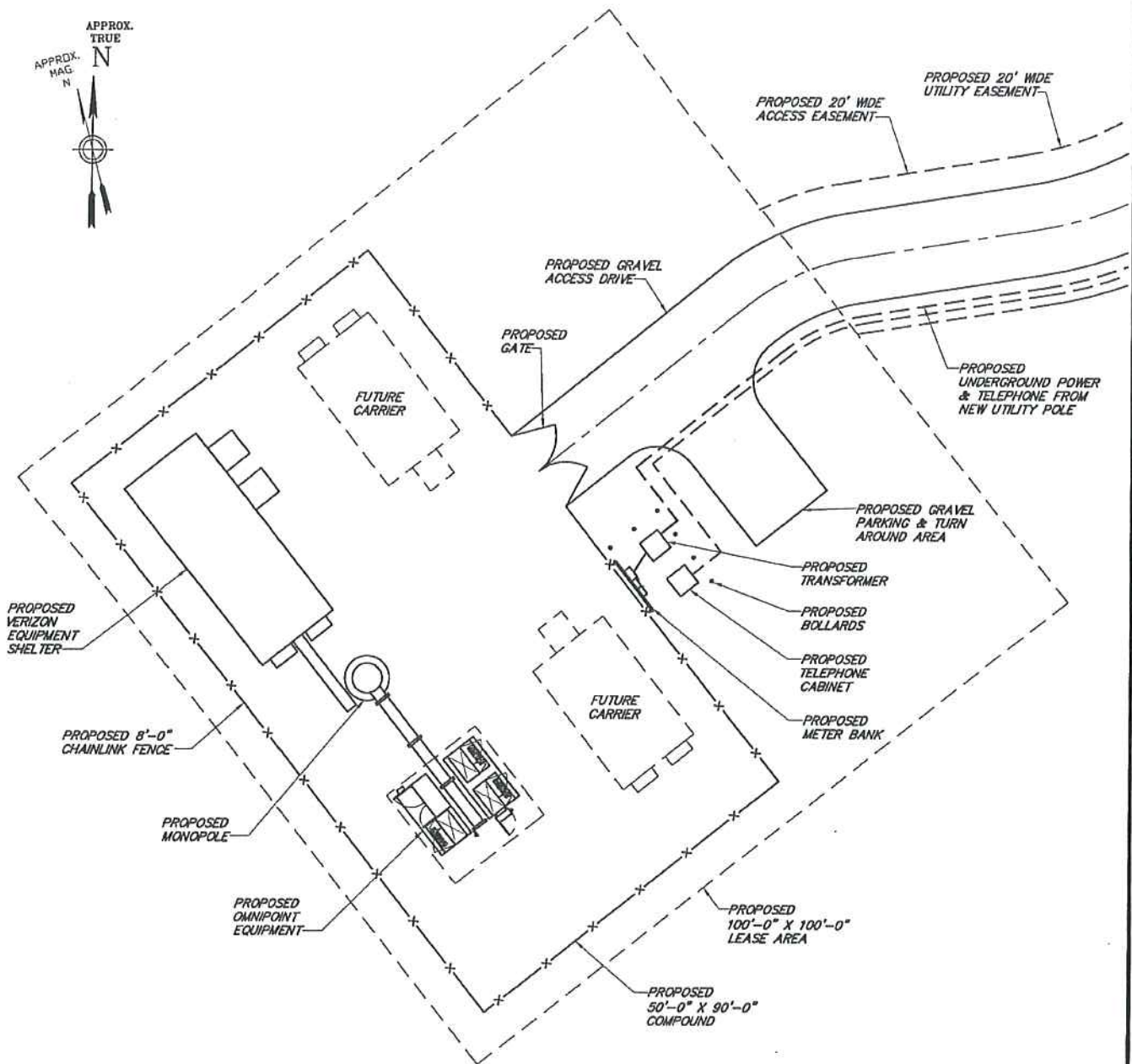
7. UNDEVELOPED UTILITIES, STRUCTURES AND FACILITIES HAVE BEEN SHOWN FROM AERIAL PHOTOGRAPHS AND MEASUREMENTS
TAKEN FROM AERIAL PHOTOGRAPHS AND MEASUREMENTS
MADE BY THE SURVEYOR. THESE FACILITIES MAY BE OTHER THAN THOSE SHOWN ON THIS MAP. THE SURVEYOR HAS NO KNOWLEDGE OF THE LOCATION OF ALL UTILITIES AND STRUCTURES MUST BE VERIFIED BY THE SURVEYOR. THE SURVEYOR HAS NO KNOWLEDGE OF THE LOCATION OF ALL UTILITIES AND STRUCTURES MUST BE VERIFIED BY THE SURVEYOR. THE SURVEYOR HAS NO KNOWLEDGE OF THE LOCATION OF ALL UTILITIES AND STRUCTURES MUST BE VERIFIED BY THE SURVEYOR.

8. SUBJECT TO ALL RIGHTS, EASEMENTS, COVENANTS OR RESTRICTIONS
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A02





1 COMPOUND PLAN
SCALE: 1" = 20'
0 10 20
SCALE IN FEET

BASEMAP NOTES:

1. BASEMAP INFORMATION OBTAINED FROM A SURVEY PERFORMED BY CLOUGH HARBOUR & ASSOCIATES LLP IN AUGUST 2007.

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CHA PROJ. NO. - 14657-1006

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733 TURNPIKE STREET, SUITE 105
NORTH ANDOVER, MA 01845
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FAX: (978) 256-8850

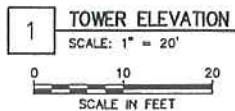
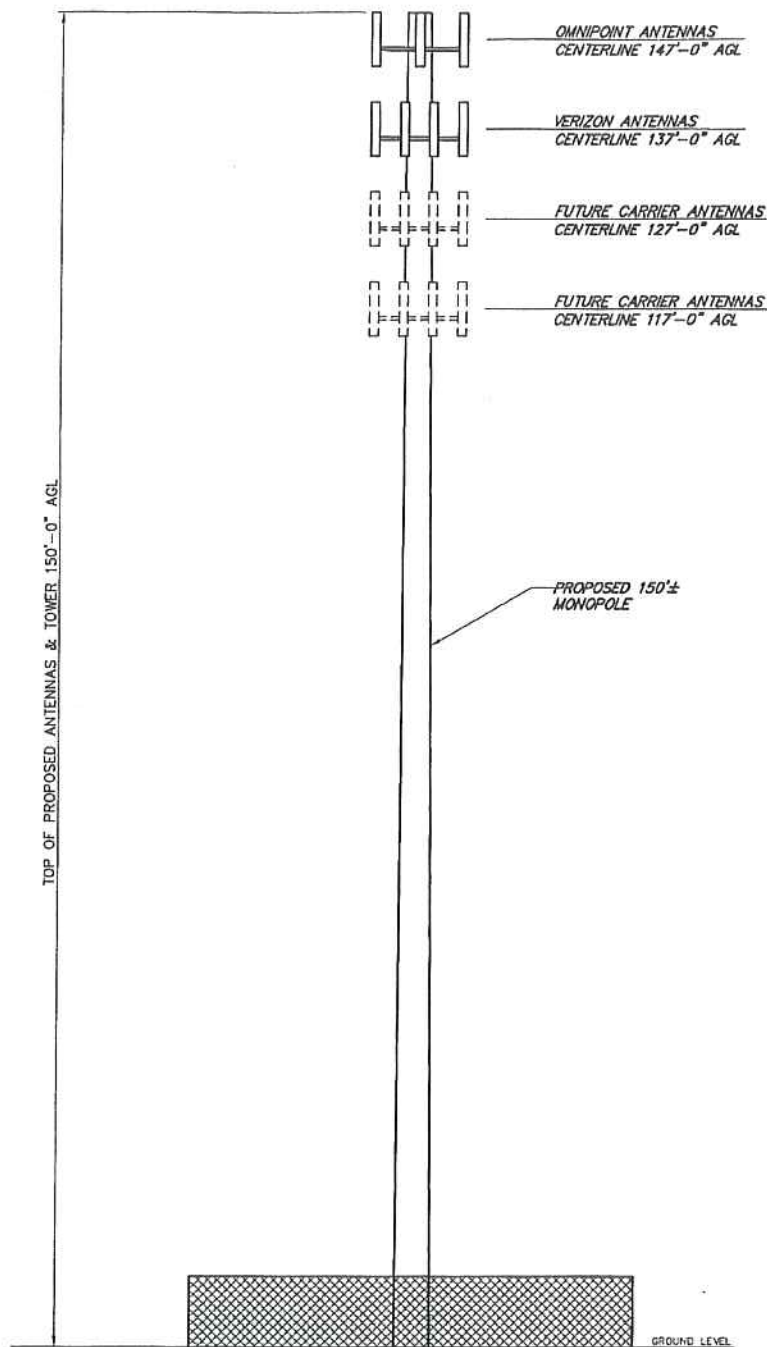
SITE NAME:
THOMPSON

SITE ADDRESS:
RICH ROAD
THOMPSON, CT 06277
WINDHAM COUNTY

SHEET TITLE:
COMPOUND PLAN

DATE:
04/27/07

REVISION:
0



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CHA PROJ. NO. = 14957-1008

MCF Communications, Inc.

733 TURNPIKE STREET, SUITE 105
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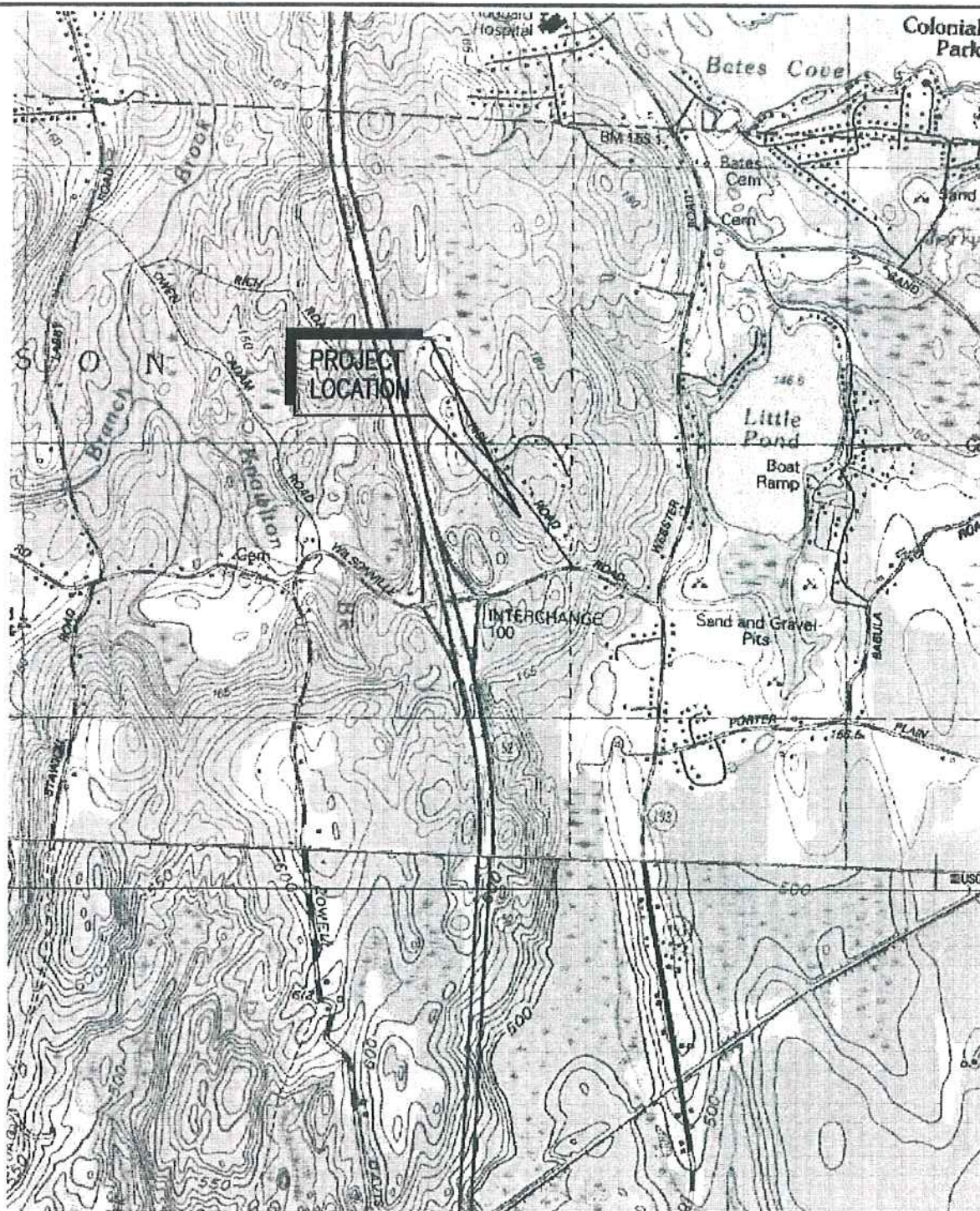
SITE NAME:
THOMPSON

SITE ADDRESS:
**RICH ROAD
THOMPSON, CT 06277
WINDHAM COUNTY**

SHEET TITLE:
TOWER ELEVATION

DATE:
04/27/07

REVISION:
0



1 USGS TOPO MAP: THOMPSON 41071-H7
SCALE: 1" = 2000'

0 1000 2000
SCALE IN FEET



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CHA

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2120 Silver Dunes Highway, Suite 212 - Rocky Hill, CT 06067-2320
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MCF Communications, Inc.

733 TURNPIKE STREET, SUITE 105
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FAX: (978) 258-8850

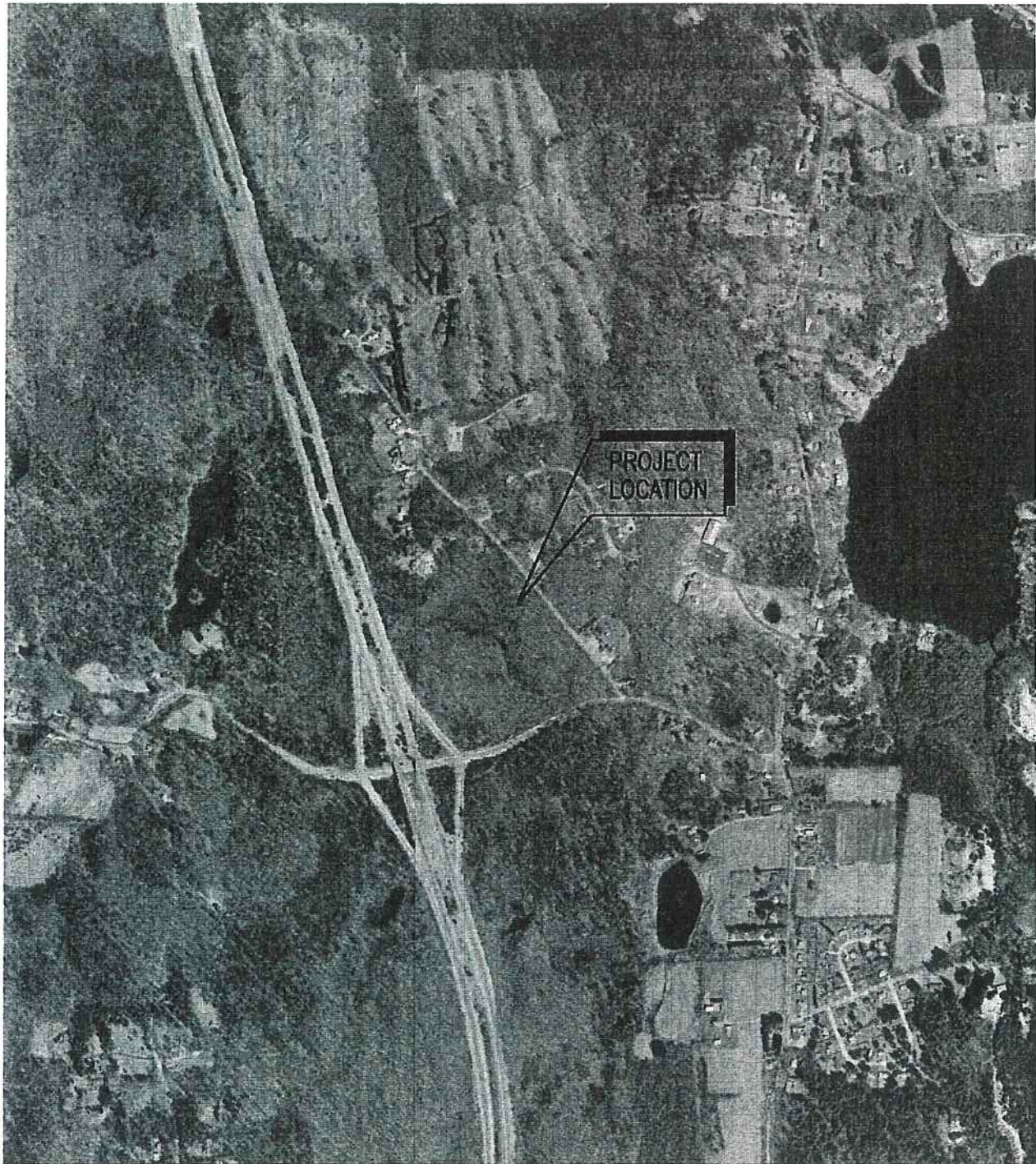
SITE NAME:
THOMPSON

SITE ADDRESS:
**RICH ROAD
THOMPSON, CT 06277
WINDHAM COUNTY**

SHEET TITLE:
USGS TOPO MAP

DATE:
04/27/07

REVISION:
0



1 2004 AERIAL PHOTO
SCALE: 1" = 1000'
0 500 1000
SCALE IN FEET



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2130 Dixie Avenue Highway, Suite 213 - Rocky Hill, CT 06067-3338
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733 TURNPIKE STREET, SUITE 105
NORTH ANDOVER, MA 01845
OFFICE: (978) 687-2536
FAX: (978) 258-8850

SITE NAME:
THOMPSON

SITE ADDRESS:
**RICH ROAD
THOMPSON, CT 06277
WINDHAM COUNTY**

SHEET TITLE:
AERIAL PHOTO

DATE:
04/27/07

REVISION:
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CLOUGH HARBOUR & ASSOCIATES LLP

Site Name: Thompson

Site Address: Rich Road, Thompson, CT 06277

Access distances:

Distance of access over new gravel driveway: 132'

Total distance of site access: 132'

Distance to Nearest Wetlands:

194' to the wetlands to the southwest

Distance to Property Lines:

370' to the northern property boundary

150' to the southern property boundary

442' to the western property boundary

150' to the eastern property boundary

Residence Information:

There are 21 residences within 1,000' feet of the tower. The closest residence is 243' to the northeast.

