STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051
Phone: (860) 827-2935 Fax: (860) 827-2950
E-Mail: siting.council@ct.gov
Internet: ct.gov/csc

Daniel F. Caruso
Chairman

October 24, 2007

Christopher B. Fisher, Esq.
Cuddy & Feder LLP
445 Hamilton Avenue, 14th Floor
White Plains, NY 10601

RE: **EM-MCM-004-070824** – Message Center Management, Inc. notice of intent to modify an existing telecommunications facility located at 81 Montevideo Road, Avon, Connecticut.

Dear Attorney Fisher:

At a public meeting held on October 16, 2007, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies with the condition that Message Center Management, Inc. will flag any trees slated for removal in the field and note the same on the construction drawings to be submitted as part of any building permit application.

The proposed modifications are to be implemented as specified here and in your notice dated August 23, 2007 and additional information dated September 28, 2007, including the placement of all necessary equipment and shelters within the tower compound. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

Thank you for your attention and cooperation.

Very truly yours,

Daniel F. Caruso
For

Daniel F. Caruso
Chairman

DFC/MP/cm

c: The Honorable Richard W. Hines, Chairman Town Council, Town of Avon
Steven V. Kushner, Town Planner, Town of Avon
Hans Fiedler, Message Center Management, Inc.

G:\EM\MCM\Avon\dc101607.DOC

STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL
Ten Franklin Square, New Britain, CT 06051
Phone: (860) 827-2935 Fax: (860) 827-2950
E-Mail: siting.council@ct.gov
Internet: ct.gov/csc

Daniel F. Caruso
Chairman

August 31, 2007

The Honorable Richard W. Hines
Chairman Town Council
Town of Avon
60 West Main Street
Avon, CT 06001-3743

RE: **EM-MCM-004-070824** – Message Center Management, Inc. notice of intent to modify an existing telecommunications facility located at 81 Montevideo Road, Avon, Connecticut.

Dear Mr. Hines:

The Connecticut Siting Council (Council) received this request to modify an existing telecommunications facility, pursuant to Regulations of Connecticut State Agencies Section 16-50j-72.

The Council will consider this item at the next meeting scheduled for September 25, 2007 at 1:30 p.m. in Hearing Room Two, Ten Franklin Square, New Britain, Connecticut.

If you have any questions or comments regarding this proposal, please call me or inform the Council by September 24, 2007.

Thank you for your cooperation and consideration.

Very truly yours,

S. Derek Phelps
Executive Director

SDP/cm

Enclosure: Notice of Intent

c: Steven V. Kushner, Town Planner, Town of Avon

CUDDY & FEDER LLP

445 Hamilton Avenue, 14th Floor
White Plains, New York 10601
Tel 914.761.1300 Fax 914.761.5372
www.cuddyfeder.com

EM-MCM-004-070824

August 23, 2007

BY FEDEX - Priority Overnight

Hon. Daniel F. Caruso, Chairman
and Members of the Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

Re: Message Center Management, Inc.
Notice of Exempt Modification
Replacement Tower
81 Montevideo Road, Avon, Connecticut

Dear Chairman and Members of the Council:

On behalf of Message Center Management, Inc. ("MCM"), enclosed please find its notice of exempt modification with respect to the above referenced matter together with a check in the amount of $500, the filing fee. We respectfully request that this matter be placed on the next Council agenda for acknowledgment. In the interim, should your of the Council's staff have any questions regarding this matter, please do not hesitate to contact us. Thank you.

Very truly yours,

Christopher B. Fisher

Enclosures

cc: Phillip K. Schenck, Avon Town Manager
Steven Kushner, Town Planner
Maria Scotti, MCM
Hans Fiedler, MCM

C&F: 636637.1

CONNECTICUT SITING COUNCIL

NOTICE OF EXEMPT MODIFICATION BY MESSAGE CENTER MANAGEMENT, INC. ("MCM") REGARDING A REPLACEMENT TOWER AT ITS EXISTING FACILITY IN AVON CONNECTICUT

Pursuant to Connecticut General Statutes § 16-50g et. seq., and Section 16-50j-72(b)(3) of the Regulations of Connecticut State Agencies adopted pursuant thereto, Message Center Management, Inc. ("MCM") hereby notifies the Connecticut Siting Council of its intent to modify an existing facility located at 81 Montevideo Road, Avon, Connecticut (the "Avon Facility") by replacing the tower to the same height.

The Existing Avon Tower Facility

The Avon Facility consists of a one hundred fifty (150') foot guyed tower (the "Tower"), building and other improvements located on sizeable parcel of property in the Town of Avon. The Avon Facility is principally used by Omnipoint Communications Inc. ("T-Mobile") and Sprint Spectrum, L.P. ("Sprint") that provide "cellular" services to the public as that term is defined and used in Section 16-50i(a)(6) of the Connecticut General Statutes. The Avon Facility was originally approved by Town of Avon zoning agencies prior to a statewide change in the law in 2001 which subsequently brought it under the Siting Council's jurisdiction.

Reasons for the proposed Tower Replacement

MCM's consulting engineers completed a routine and periodic inspection of the existing Tower in January of 2007, a copy of which is enclosed. As noted therein, the existing tower does not meet current structural standards. As such a recommendation was made to replace the tower along with other interim measures which MCM has since completed. At this time, MCM is proposing to replace the tower to meet current and future structural safety standards.

Replacement Tower

As shown on the enclosed plans prepared by URS Corporation, including a survey, site plan, and tower elevation, MCM proposes replacing the existing 150' guyed tower with a self-support lattice tower maintaining the same height and antenna locations (the "Replacement Tower"). The Replacement Tower will be located immediately adjacent to the existing Tower approximately 15' to the east and will be designed to taper to a uniform tower face for a significant portion of its height above grade. No other antenna or equipment modifications are proposed by MCM.

MCM's Tower Replacement Constitutes An Exempt Modification

The proposed replacement of the existing Tower constitutes an exempt modification of an existing facility as defined in Connecticut General Statutes Section 16-50i(d) and Council regulations promulgated pursuant thereto. Specifically 16-50j-72(b)(3) of the Council's regulations provides that, among other exempt modifications, included is a:

> Replacement of an existing CATV tower or telecommunications tower and associated equipment with a tower that is no taller than the tower to be replaced....

Here the Replacement Tower is the same height as the existing Tower and as such the modification is exempt from the requirement for any further processing or approvals.

MCM's Discussions with Town Planning Officials

We note that representatives of MCM have discussed this project with Town of Avon Planning Officials regarding the structural issues and different tower replacement options. As part of those discussions MCM noted for the Town that a replacement guyed tower would require substantial tree clearing at the Avon Facility site. In lieu of same, MCM has elected to replace the tower with a self support structure which will continue to accommodate users of the site and have a minimal impact on tree clearing. For reference purposes, we have also included photosimulations of the existing Tower and proposed Replacement Tower.

Conclusion

MCM requests that the Connecticut Siting Council acknowledge that its proposed Replacement Tower at the Avon Facility meets the Council's exemption criteria specified in Section 16-72(b)(3) of its regulations. We note that no other land use or zoning approvals are required for the project pursuant to Section 16-50x of the Connecticut General Statutes. As such, upon receipt of the Council's acknowledgment, MCM intends to procure signed/sealed tower drawings from the manufacturer of the Replacement Tower and file for a building permit from the Town of Avon.

Respectfully Submitted,

Christopher B. Fisher, Esq.
On behalf of MCM

cc: Phillip K. Schenck, Avon Town Manager
Steven Kushner, Town Planner
Maria Scotti, MCM
Hans Fiedler, MCM

TECTONIC
Practical Solutions, Exceptional Service

CORPORATE OFFICE:
Mountainville, NY (800) 829-6531

TECTONIC Engineering & Surveying Consultants P.C.
955 Little Britain Road
New Windsor, NY 12553

(845) 567-6656 FAX: (845) 567-8703
www.tectonicengineering.com

Virginia King
Message Center Management
40 Woodland Street
Hartford, CT 06105

January 30, 2007

RE: W.O. 3997.07
AVON TOWER UPGRADE
81 MONTEVIDEO ROAD
AVON, CT
ANALYSIS RESULTS AND RECOMMENDATIONS

Dear Virginia:

As requested, Tectonic Engineering & Surveying Consultants P.C. has completed an inspection and detailed structural analysis of the existing 150' guyed tower at the above referenced site. The overall configuration of the tower is shown in Figure 1, attached.

The tower was inspected by representatives of Tectonic on 11/28/06. Based on our inspection, there are several items of concern with respect to the physical condition of the tower, as follows:

- Significant external corrosion of the tower mast, especially between the 100' and 130' levels.
- Considering the age of the tower and the use of light gauge steel tubing for the tower legs, we anticipate that internal corrosion may be present. Due to the thin walls of the tubing, even moderate corrosion can significantly reduce the structural capacity of the tower legs.
- The bracing members are very small diameter steel rods. Several are bent, which reduces their effectiveness.
- Some of the leg splice bolts are significantly corroded.
- The guys are small diameter and are generally not sufficiently taut.
- The antenna mounts at the 108' level are heavily corroded.
- Numerous existing cables are inadequately secured, and they are not efficiently bundled to minimize wind loading.

This analysis was performed using Revision G of the TIA-222 standard, as previously discussed. We find that the structure is significantly overloaded in its existing condition, despite the fact that the tower was assumed to be in "like-new" condition for the purpose

of the analysis. In other words, the capacities of the tower members and guys were not adjusted (i.e. reduced) to reflect their actual condition.

As a result of our analysis, we find that:

1. The existing tower is unable to withstand the required wind loading of 95 mph (3-second gust) with no ice accumulation.
2. The maximum wind speed that the tower can safely withstand is less than 60 mph.
3. The existing tower cannot support the required ice loading, even with no wind load acting on it at all.

The primary reasons for the large degree of overstress are:

a. The small size and limited capacity of the leg and bracing members, as well as the guys.
b. The inclusion of a topographic factor based on the site location, as required by TIA-222-G.
c. The larger ice thickness required by TIA-222-G, compared to the previous version of the standard.

We note that previous Structural Analysis reports by Tectonic and at least two (2) other firms show that there were problems related to the capacity of the tower under Revision F of the TIA-222 standard.

Since no information on the existing tower foundation and guy anchors was available, we could not assess their actual capacities. Based on the large overstress in the tower mast and guys, we anticipate that the existing foundations may not have sufficient capacity to resist the required loads.

The tower will need to be upgraded to satisfy the current code requirements, and to provide capacity for modified antenna configurations in the future. Reinforcement is expected to involve the installation of heavy external bracing in approximately the lower half of the tower, and replacing the guys at several levels with larger size guy wires and matching hardware. It will also involve modifications to the tower base foundation and all guy anchors.

Although upgrading the tower to meet these requirements may be technically feasible, it may be as costly and disruptive as the construction of a new replacement tower.

We recommend the installation of a new, sturdier tower on a new foundation, and relocation of all existing antennas thereto, as a better alternative. We understand that

replacement of the structure does bring up other issues, but it will probably be more economical in the long run.

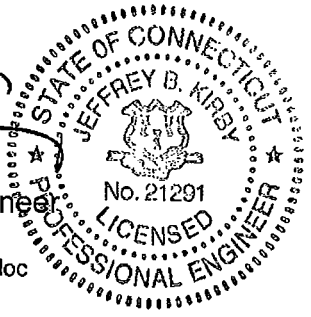
Anticipating that the processes for approval, procurement, and installation of a replacement tower may take a substantial amount of time, we recommend that the following corrective actions be taken as soon as possible:

1. Retension all of the guys to be between 8% and 10% of their breaking strength.
2. Clean and repaint the deteriorated portions of the tower to minimize further corrosion.
3. Bundle and securely fasten the cables to the tower legs or faces.
4. Perform a simple visual inspection of the structure after any severe wind or ice storm, to verify that no damage has occurred.

In closing, we foresee no problem with removing the two (2) existing T-Mobile panel antennas that are mounted at the 138' level, and reinstalling one (1) panel antenna at a lower elevation, as suggested.

Please contact me if there are any questions on the above.

