

STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

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Web Site: www.state.ct.us/csc/index.htm

January 3, 2002

Richard Greene
Senior Wireless Designer
Edward and Kelcey
One Church Street, 3rd Floor
New Haven, CT 06510

RE: **EM-AT&T-005-018-031-055-068-092-111-125-153-162-168-011121** - Edwards and Kelcey on behalf of AT&T Wireless notice of intent to modify existing telecommunications facilities located at twelve sites throughout the State of Connecticut.

Dear Mr. Greene:

At a public meeting held on January 3, 2002, the Connecticut Siting Council (Council) acknowledged your notice to modify the Litchfield-Kent (L04); Mohawk Mountain (L12); Pine Meadows (L14); and North Kent (L17) sites of the proposed twelve existing telecommunications facilities, eight of which were previously approved on December 17, 2001, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notices dated November 20, 2001, December 10, 2001, and December 21, 2001. 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. These facilities have 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. 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,

Mortimer A. Gelston
Chairman

MAG/laf

c: See attached list

List Attachment:

Honorable Dolores R. Schiesel, First Selectman, Town of Kent
Judith Wick, Zoning Enforcement Officer, Town of Kent
Honorable James P. O'Leary, First Selectman, Town of Goshen
Martin Connor, Town Planner, Town of Goshen
Honorable Michael D. Fox, First Selectman, Town of Barkhamsted
Karl Nilsen, Zoning Enforcement Officer, Town of Barkhamsted
Honorable P. Robert Moeller, First Selectman, Town of Sharon
Elizabeth H. Casey, Zoning Enforcement Officer, Town of Sharon
Honorable Gorden M. Ridgway, First Selectman, Town of Cornwall
Ruth Mucahy, Zoning Enforcement Officer, Town of Cornwall



STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

Ten Franklin Square
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December 13, 2001

Richard Greene
Senior Wireless Designer
Edward and Kelcey
One Church Street, 3rd Floor
New Haven, CT 06510

RE: **EM-AT&T-005-018-031-055-068-092-111-125-153-162-168-011121** - Edwards and Kelcey on behalf of AT&T Wireless notice of intent to modify existing telecommunications facilities located at twelve sites throughout the State of Connecticut.

Dear Mr. Greene:

At a public meeting held on December 11, 2001, the Connecticut Siting Council (Council) acknowledged your notice to modify eight of the proposed twelve existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies. The Litchfield-Kent (L04); Mohawk Mountain (L12); Pine Meadows (L14); and North Kent (L17) sites will be presented at a future Council meeting after requested information is received.

The proposed modifications are to be implemented as specified here and in your notice dated November 20, 2001. 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. These facilities have 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. 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,

Mortimer A. Gelston
Chairman

MAG/laf

c: See attached list

Honorable John F. Arcelaschi, Mayor, Town of Winchester
Anthony Cannavo, Planning and Zoning Chairman, Town of Winchester
Margaret A. Johnson, Town Manager, Town of Winchester
Honorable Rosalie G. Loughran, Chairman of the Town Council, Town of Watertown
Mary Barton, Zoning Enforcement Officer, Town of Watertown
Charles T. O'Conner, Jr., Town Manager, Town of Watertown
Honorable David C. Mischke, Mayor, Town of Plymouth
William Kuehn, Town Planner, Town of Plymouth
Honorable Richard W. Crane, First Selectman, Town of Woodbury
Christopher S. Wood, Town Planner, Town of Woodbury
Honorable Arthur J. Peitler, Mayor, Town of New Milford
David, N. Hubbard, Planning and Econ. Director, Town of New Milford
Honorable Dolores R. Schiesel, First Selectman, Town of Kent
Judith Wick, Zoning Enforcement Officer, Town of Kent
Honorable James P. O'Leary, First Selectman, Town of Goshen
Martin Connor, Town Planner, Town of Goshen
Honorable Katherine L. Rieger, First Selectman, Town of New Hartford
Karl Nilsen, Zoning Enforcement Officer, Town of New Hartford
Honorable Michael D. Fox, First Selectman, Town of Barkhamsted
Karl Nilsen, Zoning Enforcement Officer, Town of Barkhamsted
Honorable P. Robert Moeller, First Selectman, Town of Sharon
Elizabeth H. Casey, Zoning Enforcement Officer, Town of Sharon
Honorable Martin J. Foncello, Jr., First Selectmen, Town of Brookfield
Clare Ann Walsh, Land Use Enforcement Officer, Town of Brookfield
Heather Paton, Land Use Office, Town of Brookfield