Tree Removal Count:

Three 6" Oak Trees

One 8" Pine Tree

Eight 8" Oak Trees

Three 10" Oak Trees

Seven 12" Oak Trees

Attachment 3



Home | Site map | Search | Bookmark page | Contact us

The National Wilderness Preservation System

What is wilderness?

Fast facts

Common misconceptions

Map search

Search wilderness data



Click on a photograph above to visit the image

ew York



United States | List All Wildernesses in Massachusetts, New Jersey, New York | National Atlas Map Maker





original map prepared by the National Atlas of the United States of America © (August 2004). Additional data for subsequently designated wilderness areas has been added by the Wilderness.net staff.

To purchase the original National Atlas map, please visit the National Atlas website. If you are interested in downloading wilderness GIS data available on the National Atlas website, click here.

State Fast Facts

State acres: 30,223,000
Acres of wilderness: 1,363
Wildernesses: 1

Largest wilderness: Otis Pike Fire Island High Dune Wilderness
Smallest wilderness: Otis Pike Fire Island High Dune Wilderness
Managing agencies: NPS
Read our data disclaimer.

Map Legend

- Bureau of Land Management Wilderness
- Bureau of Land Management NON-Wilderness
- Fish & Wildlife Service Wilderness
- Fish & Wildlife Service NON-Wilderness
- Forest Service Wilderness
- Forest Service NON-Wilderness
- National Park Service Wilderness
- National Park Service NON-Wilderness
- Major Roads
- Ferry Routes (AK)

Wilderness.net is a partnership project of the Wilderness Institute at The University of Montana's College of Forestry and Conservation, the Arthur Carhart National Wilderness Training Center, and the Aldo Leopold Wilderness Research Institute.
Contact Wilderness.net | Website Policies

Attachment 4



United States Department of the Interior

FISH AND WILDLIFE SERVICE
New England Field Office
70 Commercial Street, Suite 300
Concord, New Hampshire 03301-5087



March 6, 2007

To Whom It May Concern:

The U.S. Fish and Wildlife Service's (Service) New England Field Office has determined that individual project review for certain types of activities associated with communication towers **is not required**. These comments are submitted in accordance with provisions of the Endangered Species Act (ESA) of 1973 (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*).

Due to the rapid expansion of the telecommunication industry, we are receiving a growing number of requests for review of **existing** and **new** telecommunication facilities in relation to the presence of federally-listed or proposed, threatened or endangered species, critical habitat, wilderness areas and/or wildlife preserves. We have evaluated our review process for proposed communications towers and believe that individual correspondence with this office is not required for the following types of actions relative to **existing** facilities:

1. the re-licensing of existing telecommunication facilities;
2. audits of existing facilities associated with acquisition;
3. routine maintenance of existing tower sites, such as painting, antenna or panel replacement, upgrading of existing equipment, etc.;
4. co-location of new antenna facilities on/in existing structures;
5. repair or replacement of existing towers and/or equipment, provided such activities do not significantly increase the existing tower mass and height, or require the addition of guy wires.

In order to curtail the need to contact this office in the future for individual environmental review for **existing** communication towers or antenna facilities, please note that we are not aware of any federally-listed, threatened or endangered species that are being adversely affected by any existing communication tower or antenna facility in the following states: Vermont, New Hampshire, Rhode Island, Connecticut and Massachusetts. Furthermore, we are not aware of any **existing** telecommunication towers in federally-designated critical habitats, wilderness areas or wildlife preserves. Therefore, no further consultation with this office relative to the impact of the above referenced activities on federally-listed species is required.

Future Coordination with this Office Relative to New Telecommunication Facilities

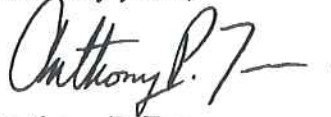
We have determined that proposed projects are not likely to adversely affect any federally-listed or proposed species when the following steps are taken to evaluate new telecommunication facilities:

1. If the facility will be installed within or on an existing structure, such as in a church steeple or on the roof of an existing building, no further coordination with this office is necessary. Similarly, new antennas or towers in urban and other developed areas, in which no natural vegetation will be affected, do not require further review.
2. If the above criteria cannot be met, your review of the attached lists of threatened and endangered species locations within Vermont, New Hampshire, Rhode Island, Connecticut and Massachusetts may confirm that no federally-listed endangered or threatened species are known to occur in the town or county where the project is proposed.
3. If a listed species is present in the town or county where the project is proposed, further review of our enclosed lists of threatened and endangered species may allow you to conclude that suitable habitat for the species will not be affected. Based on past experiences, we anticipate that there will be few, if any, projects that are likely to impact piping plovers, roseate terns, bog turtles, Jesup's milkvetch or other such species that are found on coastal beaches, riverine habitats or in wetlands because communication towers typically are not located in these habitats.

For projects that meet the above criteria, there is no need to contact this office for further project review. A copy of this letter should be retained in your file as the Service's determination that no listed species are present, or that listed species in the general area will not be affected. Due to the high workload associated with responding to many individual requests for threatened and endangered species information, we will no longer be providing response letters for activities that meet the above criteria. This correspondence and the enclosed species lists remain valid until January 1, 2008.

Thank you for your cooperation, and please contact me at 603-223-2541 for further assistance.

Sincerely yours,



Anthony P. Tur
Endangered Species Specialist
New England Field Office

Enclosures

FEDERALLY LISTED ENDANGERED AND THREATENED SPECIES
IN CONNECTICUT

Common Name	Species	Status	County/General Distribution
Sturgeon, shortnose ¹	<i>Acipenser brevirostrum</i>	E	Atlantic coastal waters and Connecticut River
Bat, Indiana	<i>Myotis sodalis</i>	E	New Haven/hibernaculum
Eagle, bald	<i>Haliaeetus leucocephalus</i>	T	Nesting: Hartford, Litchfield Wintering: entire state, major rivers
Plover, piping	<i>Charadrius melodus</i>	T	Nesting: Fairfield, Middlesex, New Haven, New London (coastal beaches) Migratory: Atlantic Coast
Tern, Roseate	<i>Sterna dougallii dougallii</i>	E	Nesting: New Haven (coastal island) Migratory: Atlantic Coast
Turtle, bog	<i>Clemmys muhlenbergii</i>	T	Fairfield, Litchfield
Wedge mussel, dwarf	<i>Alasmidonta heterodon</i>	E	Hartford
Beetle, Puritan tiger	<i>Cicindela puritana</i>	T	Hartford, Middlesex (Connecticut River floodplain)
Beetle, Northeastern beach	<i>Cicindela dorsalis dorsalis</i>	T	Coastal beaches/Extirpated
Small whorled pogonia	<i>Isotria medeoloides</i>	T	Litchfield, New Haven
Sandplain gerardia	<i>Agalinus acuta</i>	E	Hartford
Chaffseed	<i>Scwalbea Americana</i>	E	New London/Historic

¹ Principal responsibility for this species is vested with the National Marine Fisheries Service.

[illegible][illegible]

- [illegible]

[illegible]

STATE AND FEDERAL LISTED SPECIES AND SIGNIFICANT NATURAL COMMUNITIES THOMPSON, CT

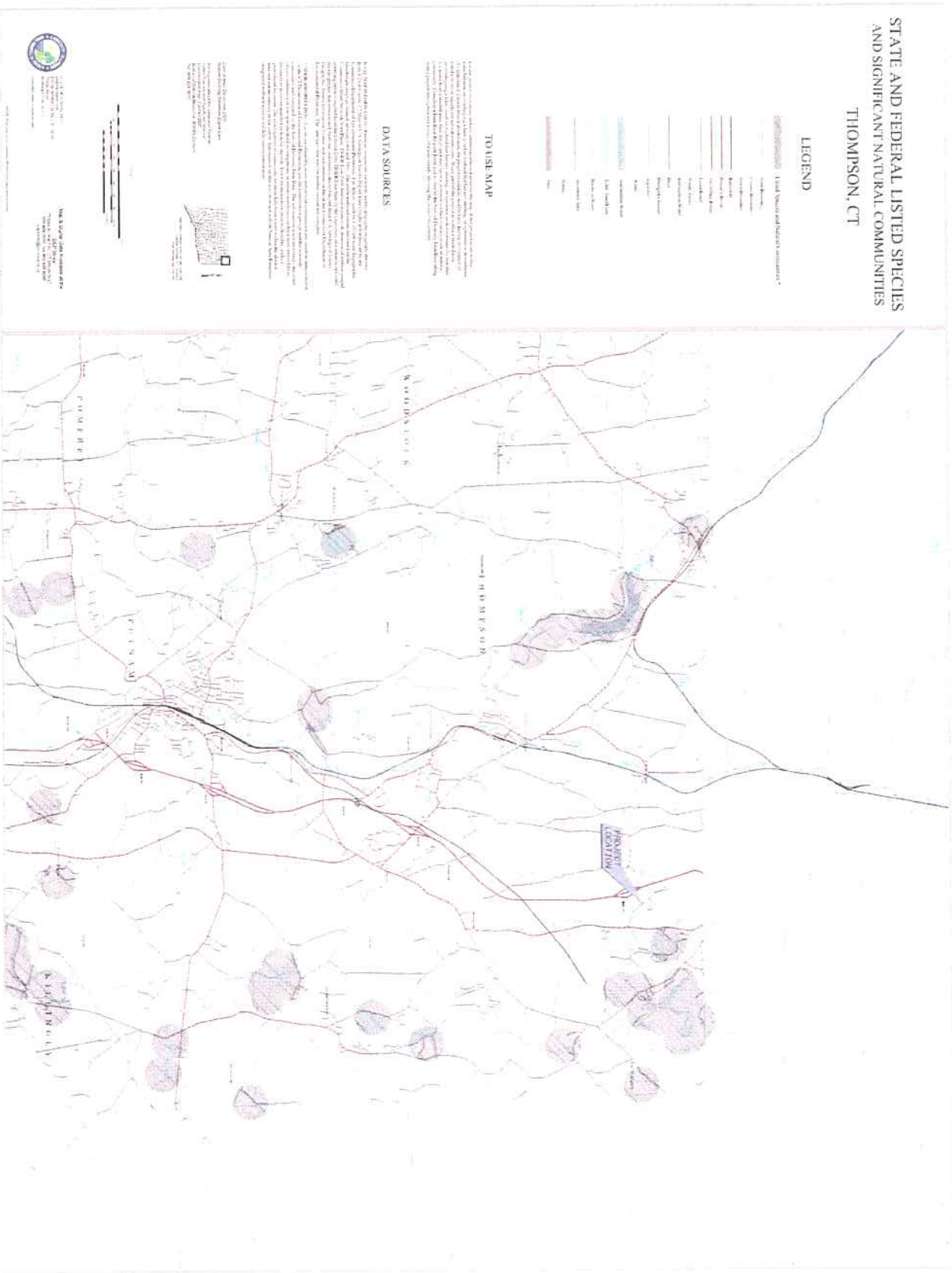
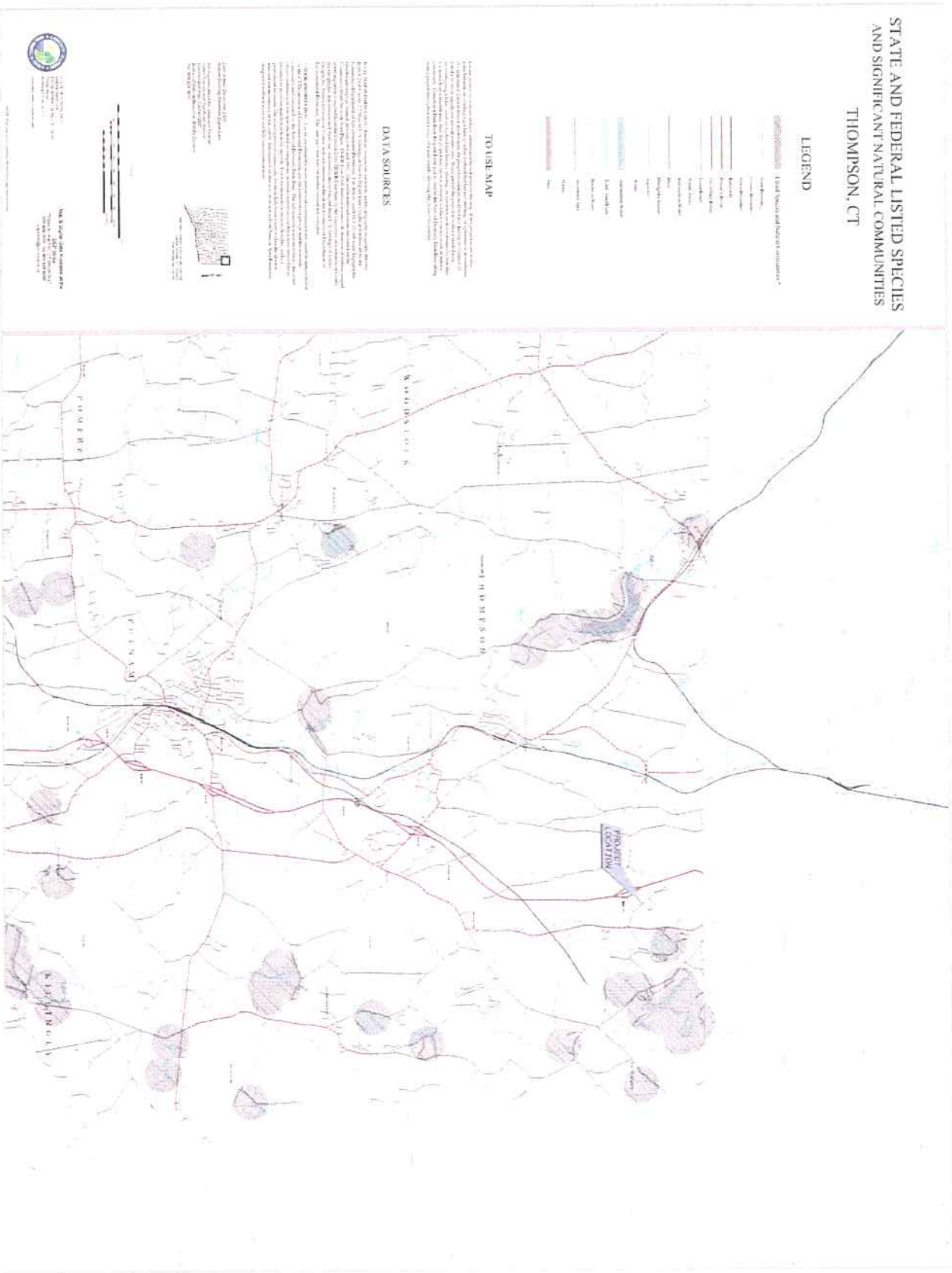
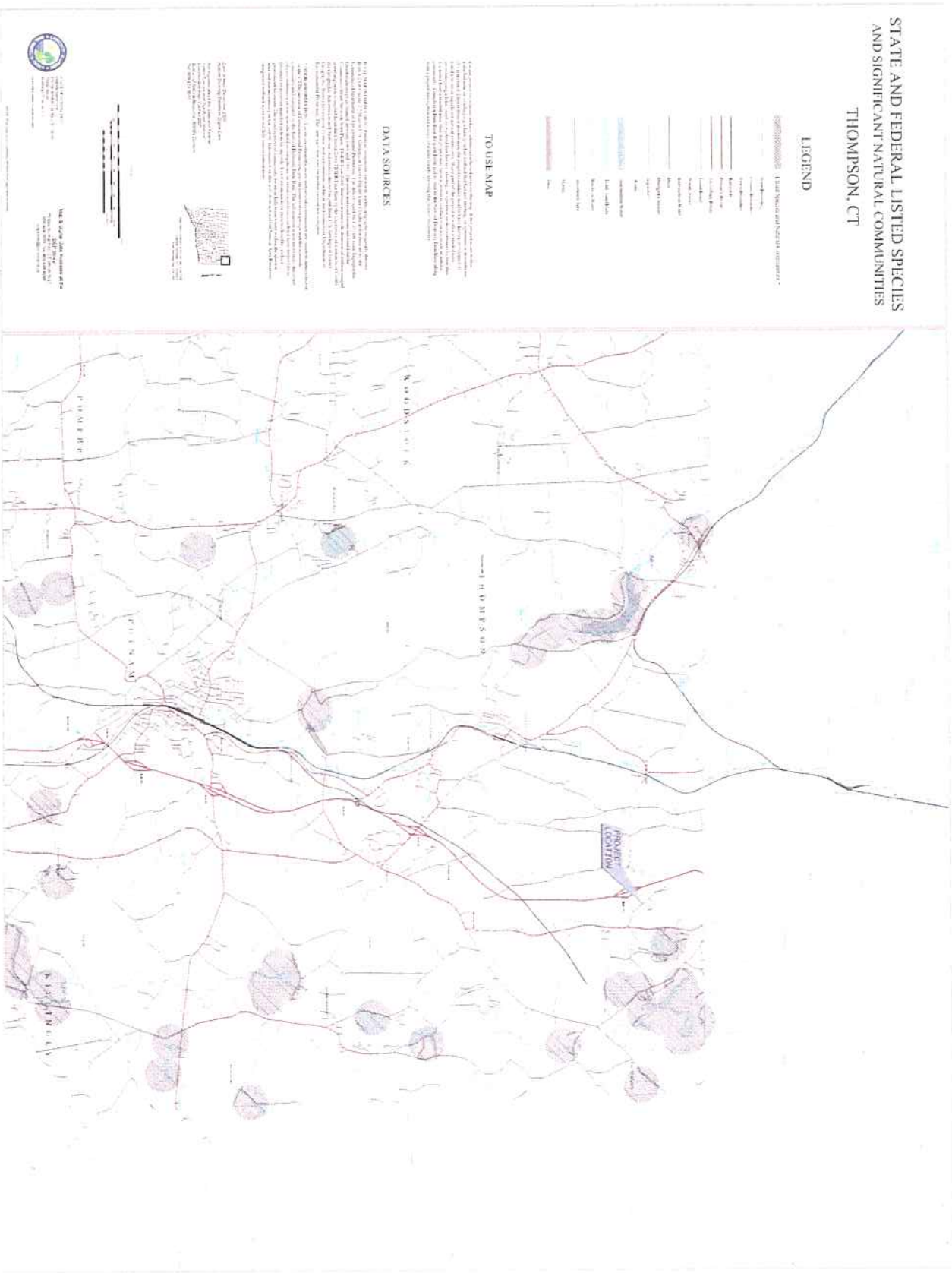
LEGEND

- 1. Land Use and Natural Resources
- 2. Water Bodies
- 3. Wetlands
- 4. Forests
- 5. Agriculture
- 6. Developed Areas
- 7. Open Space
- 8. Wetlands
- 9. Forests
- 10. Agriculture
- 11. Developed Areas
- 12. Open Space
- 13. Wetlands
- 14. Forests
- 15. Agriculture
- 16. Developed Areas
- 17. Open Space
- 18. Wetlands
- 19. Forests
- 20. Agriculture
- 21. Developed Areas
- 22. Open Space
- 23. Wetlands
- 24. Forests
- 25. Agriculture
- 26. Developed Areas
- 27. Open Space
- 28. Wetlands
- 29. Forests
- 30. Agriculture
- 31. Developed Areas
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- 346. Developed Areas
- 347. Open Space

**STATE AND FEDERAL LISTED SPECIES
AND SIGNIFICANT NATURAL COMMUNITIES
THOMPSON, CT**

LEGEND

- 1. Land Species and Natural Communities
- 2. Wetlands
- 3. Forests
- 4. Grasslands
- 5. Shrublands
- 6. Wetlands
- 7. Forests
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- 334. Wetlands

[illegible][illegible]

STATE AND FEDERAL LISTED SPECIES AND SIGNIFICANT NATURAL COMMUNITIES THOMPSON, CT

LEGEND

1. Land Use and Natural Resources

- Forest
- Agriculture
- Urban
- Water
- Wetlands
- Barren
- Open Space
- Other

TO USE MAP

Map of Thompson, CT, showing land use and natural resources. The map includes a legend, a title, and a scale bar. The legend identifies various land use categories such as Forest, Agriculture, and Urban. The map shows the town of Thompson, CT, with its boundaries and major roads. The map also shows the location of the Thompson River and the Thompson Reservoir. The map is titled 'TO USE MAP' and 'LEGEND'.