Sincerely,
TECTONIC



Jeffrey B. Kirby, P.E.
Chief Structural Engineer

file AvonTowerUpgradeLtr.doc

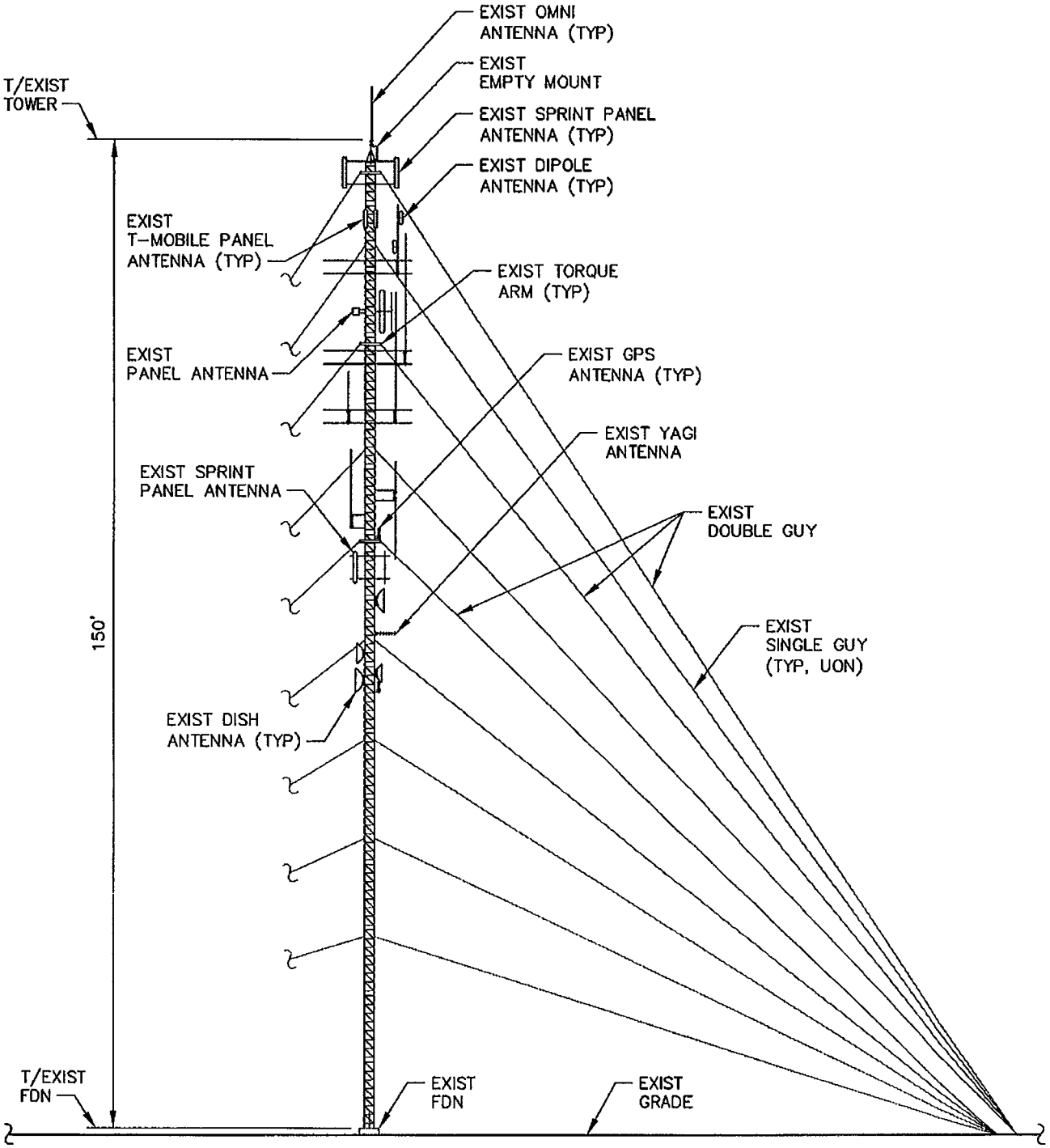
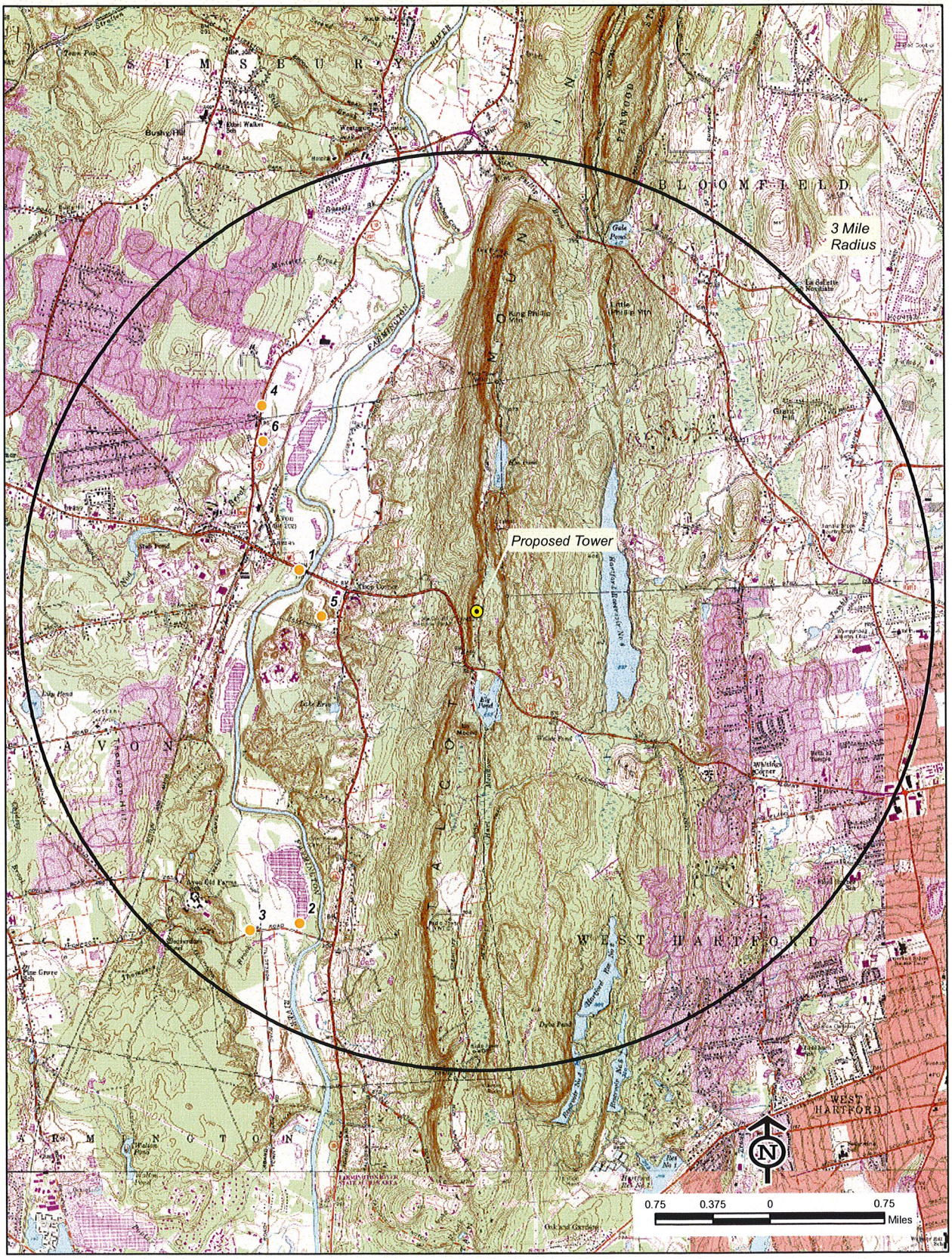


FIGURE 1

W.O. 3997.07
AVON, CT

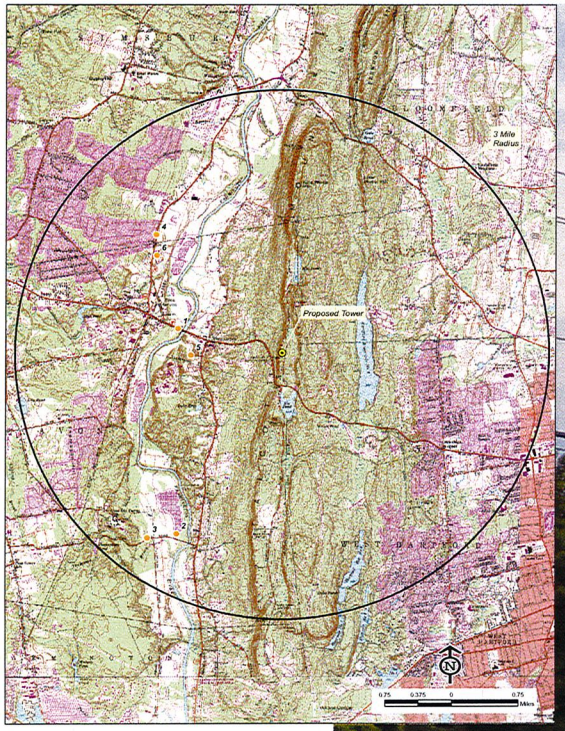
Photolog Documentation

Town of Avon
Connecticut



Photographic Documentation and Simulation *View 1*

Town of
Avon
Connecticut



81 Montevideo Road
Avon, CT

Lattice Tower installation

PHOTO TAKEN ADJACENT FROM CITGO PLAZA ON ROUTE 44, LOOKING EAST

DISTANCE FROM THE PHOTOGRAPH LOCATION TO THE PROPOSED SITE IS +/- 1.19 MILES

VHB Vanasse Hangen Brustlin, Inc.

Photographic Documentation and Simulation *View 2*

Town of
Avon
Connecticut

81 Montevideo Road
Avon, CT

Lattice Tower installation

PHOTO TAKEN FROM FISHER MEADOWS RECREATION AREA OFF OF THOMPSON ROAD, LOOKING NORTHEAST SITE TOWER IS NOT VISIBLE

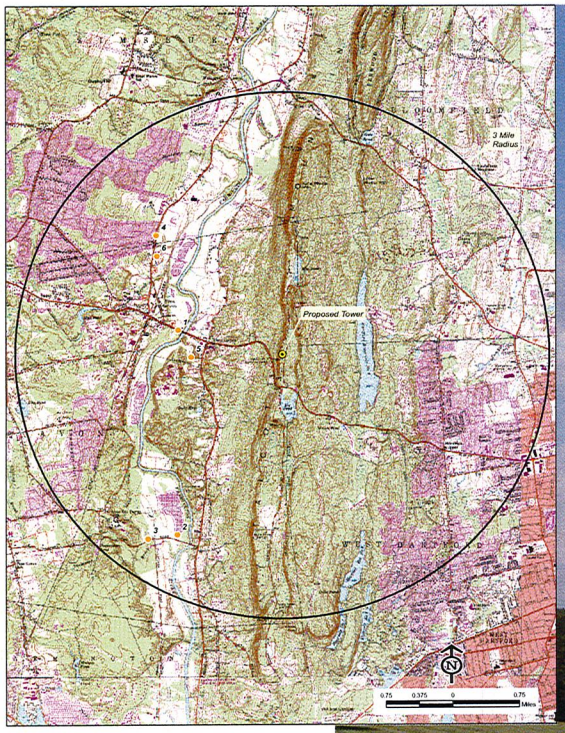
DISTANCE FROM THE PHOTOGRAPH LOCATION TO THE PROPOSED SITE IS +/- 2.35 MILES

VHB Vanasse Hangen Brustlin, Inc.

ctmiddat\proj\41350.0\graphics\figures\41350.00_sims.indd

Photographic Documentation and Simulation *View 3*

Town of
Avon
Connecticut



81 Montevideo Road
Avon, CT

Lattice Tower installation

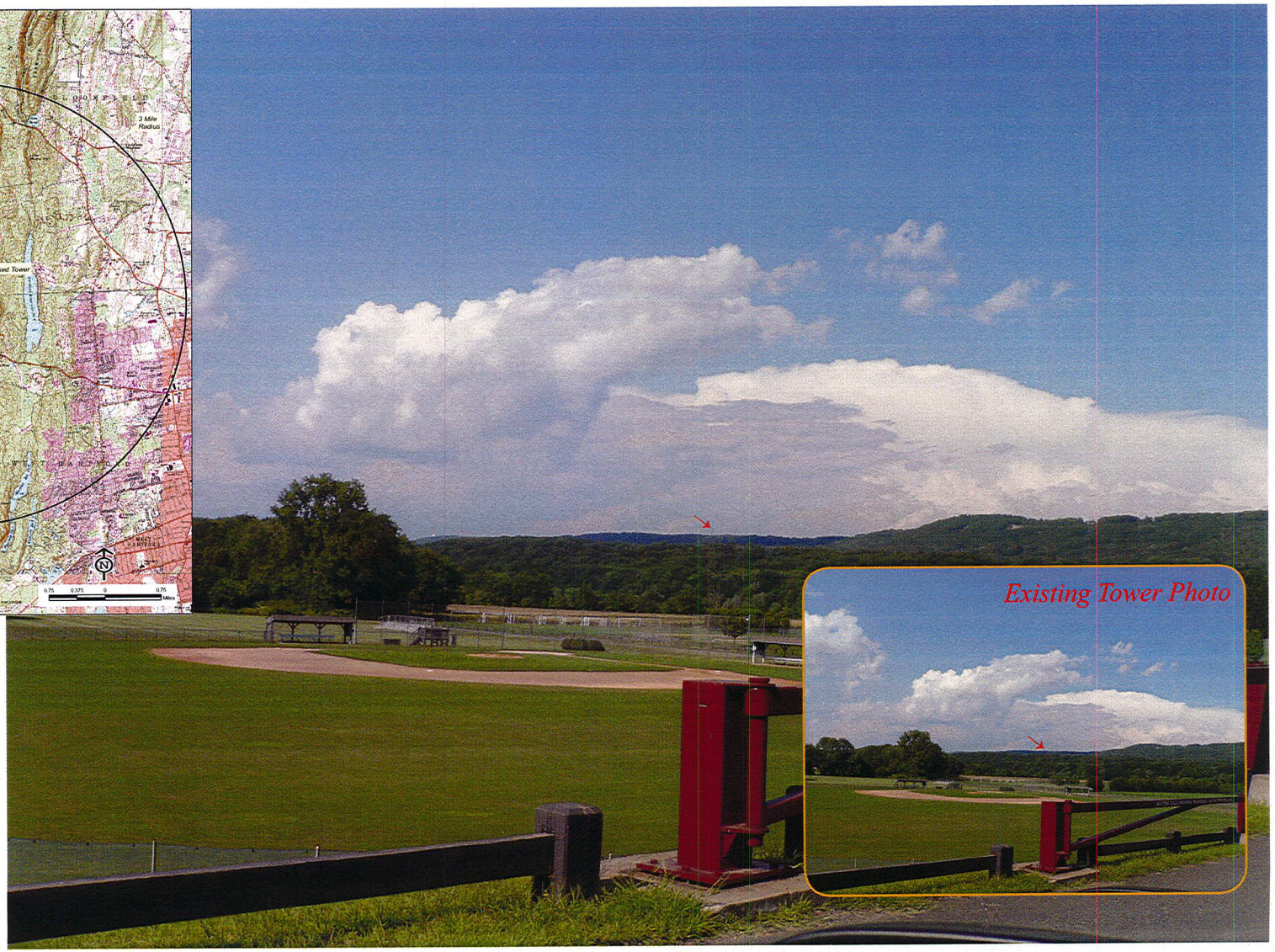


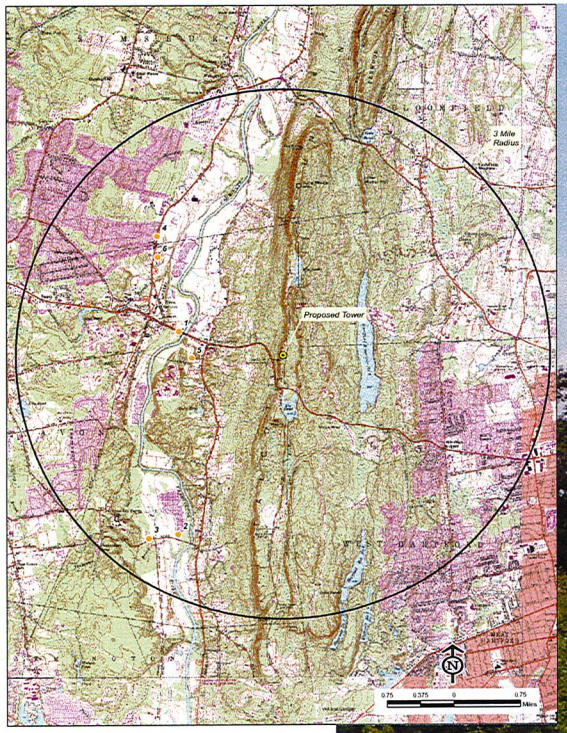
PHOTO TAKEN FROM AVON OLD FARMS SCHOOL ATHLETIC FIELDS (OVERLOOKING FISHER MEADOWS), LOOKING NORTHEAST

DISTANCE FROM THE PHOTOGRAPH LOCATION TO THE PROPOSED SITE IS +/- 2.56 MILES

VHB Vanasse Hangen Brustlin, Inc.

Photographic Documentation and Simulation *View 4*

Town of
Avon
Connecticut



81 Montevideo Road
Avon, CT

Lattice Tower installation

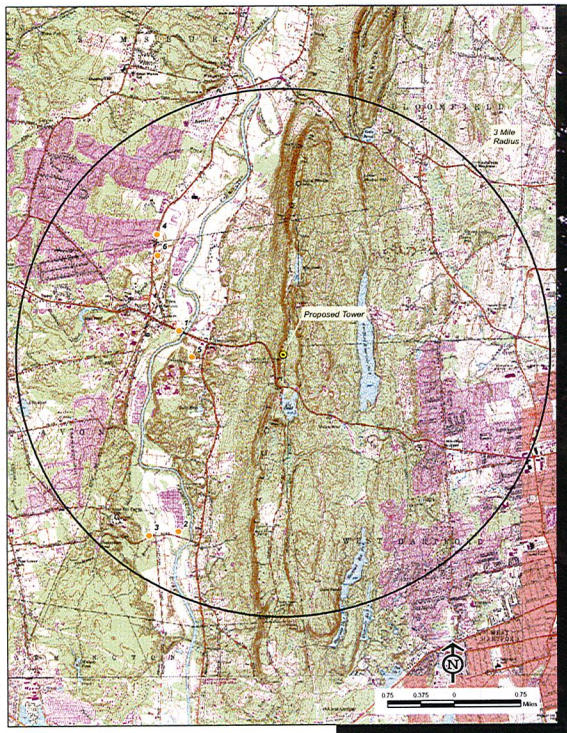
PHOTO TAKEN FROM HOUSE #13 ON ROUTE 202, LOOKING SOUTHEAST

DISTANCE FROM THE PHOTOGRAPH LOCATION TO THE PROPOSED SITE IS +/- 1.95 MILES

VHB Vanasse Hangen Brustlin, Inc.