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DAVID E. WORBY**

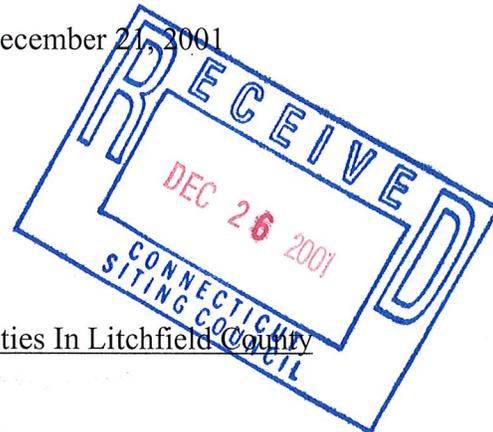
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THOMAS M. BLOOMER
JOSEPH P. CARLUCCI
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ROBERT FEDER
CHRISTOPHER B. FISHER (also CT)
ANTHONY B. GIOFFRE III (also CT)
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KAREN G. GRANIK
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KENNETH F. JURIST
MICHAEL L. KATZ (also NJ)
JOSHUA E. KIMERLING (also CT)
DANIEL F. LEARY (also CT)
BARRY E. LONG

December 21, 2001

VIA FEDERAL EXPRESS

Robert Mercier
Siting Analyst
Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051



Re: AT&T Exempt Modification Filings For Facilities In Litchfield County

Dear Mr. Mercier:

On behalf of Litchfield Acquisition Corporation d/b/a AT&T Wireless ("AT&T") enclosed please find additional information that you had requested with respect to the Notice of Exempt Modifications that were filed with the Council by Edwards & Kelcey on November 27, 2001:

1. As noted in our December 10, 2001 correspondence with respect to AT&T Site L04, Bulls Bridge Road, Kent, Edwards & Kelcey and AT&T have confirmed that based on their information, AT&T's antennas are at 152' centerline on this existing tower facility with SCLP (Cingular) located at the 170' level (this is consistent with the Council's inventory).
2. AT&T Site L12 Mohawk State Forest, West Goshen - AT&T Wireless believes that this tower is owned by AT&T Long Lines which no longer has a corporate relationship with AT&T Wireless.
3. AT&T Site L14, 127 New Hartford Road, Barkhamsted - Annexed hereto is a revised report by RF Emissions Experts, dated December 19, 2001 with AT&T, Nextel and Cingular included as approved by the Council in 1998. As you may know, Sprint is

CUDDY & FEDER & WORBY LLP

December 21, 2001

Page 2

currently processing an application for an amended certificate and has included calculations in their filing for all carriers should a modified facility be approved by the Council.

4. AT&T Site L17, Herb Road, Sharon – Annexed hereto is a revised report by RF Emissions Experts, dated December 20, 2001 including AT&T, Nextel and Cingular as approved by the Council in 1998. At this time the State Police are not proposing to use the tower and as such have been excluded from the calculations provided by AT&T.

We would appreciate it if these notices were placed on the next available agenda of the Council for acknowledgement.

Thank you for your continued assistance. Please do not hesitate to contact me, should you require any additional information or have any questions.

Very truly yours,



Christopher B. Fisher

cc: Carmen Chapman, AT&T
Richard Greene, E&K
Darryl Hendrickson, Bechtel



Engineering
 Consulting
 Construction
 Value Engineering
 Real Estate Services

AT&T-005-018-031-055-068-092-096-111-125-153-68-011121



November 27th, 2001

Mr. Mortimer A. Gelston, Chairman
 Connecticut Siting Council
 10 Franklin Square
 New Britain, CT. 06051

RE: Notice of Intent to modify an existing telecommunication facility at 4 Elkington Farm Road New Milford, CT. (Site ID: L06).

the AT&T Wireless 1900 MHZ System for

Dear Mr. Gelston:

On behalf of AT&T Wireless, Edwards and Kelcey is enclosing 20 copies of an RF study that was recently done on the above site as well as 20 - 1/2 size drawing of our modifications to the site.

copies of 1/2 size construction drawings showing
 ent on the cover of each drawing set stating that
 er structure. We will be removing one panel on
 ht.