[illegible]



STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION



May 18, 2007

Mr. Benjamin Rieger
Kleinfelder
99 Lamberton Road, Suite 201
Windsor, CT 06095

Re: MCF Communications Inc.
Rich Road, Thompson

Dear Mr. Rieger:

I have reviewed Natural Diversity Data Base maps and files regarding the area delineated on the map you provided for the proposed site assessment for the MCF Thompson Site located in Thompson, 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

DMM/blm

Attachment 5



Connecticut Commission on Culture & Tourism

July 5, 2007

Historic Preservation
& Museum Division

59 South Prospect Street
Hartford, Connecticut
06106

(v) 860.566.3005
(f) 860.566.5078

Mr. Paul Wheeler
Kleinfelder
7 Airport Park Boulevard
Latham, NY 12110

Subject: Telecommunications Facilities
Rich Road
Thompson, CT
Project No. 82852-2.0

Dear Mr. Wheeler:

The State Historic Preservation Office has reviewed Kleinfelder's FCC NEPA Summary Report, which includes the reconnaissance survey prepared by Heritage Consultants LLC, concerning the above-named project. In the opinion of the State Historic Preservation Office, the archival and archaeological methodologies employed by Heritage Consultants LLC are consistent with our *Environmental Review Primer for Connecticut's Archaeological Resources*.

The State Historic Preservation Office concurs with Heritage Consultants LLC that no further archaeological investigations appear warranted with respect to the proposed undertaking. This office believes that the proposed undertaking will have no effect upon Connecticut's archaeological heritage. This comment is conditional upon Kleinfelder and/or Heritage Consultants LLC' submission of a final reconnaissance report (two copies) to our professional staff for technical analysis.

This office recommends that Heritage Consultants LLC consult with the Office of State Archaeology at the University of Connecticut (Storrs) concerning the professional transfer of all field notes, photographs, and artifactual materials generated by the archaeological investigations.

The State Historic Preservation Office appreciates the cooperation of all interested parties concerning the professional management of Connecticut's archaeological resources.



Telecommunications Facilities
Rich Road
Thompson, CT
Project No. 82852-2.0
Page 2

This comment updates and supersedes all previous correspondence regarding the proposed project.

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

Sincerely,

Karen Senich
Deputy State Historic Preservation Officer

cc: Dr. Nicholas Bellantoni/OSA
Mr. David George/HC

July 19, 2007

Mr. David Poirier
Connecticut State Historic Preservation Office
Historic Preservation and Museum Division
59 South Prospect Street
Hartford, CT 06106

RE: Submission of Archeological Final Reconnaissance Survey Report
Proposed Monopole Telecommunications Tower
MCF Communications, Inc. – Rich Rd Thompson, CT Site
Rich Road
Thompson, Windham County, Connecticut
Project No. 82852 – 2.0

Dear Mr. Poirier:

Attached please find two (2) copies of the Final Phase I Cultural Resources Reconnaissance Survey Report from Heritage Consultants, LLC. conducted for a proposed new tower installation on Rich Road in Thompson, Connecticut, as requested in your correspondence dated July 5, 2007. Per your request, this report is being submitted for use by the Connecticut SHPO professional staff for technical analysis. If you require any additional information or have any questions regarding this submission please contact me at the numbers below or on my mobile phone at (845) 784-6070.

Sincerely,



Paul Wheeler
Project Environmental Scientist

Enclosures

CC: Ms. Nicole Frazer - Clough Harbour & Associates, LLP. without enclosure

July 3, 2007

Mr. David Poirier
Connecticut State Historic Preservation Office
Historic Preservation and Museum Division
59 South Prospect Street
Hartford, CT 06106

RE: Section 106 New Tower Submission Packet and FCC Form 620
Proposed Monopole Telecommunications Tower
MCF Communications, Inc. – Rich Rd Thompson, CT Site
Rich Road
Thompson, Windham County, Connecticut
Project No. 82852 – 2.0

Dear Mr. Poirier:

Attached please find the completed New Tower (NT) Submission Packet for a proposed MCF Communications Site on Rich Road in Thompson, Connecticut. This packet was completed per Section 106 of the National Historic Preservation Act (NHPA) and includes Federal Communication Commission (FCC) Form 620 and all appropriate appendices for your review.

In summary, MCF Communications is proposing to construct a 150-foot tall monopole telecommunications tower and associated equipment with a fenced lease area at the above referenced location. According to a Phase I Cultural Resources Reconnaissance Survey performed by Heritage Consultants, LLC., **"No properties or signs of historic significance were found on or in the vicinity of the project location."** This submission packet presents all necessary communications, research, and information required by Section 106 of the NHPA. If you require any additional information or have any questions regarding this submission please contact me at the numbers below or on my mobile phone at (845) 784-6070.

Sincerely,



Paul Wheeler
Project Environmental Scientist

Enclosures

C: Ms. Nicole Frazer - Clough Harbour & Associates, LLP.

New Tower ("NT") Submission Packet

FCC FORM 620

Introduction

The **NT Submission Packet** is to be completed by or on behalf of Applicants to construct new antenna support structures by or for the use of licensees of the Federal Communications Commission ("FCC"). **The Packet (including Form 620 and attachments) is to be submitted to the State Historic Preservation Office ("SHPO") or to the Tribal Historic Preservation Office ("THPO"), as appropriate, before any construction or other installation activities on the site begin. Failure to provide the Submission Packet and complete the review process under Section 106 of the National Historic Preservation Act ("NHPA")¹ prior to beginning construction may violate Section 110(k) of the NHPA and the Commission's rules.**

The instructions below should be read in conjunction with, and not as a substitute for, the "Nationwide Programmatic Agreement for Review of Effects on Historic Properties for Certain Undertakings Approved by the Federal Communications Commission," dated September 2004, ("Nationwide Agreement") and the relevant rules of the FCC (47 C.F.R. §§ 1.1301-1.1319) and the Advisory Council on Historic Preservation ("ACHP") (36 C.F.R. Part 800).²

Exclusions and Scope of Use

The NT Submission Packet should not be submitted for undertakings that are excluded from Section 106 Review. The categories of new tower construction that are excluded from historic preservation review under Section 106 of the NHPA are described in Section III of the Nationwide Agreement.

Where an undertaking is to be completed but no submission will be made to a SHPO or THPO due to the applicability of one or more exclusions, the Applicant should retain in its files documentation of the basis for each exclusion should a question arise as to the Applicant's compliance with Section 106.

¹ 16 U.S.C. § 470f.

² Section II.A.9. of the Nationwide Agreement defines a "historic property" as: "Any prehistoric or historic district, site, building, structure, or object included in, or eligible for inclusion in, the National Register maintained by the Secretary of the Interior. This term includes artifacts, records, and remains that are related to and located within such properties. The term includes properties of traditional religious and cultural importance to an Indian tribe or Native Hawaiian Organization that meet the National Register criteria."

NT SUBMISSION PACKET – FCC FORM 620

Approved by OMB
3060-1039
Estimated Time Per Response:
.5 to 10 hours

The NT Submission Packet is to be used only for the construction of new antenna support structures. Antenna collocations that are subject to Section 106 review should be submitted using the Collocation ("CO") Submission Packet (FCC Form 621).

General Instructions: NT Submission Packet

Fill out the answers to Questions 1-5 on Form 620 and provide the requested attachments. Attachments should be numbered and provided in the order described below.

For ease of processing, provide the Applicant's Name, Applicant's Project Name, and Applicant's Project Number in the lower right hand corner of each page of Form 620 and attachments.³

1. Applicant Information

Full Legal Name of Applicant: MCF Communications

Name and Title of Contact Person: Nicole Frazer (Clough Harbour & Associates, LLP)

Address of Contact Person (including Zip Code):
111 Winners Circle, P.O. Box 5269 Albany, NY 11205-0269

Phone: (518) 453-4500 Fax: (518) 453-4773

E-mail address: nfrazer@cha-llp.com

2. Applicant's Consultant Information

Full Legal Name of Applicant's Section 106 Consulting Firm:

Kleinfelder, Inc

Name of Principal Investigator: Elsa Heckman

Title of Principal Investigator: Senior Cultural Resource Specialist

Investigator's Address: 99 Lamberton Road, Suite 201

³ Some attachments may contain photos or maps on which this information can not be provided.

Applicant's Name: MCF Communications
Project Name: Rich Road, Thompson, CT
Project Number: 82852-2.0

NT SUBMISSION PACKET – FCC FORM 620

Approved by OMB
3060-1039
Estimated Time Per Response:
.5 to 10 hours

City: Windsor State Connecticut Zip Code 06095

Phone: (800) 929-4472 Fax: (860) 683-4206

E-mail Address: eheckman@kleinfelder.com

Does the Principal Investigator satisfy the Secretary of the Interior's Professional Qualification Standards?⁴ **YES** / NO.

Areas in which the Principal Investigator meets the Secretary of the Interior's Professional Qualification Standards: Archaeology

Other "Secretary of the Interior qualified" staff who worked on the Submission Packet (provide name(s) as well as well as the area(s) in which they are qualified):

3. Site Information

a. Street Address of Site: Rich Road

City or Township: Thompson

County / Parish: Windham State: CT Zip Code: 06277

b. Nearest Cross Roads: Rich Road / Wilsonville Road

c. NAD 83 Latitude/Longitude coordinates (to tenth of a second):

N 42 ° 00 ' 41.46 " ; W 71 ° 51 ' 07.14 "

⁴ The Professional Qualification Standards are available on the cultural resources webpage of the National Park Service, Department of the Interior: <http://www.cr.nps.gov/local-law/arch_stnds_9.htm>. The Nationwide Agreement requires use of Secretary-qualified professionals for identification and evaluation of historic properties within the APE for direct effects, and for assessment of effects. The Nationwide Agreement encourages, but does not require, use of Secretary-qualified professionals to identify historic properties within the APE for indirect effects. See Nationwide Agreement, §§ VI.D.1.d, VI.D.1.e, VI.D.2.b, VI.E.5.

Applicant's Name: MCF Communications
Project Name: Rich Road, Thompson, CT
Project Number: 82852-2.0

NT SUBMISSION PACKET – FCC FORM 620

Approved by OMB

3060-1039

Estimated Time Per Response:

.5 to 10 hours

d. Proposed tower height above ground level:⁵ 150 feet; 45.72 meters

e. Tower type:

☐ guyed lattice tower ☐ self-supporting lattice ☒ monopole

☐ other (briefly describe tower) _____

4. Project Status:⁶

a. ☒ Construction not yet commenced;

b. ☐ Construction commenced on [date] _____; or,

c. ☐ Construction commenced on [date] _____ and was completed on [date] _____.

5. Applicant's Determination of Effect:

a. Direct Effects (check one):

i. ☒ No Historic Properties in Area of Potential Effects ("APE") for direct effects;

ii. ☐ "No effect" on Historic Properties in APE for direct effects;

iii. ☐ "No adverse effect" on Historic Properties in APE for direct effects;

iv. ☐ "Adverse effect" on one or more Historic Properties in APE for direct effects.

b. Visual Effects (check one):

i. ☒ No Historic Properties in Area of Potential Effects ("APE") for visual effects;

ii. ☐ "No effect" on Historic Properties in APE for visual effects;

iii. ☐ "No adverse effect" on Historic Properties in APE for visual effects;

iv. ☐ "Adverse effect" on one or more Historic Properties in APE for visual effects.

⁵ Include top-mounted attachments such as lightning rods.

⁶ Failure to provide the Submission Packet and complete the review process under Section 106 of the NHPA prior to beginning construction may violate Section 110(k) of the NHPA and the Commission's rules. See Section X of the Nationwide Agreement.

Applicant's Name: MCF Communications

Project Name: Rich Road, Thompson, CT

Project Number: 82852-2.0

NT SUBMISSION PACKET – FCC FORM 620

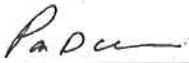
Approved by OMB

3060-1039

Estimated Time Per Response:
.5 to 10 hours

Certification and Signature

I certify that all representations on this FCC Form 620 and the accompanying attachments are true, correct, and complete.

 2007.07.03 13:12:58 -
04'00'

Signature

Date

Paul Wheeler
Printed Name

Project Scientist
Title

WILLFUL FALSE STATEMENTS MADE ON THIS FORM OR ANY ATTACHMENTS ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. Code, Title 18, Section 1001) AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. Code, Title 47, Section 312(a)(1) AND/ OR FORFEITURE (U.S. Code, Title 47, Section 503).

Applicant's Name: MCF Communications
Project Name: Rich Road, Thompson, CT
Project Number: 82852-2.0

Attachment 1. Résumés / Vitae

JEFF SHAMAS
Senior Program Manager

Summary of Experience

Mr. Shamas is senior program manager based out of the Connecticut operations. He holds national certifications as a Professional Wetland Scientist and Certified Ecologist with more than 16 years of experience in the environmental planning and permitting field specializing in wetland and ecological studies, habitat restoration and mitigation, flora and fauna surveys, and water quality assessments. He is responsible for managing a diversity of public and private projects, including transportation, linear and non-linear projects. Proposal writing, estimating and budgeting are additional tasks he is responsible for completing. He has conducted numerous ecological, wetland and environmental assessments and managed remediation of the same. He also served as the town environmental planner and wetland agency administrator for Stratford, CT.

Education

BS, Ecology, Johnson State College, 1989
Plant and Soil Science, University of Massachusetts System : Amherst, Massachusetts,

Certifications

Wetland Delineation Training, 1995

Professional Affiliations

CT Association of Wetland Scientists
National Wildlife Federation
Ecological Society of America
Society of Wetland Scientists
National Society of Consulting Soil Scientists

Select Project Experience

The following is a representative selection of Jeff Shamas's project experience.

Wetlands

Designed and supervised wetland restoration and creation projects. Delineated and mapped wetland and upland soils in the northeast and developed wetland mitigation plans. Prepared environmental impact assessments, wetland & ecological analysis, coastal resource analysis, natural resource inventories, endangered and threatened species surveys, and limnological studies. Prepared Sediment Sampling work plans and Structures/Dredging Permit. Provided lake/pond management; fish, wildlife and vegetation inventories; and watershed studies. Completed Stormwater Pollution Prevention Plans, and Integral Contingency Plans including BMP assessment, evaluation, and implementation.

North Brunswick High School, North Brunswick, NJ

Senior project manager on the North Brunswick High School project responsible for providing federal and state wetland regulatory guidance and supervision of the delineation and evaluation of the wetland areas. The site was impacted with metals, polynuclear aromatic hydrocarbons and chlorinated solvents (TCE). Testing and evaluating the remedial options for mitigation of the TCE plume in groundwater emanating from the historic landfill. Responsible for review of Remedial Action Workplan, groundwater quality characterization, and vapor intrusion studies to ensure wetlands are properly considered and protected. Several thousand dollar project.

Realm Realty, Newington, CT

Senior project manager conducting federal wetland delineations for a commercial retail development for a new Sam's Club on an approximate 40± acre site. Conducted a function-values assessment and designed and prepared in-kind wetland mitigation for emergent, forested, riverine, and shrub habitat. Responsible for monitoring of the mitigation work during and post-construction. Multi-million dollar project.

USPGA Tour, Cromwell, Connecticut

Wetland Delineator. Conducted a federal wetland delineation on the proposed The First Tee project site in Cromwell, CT on an approximate 100± site. Initiated a functions and values assessment on the wetlands. Anticipated 6-8 million dollar project.

Town of Weston, Weston, Connecticut

Senior project manager conducting a federal wetland delineation on the 50± acres Weston Campus Schools project site involving a new elementary school and expansions to the high school and middle school. Completed a functions and values assessment on the wetlands and prepared the design for in-kind wetland mitigation. Multi-million dollar project.