Photographic Documentation and Simulation *View 5*

Town of
Avon
Connecticut



81 Montevideo Road
Avon, CT

Lattice Tower installation

PHOTO TAKEN FROM HOUSE #1-12 ON RIVER MEAD ROAD, LOOKING EAST

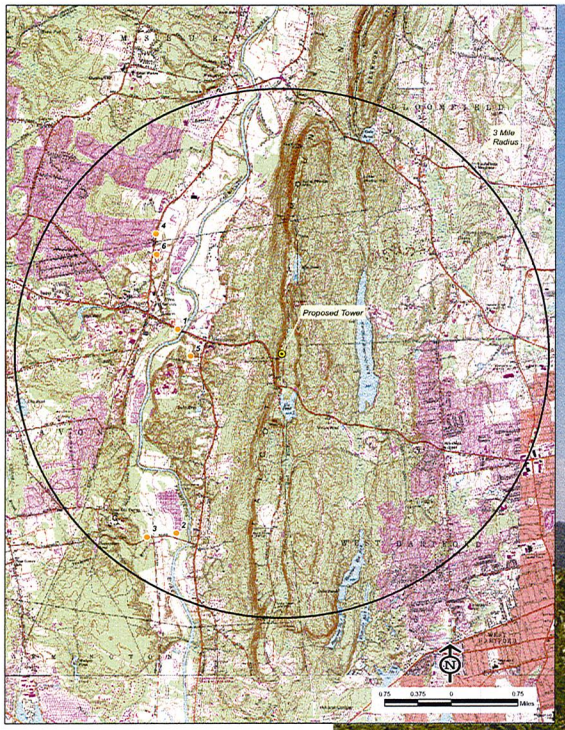
DISTANCE FROM THE PHOTOGRAPH LOCATION TO THE PROPOSED SITE IS +/- 1.02 MILES

VHB Vanasse Hangen Brustlin, Inc.

ctmiddlat\proj\41350.0\graphics\figures\41350.00_sims.indd

Photographic Documentation and Simulation *View 6*

Town of
Avon
Connecticut



81 Montevideo Road
Avon, CT

Lattice Tower installation

PHOTO TAKEN FROM RIVERDALE PLAZA ON ROUTE 202, LOOKING SOUTHEAST

DISTANCE FROM THE PHOTOGRAPH LOCATION TO THE PROPOSED SITE IS +/- 1.79 MILES

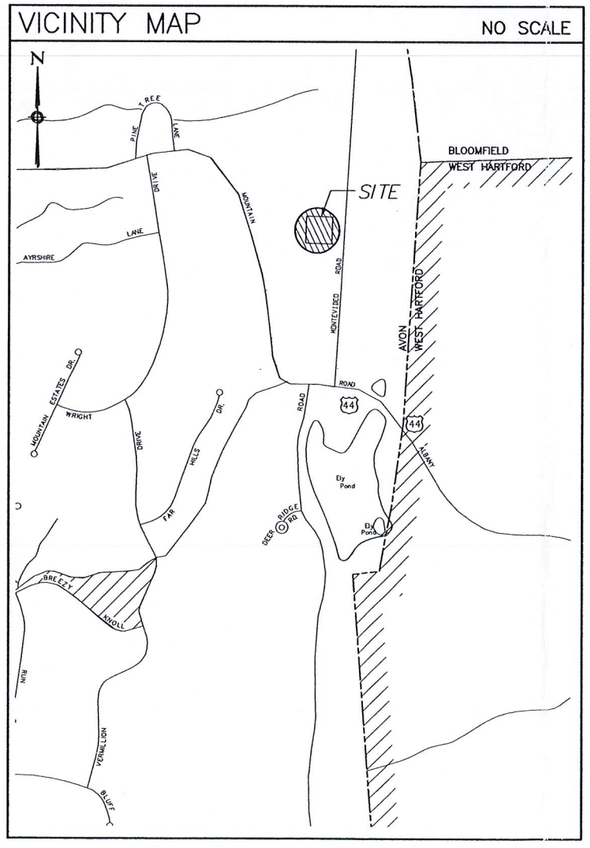
Vanasse Hangen Brustlin, Inc.

MESSAGE CENTER MANAGEMENT

AVON TOWER REPLACEMENT

81 MONTEVIDEO ROAD
AVON, CONNECTICUT

VICINITY MAP — NO SCALE



PROJECT SUMMARY

SITE NAME:	AVON
SITE ADDRESS:	81 MONTEVIDEO ROAD AVON, CONNECTICUT
CONTACT PERSON:	MESSAGE CENTER MANAGEMENT VIRGINIA KING (860) 727-5790
GOVERNING CODE:	CONNECTICUT STATE BUILDING AND LIFE SAFETY CODE
APPLICANT:	MESSAGE CENTER MANAGEMENT 40 WOODLAND STREET HARTFORD, CONNECTICUT 06105
ARCHITECT:	URS CORPORATION AES 500 ENTERPRISE DRIVE ROCKY HILL, CT 06067
M/E/P ENGINEER:	URS CORPORATION AES 500 ENTERPRISE DRIVE ROCKY HILL, CT 06067
SURVEYOR:	URS CORPORATION A.E.S. 500 ENTERPRISE DRIVE, SUITE 38 ROCKY HILL, CT 06067
GEODETIC COORDINATES:	LATITUDE: 41°-48'-11.00" LONGITUDE: 72°-48'-4.95" NAD 83
GROUND ELEVATION:	ELEVATION 747 NGVD 29

LEGEND

SYMBOL	DESCRIPTION
	SECTION OR DETAIL NUMBER SHEET WHERE DETAIL/SECTION OCCURS
1	ELEVATION NUMBER SHEET WHERE ELEVATION OCCURS

ABBREVIATIONS

MIN.	MINIMUM
V.I.F.	VERIFY IN FIELD
O.C.	ON CENTER
PSF	POUND/SQUARE FOOT
TYP.	TYPICAL
FT.	FEET
SQ.FT.	SQUARE FEET
N/A	NOT APPLICABLE

SHEET INDEX

MESSAGE CENTER MANAGEMENT
40 WOODLAND STREET
HARTFORD, CONNECTICUT
06105

A&E FIRM
URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CONNECTICUT
1-(860)-529-8882

A&E SEAL
STATE OF CONNECTICUT
IGNACIO C. ARTIGAS
No. 8704
LICENSED ARCHITECT

PROJECT NO: 36924843
JOB NO: MCM 007
DRAWN BY: RRH
CHECKED BY:

ISSUED FOR

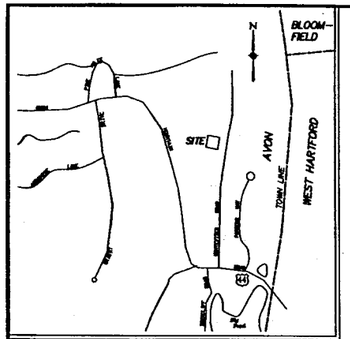
0	08/08/07	REVIEW
1	08/10/07	FINAL

AVON
81 MONTEVIDEO ROAD
AVON, CONNECTICUT

SCALE: NONE

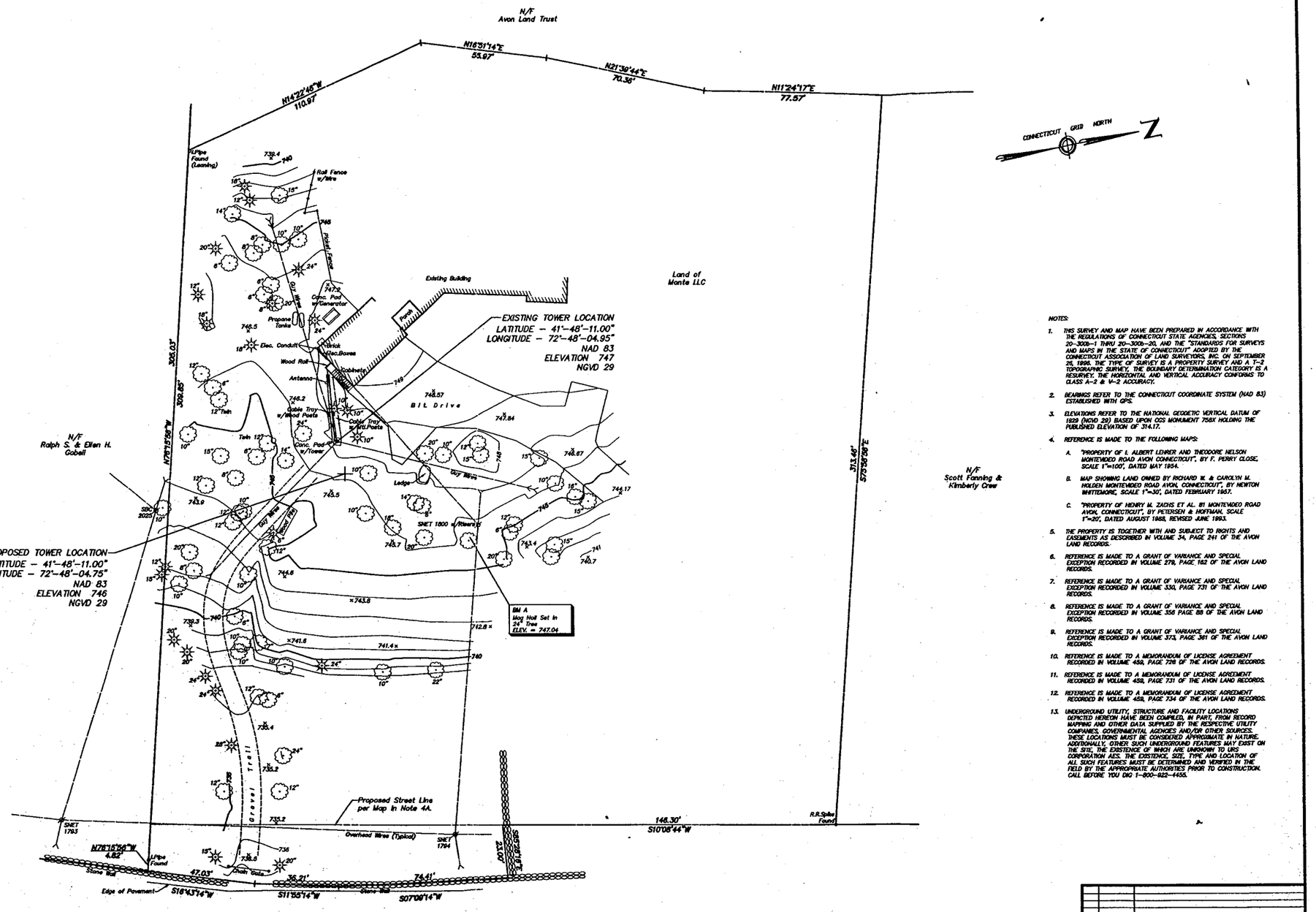
TITLE SHEET-
GENERAL NOTES
AND LEGENDS

T-1



LEGEND

Bush		Mailbox	
Catch Basin		Manhole	
Coniferous Tree		Parking Meter	
Deciduous Tree		Sign	
Gas Gate		Utility Pole	
Hydrant		Water Gate	
Light Pole			



NOTES:

1. THIS SURVEY AND MAP HAVE BEEN PREPARED IN ACCORDANCE WITH THE REGULATIONS OF CONNECTICUT STATE AGENCIES, SECTIONS 20-300b-1 THRU 20-300b-20, AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996. THE TYPE OF SURVEY IS A PROPERTY SURVEY AND A T-2 TOPOGRAPHIC SURVEY. THE BOUNDARY DETERMINATION CATEGORY IS A RESURVEY. THE HORIZONTAL AND VERTICAL ACCURACY CONFORMS TO CLASS A-2 & V-2 ACCURACY.
2. BEARINGS REFER TO THE CONNECTICUT COORDINATE SYSTEM (NAD 83) ESTABLISHED WITH GPS.
3. ELEVATIONS REFER TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29) BASED UPON CGS MONUMENT 758X HOLDING THE PUBLISHED ELEVATION OF 314.17.
4. REFERENCE IS MADE TO THE FOLLOWING MAPS:
   A. "PROPERTY OF L. ALBERT LEHRER AND THEODORE NELSON MONTEVIDEO ROAD AVON CONNECTICUT", BY F. PERRY CLOSE, SCALE 1"=100', DATED MAY 1954.
   B. MAP SHOWING LAND OWNED BY RICHARD W. & CAROLYN M. HOLDEN MONTEVIDEO ROAD AVON, CONNECTICUT, BY NEWTON WHITTEMORE, SCALE 1"=30', DATED FEBRUARY 1957.
   C. "PROPERTY OF HENRY M. ZACHS ET AL. 81 MONTEVIDEO ROAD AVON, CONNECTICUT", BY PETERSEN & HOFFMAN, SCALE 1"=20', DATED AUGUST 1988, REVISED JUNE 1993.
5. THE PROPERTY IS TOGETHER WITH AND SUBJECT TO RIGHTS AND EASEMENTS AS DESCRIBED IN VOLUME 34, PAGE 241 OF THE AVON LAND RECORDS.
6. REFERENCE IS MADE TO A GRANT OF VARIANCE AND SPECIAL EXCEPTION RECORDED IN VOLUME 278, PAGE 162 OF THE AVON LAND RECORDS.
7. REFERENCE IS MADE TO A GRANT OF VARIANCE AND SPECIAL EXCEPTION RECORDED IN VOLUME 330, PAGE 731 OF THE AVON LAND RECORDS.
8. REFERENCE IS MADE TO A GRANT OF VARIANCE AND SPECIAL EXCEPTION RECORDED IN VOLUME 356 PAGE 88 OF THE AVON LAND RECORDS.
9. REFERENCE IS MADE TO A GRANT OF VARIANCE AND SPECIAL EXCEPTION RECORDED IN VOLUME 373, PAGE 361 OF THE AVON LAND RECORDS.
10. REFERENCE IS MADE TO A MEMORANDUM OF LICENSE AGREEMENT RECORDED IN VOLUME 458, PAGE 728 OF THE AVON LAND RECORDS.
11. REFERENCE IS MADE TO A MEMORANDUM OF LICENSE AGREEMENT RECORDED IN VOLUME 458, PAGE 731 OF THE AVON LAND RECORDS.
12. REFERENCE IS MADE TO A MEMORANDUM OF LICENSE AGREEMENT RECORDED IN VOLUME 458, PAGE 734 OF THE AVON LAND RECORDS.
13. UNDERGROUND UTILITY, STRUCTURE AND FACILITY LOCATIONS DEPICTED HEREON HAVE BEEN COMPILED, IN PART, FROM RECORD MAPPING AND OTHER DATA SUPPLIED BY THE RESPECTIVE UTILITY COMPANIES, GOVERNMENTAL AGENCIES AND/OR OTHER SOURCES. THESE LOCATIONS MUST BE CONSIDERED APPROXIMATE IN NATURE. ADDITIONALLY, OTHER SUCH UNDERGROUND FEATURES MAY EXIST ON THE SITE, THE EXISTENCE OF WHICH ARE UNKNOWN TO URS CORPORATION AES. THE EXISTENCE, SIZE, TYPE AND LOCATION OF ALL SUCH FEATURES MUST BE DETERMINED AND VERIFIED IN THE FIELD BY THE APPROPRIATE AUTHORITIES PRIOR TO CONSTRUCTION. CALL BEFORE YOU DIG 1-800-922-4455.

PROPERTY & TOPOGRAPHIC SURVEY
LAND OF
MONTE LLC
81 MONTEVIDEO ROAD
AVON, CONNECTICUT
PREPARED FOR
MESSAGE CENTER MANAGEMENT, INC.

S:\SURVEY\ACTIVE\36924843\DWG\36924843.DWG

No.	Date	Revision description
1	8-10-07	Proposed Tower Location Added

TO MY KNOWLEDGE AND BELIEF THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON

MICHAEL G. WILMES, L.S. LICENSE NO. 14206

TRUE AND VALID COPIES OF THIS MAP OR PLAN MUST BEAR THE ORIGINAL SIGNATURE AND EMBOSSED SEAL OF THE ABOVE NAMED LAND SURVEYOR. UNAUTHORIZED REPRODUCTION OR ALTERATION IS FORBIDDEN.