The changes we are proposing will have no visual changes to the site. One antenna will be changed out and replaced with a new one, same shape, size and weight. New radio equipment will be installed in an enclosed shelter.

Mountain
 ld
 idows

The drawings were stamped by a structural engineer on the cover stating that no changes were required for this site.

nt

In conclusion Edwards and Kelcey on behalf of AT&T Wireless Service Petition for a declaratory ruling that no amendment to the Certificate of Environmental Compatibility and public need is required for modifications to a facility located at 4 Elkington Farm Road in New Milford, CT.

or the addition of the AT&T Wireless 1900 MHZ

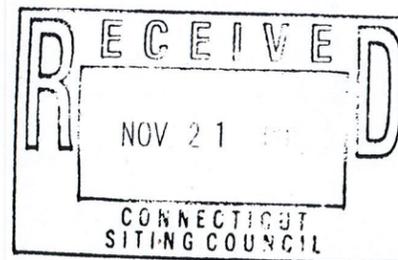
Thank you for your consideration of this matter

Very truly yours,

EDWARDS AND KELCEY

EM-AT&T-005-018-031-055-068-092-096-111-125-153-162-168-011121

Richard Greene
 Senior Wireless Designer



Cc: Rob Davis
 One Church Street, 3rd Floor
 New Haven, Connecticut 06510

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Engineering
Consulting
Construction
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Real Estate Services

EM-AT&T-005-018-031-055-068-092-096-111-125-153-
162-168-011121

November 20th, 2001

Mr. Mortimer A. Gelston, Chairman
Connecticut Siting Council
10 Franklin Square
New Britain, CT. 06051

RE: Request by Edwards And Kelcey for an order to approve the AT&T Wireless 1900 MHZ System for
cellsites named below

Dear Mr. Gelston:

Enclosed you will find 20 copies of 12 cellsite RF reports and 20 copies of ½ size construction drawings showing the changes we will be making at these sites. As well as a statement on the cover of each drawing set stating that these changes will have no additional structural effect on the tower structure. We will be removing one panel on each sector and replacing it with one the same size, shape and weight.

Cellsites numbers involved in this study are as follows:

L02 Plymouth	L09 Cornwall
L03 Watertown	L12 Mohawk Mountain
L04 Litchfield-Kent	L13 Brookfield
L05 Winstead	L14 Pine Meadows
L06 New Milford	L16 Nepaug
L07 Woodbury	L17 North Kent

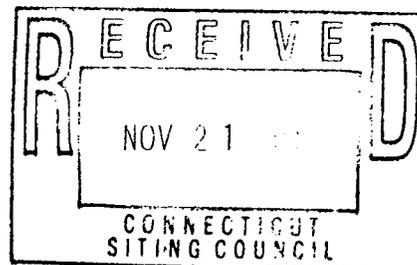
In conclusion we are requesting the approval by the siting council for the addition of the AT&T Wireless 1900 MHZ System.

Thank you for your consideration of this matter

Very truly yours,

EDWARDS AND KELCEY

Richard Greene
Senior Wireless Designer



One Church Street, 3rd Floor
New Haven, Connecticut 06510

Voice 203.772.1710
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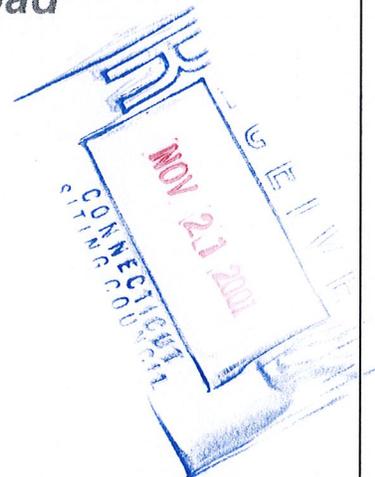
RF Emissions Experts
AN EDWARDS AND KELCEY SERVICE