Town of Trumbull, Trumbull, Connecticut

Senior project manager conducting a federal wetland delineation on a new Elementary School project site, approximately 80± acres, involving a new elementary school and associated stormwater best management practices. Completed a functions and values assessment on the wetlands and prepared the design for in-kind wetland mitigation.

Environmental Planning/Wetland Administration

Developed, administered and enforced local Wetland Agency regulations. Evaluated environmental applications and ecological assessments. Conducted water quality analysis for inland and tidal watercourses. Enforced municipal and state environmental regulations. Designed and reviewed soil erosion and sediment control management plans. Team Leader of the Municipal Stormwater Pollution Prevention Plan Team. Coordinated hazardous waste remediation projects with other agencies. Regularly interacted with DEP and USACOE officials. Verified wetland and watercourse boundary delineations. Reviewed and evaluated applications for permitting. Authored, "Inland Wetlands: A Guide to Regulation Enforcement." Provided workshops on limnology and wetlands ecology. Performed EPA Method of Biomonitoring Acute Toxicity

Assessment & Remediation

Prepared environmental applications and impact statements for CT and NY. Performed analytical testing of soil and water.

Permitting

Provided comprehensive environmental permitting assistance. Prepared environmental permit applications and impact statements in CT, MA and NY State (local, state, federal).

PAUL WHEELER
Project Scientist

Summary of Experience

Mr. Wheeler is a project environmental scientist in Kleinfelder's Albany operations with over 7 years experience in the environmental consulting field working on many different types of projects. His responsibilities include project coordination and implementation, direction and oversight of field activities, data analysis and report preparation. He specializes in Geographic Information Systems (GIS), field sampling, wetland delineation, wetland impact analysis, wetland evaluation, and environmental permitting. He also has experience in conducting Fish and Wildlife Impact Assessment Surveys, which include habitat evaluation, endangered species surveys, and environmental impact analysis. His wetland delineation project experience includes bridge construction projects, road replacement projects, and sand and gravel operation projects.

Mr. Wheeler also has over 6 years experience with Geographic Information Systems (GIS) using ESRI ArcView software. He is experienced using GIS for planning the life expectancy of a quarry, managing thousands of data points for a remedial investigation, and to assist with security protocols. Using GIS, Mr. Wheeler has produced detailed maps to assist project management with project related decisions.

Education

BS, Biology, St. Bonaventure University, New York, 2000
MBA, Business Administration, State University of New York System : Albany, New York,
2004

Certifications

Geographic Information System (GIS), Environmental Systems Research Institute, Inc (ESRI),
2002
OSHA 40-Hour HAZWOPER, 2000
OSHA 8-Hour Refresher,
Wetland Delineation Training, Institute for Wetland & Environmental Education Research, 2000

Select Project Experience

The following is a representative selection of Paul Wheeler's project experience.

Wetland Delineations

Conducted numerous wetland boundary delineations for linear roadway projects, bridge improvement projects, and supply well installations. Prepared routine wetland determination data forms and associated delineation reports for submittal to the United States Army Corps of Engineers (USACOE) and New York State Department of Environmental Conservation (NYSDEC).

Conducted wetland delineation and delineation report for the Tech Valley Plaza project in East Greenbush, NY.

Conducted wetland delineation for development project in N. Stonington, CT.

Permitting

Prepared State Environmental Quality Review (SEQR) Act reports, as well as, associated Environmental Impact Study (EIS) reports for New York State regulated projects.

Prepared New York State Coastal Consistency reports for supply well projects along the Hudson River in Bethlehem, NY

Prepared numerous wetland delineation reports and joint permit applications for projects impacting NYSDEC or USACOE regulated wetlands helping to obtain New York State Article 24 Wetlands permits, and Section 401 Water Quality Certifications from the NYSDEC.

Geographic Information Systems (GIS)

Managed and developed GIS of several thousand water, air, and soil data points based on analytical data for projects for the NYSDEC and Lockheed Martin Corporation. Projects involve the preparation of a GIS using data points gathered from residential, municipal, and private wells and structures. These points are used to visualize plume confines.

Presented data in a straight forward and useful manner, and 3-D visualization of data through ArcView Software.

Managed numerous data points through the preparation of a GIS to be used to assist in security decisions for the NYSOGS.

ELSA HECKMAN

Summary of Experience

Ms. Heckman has been involved in archaeological pursuits for nearly 10 years and has acquired practical experience on dozens of projects throughout the United States. She is adept at determining appropriate archaeological methodology strategies on a project-to-project basis and has knowledge of the proper techniques and federal laws necessary for cultural resource management. Her experience interacting in a team environment involving employees, contractors, other professionals, students and volunteers makes her a true asset on multi-component projects where many levels of diplomacy and expertise are necessary.

In addition to her deep understanding of conventional archaeology, her specialties also include GIS applications and Archaeo-geophysical investigations of archaeological sites. She has a strong familiarity with advanced instrumentation used for ground-based remote sensing in archaeological contexts. These technologies include electrical resistivity, electromagnetic induction, magnetic susceptibility, magnetometry, and ground penetrating radar. She also has the computer knowledge and experience to effectively implement Raster and Vector based GIS softwares on projects that can benefit from these technologies. Her GIS software tool kit includes ArcGIS, ArcView 3.2, Surfer 8 and Idrisi Kilimanjaro.

Education

BA, Anthropology, University of Georgia, Georgia, 1997

MA, Anthropology, University of Arkansas, 2005

Registrations

Register of Professional Archaeologists (RPA), 2005

Select Project Experience

The following is a representative selection of Elsa Heckman's project experience.

GIS

Phase III mitigation of archaeological sites 3PO608 and 3PO610 in Poinsett County, Arkansas.

With the intent to examine Native American land use patterns, Ms. Heckman used GIS methods to recreate the early historic forest composition of a township in Poinsett County, Arkansas based on 1841 General Land Office survey data.

Project Manager, Archaeological and Historical Survey and Preparation of a Battlefield Protection Plan for the Western Perimeter of the Lookout Mountain Battlefield, Hamilton County, Tennessee.

Ms. Heckman supervised fieldwork and the electromagnetic survey of a 700-acre portion of the Lookout Mountain Civil War Battlefield in Chattanooga, Tennessee. She developed and carried out a comprehensive mapping strategy for the survey area by

integrating historic maps, on-the-ground site locations, GPS coordinates, and historical records by implementing and maintaining a GIS. For this same project she crafted a compatible artifact database for efficient spatial analysis of the battlefield landscape. Ms. Heckman prepared the report and report graphics for submission to the National Park Service (NPS) and presented project results at several professional conferences.

Archaeo-Geophysics

Archaeo-Imaging Laboratory, University of Arkansas, Ground Based Remote Sensing survey of Double Ditch State Park, North Dakota.

Ms. Heckman worked with a team of professional archaeologists conducting geophysical surveys on this important prehistoric and historic Mandan Indian village north of Bismarck, North Dakota. Techniques included ground penetrating radar (GPR), Electromagnetic (EM) induction, magnetometry, electrical resistance and surface feature mapping. This geophysical survey was the largest and most scientifically notable survey of its kind in North America.

SERDP research project: New Approaches to the Use and Integration of Multi-sensor Remote Sensing for Historic Resource Identification and Evaluation. Alamogordo, New Mexico.

Working with a team of professional archaeologists, Ms. Heckman participated in the geophysical survey of a prehistoric Pueblo site, utilizing the following technologies: GPR, EM induction, magnetic susceptibility, magnetometry, electrical resistance and surface feature mapping.

Graduate Student, University of Arkansas, Fayetteville. Geophysical Methodologies and Test Site for Battlefield Archaeology.

As part of Ms Heckman's Master's thesis research, she created a Civil War battlefield test site on which she tested various remote-sensing instruments suitability for detecting small metallic artifacts. She fused conventional metal detecting with state of the art geophysical prospection methods to arrive at an advanced understanding of how best to conduct archaeological investigations on our nation's battlefields. Methods implemented included: conventional metal detecting, electromagnetic induction (conductivity), and magnetometry.

Archaeologist

U.S. 91 Bear River Bridge, north of Preston, Idaho.

For Idaho Transportation Department (ITD) District 5, Ms. Heckman acted as cultural resources monitor for a bridge replacement over the Bear River on U.S. Highway 91 in Franklin County, Idaho. The undertaking is located at the Bear River Massacre Site, a National Historic Landmark and a site of great spiritual importance to both the Shoshone-Bannock and the Northwestern Band of the Shoshone tribes.

Phase I survey of the Saylor Creek Missile Range, Bruneau Desert, Idaho.

Ms. Heckman's duties included visual survey and site mapping of desert cultural resources.

Archaeologist, Phase I Cultural Resources Survey and Archaeological Inventory of the proposed expansion of I-10 from US 29 (Pensacola Blvd.) to US 90 (Scenic Highway) and I-110 from Maxwell Street to I-10, Escambia County, Florida.

Ms. Heckman conducted phase I archaeological survey of the proposed project area and executed site recordation.

Assistant Project Manager, Phase II Testing of Archaeological Site 40CK184 in Cocke County, Tennessee, in conjunction with proposed State Route 35 (US-321/411) from Good Hope Road to east of the Cocke/Greene County Line, Cocke and Green counties, Tennessee.

Ms. Heckman co-supervised fieldwork, conducted all laboratory analysis, and prepared the background history for a multi-component archaeological site with deposits spanning from the Late Archaic period to the early 1800s.

*Crew Chief, Phase I Archaeological Investigation of State Route 320 (East Brainerd Rd) from 325 ft east of Graysville Rd to 125 E of State Route 321 (Ooltewah - Ringold Rd), Hamilton County, Tennessee.

*

*Crew Chief, Phase I Archaeological Survey of Proposed State route 475, the Knoxville Beltway, in Anderson, Knox, Loudon, and Roane counties, Tennessee.

*

Field Technician, Phase I Archaeological Survey of proposed Interstate 140 extension (Pellissippi Parkway) from west of Cusick Rd to State Route 73 (US 321), Blount County, Tennessee.

Field Technician, Intensive Phase I testing of a 4.8 acre tract in the Carden Farm Industrial Park, Anderson County, Tennessee.

Archaeologist I, Phase I Cultural Resources Survey and Archeological Inventory of the proposed Southern Natural Gas Company (SNG) South System Expansion Project, Sumter, Perry, Dallas, Autauga, Tallapoosa, Macon, and Lee counties, Alabama.

*Archaeologist I, Phase III data recovery excavations at Sites 40SW228 (Puckett Site) and 40SW340, Cross Creeks National Wildlife Refuge, Stewart County, Tennessee.

*

*Archaeologist I, Phase I Cultural Resources Survey and Archeological Inventory of the Texas portion of the proposed Caballero Pipeline Project, Hartley and Moore counties, Texas.

*

Archaeologist II, Phase I Cultural Resources Survey and Archeological Inventory of the proposed 3.7 mile Southern Natural Gas Company 16 in O.D. Upson County and West Georgia Generating Meter Station Project Corridor, Upson County, Georgia.

Archaeologist II, Cultural Resources Survey and Inventory, Florida Gas Transmission Phase V Expansion, FGT Mobile Bay Lateral, Loop A and Loop B, Mobile and Baldwin counties, Alabama.

Archaeologist II, Phase I Cultural Resources Survey and Archeological Inventory of two pipeline loops (Loop J and Loop K) and 10 ancillary use facilities associated with the proposed Florida Gas Transmission Phase V Expansion, FGT Mobile Bay Lateral, Loop A, and Loop B, Gilchrist and Levy counties, Florida.

Archaeologist II, Phase I Cultural Resources Survey and Archeological Inventory of the proposed expansion of I-10 from US 29 (Pensacola Blvd.) to US 90 (Scenic Highway) and I-110 from Maxwell Street to I-10, Escambia County, Florida.

Archaeologist III, Phase I Cultural Resources Survey and Inventory of Oaklands Mansion/Oaklands Spring, Nickajack Trace/Lytte Creek, and Black Fox Spring, Rutherford County, Tennessee.

Archaeologist III, Phase II Cultural Resource Assessment, Survey and Testing at Cross Creeks National Wildlife Refuge, Stewart County, Tennessee.

Archaeologist III, Phase I Cultural Resources Survey and Inventory of a 48.5 mile segment of the proposed 98.8 mile Koch Pipeline Southeast, Inc., Pascagoula Pipeline Project, Assumption, St. James, St John the Baptist, St. Charles, and St. Tammany parishes, Louisiana.

Archaeologist III, Phase I Cultural Resources Survey and Inventory of the proposed Chandeleurs - Destin Extension Project, Jackson County, Mississippi.

Archaeologist III, Supplemental Phase I Cultural Resources Survey and Inventory of the proposed Destin Pipeline Project, Jackson, George, Greene, Wayne, and Clarke counties, Mississippi.

Archaeologist III, Phase I Cultural Resources Survey and Inventory of the proposed Etowah LNG Company, L.L.C. 12.75 in O.D. Etowah Pipeline Project, Polk County, Georgia.

Archaeologist III, Phase I Cultural Resources Survey and Inventory of the proposed Etowah LNG Company L.L.C. Jurisdictional Etowah LNG Peakshaving Facility, Polk County, Georgia.

Archaeologist III/Ethnographer, Phase I Marine and Terrestrial Cultural Resources Survey of 13 project items located on Marsh Island, Iberia Parish, Louisiana.

Archaeologist III, Phase I Cultural Resources Survey and Archeological Inventory of the proposed TENDS Breaux Bridge System Pipeline Project, Vermilion, Lafayette, and St. Martin parishes, Louisiana.

Archaeologist III, Phase II Archeological Testing and National Register Evaluation of four Archeological Sites (16BO400, 16CD87, 16CD235, and 16CD239) within the area of potential effect of the Pool 5 Impoundment Area, Bossier and Caddo parishes, Louisiana.

Determination of Adverse Effect for Slate Creek Bridge (SH-75) over the Salmon River in Custer County, Idaho

Idaho Transportation Department (ITD) is proposing the removal and replacement of Slate Creek Bridge. Ms. Heckman authored the Determination of Adverse Effect detailing impacts to the Historic Bridge structure and outlining preferred alternatives.

TF-25 Material Source Expansion, Twin Falls County, Idaho.

Idaho Transportation Department District 4 (ITD) is proposing to expand an existing material source (Tf-25) in Twin Falls County approximately 4 miles southeast of Hollister, Idaho. Ms Heckman designed and conducted the cultural resources field survey for this 330-acre project area and authored the report detailing project results.

Publications and Papers

Principal Author , *Viewshed Analysis on the Lookout Mountain Battlefield* , Fields of Conflict, Edited volume in press, The Mid-west Archaeological Center 2005

Principal Author, *Geophysical Methodologies and Test Site for Battlefield Archaeology* , Master's Thesis. University of Arkansas Libraries, Fayetteville, Arkansas. 2005

Primary Author, *Interpreting and Protecting the Past at the Lookout Mountain Battlefield in Chattanooga, Tennessee.* , Paper presented at the American Battlefield Protection Program 6th National Conference on Battlefield Preservation in Albany, New York. 2002

Co-Author, *Archaeology of the Battlefield at Lookout Mountain, Tennessee* , Paper presented at the Annual Meeting of Current Research in Tennessee. 2002 Archaeology. Nashville, Tennessee

Co-Author, *Archaeological and Historical Survey of the Western Perimeter of the Lookout Mountain Battlefield.* , , Technical Report Submitted to the National Park Service. 2001

Co-Author, *Archaeological and Historical Survey of the Western Perimeter of the Lookout Mountain Battlefield.* , , Paper presented at the Southeastern Archaeological Conference in Chattanooga, Tennessee. 2001

Co-Author, *Phase II Testing of Archaeological Site 40CK184 in Cocke County, Tennessee, in conjunction with proposed State Route 35 (US-321/411) from Good Hope Road to east of the Cocke/Greene County Line, Cocke and Green counties, Tennessee.* , , Technical report submitted to the Tennessee Department of Transportation. 2001

Seminars/Training

Participant, *Current Archaeological Prospection Advances for Non-Destructive Investigations in the 21st Century.* Archaeological remote-sensing course offered by the National Park Service.

Participant, *GPS Training.* Offered by ENSR environmental Company, Atlanta, Georgia.

ATTACHMENT 2. ADDITIONAL SITE INFORMATION

The site is located in an area of undeveloped woodland on Rich Road approximately 1000 feet northwest of the Rich Road and Wilsonville Road intersection in Thompson, Windham County, Connecticut. The proposed site will consist of a 50- by 90-foot fenced compound, within a 100- by 100- foot lease area, containing a 150-foot tall monopole telecommunications tower and related equipment. In conjunction with the tower and compound, a 20- by 132-foot gravel access drive and associated parking and turnaround area will be constructed to allow for ease of access to the location for site work and maintenance activities. Underground power and telephone utility lines will be installed from the new utility pole along the proposed gravel road to provide service to the facility.

ATTACHMENT 3. TRIBAL AND NHO INVOLVEMENT

Indian Tribes and Native Hawaiian organizations (HNOs) within the undertaking's Area of Potential Effect (APE) were notified by initiating Tribal consultation through the FCC's electronic Tower Construction Notification System (TCNS) on April 30, 2007 and was assigned Notification ID No. 26976.

The Mashantucket Tribe responded on May 3, 2007 to express no knowledge of properties of religious and cultural importance within the proposed project site and to recommend a Phase I Archaeological Reconnaissance Survey. The Narragansett Tribe responded on May 16, 2007 to communicate their desire to consult on the project.



Tower Construction Notification

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Tower Construction Notification New Notification

[Notifications Home](#)

Your Notification has been successfully submitted to the FCC. The date for this Notification is 04/30/2007. Your Notification ID number is **26976**. Please make a note of this Notification ID — print out this page for your records. A confirmation of this submitted notification will also be emailed to the email address specified in your notification.

This system is intended to facilitate consultation under Section 106 of the National Historic Preservation Act by providing early notification of proposed construction to Tribes and State Historic Preservation officers. This system is not to be used in place of Section 106 consultation, and use of this notification system in itself does not satisfy parties' obligations with respect to historic preservation review under the Commission's rules.

Please note: the submission of this notification is NOT to be considered a submission for Antenna Structure Registration.

Tower Structures that require antenna structure registration based on FCC Rules 47 C.F.R. Part 17 must complete FCC Form 854 after FAA clearance is obtained.