Embossed seal

Surveyed and Mapping by:
URS Corporation AES
500 Enterprise Drive, Suite 3B
Rocky Hill, Connecticut 06067-4002
Tel. (860) 529-8882

Scale: 1" = 20'
Date: APRIL 2007

Field book #	Crew Chief	Project #
1659-52	M.TORRENT	36924843
Search #	Drawn by	Checked by	Map file #
4205	KC	MJW	T155-3

SEDIMENTATION CONTROL FENCE SPECIFICATIONS

MAINTENANCE

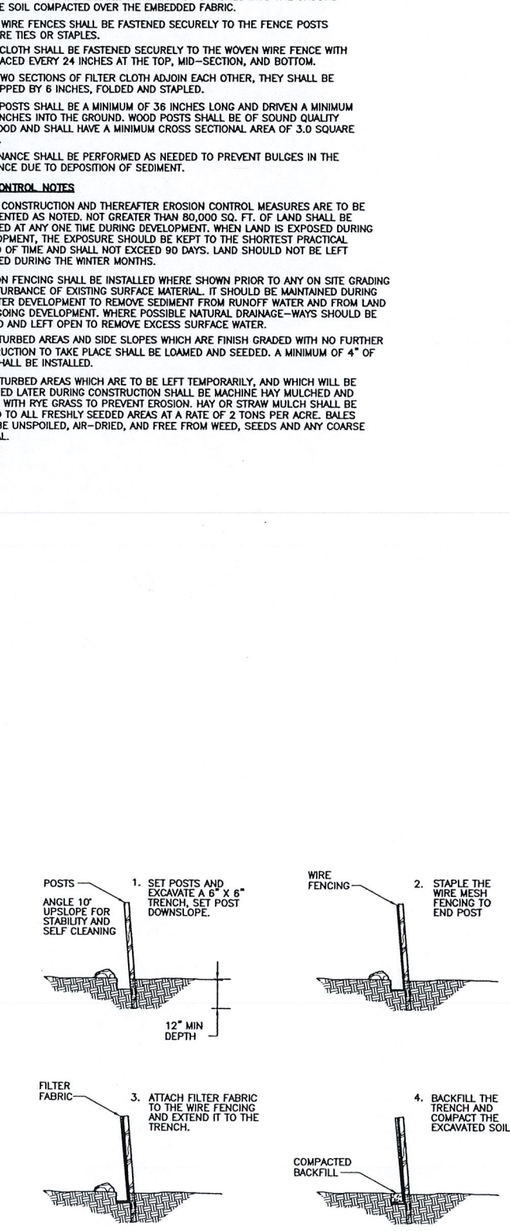
1. SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE MADE IMMEDIATELY.
2. IF THE FABRIC ON A SILT FENCE SHOULD DECOMPOSE OR BECOME INEFFECTIVE DURING THE EXPECTED LIFE OF THE FENCE, THE FABRIC SHALL BE REPLACED PROMPTLY.
3. SEDIMENT DEPOSITS SHOULD BE INSPECTED AFTER EVERY STORM EVENT, THE DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
4. SEDIMENT DEPOSITS THAT ARE REMOVED OR LEFT IN PLACE AFTER THE FABRIC HAS BEEN REMOVED SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATION.

CONSTRUCTION SEQUENCE

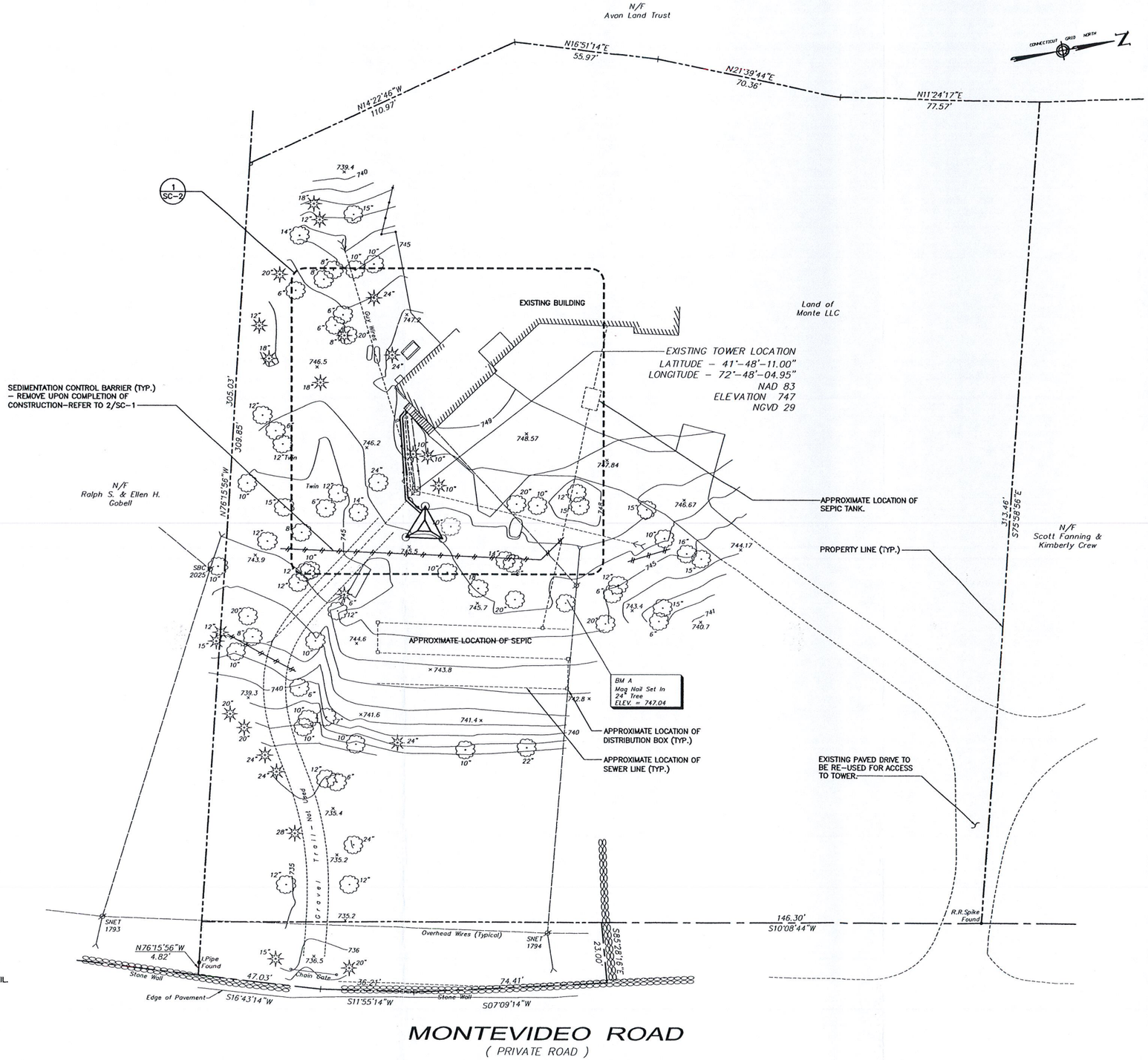
1. THE GEOTEXTILE FABRIC SHALL MEET THE DESIGN CRITERIA FOR SILT FENCES
2. THE FABRIC SHALL BE EMBEDDED A MINIMUM OF 8 INCHES INTO THE GROUND AND THE SOIL COMPACTED OVER THE EMBEDDED FABRIC.
3. WOVEN WIRE FENCES SHALL BE FASTENED SECURELY TO THE FENCE POSTS WITH WIRE TIES OR STAPLES.
4. FILTER CLOTH SHALL BE FASTENED SECURELY TO THE WOVEN WIRE FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP, MID-SECTION, AND BOTTOM.
5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES, FOLDED AND STAPLED.
6. FENCE POSTS SHALL BE A MINIMUM OF 36 INCHES LONG AND DRIVEN A MINIMUM OF 16 INCHES INTO THE GROUND. WOOD POSTS SHALL BE OF SOUND QUALITY HARDWOOD AND SHALL HAVE A MINIMUM CROSS SECTIONAL AREA OF 3.0 SQUARE INCHES.
7. MAINTENANCE SHALL BE PERFORMED AS NEEDED TO PREVENT BULGES IN THE SILT FENCE DUE TO DEPOSITION OF SEDIMENT.

EROSION CONTROL NOTES

1. DURING CONSTRUCTION AND THEREAFTER EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED AS NOTED. NOT GREATER THAN 80,000 SQ. FT. OF LAND SHALL BE EXPOSED AT ANY ONE TIME DURING DEVELOPMENT. WHEN LAND IS EXPOSED DURING DEVELOPMENT, THE EXPOSURE SHOULD BE KEPT TO THE SHORTEST PRACTICAL PERIOD OF TIME AND SHALL NOT EXCEED 90 DAYS. LAND SHOULD NOT BE LEFT EXPOSED DURING THE WINTER MONTHS.
2. SILTATION FENCING SHALL BE INSTALLED WHERE SHOWN PRIOR TO ANY ON SITE GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL. IT SHOULD BE MAINTAINED DURING AND AFTER DEVELOPMENT TO REMOVE SEDIMENT FROM RUNOFF WATER AND FROM LAND UNDERGOING DEVELOPMENT. WHERE POSSIBLE NATURAL DRAINAGE-WAYS SHOULD BE UTILIZED AND LEFT OPEN TO REMOVE EXCESS SURFACE WATER.
3. ALL DISTURBED AREAS AND SIDE SLOPES WHICH ARE FINISH GRADED WITH NO FURTHER CONSTRUCTION TO TAKE PLACE SHALL BE LOAMED AND SEEDED. A MINIMUM OF 4" OF LOAM SHALL BE INSTALLED.
4. ANY DISTURBED AREAS WHICH ARE TO BE LEFT TEMPORARILY, AND WHICH WILL BE REGRADED LATER DURING CONSTRUCTION SHALL BE MACHINE HAY MULCHED AND SEEDED WITH RYE GRASS TO PREVENT EROSION. HAY OR STRAW MULCH SHALL BE APPLIED TO ALL FRESHLY SEEDED AREAS AT A RATE OF 2 TONS PER ACRE. BALES SHALL BE UNSPOILED, AIR-DRIED, AND FREE FROM WEED, SEEDS AND ANY COARSE MATERIAL.



2 / SC-2 SEDIMENTATION CONTROL BARRIER - SILT FENCE
SCALE: N.T.S.



1 / SC-1 SITE PLAN
SCALE: 1" = 20'-0"
0 10 20 40

MESSAGE CENTER MANAGEMENT
40 WOODLAND STREET
HARTFORD, CONNECTICUT
06105

A&E FIRM
URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CONNECTICUT
1-(860)-529-8882

STATE OF CONNECTICUT
IGNACIO C. ARTIGAS
No. 8704
LICENSED ARCHITECT

PROJECT NO: 36924843
JOB NO: MCM 007
DRAWN BY: RRH
CHECKED BY:

ISSUED FOR

0	08/08/07	REVIEW
1	08/10/07	FINAL

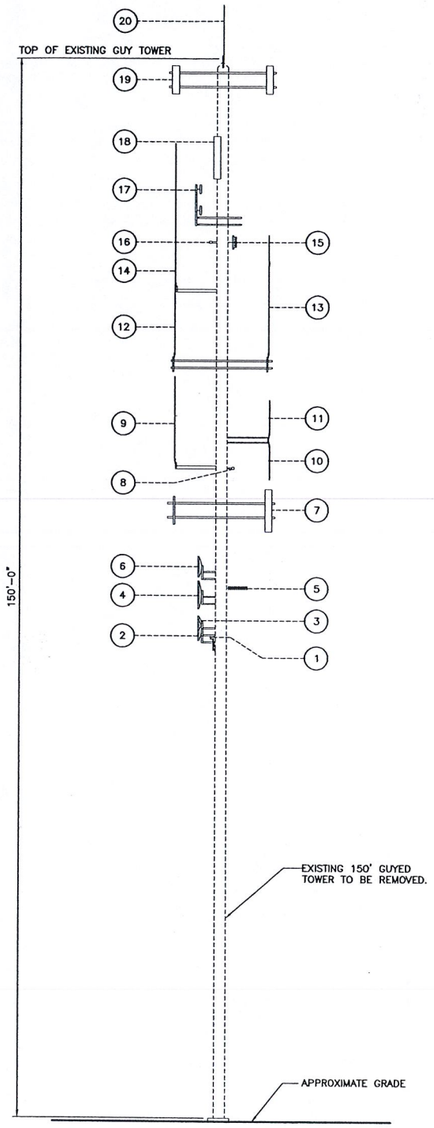
AVON
81 MONTEVIDEO ROAD
AVON, CONNECTICUT

SCALE: AS NOTED

SITE PLAN AND SEDIMENTATION DETAILS

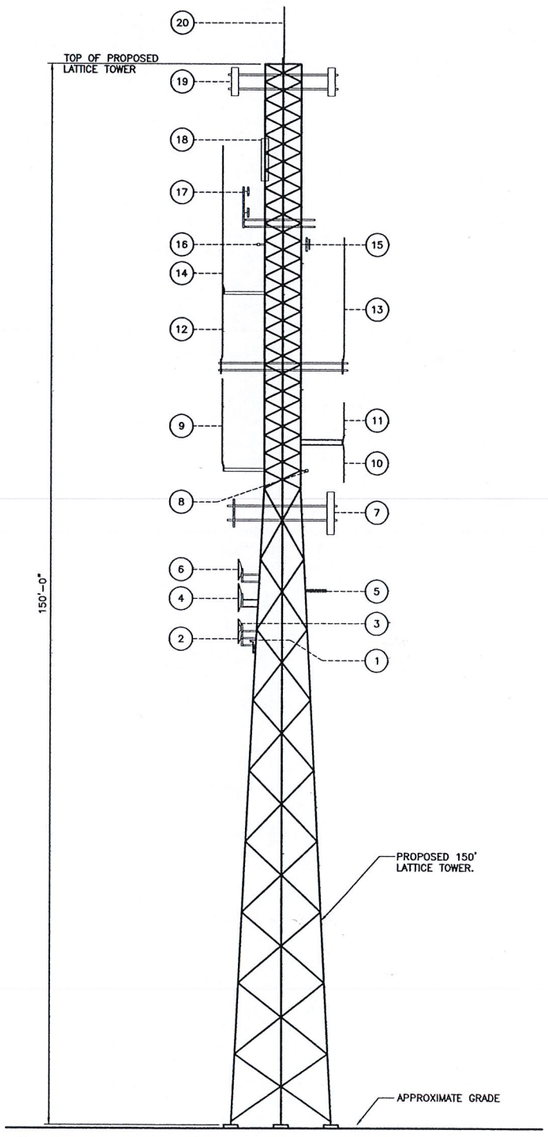
SC-1

LEGEND		
DESCRIPTION	EXISTING	PROPOSED
PROPERTY LINE		
LEASE LINE		
CHAIN LINK FENCE		
CONTOUR LINES	485	
UNDERGROUND UTILITIES		E/T
UTILITY POLE	ø	ø
TREE LINE		
SEDIMENTATION FENCE		



1. GUY WIRES NOT SHOWN FOR CLARITY.

3 SC-2 EXISTING TOWER ELEVATION
SCALE: 1" = 10'-0"



PROPOSED TOWER & FOUNDATION DESIGN BY OTHERS.