***Analysis and Report
of RF Exposure Levels
and Compliance with
FCC Regulations***

***New Milford Site
4 Elkington Farm Road
New Milford, CT
Site ID: L06***

***Prepared for
AT&T Wireless***

November 15, 2001



EDWARDS AND KELCEY
299 Madison Avenue - PO Box 1936
Morristown, NJ 07962-1936

Tel: 973-267-8830 Fax: 973-267-3555
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PROPRIETARY – AT&T WIRELESS AND EDWARDS AND KELCEY

This document has been prepared for AT&T Wireless for its use in demonstrating RF compliance, as necessary, to federal, state and/or local authorities, and/or site landlords. Distribution beyond that described is prohibited without the express written consent of Edwards and Kelcey.



FCC RF COMPLIANCE ANALYSIS FOR

AT&T Wireless

New Milford, CT Monopole

This site compliance report is organized as follows:

- Site Technical Data
- Analysis Method and Assumptions
- The FCC RF Radiation Exposure Regulations
- Applicable Formulas
- Analysis Results
- Conclusion

SITE TECHNICAL DATA (adding one 1900 MHz antenna per sector to an existing 800 MHz facility – data reflects additional 1900 MHz system)

Facility type	Existing 150 ft. monopole
Transmit frequency band (proposed additional band)	1965 - 1970 MHz
Replacement Antenna types	Allgon 7250 & 7262
Antenna major dimension (length)	5.1 ft. / 4.3 ft.
Maximum antenna gain	16.5 dBd / 14.0 dBd
Antenna centerline height	120 ft. above ground level
Total number of 1900 MHz antennas added	3 (1 per sector)
Number of 1900 MHz channels per antenna	2 channels
Maximum ERP per channel	150 watts
Antenna downtilt	2 degrees (electrical)
Existing carriers on monopole	PageNet, SCLP, Sprint PCS, AT&T Wireless

ANALYSIS METHOD AND ASSUMPTIONS

Type of analysis	Maximum / ground-level
Area analyzed	0' to 500' from monopole
Classification of area	Uncontrolled (gen. pop.)
FCC Maximum Permissible Exposure (MPE) limit	1.000 mW/ cm ² (1900 MHz)
Mathematical model	Point source, far field
Assumed ground reflection factor	100%
Assumed human height	6'0"
Vertical antenna discrimination included	from Ant. Mfr. data

THE FCC RF RADIATION EXPOSURE REGULATIONS

This RF exposure analysis is based on the current FCC guidelines for human exposure to RF fields, which represent the consensus of federal agencies responsible for RF safety matters. Those agencies include the National Council on Radiation Protection and Measurements (NCRP), the Occupational Health and Safety Administration (OSHA), the National Institute for Occupational Safety and Health (NIOSH), the American National Standards Institute (ANSI), the Environmental Protection Agency (EPA), and the Food and Drug Administration (FDA). In formulating its guidelines, the FCC also considered input from the public and technical community – notably the Institute of Electrical and Electronics Engineers (IEEE).

The FCC's RF exposure guidelines are incorporated in Section 1.1301 *et seq* of its Rules and Regulations. Those guidelines specify maximum permissible exposure (MPE) levels for both occupational and general population exposure on a continuous basis, as well as averaging times for each of those categories when and if exposure exceeds the specified continuous exposure limits. (The concept of averaging time will be ignored in this analysis, as the results show the potential exposure levels are far below those permitted even for continuous exposure.)