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Frazer, Nicole

From: towernotifyinfo@fcc.gov
Sent: Monday, April 30, 2007 9:09 AM
To: Frazer, Nicole
Subject: Proposed Tower Structure Info - Email ID #1539234

Dear Nicole E Frazer Mrs,

Thank you for submitting a notification regarding your proposed structure via the Tower Construction Notification Application. Note that the FCC has assigned a unique Notification ID number for this proposed structure. You will need to reference this Notification ID number when you update your project's Status with us.

Below are the details you provided for the tower you have proposed to construct:

Notification Received: 04/30/2007

Notification ID: 26976

Tower Owner Individual or Entity Name: Clough Harbour and Assoc. for MCF Communications Inc.

Consultant Name: Nicole E Frazer Mrs

Street Address: Clough Harbour & Associates LLP
3 Winners Circle

City: Albany

State: NEW YORK

Zip Code: 12205

Phone: 518-453-8211

Email: nfrazier@cha-llp.com

Structure Type: POLE - Any type of Pole

Latitude: 42 deg 00 min 41 sec N

Longitude: 71 deg 51 min 07 sec W

Location Description: Rich Road

City: Thompson

State: CONNECTICUT

County: WINDHAM

Ground Elevation: 190.5 meters

Support Structure: 45.7 meters above ground level

Overall Structure: 45.7 meters above ground level

Overall Height AMSL: 236.2 meters above mean sea level

Frazer, Nicole

From: towernotifyinfo@fcc.gov
Sent: Friday, May 04, 2007 3:00 AM
To: Frazer, 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 #1541060

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: 04/30/2007

Notification ID: 26976

Tower Owner Individual or Entity Name: Clough Harbour and Assoc. for MCF Communications Inc.

Consultant Name: Nicole E Frazer Mrs

Street Address: Clough Harbour & Associates LLP
3 Winners Circle

City: Albany

State: NEW YORK

Zip Code: 12205

Phone: 518-453-8211

Email: nfrazier@cha-llp.com

Structure Type: POLE - Any type of Pole

Latitude: 42 deg 0 min 41.0 sec N

Longitude: 71 deg 51 min 7.0 sec W

Location Description: Rich Road

City: Thompson

State: CONNECTICUT

County: WINDHAM

Ground Elevation: 190.5 meters

Support Structure: 45.7 meters above ground level

Overall Structure: 45.7 meters above ground level

Overall Height AMSL: 236.2 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

Frazer, Nicole

From: towernotifyinfo@fcc.gov
Sent: Wednesday, May 16, 2007 11:22 AM
To: Frazer, Nicole
Cc: towernotifyinfo@fcc.gov; sequahna@yahoo.com
Subject: Reply to Proposed Tower Structure (Notification ID #26976) - Email ID #1553115

Dear Nicole E Frazer Mrs,

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 #26976:

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 # 26976, located in Thompson, 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: 04/30/2007
Notification ID: 26976
Tower Owner Individual or Entity Name: Clough Harbour and Assoc. for MCF Communications Inc.

Consultant Name: Nicole E Nicole Mrs
Street Address: Clough Harbour & Associates LLP
3 Winners Circle
City: Albany
State: NEW YORK
Zip Code: 12205
Phone: 518-453-8211
Email: nfrazier@cha-llp.com

Structure Type: POLE - Any type of Pole
Latitude: 42 deg 0 min 41.0 sec N
Longitude: 71 deg 51 min 7.0 sec W
Location Description: Rich Road
City: Thompson
State: CONNECTICUT
County: WINDHAM
Ground Elevation: 190.5 meters
Support Structure: 45.7 meters above ground level
Overall Structure: 45.7 meters above ground level
Overall Height AMSL: 236.2 meters above mean sea level

Frazer, Nicole

From: towernotifyinfo@fcc.gov
Sent: Thursday, May 03, 2007 2:31 PM
To: Frazer, Nicole
Cc: towernotifyinfo@fcc.gov; KKnowles@mpn-nsn.gov
Subject: Reply to Proposed Tower Structure (Notification ID #26976) - Email ID #1545116

Dear Nicole E Frazer Mrs,

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 #26976:

Dear Mrs. Frazer,
Regarding Notification ID # 26976, 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: 04/30/2007
Notification ID: 26976
Tower Owner Individual or Entity Name: Clough Harbour and Assoc. for MCF Communications Inc.
Consultant Name: Nicole E Nicole Mrs
Street Address: Clough Harbour & Associates LLP
3 Winners Circle
City: Albany
State: NEW YORK
Zip Code: 12205
Phone: 518-453-8211
Email: nfrazier@cha-llp.com

Structure Type: POLE - Any type of Pole
Latitude: 42 deg 0 min 41.0 sec N
Longitude: 71 deg 51 min 7.0 sec W
Location Description: Rich Road
City: Thompson
State: CONNECTICUT
County: WINDHAM
Ground Elevation: 190.5 meters
Support Structure: 45.7 meters above ground level
Overall Structure: 45.7 meters above ground level
Overall Height AMSL: 236.2 meters above mean sea level

ATTACHMENT 4. LOCAL GOVERNMENT

The Town of Thompson will be reviewing the project. Information regarding this review is attached in the Appendix. The project will go through a town consultation period, and then through the CT Siting Council.

ATTACHMENT 5. PUBLIC INVOLVEMENT

The public has been given the opportunity to comment on this project through a legal ad placed in the Norwich Bulletin by Clough Harbour & Associates LLP on May 11, 2007 describing the project with a 43-day comment period ending on June 23, 2007.

PUBLIC NOTIFICATION

MCF Communications, Inc. proposes to construct a 150 foot monopole tower and associated ground equipment to be located on Rich Road, Thompson, CT 06277. Clough Harbour & Associates LLP (CHA) on behalf of MCF Communications, Inc. invites comments from any interested party regarding the potential effects of the project on historic properties. Comments may be sent to CHA, Attn: Nicole Frazer, 111 Winners Circle, Albany, NY, 12205, (518)453-8211. Comments must be received by 6/23/07.

PUBLISHER'S CERTIFICATE

PUBLIC NOTIFICATION
 MCF Communications, Inc. proposes to construct a 150 foot monopole tower and associated ground support structure on a 100 acre parcel located on Rich Road, Thompson, CT 06277. Close to the town of Thompson, CT. MCF Communications, Inc. invites comments from any interested party regarding the potential effects of the project on the properties of the town of Thompson, CT. Comments should be sent to: Mr. Nicole Frazer, Winner, Office, Attn: NY-12295-1918, 8211 Comments, must be resolved by 6/23/07.

State of Connecticut,

ss. Norwich

County of New London,

On this 28th day of June 2007

personally appeared before the undersigned, a Notary Public, within and for said County and State

Joann A. Butler, Proof of Publication

of the "NORWICH BULLETIN" a daily newspaper published at Norwich, County of New London, State of Connecticut, who, being duly sworn, states on oath that

PUBLIC NOTIFICATION

MCF COMMUNICATIONS, INC.

in its issue of the

11TH of May 2007

Joann A. Butler

Subscribed and sworn to before me this 28th day

June A.D. 2007

Cindy M. Lisee

Notary Public Cindy M. Lisee

NOTARY PUBLIC

State of Connecticut

My Commission Expires _____

My Commission Expires 06/30/08

ATTACHEMENT 6. ADDITIONAL CONSULTING PARTIES

To date, no additional consulting parties have been invited to participate in the review of the proposed project.

ATTACHMENT 7. AREAS OF POTENTIAL EFFECTS

APE for Direct Effects – The Area of Potential Effect (APE) for Direct Effects for this proposed facility is based on the tower height of 150 feet. Due to this height the APE for Direct Effects was determined to be 200 feet in all directions from the center of the proposed facility location footprint. This APE takes into account areas that will be or potentially could be physically impacted by the construction and operation of the proposed facility.

APE for Visual Effects – The APE for Visual Effects for this proposed facility is based on the tower height of 150 feet. Due to this height the APE for Visual Effects was determined to be a half-mile from the proposed tower site.

ATTACHMENT 8. HISTORIC PROPERTIES IDENTIFIED IN THE APE FOR VISUAL EFFECTS

According to the Phase I Cultural Resources Reconnaissance Survey (Survey) performed by Heritage Consultants, LLC., there are no properties within the designated APE that are listed in the National Register, have been formally determined eligible for listing by the Keeper of the National register, or are identified as considered eligible for listing in the records of the SHPO/THPO, pursuant to Section VI.D.1.a of the Nationwide agreement. A copy of this report is provided in Attachment 10.

According to the Survey, there are no properties within the designated APE that were identified through the comments of Indian Tribes, NHOs, local governments, or members of the public. There are no properties that are no longer considered eligible for inclusion in the National Register.

ATTACHMENT 9. HISTORIC PROPERTIES IDENTIFIED IN THE APE FOR DIRECT EFFECTS

According to the Phase I Cultural Resources Reconnaissance Survey performed by Heritage Consultants, LLC., there are no properties listed in Attachment 8 that are within the APE for direct effects. The methods used during the survey as described in the survey are stated as follows:

"Following the completion of the background research, the Areas of Potential Effect were subjected to a Phase I cultural resources reconnaissance survey utilizing pedestrian survey, subsurface testing, mapping, and photo-documentation. The sampling strategy was designed to provide thorough coverage of all portions of the Areas of Potential Effect, including the proposed lease area and associated access road. The pedestrian survey portion of this investigation included visual reconnaissance of all areas located within and immediately adjacent to the areas of Potential Effect, as well as photo-documentation of the proposed project area and its immediate surroundings. The subsurface testing portion of this investigation involved the excavation of shovel tests throughout the proposed lease area. Shovel tests excavated in these areas were positioned in the four corners, as well as at the proposed monopole location. Shovel testing was also conducted along the route of the proposed access road at 15 m (49.2 ft) intervals.

During survey, each shovel test measured 50 cm (17.9 in) in diameter and each was excavated to a depth of 50 cmbs (19.7 inbs) or until sterile subsoil, glacial till, or immovable objects (e.g., boulders) were encountered. Each shovel test was excavated in 10 cm (3.9 in) arbitrary levels within natural strata, and the fill from each level was screened separated. All shovel test fill was screened through 0.635 cm (0.25 in) hardware cloth. Soil characteristics were recorded in the field using Munsell Soil Color Charts and standard soils nomenclature. Finally, each shovel test was backfilled immediately upon completion of the archeological recordation process."

A copy of the full Phase I Cultural Resources Reconnaissance Survey is included in Attachment 10.

ATTACHMENT 10. EFFECTS ON IDENTIFIED PROPERTIES

No historical properties were identified within the APE for direct or visual effects during this review. Therefore, the proposed undertaking will have no direct or visual effects on historical properties, requiring no proposed alternatives to avoid, minimize, or mitigate any adverse effects. A copy of the Phase I Cultural Resources Reconnaissance Survey is attached.

Pages 68-99, the Phase 1 Archeological Survey, have been excluded in printing. The Phase 1 Archeological Survey can be found at Exhibit J of this Application.

ATTACHMENT 11. PHOTOGRAPHS



Photo 1 - Location of center of proposed tower compound – Trees with orange flags.



Photo 2 - Surface conditions looking northwest from the proposed location



Photo 1 - Location of center of proposed tower compound – Trees with orange flags.



Photo 2 - Surface conditions looking northwest from the proposed location



Photo 3 - Surface conditions looking at proposed tower location from southwest



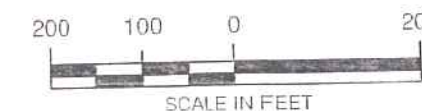
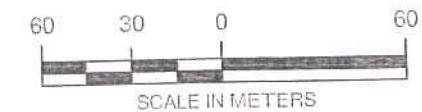
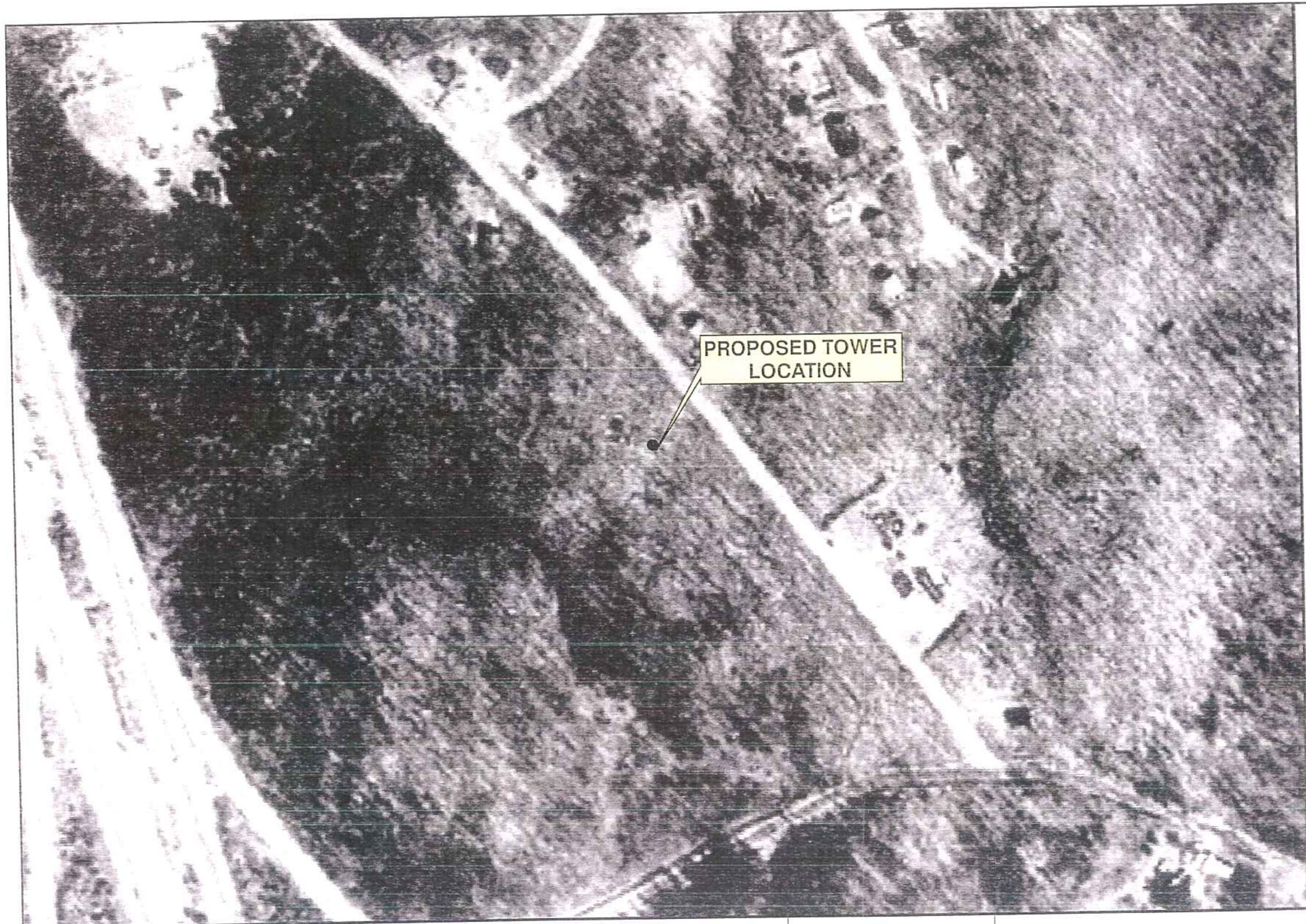
Photo 4 - Surface conditions southwest of proposed location



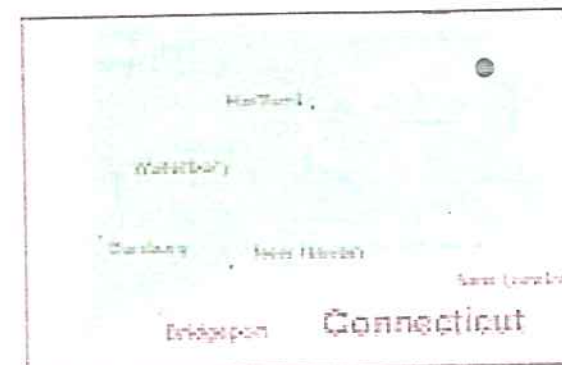
Photo 5 - Surface conditions southeast of proposed location