2 SC-2 PROPOSED TOWER ELEVATION
SCALE: 1" = 10'-0"

0 5 10 20 30

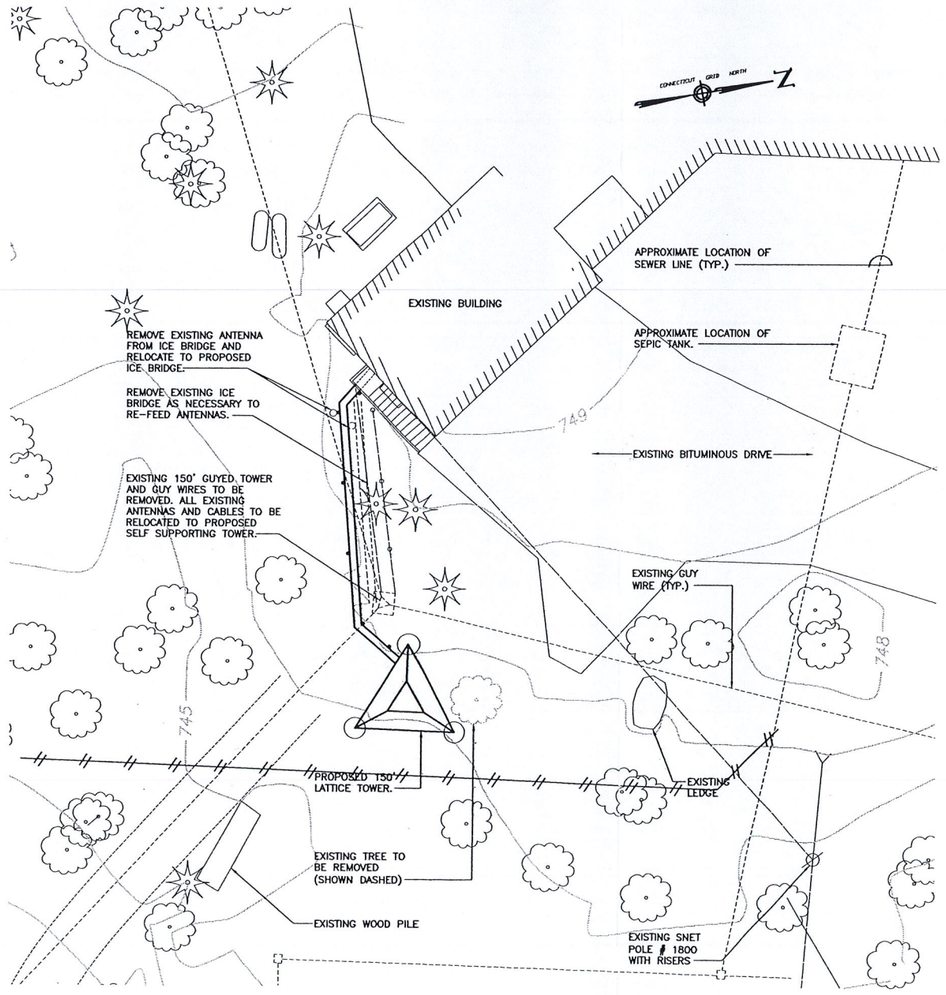
ANTENNA INFORMATION:

1. ANTENNA: LEG MOUNTED GPS ELEVATION: (AGL) 68'-0"
2. ANTENNA: 3' SOLID DISH ELEVATION: (AGL) 69'-0"
3. ANTENNA: 2' SOLID DISH ELEVATION: (AGL) 70'-0"
4. ANTENNA: 4' SOLID DISH ELEVATION: (AGL) 74'-0"
5. ANTENNA: (1) YAGI ON 3' SIDE ARM ELEVATION: (AGL) 75'-0"
6. ANTENNA: 3' SOLID DISH ELEVATION: (AGL) 78'-0"
7. ANTENNA: (1'x6') PANEL ANTENNA ON 6' SIDE ARM ELEVATION: (AGL) 86'-0"
8. ANTENNA: LEG MOUNTED GPS ELEVATION: (AGL) 92'-0"
9. ANTENNA: 12' WHIP ANTENNA ON A 6'-0" SIDE ARM ELEVATION: (AGL) 93'-0"
10. ANTENNA: 8' WHIP ANTENNA INVERTED ON EXISTING SIDE ARM ELEVATION: (AGL) 96'-0"

ANTENNA INFORMATION:

11. ANTENNA: 5' WHIP ANTENNA ON A 6'-0" SIDE ARM ELEVATION: (AGL) 96'-0"
12. ANTENNA: 10' WHIP ANTENNA ON A 6'-0" SIDE ARM ELEVATION: (AGL) 108'-0"
13. ANTENNA: 17' WHIP ANTENNA ON A 6'-0" SIDE ARM ELEVATION: (AGL) 108'-0"
14. ANTENNA: 20' WHIP ANTENNA ON A 6'-0" SIDE ARM ELEVATION: (AGL) 118'-0"
15. ANTENNA: (1) DB225 ON 6' SIDE ARM ELEVATION: (AGL) 124'-0"
16. ANTENNA: (1) DB871H105 PANEL ANTENNA ON 3' SIDE ARM ELEVATION: (AGL) 124'-0"
17. ANTENNA: (1) DB222 ON 3' SIDE ARM ELEVATION: (AGL) 130'-0"
18. ANTENNA: (2) APXV18-206513-C PANEL ANTENNAS ON (2) 6' SIDE ARM ELEVATION: (AGL) 136'-0"
19. ANTENNA: (3) 7187-05 PANEL ANTENNAS ON (3) 6' SIDE ARM ELEVATION: (AGL) 147'-0"
20. ANTENNA: (1) 8' WHIP ANTENNA (LEG MOUNTED) ELEVATION: (AGL) 150'-0"

NOTE: ALL MEASUREMENTS ARE ABOVE GROUND LEVEL.



1 SC-2 PARTIAL SITE PLAN
SCALE: 1" = 10'-0"

0 5 10 20 30

MESSAGE CENTER MANAGEMENT
40 WOODLAND STREET
HARTFORD, CONNECTICUT
06105

A&E FIRM
URS CORPORATION AES
500 ENTERPRISE DRIVE
ROCKY HILL, CONNECTICUT
1-(860)-529-8882

A&E SEAL
STATE OF CONNECTICUT
IGNACIO C. ARIAS
No. 8704
LICENSED ARCHITECT

PROJECT NO: 36924843

JOB NO: MCM 007

DRAWN BY: RRH

CHECKED BY:

ISSUED FOR		
0	08/08/07	REVIEW
1	08/10/07	FINAL

AVON
81 MONTEVIDEO ROAD
AVON, CONNECTICUT

SCALE: AS NOTED

PARTIAL SITE PLAN AND TOWER ELEVATION

SC-2

TOWN OF AVON

60 West Main St. Avon, CT 06001-3743
www.town.avon.ct.us

September 20, 2007

Mr. Daniel F. Caruso, Chairman
State of Connecticut
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

Dear Mr. Caruso:

I am writing to you in connection with Agenda Item #16 for the scheduled Council meeting to be held on September 25, 2007. Docket No. EM-MCM-004-070824 - Message Center Management, Inc., 81 Montevideo Road, Avon, Connecticut.

It is our understanding that the owner of this facility, Message Center Management, would like to dismantle the existing communications tower and replace it with a new tower of no greater height than the existing tower. There are 11 tenants on the existing tower; two, of which, are PCS carriers. A review of the application indicates that all the existing tenants will be relocated to the new tower and no additional tenants or equipment is proposed. The new tower would be a self-supporting structure approximately 5 feet in width at the base compared with the existing tower which is 18 inches in width supported by guy wires.

This matter was reviewed by the Avon Planning and Zoning Commission at their regularly scheduled meeting on September 18, 2007. The location of the existing tower, as well as the proposed new tower location, is within Avon's Ridgeline Protection Overlay Zone. This regulation was enacted by the Commission on October 3, 2000, in accordance with Section 8-2 of the Connecticut General Statutes. This regulation seeks to protect certain natural features of Avon Mountain and address the aesthetics of various structures which are located within this zone. The Commission did review a photo simulation submitted by the applicant prepared by VHB Inc. (which is part of your file). However, they have requested that additional, more detailed information be provided to them so as to be able to make a more informed judgment. We are requesting that no decision be made by the Council until this information can be reviewed by the Planning and Zoning Commission.

Thank you for this opportunity to provide comments on this application.

Sincerely,

Steven Kushner, AICP
Town Planner

Copy: Philip K. Schenck, Jr., Town Manager
Planning and Zoning Commission
Andrew W. Lord, Partner, Murtha Cullina LLP

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POLICE , FIRE & MEDICAL EMERGENCY - 911

TOWN MANAGER'S OFFICE
Tel. (860) 409-4300
Fax (860) 409-4368

ACCOUNTING
Tel. (860) 409-4339
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ASSESSOR'S OFFICE
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Fax (860) 409-4366

BUILDING DEPARTMENT
Tel. (860) 409-4316
Fax (860) 409-4321

COLLECTOR OF REVENUE
Tel. (860) 409-4306
Fax (860) 677-8428

ENGINEERING DEPARTMENT
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Fax (860) 409-4364

FINANCE DEPARTMENT
Tel. (860) 409-4339
Fax (860) 409-4366

FIRE MARSHAL
Tel. (860) 409-4319
Fax (860) 409-4321

HUMAN RESOURCES
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Fax (860) 409-4368

LANDFILL
281 Huckleberry Hill Rd.
Tel. (860) 673-3677

LIBRARY
281 Country Club Road
Tel. (860) 673-9712
Fax (860) 675-6364

PLANNING & ZONING
Tel. (860) 409-4328
Fax (860) 409-4364

POLICE DEPARTMENT
Tel. (860) 409-4200
Fax (860) 409-4206

PROBATE
Tel. (860) 409-4348
Fax (860) 409-4368

PUBLIC WORKS
11 Arch Road
Tel. (860) 673-6151
Fax (860) 673-0338

RECREATION AND PARKS
Tel. (860) 409-4332
Fax (860) 409-4366
Cancellation (860) 409-4365

REGISTRAR OF VOTERS
Tel. (860) 409-4350
Fax (860) 409-4368

SOCIAL SERVICES
Tel. (860) 409-4346
Fax (860) 409-4366

TOWN CLERK
Tel. (860) 409-4310
Fax (860) 677-8428

TDD HEARING IMPAIRED
Tel (860) 409-4361

Radio Frequency Field Survey

Avon Mountain
81 Montevideo Ave.
Avon, CT

C Squared Systems

C Squared Systems
136 Harvey Rd.
Londonderry, NH 03053
Phone 603-758-1013
Email support@csquaredsystems.com

Table of Contents

List of Tables

List of Figures

Overview

Radio Frequency measurements were made in the vicinity of 81 Montevideo Ave., Avon, CT. EMF (Electromagnetic Field) measurements were made to determine compliance with FCC regulations.

FCC Guidelines for Evaluating RF Radiation Exposure Limits

The FCC describes exposure to radio frequency (RF) energy in terms of percentage of maximum permissible exposure (MPE) with 100% being the maximum allowed. Rather than the FCC presenting the user specification in terms of complex power density figures over a specified surface area, this MPE measure is particularly useful, and even more so when considering that power density limits actually vary by frequency because of the different absorptive properties of the human body at different frequencies.

In 1985, the FCC established rules to regulate radio frequency (RF) exposure from FCC licensed antenna facilities. In 1996, the FCC updated these rules, which were further amended in August 1997 by OET Bulletin 65 Edition 97-01. These new rules include limits for Maximum Permissible Exposure (MPE) for transmitters operating between 300 kHz and 100 GHz. The FCC MPE limits are based on exposure limits recommended by the National Council on Radiation Protection and Measurements (NCRP), the exposure limits developed by the Institute of Electrical and Electronics Engineers, Inc., (IEEE) and adopted by the American National Standards Institute (ANSI).

Survey measurements are expressed as a percentage of the Maximum Permissible Exposure (MPE) limits as listed in the FCC OET Bulletin 65. OET Bulletin 65 was prepared to provide assistance in determining whether proposed or existing transmitting facilities, operations or devices comply with limits for human exposure to radio frequency fields adopted by the Federal Communications Commission. Measurement results expressed in this report are for uncontrolled public access. The FCC's guidelines establish separate exposure limits for "general population/uncontrolled exposure," and for "occupational/controlled exposure."

The FCC general population/uncontrolled limits set the maximum exposure to which most people may be subjected. General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

Public exposure to radio frequencies is regulated and enforced in units of power per square centimeter. Because each frequency band has different exposure limits, in a mixed signal environment it is necessary to report percent of MPE rather than power density.

Higher exposure limits are permitted under the occupational/controlled exposure category, but only for persons who are exposed as a consequence of their employment and who have been made fully aware of the potential for exposure, and they must be able to exercise control over their exposure. General population/uncontrolled limits are five times more stringent than the levels that are acceptable for occupational, or radio frequency trained individuals." Attachment B contains excerpts from OET Bulletin 65 and defines the Maximum Exposure Limits.

Measurement Procedures

Frequencies from 300 KHz to 50 GHz were measured using the Narda A8722D probe in conjunction with the 8718B survey meter. The A8722D probe is "shaped" such that in a mixed signal environment (i.e.: more than one frequency band is used in a particular location) it accurately measures the percent of MPE.

From FCC OET Bulletin No. 65 - Edition 97-01 – "A useful characteristic of broadband probes used in multiple-frequency RF environments is a frequency-dependent response that corresponds to the variation in MPE limits with frequency. Broadband probes having such a "shaped" response permit direct assessment of compliance at sites where RF fields result from antennas transmitting over a wide range of frequencies. Such probes can express the composite RF field as a percentage of the applicable MPEs".

Probe Description – As suggested in FCC OET Bulletin No. 65 - Edition 97-01, the response of the measurement instrument should be essentially isotropic, (i.e., independent of orientation or rotation angle of the probe). For this reason, the Narda A8722 Isotropic probe was used for these measurements.

Sampling Description: At each measurement location, a spatially averaged measurement is collected over the height of an average human body. The 8718B survey meter performs a time average measurement while the user slowly moves the probe over a distance range of 0 cm to 200 cm (about 6 feet) above ground level. The results recorded at each measurement location include both average and peak values over the spatial distance.

Instrumentation Information: A summary of specifications for the equipment used is provided in the table below.

Manufacturer	Narda Microwave			
Probe	A8722D, Serial Number 07030			
Calibration Date	2/26/2007			
Calibration Interval	12 Months			
Meter	8718B, Serial Number 06028			
Calibration Date	2/10/2006			
Calibration Interval	24 Months			
Probe Specifications	**Freq Range**	**Field Measured**	**Standard**	**Measurement Range**
	300 KHz-50 GHz	E	FCC 1997	0.3 – 300 % of Controlled

Table 1: Instrumentation Information

Instrument Measurement Uncertainty: The total measurement uncertainty of the NARDA measurement probe and meter is no greater than ±3 dB. The factors which contribute to this include the probe's frequency response deviation, calibration uncertainty, ellipse ratio, and isotropic response. Every effort is taken to reduce the overall uncertainty during measurement collection including rotating the probe about the axis of the handle and pointing the probe directly at the likely highest source of emissions.

Results

Results of measured locations and a description of each survey location are detailed in the table presented below. All measurements were taken on September 18, 2007 between the hours of 10:00 AM and 11:30 AM. Measurement locations are portrayed in the photos below. An aerial view, with measurement points, of the surrounding area is also shown in Figure 1.