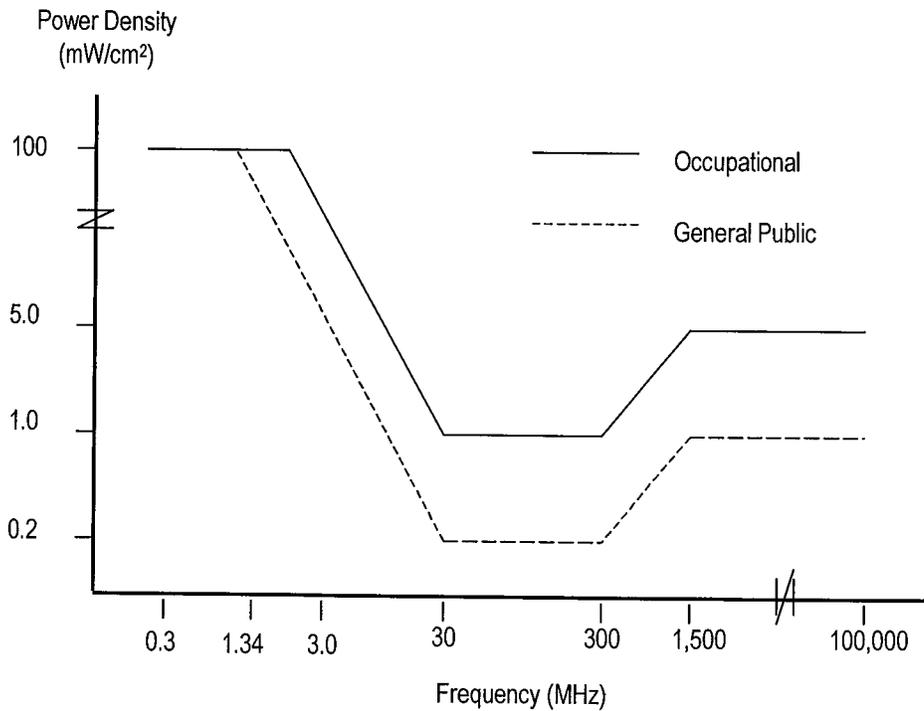
The specified continuous exposure MPE limits are based on known variation of human body susceptibility in different frequency ranges, and a Specific Absorption Rate (SAR) of 4 watts per kilogram, which is universally considered to accurately represent human capacity to dissipate incident RF energy (in the form of heat). The occupational MPE guidelines incorporate a safety factor of 10 or greater with respect to RF levels known to represent a health hazard, and an additional safety factor of five is applied to the MPE limits for general population exposure. Thus the general population MPE limit has a built-in safety factor of more than 50. Continuous exposure at levels equal to or below the applicable MPE limits is considered to result in no adverse health effects on humans.

The reason for *two* tiers of MPE limits is based on an understanding and assumption that members of the general public are unlikely to have had appropriate RF safety training and may not be aware of the exposures they receive; occupational exposure in controlled environments, on the other hand, is assumed to involve individuals who have had such training, are aware of the exposures, and know how to maintain a safe personal work environment.

The FCC's RF exposure limits are expressed in two equivalent forms, using alternative units of field strength (expressed in volts per meter, or V/m), and power density (expressed in milliwatts per square centimeter, or mW/cm²). The more popularly used reference unit is power density, as it is more easily understood. One milliwatt per square centimeter is approximately the energy impinging on an area roughly one-fourth the size of a dime from a light bulb emitting ten thousand times less than the energy of a common 100-watt bulb. The table below lists the FCC limits for both occupational and general population exposure to different radio frequencies.

Frequency Range (F) (MHz)	Occupational Exposure (mW/cm ²)	General Public Exposure (mW/cm ²)
0.3 - 1.34	100	100
1.34 - 3.0	100	180 / F ²
3.0 - 30	900 / F ²	180 / F ²
30 - 300	1.0	0.2
300 - 1,500	F / 300	F / 1500
1,500 - 100,000	5.0	1.0

The figure below provides a graphical illustration of both the FCC's occupational and general population MPE limits.



FCC MPE limits – graphical representation

The FCC makes it clear that the MPE limits apply only in accessible areas. Fundamentally, in areas that are considered normally inaccessible, the exposure issue is moot.

APPLICABLE FORMULAS

According to FCC OET Bulletin 65, different mathematical models apply to different distances around an antenna. At the height of the antenna, the breakpoint is the “far-field distance”, calculated as the ratio of the square of the major dimension of the antenna divided by the signal wavelength. Beyond the far-field distance at the height of the antenna, as well as at ground-level underneath the antenna, a “far-field point source” model applies; within that distance, a “near-field cylindrical model applies. The subsections below provide background on the two applicable models in the 1900 MHz band.