Photo 6 - Surface conditions northeast of proposed location



LATITUDE: 42° 00' 41.46" N
LONGITUDE: 71° 51' 07.14" W



SITE
LOCATION

NOTES

1. AERIAL PHOTO DOWNLOADED FROM CT DEP GIS DATABASE
http://www.depdata.ct.gov/gis/topo_ortho.asp?townsel=141

DRAWN BY: PW

REVISED BY: PW

CHECKED BY: JS

DATE: 3/20/07 APPROVED BY: JS

KLEINFELDER

7 AIRPORT PARK BLVD
LATHAM, NEW YORK 12110
PH. (518) 786-8750 FAX. (518) 786-8755
www.kleinfelder.com

SOURCE: CT DEP GIS DATA

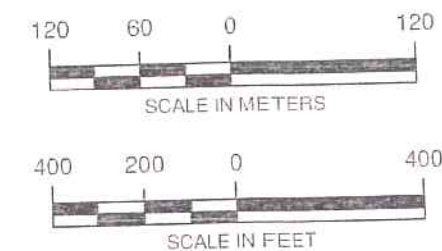
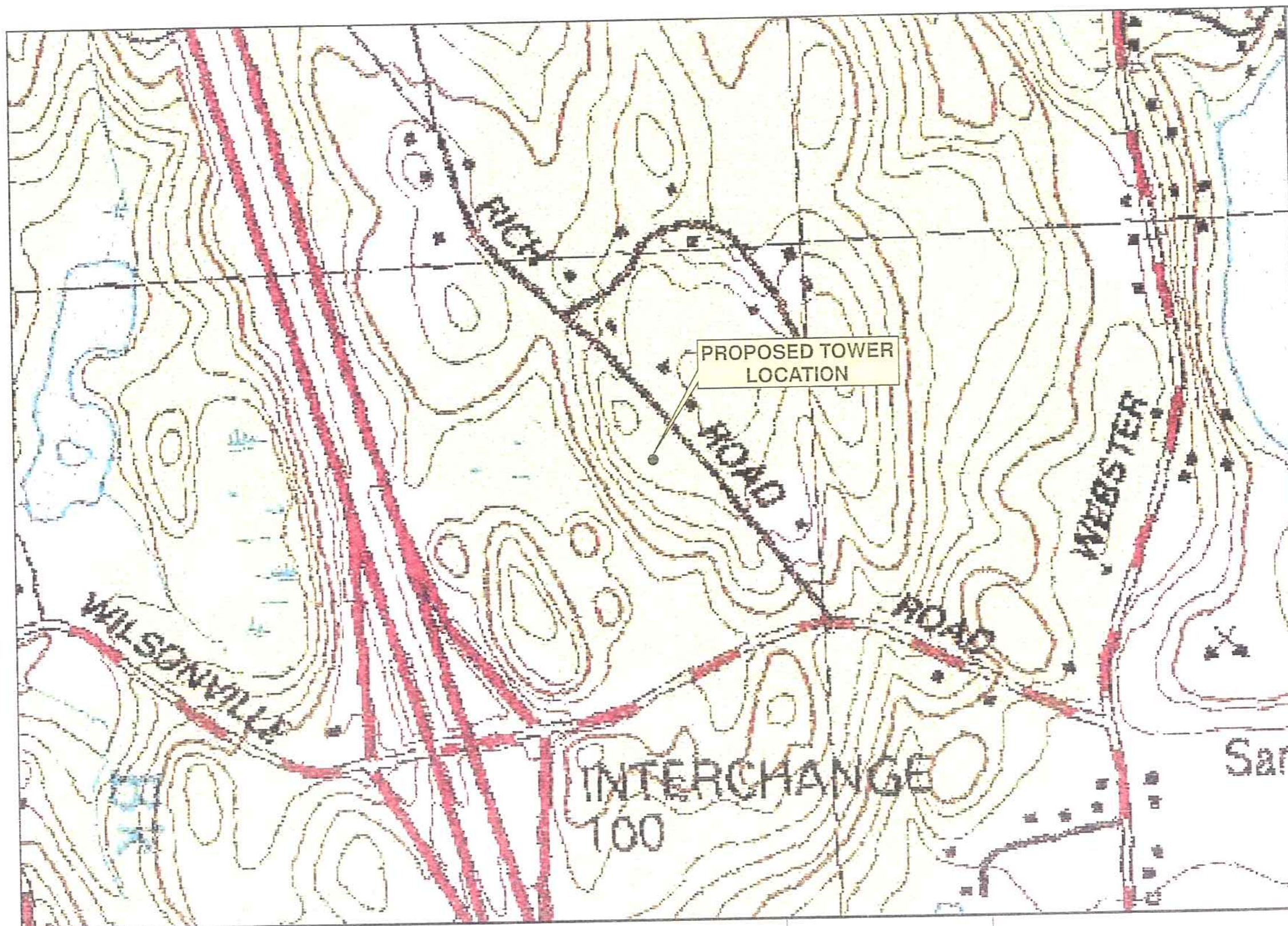
SITE AERIAL PHOTOGRAPH

THOMPSON SITE
RICH ROAD
TOWN OF THOMPSON
WINDHAM COUNTY, CONNECTICUT

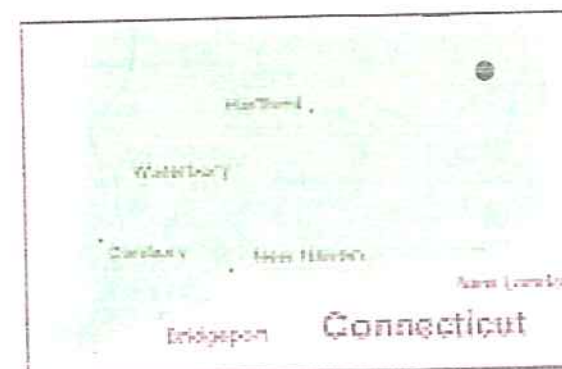
FIGURE

1

ATTACHMENT 12. MAPS



LATITUDE: 42° 00' 41.46" N
LONGITUDE: 71° 51' 07.14" W



SITE
LOCATION

NOTES

1. OXFORD, CT QUAD MAP DATE 1984

DRAWN BY:	PW
REVISED BY:	PW
CHECKED BY:	JS
DATE:	APPROVED BY:
3/20/07	JS

KLEINFELDER

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LATHAM, NEW YORK 12110
PH. (518) 786-8750 FAX. (518) 786-8755
www.kleinfelder.com

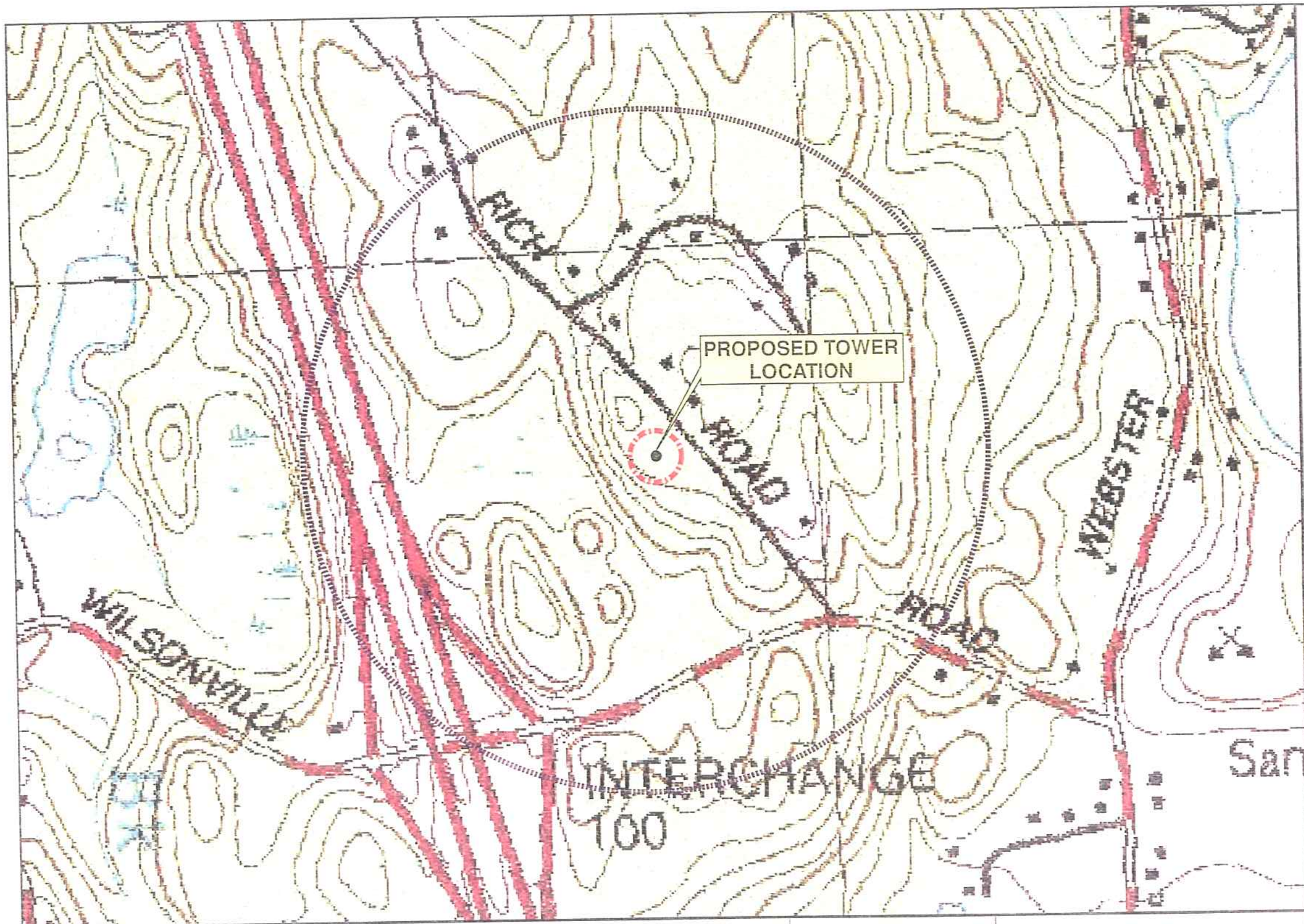
SOURCE: CT DEP GIS DATA

SITE LOCATION MAP

THOMPSON SITE
RICH ROAD
TOWN OF THOMPSON
WINDHAM COUNTY, CONNECTICUT

FIGURE

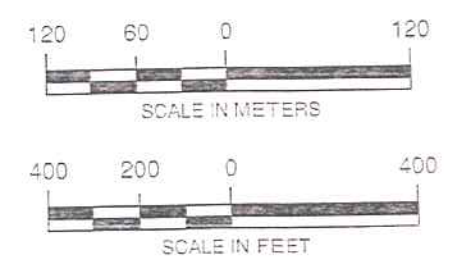
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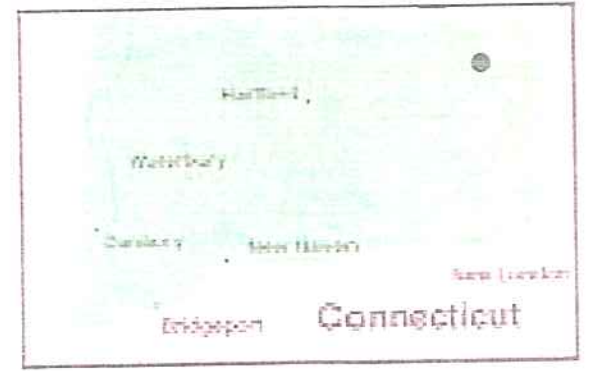
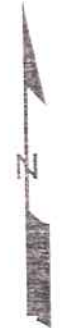
LEGEND

APE FOR DIRECT EFFECTS - 200 FT

APE FOR VISUAL EFFECTS - 1/2 MILE



LATITUDE: 42°00'41.46" N
 LONGITUDE: 71°51'07.14" W



SITE
LOCATION

NOTES

1. OXFORD, CT QUAD MAP DATE 1984

DRAWN BY:	PW
REVISED BY:	PW
CHECKED BY:	JS
DATE:	3/20/07
APPROVED BY:	JS

KLEINFELDER

7 AIRPORT PARK BLVD
 LATHAM, NEW YORK 12110
 PH. (518) 786-8750 FAX. (518) 786-8755
www.kleinfelder.com

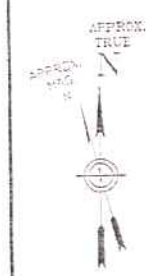
SOURCE: CT DEP GIS DATA

**DIRECT AND VISUAL
EFFECT MAP**

THOMPSON SITE
 RICH ROAD
 TOWN OF THOMPSON
 WINDHAM COUNTY, CONNECTICUT

FIGURE

2

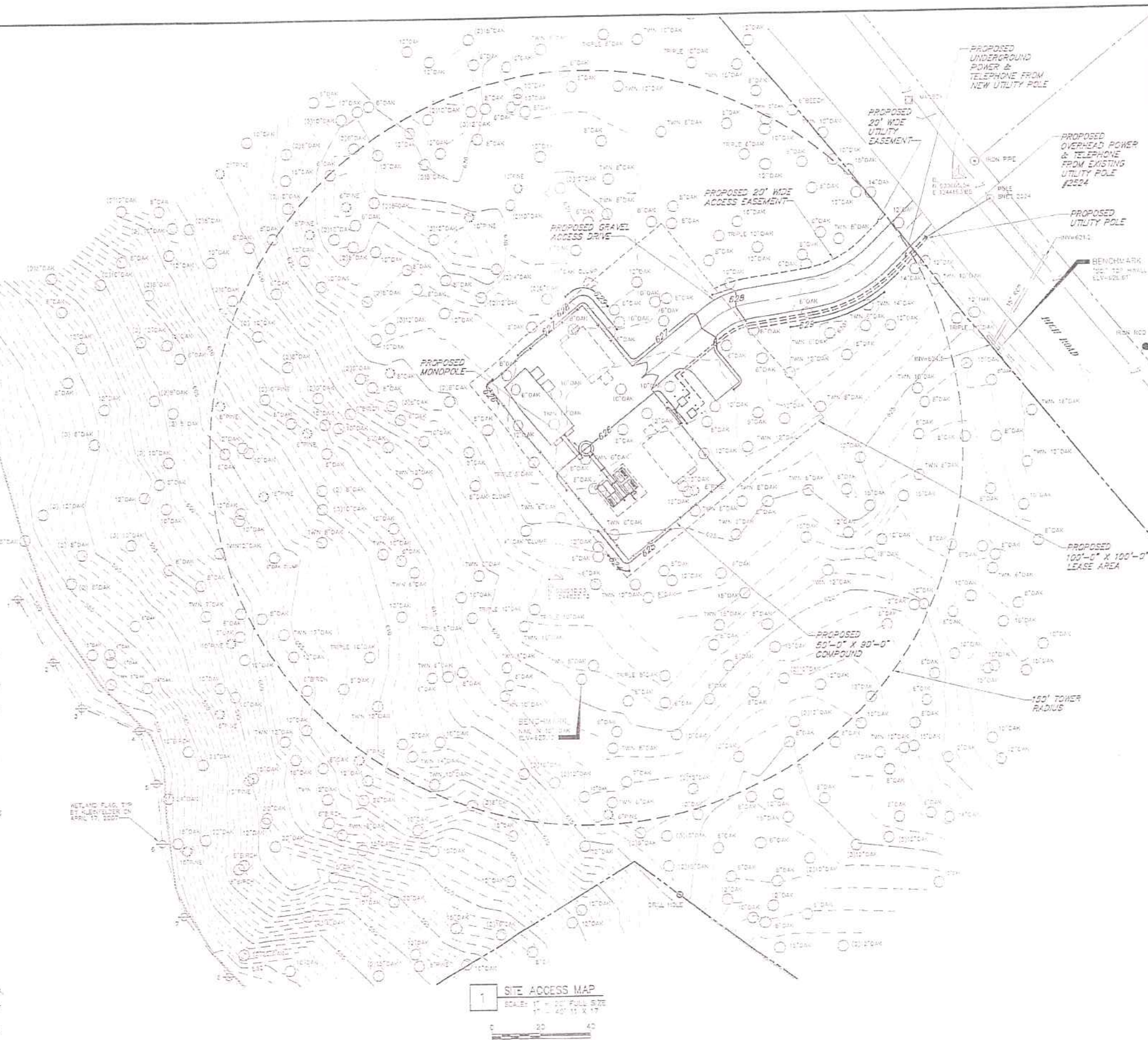


NOTES:

1. THIS SURVEY HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 10-300a-1 THROUGH 10-300a-20 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS INC. ON SEPTEMBER 26, 1986. THE BOUNDARY LINES SHOWN ON THIS PLAN WERE OBTAINED FROM OTHER MAPS, RECORD RESEARCH OR OTHER SOURCES OF INFORMATION. IT IS NOT TO BE CONSTRUED AS HAVING BEEN OBTAINED AS THE RESULT OF A FIELD SURVEY, AND IS SUBJECT TO SUCH CHANGE AS AN ACCURATE FIELD SURVEY MAY DISCLOSE.
2. PROPERTY LINE SHOWN HEREON ARE FROM RECORD DEEDS PLOTS AND TAX MAPS AS OVERLAIN ON ANY MONUMENTATION OR OTHER EVIDENCE THAT MAY HAVE BEEN LOCATED DURING THE TOPOGRAPHIC SURVEY. A PROPERTY SURVEY WAS NOT PERFORMED BY CLOUGH HARBOUR & ASSOCIATES LLP AND AS A RESULT THE PROPERTY LINES SHOWN ARE APPROXIMATE AND DO NOT PRESENT A PROPERTY/BOUNDARY CRIMINAL.
3. BASE MAPING PREPARED BY CLOUGH HARBOUR & ASSOCIATES LLP FROM AN APRIL 2007 FIELD SURVEY.
4. NORTH ORIENTATION IS TRUE NORTH BASED ON GPS OBSERVATIONS TAKEN AT THE TIME OF THE FIELD SURVEY.
5. UNDERGROUND UTILITIES, STRUCTURES AND FACILITIES HAVE BEEN SHOWN FROM SURFACE LOCATIONS AND MEASUREMENTS OBTAINED FROM A FIELD SURVEY. THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHER UTILITIES WHICH THE EXISTENCE OF ARE NOT KNOWN. SIZE, TYPE AND LOCATION OF ALL UTILITIES AND STRUCTURES MUST BE VERIFIED BY PROPER AUTHORITIES PRIOR TO ANY AND ALL CONSTRUCTION.
6. SUBJECT TO ANY STATEMENT OF FACTS THAT AN UP-TO-DATE ABSTRACT OF TITLE WOULD DISCLOSE.
7. SUBJECT TO ALL RIGHTS, EASEMENTS, COVENANTS OR RESTRICTIONS OF RECORD.
8. LATITUDE/LONGITUDE/ELEVATIONS WERE OBTAINED UTILIZING NGS CORS BASE STATION NAMED "02PV". LATITUDE/LONGITUDE ARE REFERENCED TO NAD83 CONNECTICUT ZONE. COORDINATES SHOWN, IF ANY, ARE EXPRESSED IN U.S. SURVEY FEET. ELEVATIONS ARE REFERENCED TO NAVD83, TOP OF STRUCTURE HEIGHT AS SHOWN, IF ANY, DETERMINED BY VERTICAL ANGLE OR BY ACTUAL LOCATION INFORMATION SHOWN BASED ON FAA 2D CERTIFICATION ACCURACY LEVEL DEFINED AS:
HORIZONTAL: 1/80 FEET / 15 METERS
VERTICAL: 1/200 FEET / 6 METERS
9. SITE FALLS WITHIN ZONE "1" DEFINED AS AREAS OF MINIMAL FLOODING AS SHOWN ON FLOOD INSURANCE RATE MAP, TOWN OF THOMPSON, CONNECTICUT, WINDHAM COUNTY, PANEL 10 OF 20, COMMUNITY PANEL NUMBER 090177 0010 B, REVISED NOVEMBER 1, 1984.

MAP REFERENCES:

1. MAP ENTITLED "SUBDIVISION PLAN PROPERTY OF THEODORE TONIA, JR." AS PREPARED BY MESEER & ASSOCIATES, ENGINEERS-SURVEYORS, DATED 11/87 AND ON FILE IN THE OFFICE OF THE TOWN CLERK OF THOMPSON, CT AS MAP NO. 1032.
2. MAP ENTITLED "PLAN OF LAND OF LYNN C. WHITNEY ET AL IN THE TOWN OF THOMPSON, CONN., DATED OCT. 22, 1994 AS PREPARED WILLIAM W. RHE.