Measurement Point	Latitude	Longitude	Distance from Tower (ft)	Measured MPE %
1	N41-48-11.28	W72-48-4.83	28	2.20%
2	N41-48-11.51	W72-48-4.92	52	2.25%
3	N41-48-11.34	W72-48-5.29	50	1.45%
4	N41-48-11.55	W72-48-5.41	72	1.15%
5	N41-48-11.73	W72-48-5.41	87	1.50%
6	N41-48-11.78	W72-48-5.01	81	1.40%
7	N41-48-12.02	W72-48-4.79	103	1.65%
8	N41-48-12.51	W72-48-4.22	160	2.55%
9	N41-48-13.13	W72-48-2.91	259	2.65%
10	N41-48-12.91	W72-48-2.04	285	2.70%
11	N41-48-11.4	W72-48-2.28	196	2.65%
12	N41-48-10.26	W72-48-2.82	168	3.20%
13	N41-48-8.1	W72-48-3.12	321	3.20%
14	N41-48-8.52	W72-48-3.08	284	2.95%
15	N41-48-6.12	W72-48-4.14	498	3.10%
16	N41-48-4.86	W72-48-4.38	624	3.10%
17	N41-48-3.48	W72-48-4.8	763	3.45%
18	N41-48-2.22	W72-48-4.26	892	3.65%
19	N41-47-58.98	W72-48-3.6	1223	3.95%
20	N41-47-57.78	W72-48-3.66	1344	3.80%
21	N41-47-55.68	W72-48-3.72	1556	3.45%
22	N41-48-10.68	W72-48-4.5	40	1.05%
23	N41-48-11.04	W72-48-5.82	76	1.00%

Table 2: Measured Results

Photos of Selected Measurement Locations

Figure 1: Aerial View with Measurement Locations

Figure 2: Measurement Location 1

Figure 3: Measurement Location 2

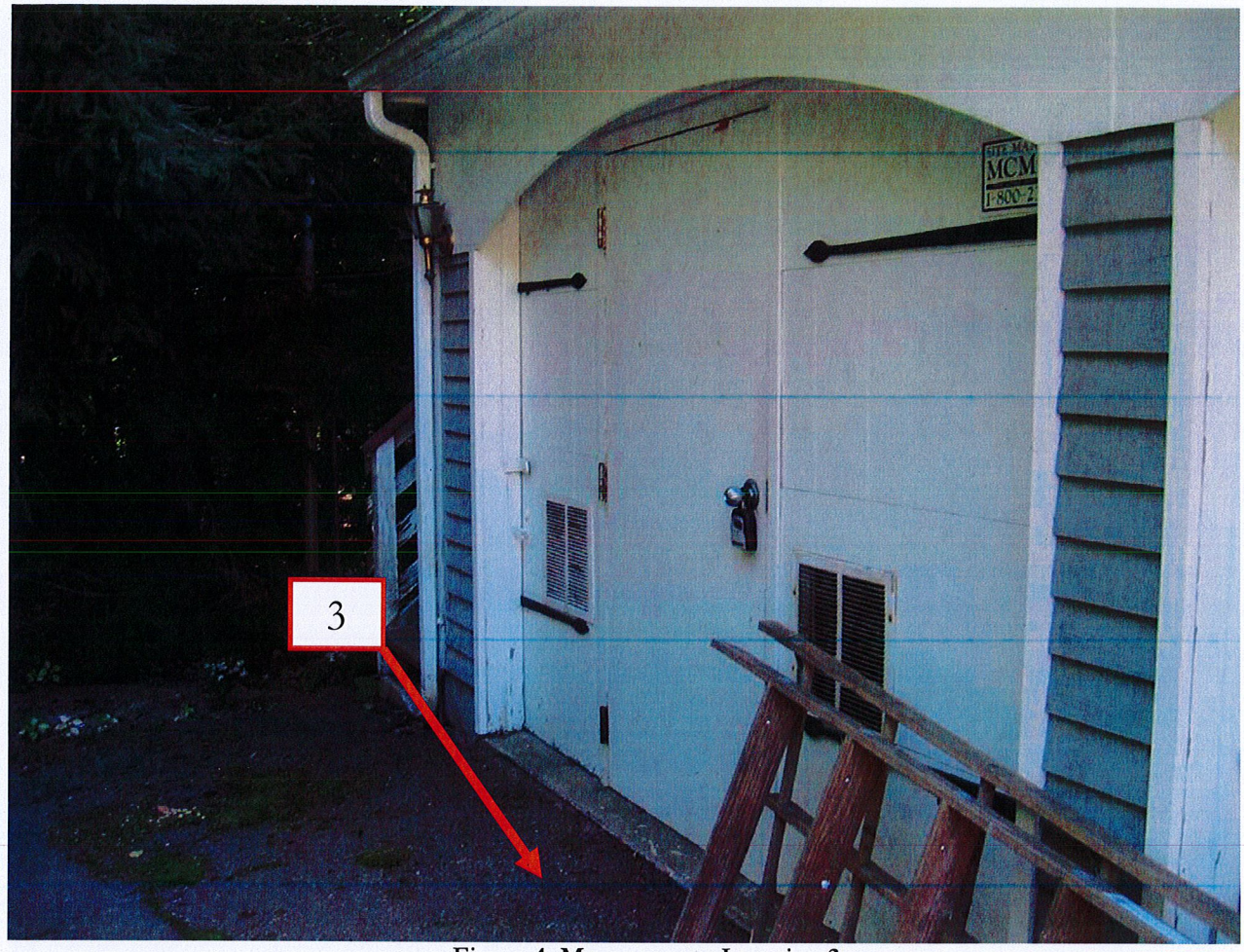


Figure 4: Measurement Location 3

Figure 5: Measurement Location 4

Figure 6: Measurement Location 5

Figure 7: Measurement Location 6

Figure 8: Measurement Location 7

Figure 9: Measurement Location 8

Figure 10: Measurement Location 9

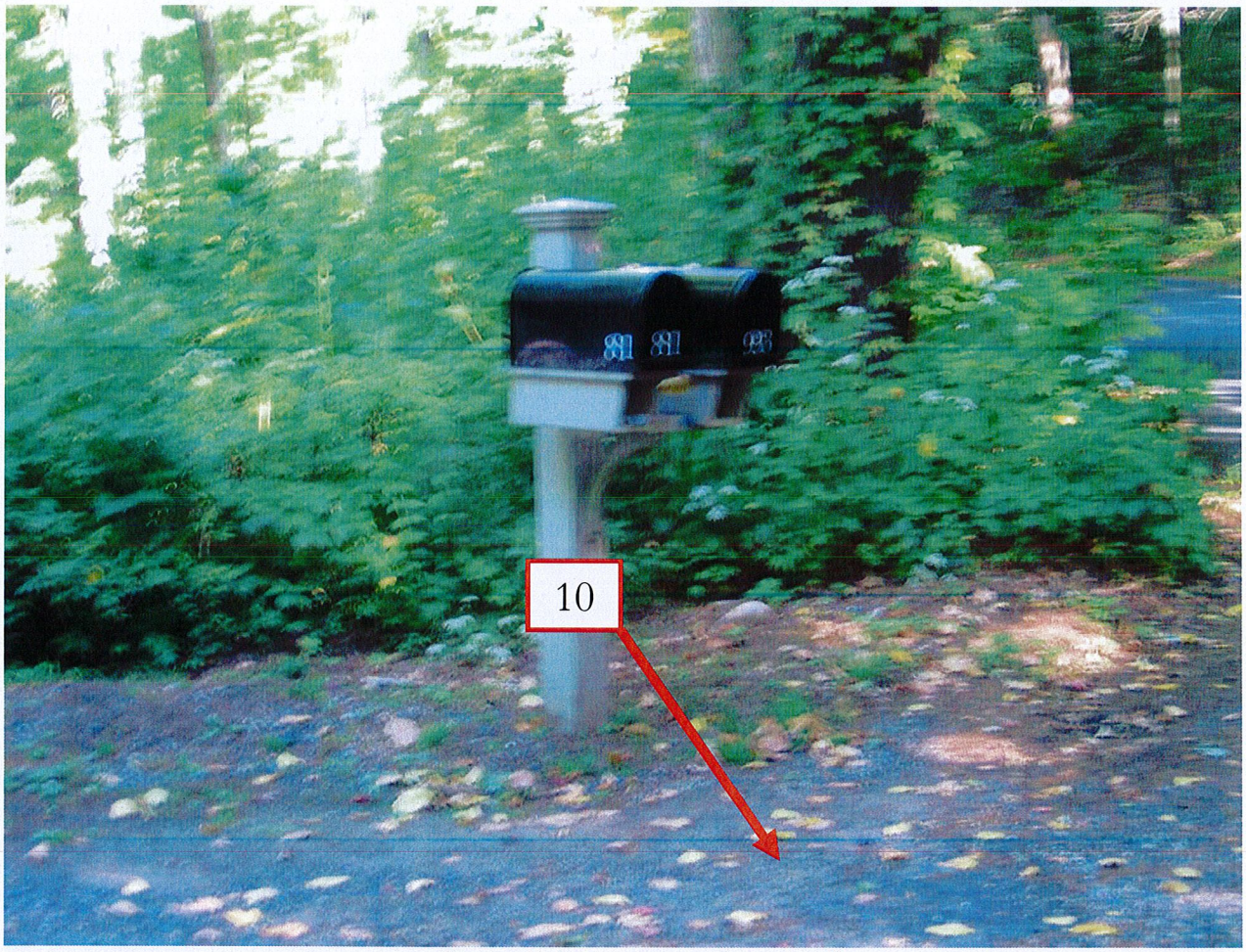


Figure 11: Measurement Location 10

Figure 12: Measurement Location 11

Figure 13: Measurement Location 12

Figure 14: Measurement Location 13

Figure 15: Measurement Location 14

Figure 16: Measurement Location 15

Figure 17: Measurement Location 16

Figure 18: Measurement Location 17

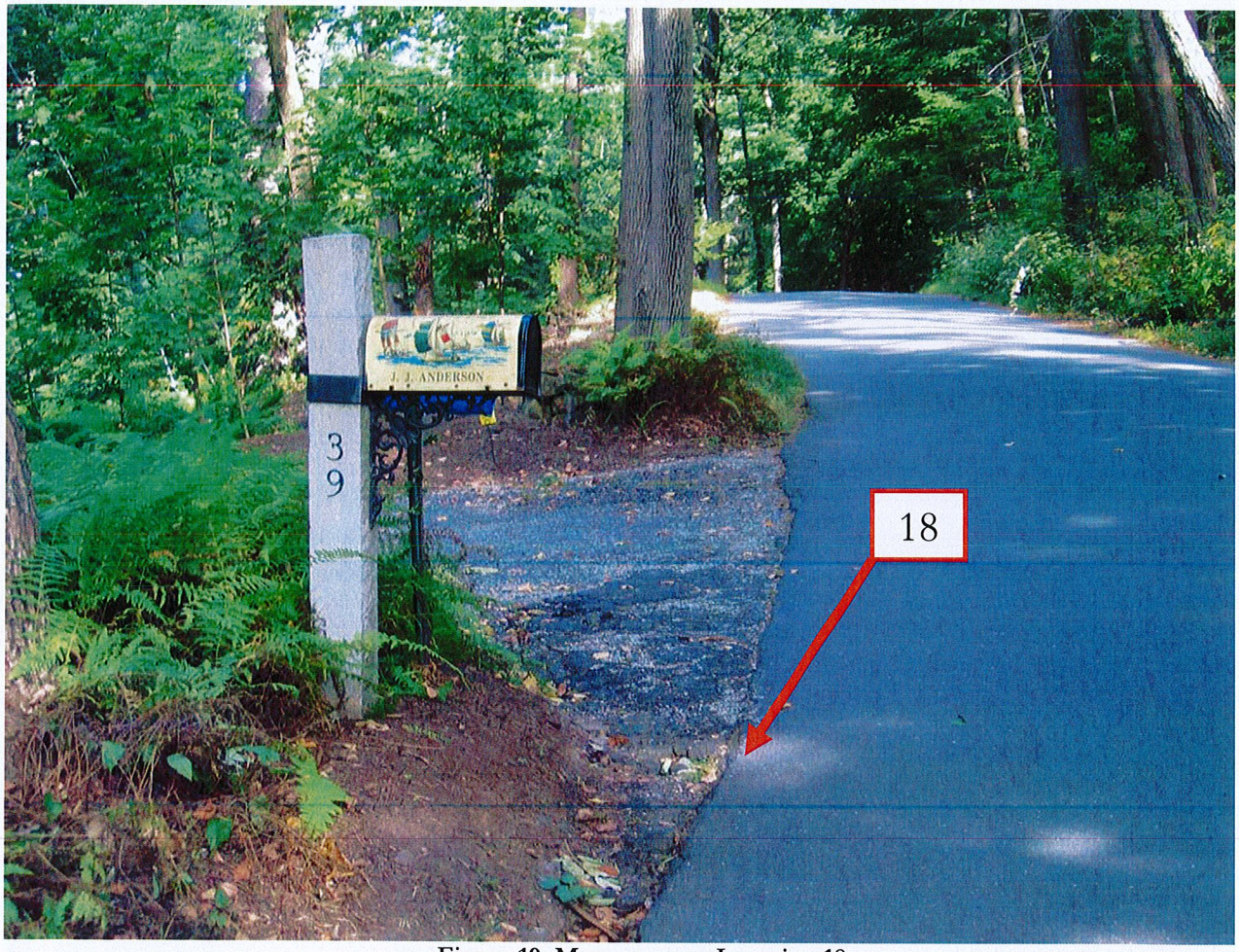


Figure 19: Measurement Location 18

Figure 20: Measurement Location 19

Figure 21: Measurement Location 20

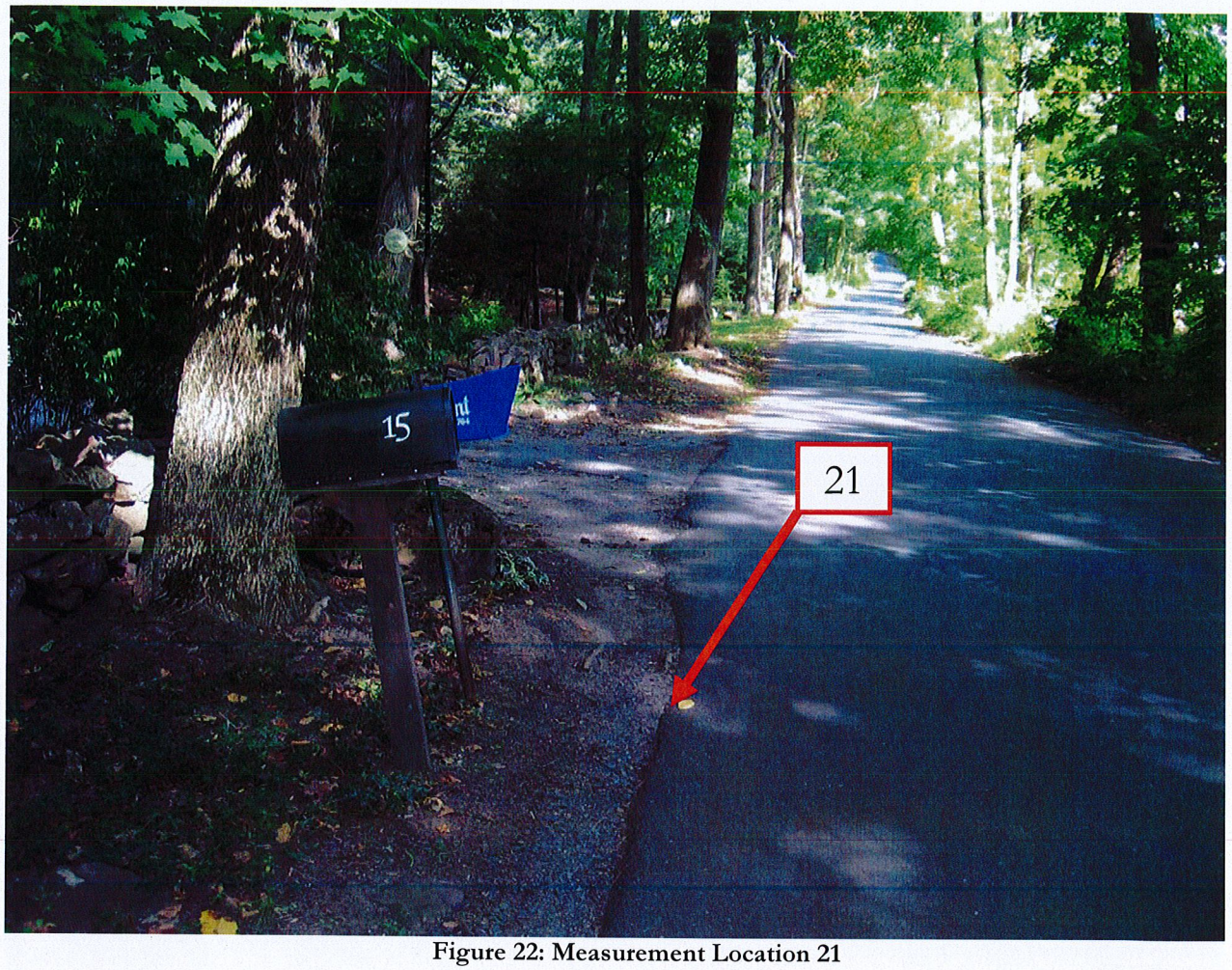


Figure 22: Measurement Location 21

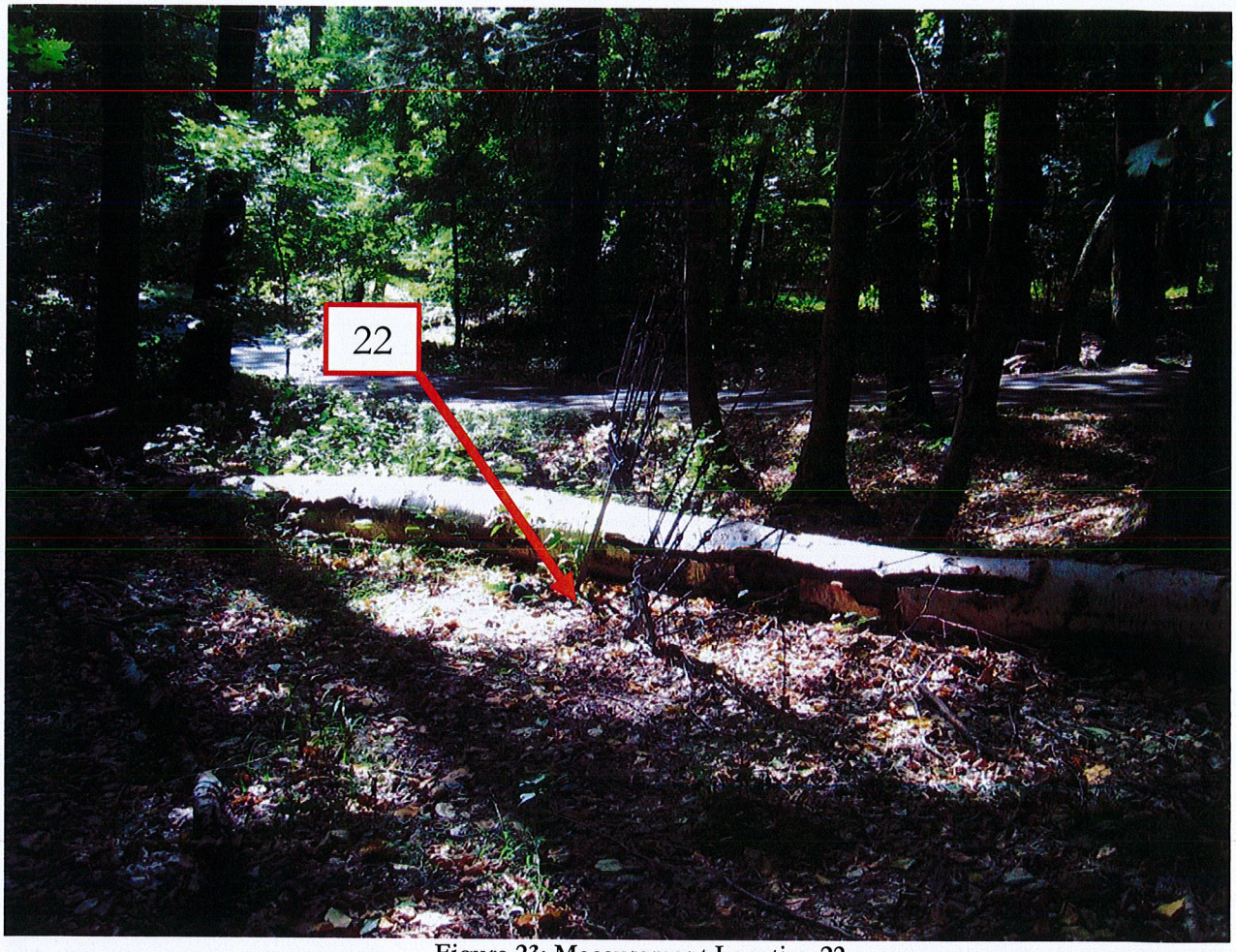


Figure 23: Measurement Location 22

Figure 24: Measurement Location 23

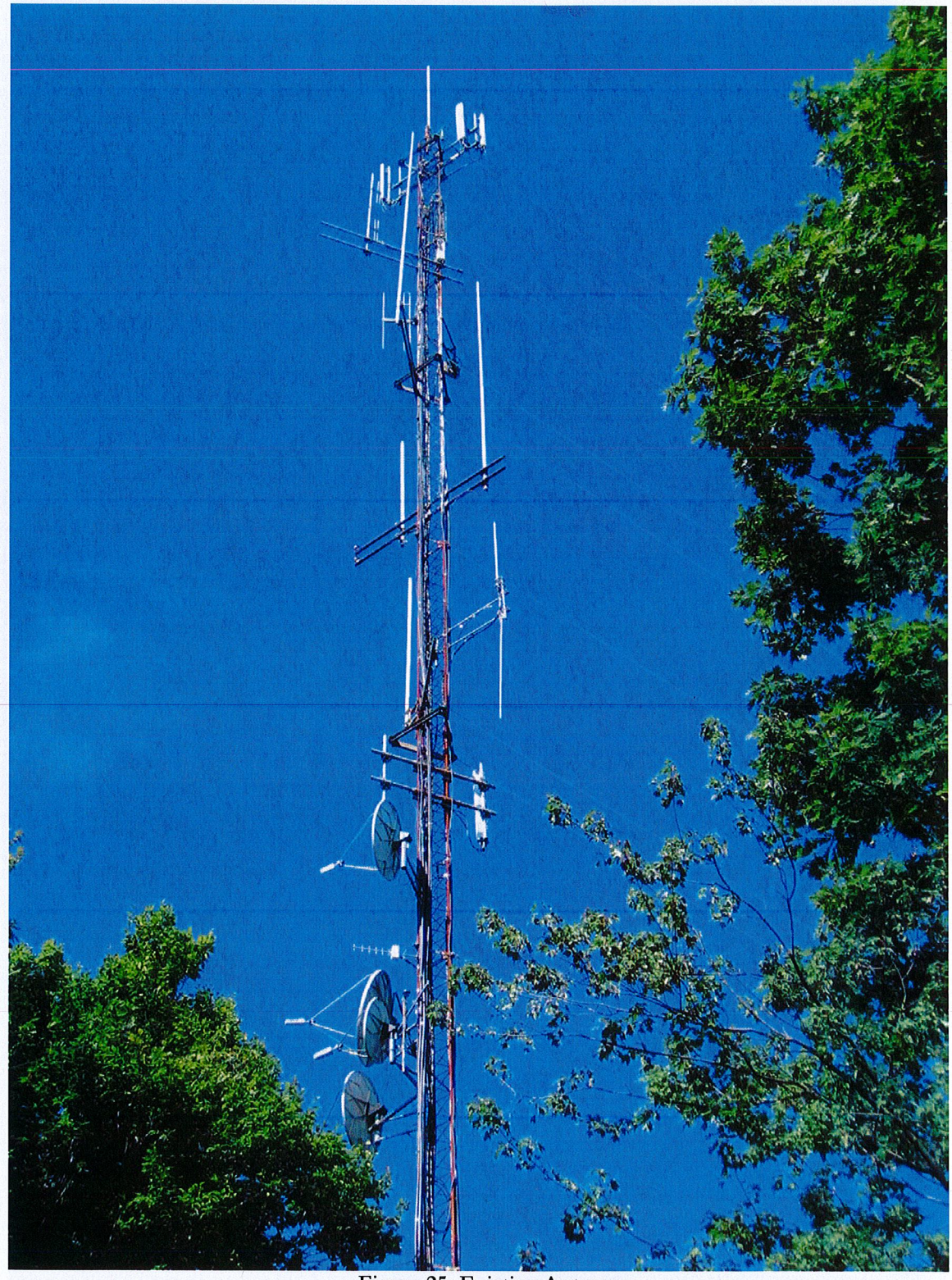


Figure 25: Existing Antennas

Figure 26: Existing Tower

Conclusion

Areas in the vicinity of 81 Montevideo Ave., Avon, CT were found to be less than 4% of the FCC limits for General Population/Uncontrolled areas, as delineated in the Federal Communications Commission's Radio Frequency exposure rules published in 47 CFR 1.1307(b)(1)-(b)(3).

Statement of Certification

I certify to the best of my knowledge that the statements in this report are true and accurate. The measurements were obtained with properly calibrated equipment using techniques in compliance with ANSI/IEEE Std. C95.3, ANSI/IEE Std. C95.1 and FCC OET Bulletin 65 Edition 97-01.

Tony Wells
C Squared Systems

Date

References

OET Bulletin 65 - Edition 97-01 - August 1997 Federal Communications Commission Office of Engineering & Technology

ANSI C95.1-1982, American National Standard Safety Levels With Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 300 kHz to 100 GHz. IEEE-SA Standards Board

IEEE Std C95.3-1991 (Reaff 1997), IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave. IEEE-SA Standards Board

FCC Limits For Maximum Permissible Exposure (MPE)

(A) Limits for Occupational/Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (E) (A/m)	Power Density (S) (mW/cm^2)	Averaging Time $\|E\|^2$, $\|H\|^2$ or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	($900/f^2$)*	6
30-300	61.4	0.163	1.0	6
300-1500	-	-	f/300	6
1500-100,000	-	-	5	6

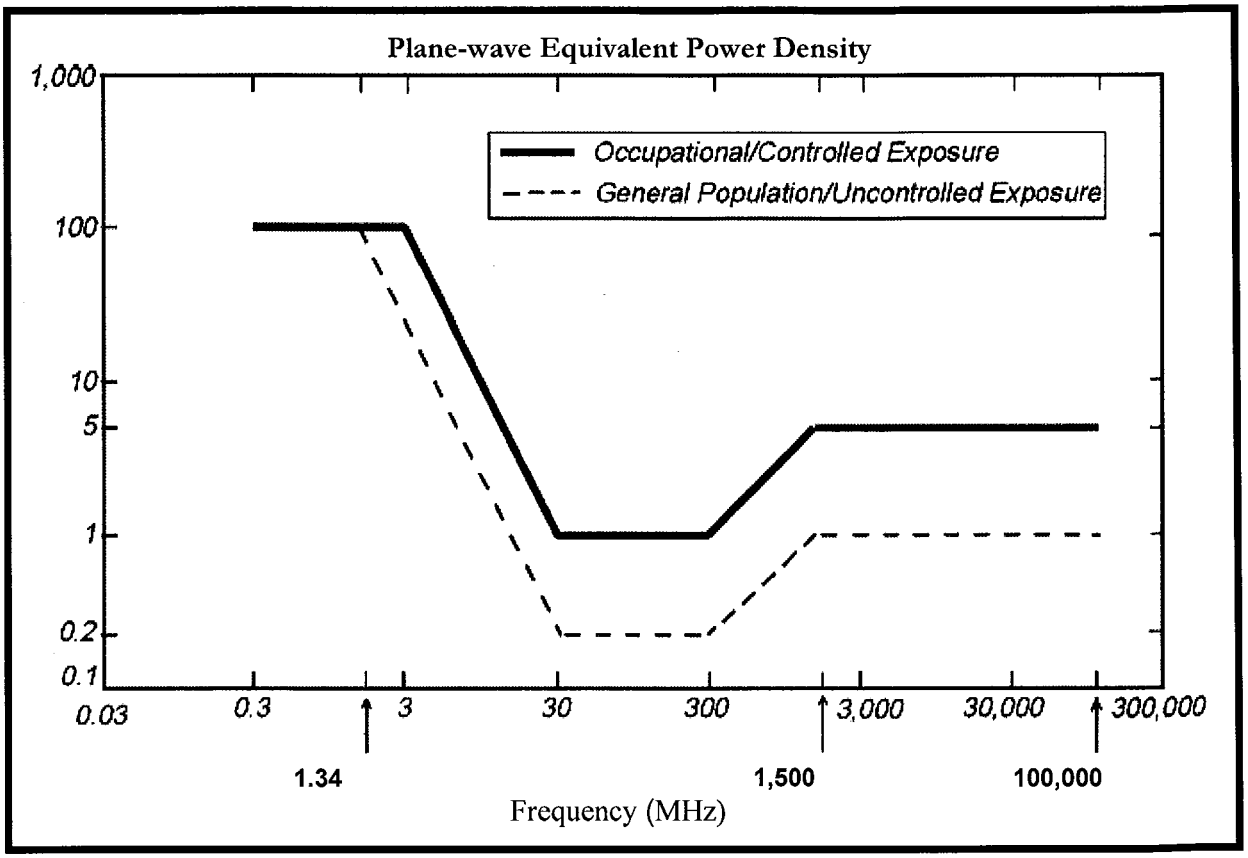
(B) Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (E) (A/m)	Power Density (S) (mW/cm^2)	Averaging Time $\|E\|^2$, $\|H\|^2$ or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	($180/f^2$)*	30
30-300	27.5	0.073	0.2	30
300-1500	-	-	f/1500	30
1500-100,000	-	-	1.0	30

f = frequency in MHz * Plane-wave equivalent power density

NOTE 1: Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

NOTE 2: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.



FCC Limits for Maximum Permissible Exposure (MPE)

Conclusion

Areas in the vicinity of 81 Montevideo Ave., Avon, CT were found to be less than 4% of the FCC limits for General Population/Uncontrolled areas, as delineated in the Federal Communications Commission's Radio Frequency exposure rules published in 47 CFR 1.1307(b)(1)-(b)(3).

Statement of Certification

I certify to the best of my knowledge that the statements in this report are true and accurate. The measurements were obtained with properly calibrated equipment using techniques in compliance with ANSI/IEEE Std. C95.3, ANSI/IEE Std. C95.1 and FCC OET Bulletin 65 Edition 97-01.

anthony wells

Tony Wells
C Squared Systems, LLC

9/22/2007
Date

CUDDY & FEDER LLP

445 Hamilton Avenue, 14th Floor
White Plains, New York 10601
Tel 914.761.1300 Fax 914.761.5372
www.cuddyfeder.com

September 28, 2007

Mr. Steve Kushner
Town Planner
Town of Avon
Town Hall
60 West Main Street
Avon, Connecticut 06001-3743

Re: Message Center Management, Inc. ("MCM")
Replacement Tower - 81 Montevideo Road
State Siting Council # EM-MCM-004-070824

Dear Mr. Kushner:

We are writing to you in response to your September 20th letter addressed to the Siting Council which has been forwarded to us by Council staff with respect to the above referenced matter.

In reading through your letter, and based on subsequent conversations between you and Mr. Hans Fiedler at MCM, we understand that the Town acknowledges the Council's jurisdiction in this matter but would nevertheless appreciate certain additional information as a courtesy to the Town Planning & Zoning Commission. Specifically, you would like MCM to identify the methodology that went into the photosimulations prepared by VHB, Inc and provide an estimate of the thickness of the cross-bracing proposed for the replacement tower as depicted in the plans included in MCM's Siting Council filing.