1 SITE ACCESS MAP
SCALE: 1" = 20' FULL SIZE
1" = 40' 11" X 17"
0 20 40
SCALE IN FEET

MCF Communications, Inc.
730 TURNPIKE STREET, SUITE 105
NORTH ANDOVER, MA 01845
OFFICE: (978) 557-5555
FAX: (978) 259-5555

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CHA
CLOUGH HARBOUR & ASSOCIATES LLP
2129 Essex Street, Suite 212, Rockport, MA 01866-1330
Tel: (978) 967-4101 www.cloughharbour.com

CHA PROJECT NO:
14957 - 1006 - 1801

SUBMITTAL	
NO	DATE
1	04/27/07
2	05/01/07
3	05/01/07
4	05/01/07
5	05/01/07
6	05/01/07
7	05/01/07
8	05/01/07
9	05/01/07
10	05/01/07
11	05/01/07
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13	05/01/07
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19	05/01/07
20	05/01/07

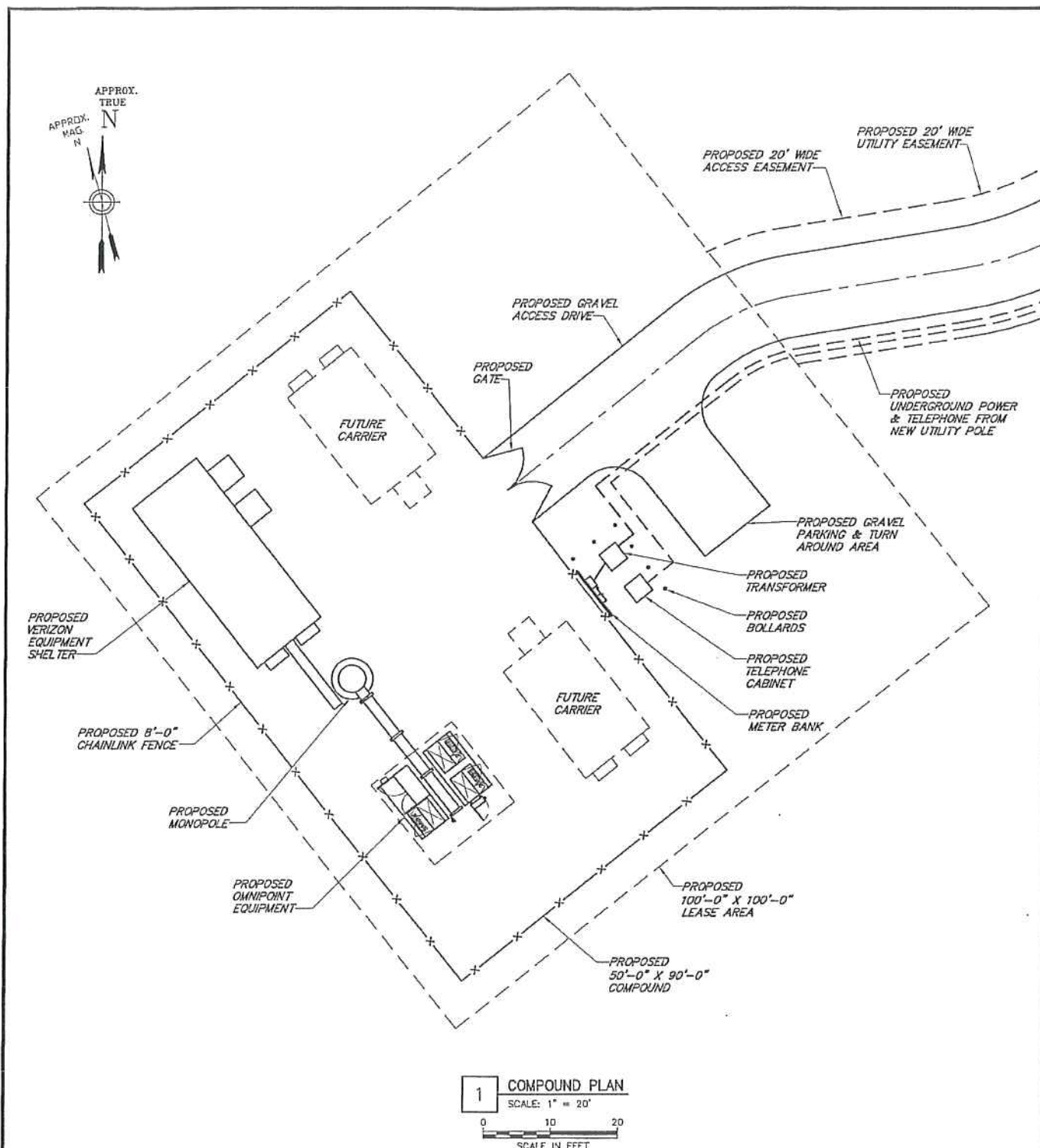
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SITE NAME:
THOMPSON

SITE ADDRESS:
RICH ROAD
THOMPSON, CT
06277
WINDHAM COUNTY

SHEET TITLE
SITE ACCESS MAP

SHEET NUMBER
A02



BASEMAP NOTES:

1. BASEMAP INFORMATION OBTAINED FROM A SURVEY PERFORMED BY CLOUGH HARBOUR & ASSOCIATES LLP IN AUGUST 2007.

Drawing Copyright: © 2007 Clough Harbour & Associates LLP

CHA

CLOUGH HARBOUR & ASSOCIATES LLP
2120 State Street Highway, Suite 212 • Rocky Hill, CT 06067-2220
Main: (860) 257-4533 • www.clough-ha-fair.com

CHA PROJ. NO. - 14957-1006

MCF Communications, Inc.

733 TURNPIKE STREET, SUITE 105
NORTH ANDOVER, MA 01845
OFFICE: (978) 667-2536
FAX: (978) 258-6650

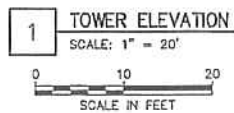
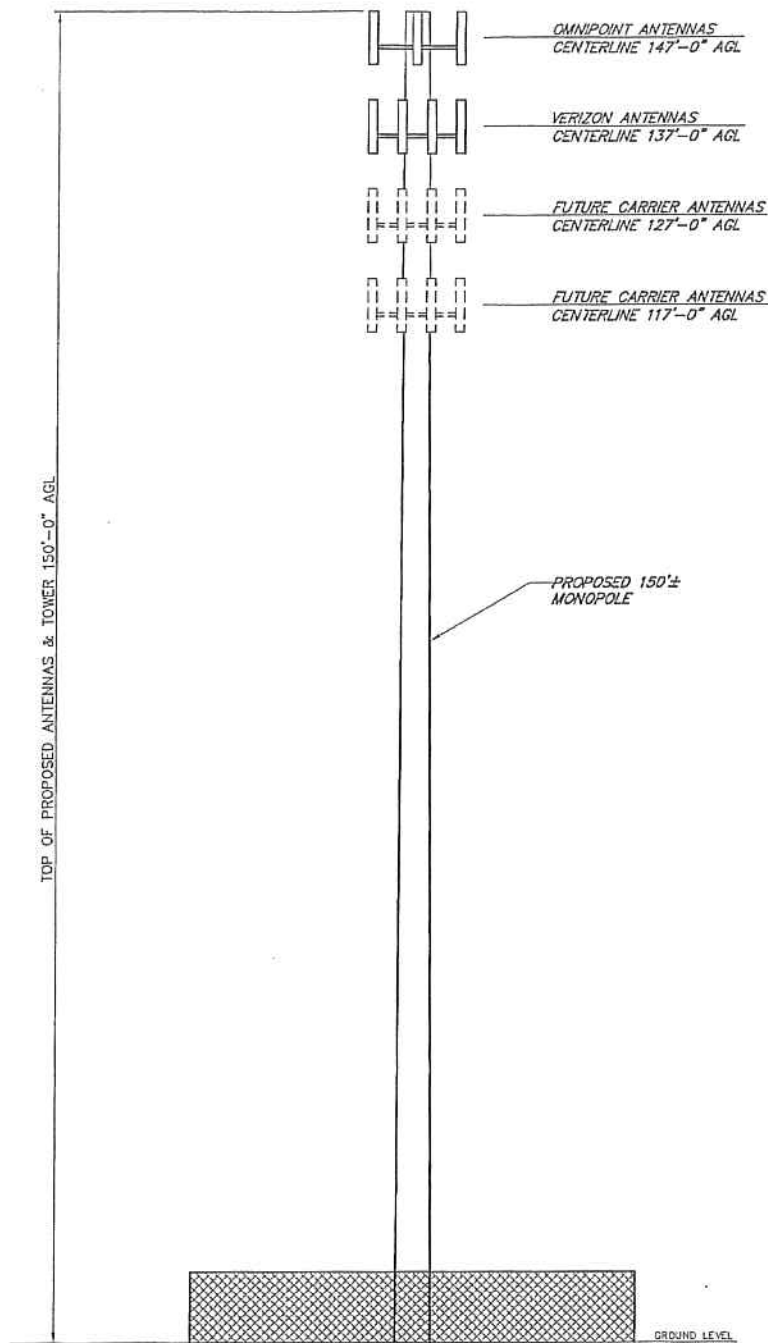
SITE NAME:
THOMPSON

SITE ADDRESS:
RICH ROAD
THOMPSON, CT 06277
WINDHAM COUNTY

SHEET TITLE:
COMPOUND PLAN

DATE:
04/27/07

REVISION:
0



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CHA

CLOUGH HARBOUR & ASSOCIATES LLP
2120 State Street Highway, Suite 212 - Rocky Hill, CT 06067-0236
Male: (860) 357-4157 • www.cloughharbour.com

CHA PROJ. NO. - 14957-1008

MCF Communications, Inc.

733 TURNPIKE STREET, SUITE 105
NORTH ANDOVER, MA 01845
OFFICE: (978) 687-2536
FAX: (978) 258-8850

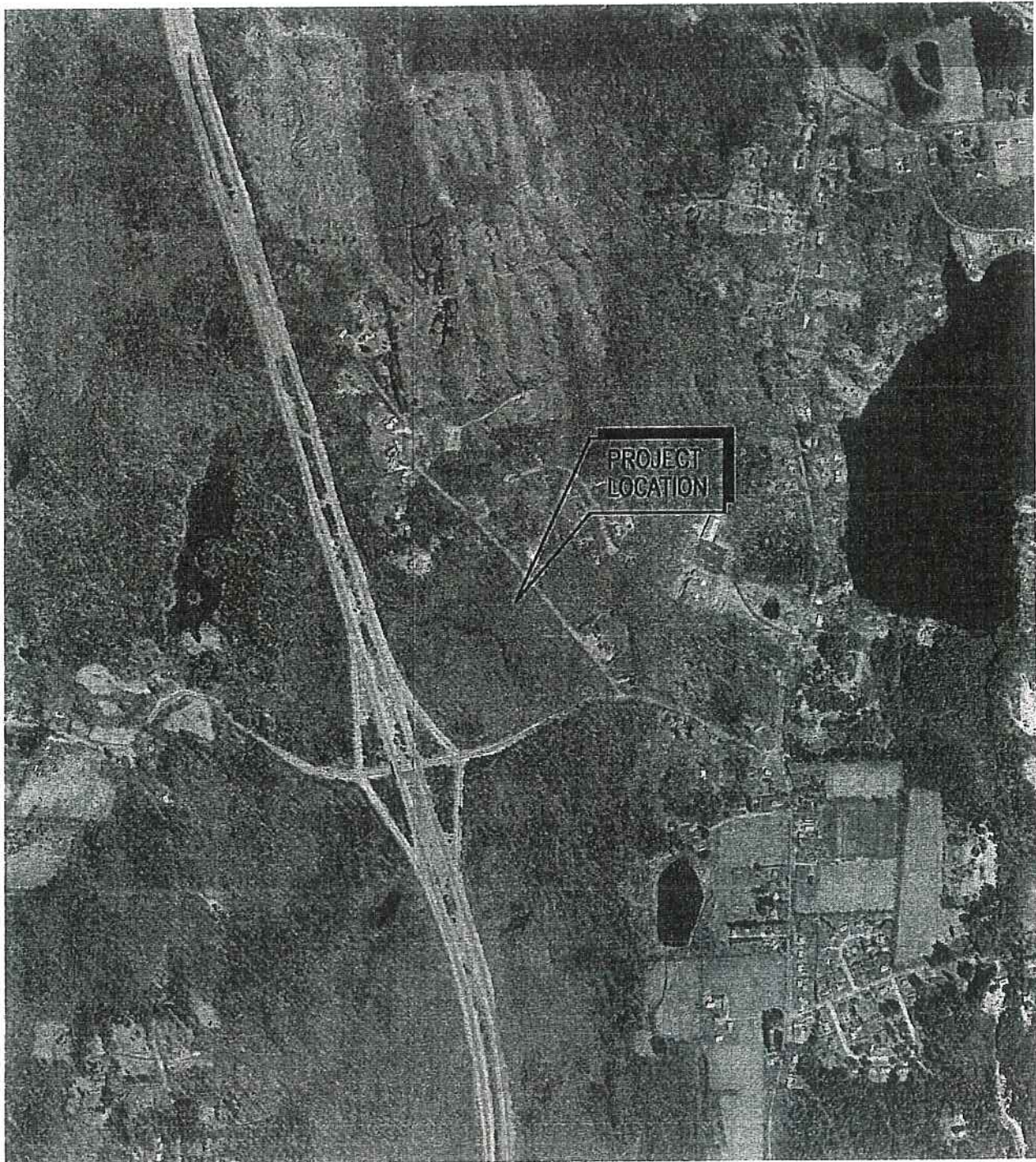
SITE NAME:
THOMPSON

SITE ADDRESS:
**RICH ROAD
THOMPSON, CT 06277
WINDHAM COUNTY**

SHEET TITLE:
TOWER ELEVATION

DATE:
04/27/07

REVISION:
0



1 2004 AERIAL PHOTO
SCALE: 1" = 1000'
0 500 1000
SCALE IN FEET

TRUE NORTH



Drawing Copyright © 2007 Clough Harbour & Associates LLP

CHA

CLOUGH HARBOUR & ASSOCIATES LLP
2125 Glas Deane Highway, Suite 212 - Rocky Hill, CT 06067-2338
Main: (860) 387-4537 • www.cloughharbour.com

CHA PROJ. NO. - 14957-1006

MCF Communications, Inc.

733 TURNPIKE STREET, SUITE 105
NORTH ANDOVER, MA 01845
OFFICE: (978) 687-2536
FAX: (978) 258-8850

SITE NAME:
THOMPSON

SITE ADDRESS:
**RICH ROAD
THOMPSON, CT 06277
WINDHAM COUNTY**

SHEET TITLE:
AERIAL PHOTO

DATE:
04/27/07

REVISION:
0

May 2, 2007

Mr. David Poirier
Connecticut State Historic Preservation Office
Historic Preservation and Museum Division
59 South Prospect Street
Hartford, CT 06106

RE: Section 106 Review – Proposed Monopole Telecommunications Tower
MCF Communications, Inc. – MCF Thompson Site
Rich Road
Thompson, Windham County, Connecticut
Project No. 82852, Task 2.0

Dear Mr. Poirier:

MCF Communications is proposing to construct a 150-foot tall monopole telecommunications tower and associated equipment with a fenced lease area at the above referenced location. In accordance with Section 106 of the National Historic Preservation Act (NHPA), this project is being evaluated to consider its potential effect to districts, sites, buildings, structures, or objects that are listed or are eligible for listing on the National Register of Historic Places (NRHP). Kleinfelder is requesting information regarding the presence of such properties adjacent to the site. Please contact me concerning the results of your search via mail, fax, or telephone.

Thank you for your assistance in this matter. If you require additional information, please feel free to contact me at (860) 683-4200.

Sincerely,

Kleinfelder East, Inc.



Benjamin Rieger
Project Manager

Enclosures



Connecticut Commission on Culture & Tourism

May 21, 2007

Historic Preservation
& Museum Division

59 South Prospect Street
Hartford, Connecticut
06106

(v) 860.566.3005
(f) 860.566.5078

Mr. Benjamin Rieger
Kleinfelder East Inc.
99 Lamberton Road, Suite 201
Windsor, CT 06095

Subject: Telecommunications Facilities
MCF Communications Inc.
Rich Road
Thompson, CT
Project No. 82852

Dear Mr. Rieger:

The State Historic Preservation Office has reviewed the above-named project. This office notes that the project area possesses moderate to high sensitivity for prehistoric and historic archaeological resources. Therefore, we recommend that a professional reconnaissance survey be undertaken to identify and evaluate archaeological resources which may exist within proposed project limits, including, equipment storage and associated work areas. All archaeological studies must be undertaken in accordance with our *Environmental Review Primer for Connecticut's Archaeological Resources*. A list of archaeological consultants is enclosed for your information.

No ground disturbance or construction-related activities should be initiated until this office has had an opportunity to review and comment upon the recommended archaeological survey report.

We anticipate working with all interested parties in the expeditious furtherance of the proposed undertaking as well as in the professional management of Connecticut's archaeological heritage.