We are pleased to enclose for you copies of the following additional information regarding our client's proposed replacement of the existing tower facility:

1) Narrative report from VHB, Inc. explaining the methodology and protocol for the photos and simulations that were include in MCM's August filing with the Council;

2) Additional information from the tower manufacturer regarding the designed dimensions of the tower and cross-bracing and nature of the tower taper[1];

Of note, this tower is being custom designed such that a "stock" photograph of a matching tower is unavailable. We do note that this custom design was requested by MCM to accommodate the antenna loading requirements while at the same time providing a tapered slim tower profile to minimize visibility to the greatest extent possible. We trust that the photosimulations previously

[1] Subject to any final engineering/code requirements, these drawings will be signed/sealed and provided in final form post approval and as part of a building permit application.

provided and the enclosed drawings provide you with sufficient information regarding the change from a guyed lattice tower to a self support lattice tower.

It is our understanding that the Planning & Zoning Commission meets next on October 10, 2007 at which time you may review this information with Commission members. Please also be advised that the Siting Council meets next on October 16th at which time we have requested final action on MCM's filing. Subject to the Council's acknowledgment, we would anticipate MCM filing for a building permit shortly thereafter.

Thank you for your continued assistance in this matter.

Very truly yours,

Christopher B. Fisher

Enclosures
cc: Derek Phelps, Executive Director, Siting Council
Hans Fiedler, MCM

Transportation
Land Development
Environmental
Services

Vanasse Hangen Brustlin, Inc.

To: Hans Fiedler
Message Center Management
40 Woodland Street
Hartford, CT 06105

Date: October 2, 2007

Project No.: 4135.00

From: VHB, Inc.

Re: Photographic Simulation Methodology
Replacement Telecommunications Tower
81 Montevideo Road
Avon, Connecticut

The following is intended to provide a brief description of the methodology utilized by VHB, Inc. to develop photographic simulations for the above referenced tower replacement located within the Town of Avon, Connecticut.

Prior to the conduct of any in-field activities, VHB staff reviewed associated engineering drawings in order to determine the height, location and general design of the replacement facility. Typically, a balloon float or crane test would be conducted in order to identify those locations where a new tower could potentially be visible. However, in this instance, the existing 150-foot structure (to be replaced) was utilized to obtain locational and height representations. VHB staff conducted reconnaissance along the roadways and other publicly accessible areas located within a two mile radius from the existing guyed tower with an emphasis on nearby residential areas and other potential sensitive receptors.

Photographs of the existing tower structure were taken with a Panasonic Digital Camera DMC-FZ5, which has a lens focal length equivalent to a 35 mm camera with a 38 to 115 mm zoom. "The lens that most closely approximates the view of the unaided human eye is known as the normal focal-length lens. For the 35 mm camera format, which gives a 24x36 mm image, the normal focal length is about 50 mm.[1]" The optical zoom lens for the Panasonic DMC-FZ5 was set at a range of 50 mm to 70 mm for the purposes of this Visual Resource Evaluation.

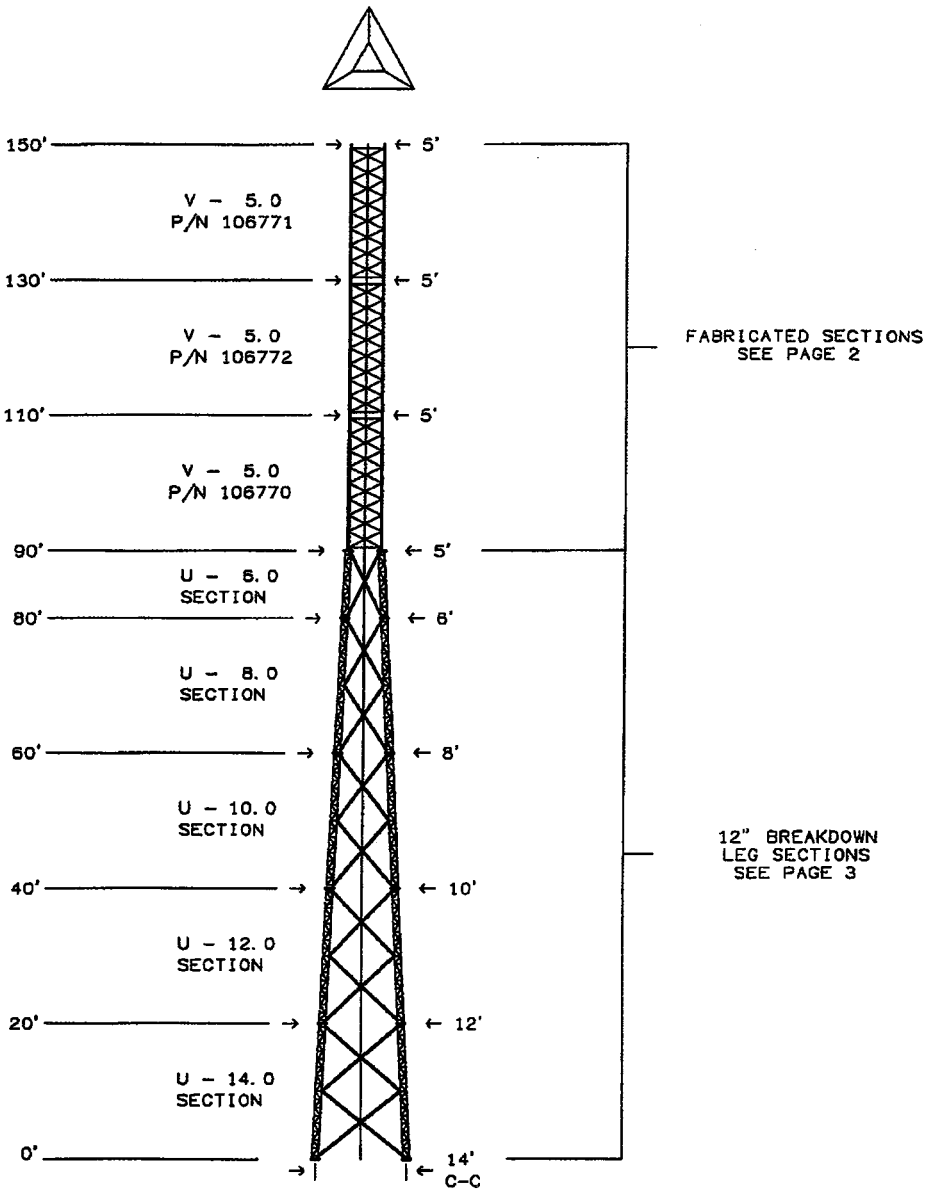
The locations of the photographic points are recorded in the field using a hand held GPS receiver and are subsequently plotted on the maps that accompanied our photographic simulations.

Photographic Simulations were generated for four locations where the existing tower was observed during the reconnaissance and represent scaled depictions of the replacement facility. Two non-visible photographs were also included. The structures depicted in the photographic simulations are compiled from an extensive, in-house catalogue of high resolution telecommunications-related

---

[1] Warren, Bruce. *Photography*, West Publishing Company, Eagan, MN, c. 1993, (page 70).

images that includes various tower configurations, antenna and ground equipment. An image of the replacement structure was inserted into the existing conditions photographs using Adobe Photoshop. The height and location of the replacement self supporting lattice tower is determined based on the height and location of the existing guyed tower. The composite images are then incorporated into a graphics template that contains a "before" image in order to compare existing and proposed views, a photo location map and a description of the location, and orientation of photo point.



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MESSAGE CENTER MNGT., INC.
AVON, CT
U - 14.0 X 150' SELF-SUPPORTING TOWER

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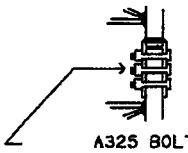
PAGE 1 OF 4

FABRICATED SECTION DATA 90' - 150' ELEVATION								
SECT LEN	SEC #	SECTION PART#	LEG SIZE	BRACE SIZE	SECT WT. *	BOLTS AT BOTTOM DIAM	LENGTH	#
20'	V- 5.0	106771	1- 3/4 "	7/8 "	1154#	5/8"	4-1/2"	15
20'	V- 5.0	106772	2 "	7/8 "	1302#	3/4"	5"	15
20'	V- 5.0	106770	2- 1/4 "	7/8 "	1470#	1 "	3-1/2"	18

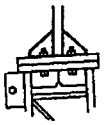
* THE WEIGHTS LISTED ARE THEORETICAL. THE ACTUAL WEIGHTS WILL VARY. ALL WEIGHTS SHOULD BE CONFIRMED IN THE FIELD PRIOR TO ERECTION.

FABRICATED SECTIONS
TYPICAL SLEEVE TYPE
LEG CONNECTION



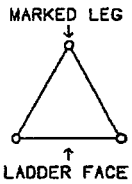
A325 BOLTS
SEE TABLE ABOVE FOR SIZE.

FABRICATED SECTIONS
TRANSITION SIDE VIEW
AT 90' ELEVATION



USE 1 FLATWASHER UNDER EACH LOCKNUT ON LEG CONNECTION.

FABRICATED SECTIONS
GENERAL SECTION ASSEMBLY
TOP VIEW



THE MARKED LEG OF EACH SECTION IS STAMPED WITH THE 6 DIGITS OF THE TOWER SERIAL #. ASSEMBLE THE TOWER WITH MARKED LEGS TOGETHER. THE MARKED LEG MAY ALSO CONTAIN JOINT NUMBERS STARTING WITH 1 AT THE TOP OF THE BASE SECTION. IF SO, ERECT WITH JOINTS IN THE PROPER SEQUENCE.

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MESSAGE CENTER MNGT., INC.
AVON, CT
U - 14.0 X 150' SELF-SUPPORTING TOWER

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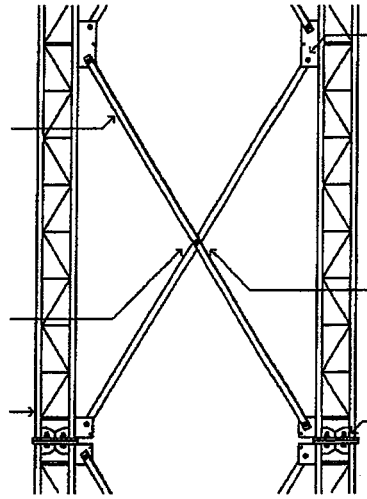
BREAKDOWN SECTION DATA (12" LEG) 0' – 90' ELEVATION												
SEC #	SECTION LENGTH	LEG SIZE	LEG PART#	TOP DIAG PART#	BOT DIAG PART#	DIAGONAL ANGLE FACE	DIAGONAL ANGLE THICK	SECTION WEIGHT	LEG CONNECT+ DIAM	LEG CONNECT+ LENGTH	DIAG CONNECT DIAM	DIAG CONNECT LENGTH
U- 6.0	10'	1- 1/4"	195541		105556	2-1/2"	3/16"	962#	1 "	3-1/2"	1 "	2-1/4"
U- 8.0	20'	1- 1/2"	195555	105558	105561	2-1/2"	3/16"	2305#	1 "	3-1/2"	1 "	2-1/4"
U-10.0	20'	1- 1/2"	195555	105564	105567	2-1/2"	3/16"	2346#	1 "	3-1/2"	1 "	2-1/4"
U-12.0	20'	1- 3/4"	195557	105571	105574	3"	3/16"	2914#	1 "	3-1/2"	1 "	2-1/4"
U-14.0	20'	1- 3/4"	195557	105576	105579	3"	3/16"	2980#			1 "	2-1/4"

* THE WEIGHTS LISTED ARE THEORETICAL. THE ACTUAL WEIGHTS WILL VARY. ALL WEIGHTS SHOULD BE CONFIRMED IN THE FIELD PRIOR TO ERECTION.
+ USE 1 FLATWASHER UNDER EACH LOCKNUT, FOR LEG CONNECTION ONLY.

TYPICAL BREAKDOWN SECTION ASSEMBLY (12" LEG) 0' – 90' ELEVATION



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MESSAGE CENTER MNGT., INC.
AVON, CT
U - 14.0 X 150' SELF-SUPPORTING TOWER

CONNECTICUT C.O.A. PEC. 797

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GENERAL NOTES

1/2. NO TWIST AND SWAY LIMITATIONS SPECIFIED OR USED FOR THIS TOWER.

3. MATERIAL: (A) SOLID RODS TO ASTM A572 GRADE 50.
(B) ANGLES TO ASTM A36.
(C) PIPE TO ASTM A500 GRADE B.
(D) STEEL PLATES TO ASTM A36.
(E) CONNECTION BOLTS TO ASTM A325 OR ASTM A449 (Fu=120 KSI AND Fy=92 KSI) AND ANCHOR BOLTS TO ASTM A687 (Fu=150 KSI AND Fy=105 KSI).

4. BASE REACTIONS:

TOTAL WEIGHT =	20.5 KIPS.	MAXIMUM COMPRESSION =	251.1 KIPS PER LEG.
MOMENT =	2961.6 KIP-FT.	MAXIMUM UPLIFT =	237.4 KIPS PER LEG.
MAXIMUM SHEAR =	39.9 KIPS TOTAL.		

5. FINISH: ALL BOLTS ARE GALVANIZED IN ACCORDANCE WITH ASTM A153 (HOT DIPPED) OR ASTM B695 CLASS 50 (MECHANICAL). ALL OTHER STRUCTURAL MATERIALS ARE GALVANIZED IN ACCORDANCE WITH ASTM123.

6. ANTENNAS: NONE

7. REMOVE FOUNDATION TEMPLATE PRIOR TO ERECTING TOWER. INSTALL BASE SECTION WITH MINIMUM OF 2" CLEARANCE ABOVE CONCRETE. SEE BASE SECTION PLACEMENT ON PAGE 0. PACK NON-SHRINK STRUCTURAL GROUT UNDER BASE SECTION AFTER LEVELING TOWER.

8. MIN. WELDS 5/16" UNLESS OTHERWISE SPECIFIED. ALL WELDING TO CONFORM TO AWS D1.1 AND CSA W59.

9. ALL BOLTS AND NUTS MUST BE IN PLACE BEFORE THE ADJOINING SECTIONS ARE INSTALLED.

10. ALL STRUCTURAL BOLTS ARE TO BE TIGHTENED IN ACCORDANCE WITH THE PROVISIONS OF CAN/CSA-S16.1.

11. TIA-222-G GROUNDING FOR TOWER.

12. CSA APPROVED CABLE TYPE SAFETY CLIMB.

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TOWN OF AVON

60 West Main St. Avon, CT 06001-3743
www.town.avon.ct.us

October 10, 2007

Mr. Daniel F. Caruso, Chairman
State of Connecticut
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

Dear Mr. Caruso:

At the Planning and Zoning Commission's regular meeting held on October 9, 2007, the Commission reviewed supplemental information provided by Message Center Management, Inc., regarding a proposal to replace an existing communications tower located at 81 Montevideo Road.

As we mentioned in our prior correspondence, the new tower is to be located in Avon's Ridgeline Protection Overlay Zone. Based on earlier conversations with the applicant, it is our understanding that a very minimal number of trees (possibly only one) need to be removed in order to accommodate the new tower. Accordingly, we ask that the Siting Council consider approving this application with a condition that all trees to be removed be flagged in the field prior to their removal. Following this, we ask that an onsite meeting be held between the applicant, the Town of Avon Staff, and the Staff of the Connecticut Siting Council, to ensure that the absolute minimum number of trees are removed in order to accommodate the tower.

Thank you for providing the Town of Avon an opportunity to review this application.

Sincerely,

Steven Kushner, AICP
Town Planner

Copy: Duane Starr, Chairman, Planning and Zoning Commission
Philip K. Schenck, Jr., Town Manager
John Willnauer, Building Official
Andrew W. Lord, Partner, Murtha Cullina LLP
Hans Fiedler, Message Center Management, Inc.

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Fax (860) 409-4366

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