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

Sincerely,

Karen Senich
Deputy State Historic Preservation Officer

cc: Dr. Nicholas Bellantoni/OSA



Connecticut Commission on Culture & Tourism

Historic Preservation
& Museum Division

59 South Prospect Street
Hartford, Connecticut
06106

(v) 860 566 3005
(f) 860 566 5078

TO WHOM IT MAY CONCERN

The following archaeologists, as known to us, meet the professional qualification guidelines of the National Park Service:

ACS [Archaeological Consulting Services]

Attn: Dr. Gregory Walwer
10 Stonewall Lane
Guilford, CT 06437-2949
Phone: 203-458-0550
Fax: 203-458-0550

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List of Archaeologists

Page 2

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List of Archaeologists
Page 3

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List of Archaeologists
Page 4

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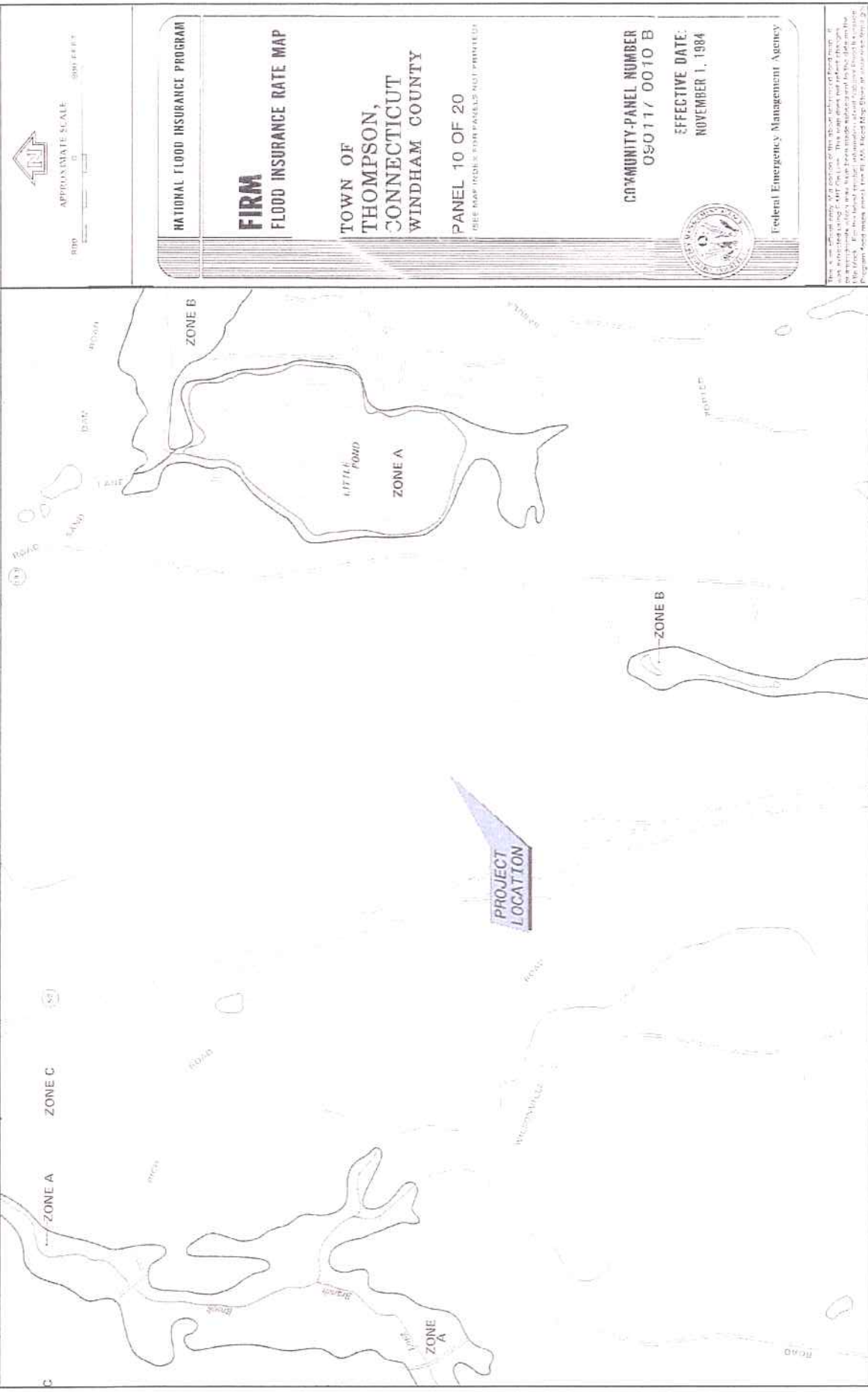
This information updates and supersedes all previous material provided by the State Historic Preservation Office with respect to the identification of archaeological consultants. Further, this list has been arranged alphabetically; no preferential rating or evaluation should be inferred. The State Historic Preservation Office does not recommend, endorse, or assume responsibility for the quality of work for any individual or firm on this list, nor is there any guarantee, implicit or implied, that any work product produced by those on this list will necessarily meet federal and state requirements.

At its discretion, the State Historic Preservation Office may remove consultants from its informational list if no work has been undertaken in Connecticut over a three year period.

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

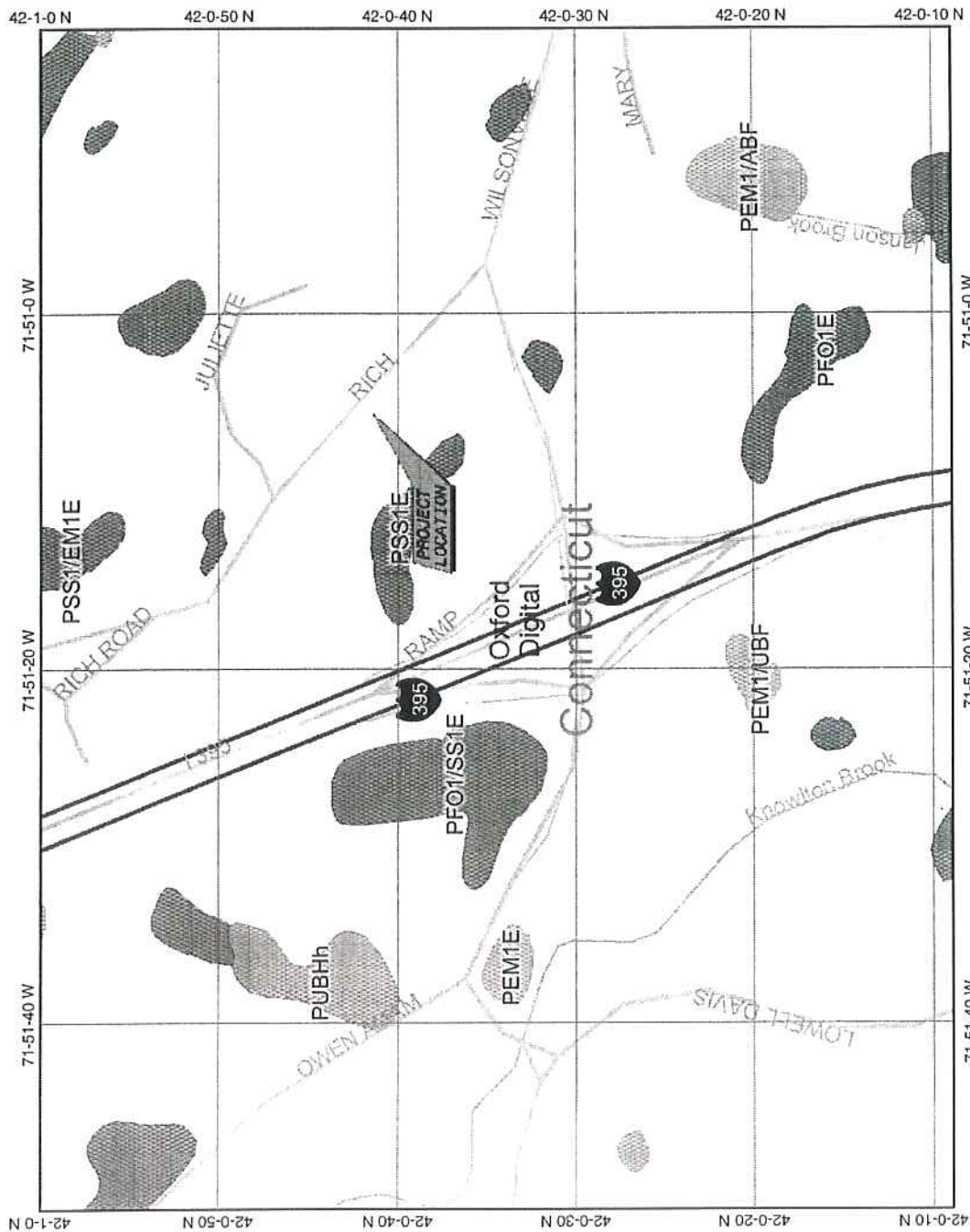
Revised 5/07

Attachment 6



Attachment 7

USFWS NWI Wetlands



Legend

- CONUS_wet_scan
- 0
 - 1
 - Out of range
 - Interstate
 - Major Roads
 - Other Road
 - Interstate
 - State Highway
 - US Highway
 - Roads
 - Cities
 - USGS Quad Index 24K
 - Lower 48 Wetland Polygons
 - Estuarine and Marine Deepwater
 - Estuarine and Marine Wetland
 - Freshwater Emergent Wetland
 - Freshwater Forested/Shrub Wetland
 - Freshwater Pond
 - Lake
 - Other
 - Riverine
 - Lower 48 Available Wetland Data
 - Non-Digital
 - Digital
 - No Data
 - Scan
 - NHD Streams
 - Counties 100K
 - Urban Areas 300K
 - States 100K
 - South America

Scale: 1:14,755

Map center: 42° 0' 34" N, 71° 51' 17" W

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

KLEINFELDER

EXPECT MORE®

April 26, 2007

Mr. Paul Lusitani
Clough Harbour & Associates, LLP.
2139 Silas Deane Highway
Suite 212
Rocky Hill, CT 06067-2336

**RE: Wetland & Watercourse Delineation Report
Rich Road
Thompson, Connecticut**

Dear Mr. Lusitani:

Kleinfelder completed an on-site investigation to determine the presence or absence of wetlands and/or watercourses on the above-referenced property, as requested and authorized. This delineation was completed by a qualified staff soil scientist and conducted in accordance with the principles and practices noted in the United States Department of Agriculture (USDA) *Soil Survey Manual* (1993). The classification system of the National Cooperative Soil Survey was used in this investigation to identify the soil map units identified on the project site.

INVESTIGATION

The project site was investigated on April 17, 2007 temperatures were in the high 30s under overcast conditions with rain showers. There was no snow cover and frost was not observed at any location. Wetland and watercourse boundaries were identified with flags and hung from vegetation. These flags are labeled "Wetland Delineation" and generally spaced a maximum of about 50 feet apart, as well as numbered consecutively. It is important to note that flagged wetland and watercourse boundaries are subject to change until adopted by local, state, or federal regulatory agencies.

REGULATORY INFORMATION

The Inland Wetlands and Watercourses Act (§22a-38 CGS) defines *inland wetlands* as "land, including submerged land...which consists of any soil types designated as poorly drained, very poorly drained, alluvial, and floodplain." Wetland determinations are based on the presence of poorly drained, very poorly drained, alluvial, or floodplain soils and submerged land (e.g. a pond). Soil types are identified by observing soil morphology (soil texture, color, structure, etc.). To observe the morphology of the soils, numerous test pits and/or hand borings (generally to a depth of at least two feet) are completed. *Watercourses* are "rivers, streams, brooks, waterways, lakes, ponds, marshes, swamps, bogs and all other bodies of water, natural or artificial, vernal or intermittent, public or private, which are contained within, flow through or border upon the state or any portion thereof." Intermittent watercourse determinations are made based on the presence of a defined permanent channel and bank, and two of the following characteristics: (1) evidence of scour or deposits of recent alluvium or detritus, (2) the presence of standing or flowing water for a duration longer than a particular storm incident, and (3) the presence of hydrophytic vegetation.

The United States Army Corps of Engineers (ACOE) regulate "Waters of the United States" under Section 404 of the Clean Water Act, which includes adjacent/tributary wetlands and watercourses. The New England Region of the ACOE has issued guidance documents discussing how wetlands and/or watercourses can be as much as 500 or more feet from regulated Waters of the U.S. and still be regulated if the Corps finds scientific indicators (e.g. ecological/biological/hydrological) that provide connections to the jurisdictional wetland. This guidance distance has been developed by the Corps New England Region based on research suggesting home range and migratory distances of 54 palustrine/riparian (wetland and watercourse) reptiles, amphibians and mammals. Discontinuities between jurisdictional Waters of the U.S. and neighboring wetlands can cause isolation of those wetlands

or watercourse, which in turn can eliminate federal jurisdiction. The Corps use a three (3) parameter approach to wetland delineation that includes soils, hydrology and vegetation. It is necessary to successfully observe all three in order for the area to be considered a federal wetland. Disturbed and atypical conditions allow for some modification of this requirement and invoke professional judgment.

WETLAND AND WATERCOURSE SITE DESCRIPTION

Wetland classifications used to identify the type of wetland(s) occurring on the project site is based on the U.S. Fish and Wildlife Service (USFWS) (Cowardin et.al. 1979). These are further qualified with the Hydrogeomorphic Method of wetland classification (Brinson, 1993).

This project site is located along Rich Road southeast of the intersection of Rich Road and Juliette Avenue. The upland ecological community consisted of a mixed mature second-growth deciduous-coniferous forest. One wetland system was identified and delineated at the Site and is presented below.

Wetland 1-This is a palustrine forested - emergent wetland system (USFWS class: PFO1 and PEM1) that was delineated using sequentially numbered flags 1 through 13 with open ends on each end (See Wetland Sketch Map). This wetland area is situated along a ponded area at the base of a large slope immediately adjacent to the west of the proposed tower location. As indicated by its classification, this wetland is along and includes the area within a shallow pond system which is fed by a drainage stream that appears to be connected to another water resource offsite. The wetland consists of the immediate edges of the ponded area, as well as, the ponded area itself. It is most likely that along with the off-site source this wetland is fed by groundwater when the water table is high, as is the case now due to snow melt and the occurrence of a significant rain event on April 16, 2007. The ponded area consisted of approximately for to 12 inches of water across the delineated area. There was a predominance of facultative wet and obligate plants that made up the edges and interiors of the wetland areas.

The edges of this wetland included a tree canopy of red maple (*Acer Rubrum*) with an understory of northern spice bush (*Lindera benzoin*). Within the ponded area highbush blueberry (*Vaccinium corymbosum*), spice bush, silky dogwood (*Cornus amomum*), and tussock sedge (*Carex stricta*) were the dominant species. The upland topography of this area is rolling with many rocky outcrops and a very steep slope to the east of the wetland area. Along the southern portion of the proposed Site location there is a sloping depression area, which at the time of the Site visit did have some standing water and saturated area in the lowest portions; however the soils did not have the characteristics of wetland soils. The upland soils observed were a Charlton-Chatfield complex and Hollis-Chatfield-Rock outcrop complex. The wetland soil types observed were Catden and Freetown soils. All soils observed were a sandy loam.

SOIL TYPES

The following soils were observed on the project site (further information on these and other soils can be found on the internet at <http://soils.usda.gov/technical/classification/osd/index.html>):

Upland Soils

Charlton-Chatfield complex, 3 to 15 percent slopes and 15 to 45 percent slopes, very rocky

Charlton Soils - The Charlton series consists of very deep, well drained loamy soils formed in till. They are nearly level to very steep soils on till plains and hills. Slope ranges from 0 to 50 percent. Saturated hydraulic conductivity is moderately high or high. The diagnostic horizons and features recognized in this pedon include an ochric epipedon in the zone from 0 to 4 inches (Oe & A horizon) and a cambic horizon in the zone from 4 to 27 inches (Bw horizons). The particle-size class of this series is described as coarse-loamy with sizes in the control section from 10 to 40 inches.

Chatfield Soils - The Chatfield series consists of moderately deep, well drained, and somewhat excessively drained soils formed in till. They are nearly level to very steep soils on glaciated plains, hills, and ridges. Slope ranges from 0 to 70 percent. Crystalline bedrock is at depths of 20 to 40 inches. Saturated hydraulic conductivity is moderately high to high in the mineral soil. The diagnostic horizons and features recognized in this pedon are an ochric epipedon in the zone from 1 to 8 inches (A and AB

horizons) and a cambic horizon in the zone from 8 to 25 inches (Bw horizon). Below this horizon is a lithic contact with bedrock at 25 inches (R horizon).

Hollis-Chatfield-Rock outcrop complex, 3 to 15 percent slopes

Hollis Soils - The Hollis series consists of shallow, well drained and somewhat excessively drained soils formed in a thin mantle of till derived mainly from gneiss, schist, and granite. They are nearly level to very steep upland soils on bedrock-controlled hills and ridges. Slope ranges from 0 to 60 percent. Permeability is moderate or moderately rapid. Depth to hard bedrock ranges from 10 to 20 inches. The diagnostic horizons and features recognized in this pedon include ochric epipedon in the zone from 0 to 7 inches (O and A horizons) and a cambic horizon in the zone from 7 to 16 inches (Bw1 and Bw2 horizons). There is a lithic contact which consists of hard bedrock at 16 inches (2R horizon). The soils are generally loamy to coarse-loamy with clay averaging less than 35 percent within the control section from 10 to 16 inches and the soil is in a lithic subgroup. There is also a lithologic discontinuity in that till with rock fragments from mixed sources are overlying a single kind of bedrock at 16 inches.

Chatfield Soils- See above.

Wetland Soils

Catden Soils

The Catden series consists of very deep, very poorly drained soils formed in woody and herbaceous organic materials in depressions on lake plains, outwash plains, moraines, and flood plains. Saturated hydraulic conductivity ranges from moderately low to high. Slope ranges from seen range from 0 to 2 percent. This soil is very mucky with black to very dark brown chromas. The feature that distinguishes this soil is a Sapric material in the zone from the surface to 61 inches (Oa1, Oa2, Oa3, Oa4 and Oa5 horizons).

Freetown Soils

The Freetown series consists of very deep, very poorly drained organic soils formed in more than 51 inches of highly decomposed organic material. They are in depressions or on level areas on uplands and outwash plains. Slope ranges from 0 to 1 percent. Saturated hydraulic conductivity is moderately high or high. This soil is very mucky with black to dark reddish brown chromas. Also, the zone from 30 cm. to 90 cm is comprised dominantly of sapric material within the Oa 4 and Oa5 horizons.

REFERENCES

1. Brinson, M.M. 1993. A Hydrogeomorphic Classification for Wetlands. Tech. Rpt.WRP-DE-4, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.
2. Cowardin, L.M., V. Carter, F.C. Golet, E.T. LaRoe. 1979. Classification of Wetland and Deepwater Habitats of the United States. US Government Printing Office. Washington D.C. GPO 024-010-00524-6.103 pp.

CLOSING

Thank for the opportunity to work with you on this project. Please contact me at (860) 683-4200 if you have any questions or require additional assistance.

Very truly yours,
Kleinfelder



Date: 2007.04.26
16:29:50 -04'00'

Jeffrey R. Shamas, CE, SS, PWS
Environmental Planning Program Manager
Attachments