Far-Field Point Source Model

$$(1) \quad S \text{ [mW/cm}^2\text{]} = (4 * \text{EIRP}_{\text{max}} * \text{VertAntDisc}(\phi)) / (4 * \pi * R^2_{\text{cm}})$$

$$(2) \quad \text{FCC MPE limit} = 1.000 \text{ mW/cm}^2$$

$$(3) \quad \text{MPE}\% = 100 * (S / 1.000)$$

where:

S	=	Calculated power density
4 (in numerator)	=	100% field ground reflection effect (has $[1 + 1]^2 = 4$ effect on power density)
EIRP _{max}	=	Maximum effective isotropically radiated power (Note: EIRP is 64% higher than ERP, which is referenced to a half-wave dipole)
VertAntDisc(ϕ)	=	Numeric factor for antenna discrimination (EIRP reduction) in the vertical plane, applicable at downward angle ϕ to a 6' human standing on ground, calculated at distances from 0' to 500' away from the antenna
R	=	Straight-line distance from antenna to 6' human
MPE%	=	Calculated exposure level, as a percentage of the FCC MPE limit for continuous exposure of the general population

Near-Field Cylindrical Model

- (1) $S \text{ [mW/cm}^2\text{]} = (P_i * ACF / (2 \pi R h))$
- (2) FCC MPE limit = 1.000 mW/cm²
- (3) MPE% = 100 * (S / 1.000)

where:

S	=	Calculated power density
P _i	=	Total power input to the antenna, in mW
ACF	=	Antenna correction factor (adjustment to near-field power density calculation to compensate for the antenna mounting height above ground level and resulting partial-body exposure; see Richard Tell article listed in the References)
R	=	Straight-line distance from antenna to 6' human
h	=	Subtended height of the antenna, in cm
MPE%	=	Calculated exposure level, as a percentage of the FCC MPE limit for continuous exposure of the general population

ANALYSIS RESULTS – GROUND-LEVEL

AT&T Wireless will add three (3) 1900 MHz antennas (one in each of three sectors) to a facility presently transmitting in the 800 MHz band. This analysis will reflect the additional RF emissions from the 1900 MHz antennas.

The table on the following page summarizes the results of the calculations using the site data, method and far-field point source formula described above. Note that the information on the vertical antenna discrimination has been taken from the antenna manufacturer's specification sheets. In addition, note that while the tabular distances are listed in feet, the calculations translate these units into centimeters, to match the FCC specification of MPE units. Also note that the value for 'G dist' is the distance along the ground in feet, from the base of the monopole.

1900 MHz Antenna Array (AT&T Wireless)					
G dist	R dist	V angle	V disc	mW/cm ²	GPMPE%
0	111.0	90.0	0.025	0.0003	0.034
20	112.8	79.8	0.025	0.0003	0.033
40	118.0	70.2	0.025	0.0003	0.030
60	126.2	61.6	0.025	0.0003	0.027
80	136.8	54.2	0.020	0.0002	0.018
100	149.4	48.0	0.020	0.0002	0.015
120	163.5	42.8	0.020	0.0001	0.013
140	178.7	38.4	0.020	0.0001	0.011
160	194.7	34.8	0.020	0.0001	0.009
180	211.5	31.7	0.020	0.0001	0.008
200	228.7	29.0	0.020	0.0001	0.006
220	246.4	26.8	0.020	0.0001	0.006
240	264.4	24.8	0.020	0.0000	0.005
260	282.7	23.1	0.020	0.0000	0.004
280	301.2	21.6	0.020	0.0000	0.004
300	319.9	20.3	0.020	0.0000	0.003
320	338.7	19.1	0.040	0.0001	0.006
340	357.7	18.1	0.040	0.0001	0.005
360	376.7	17.1	0.040	0.0000	0.005
380	395.9	16.3	0.040	0.0000	0.004
400	415.1	15.5	0.040	0.0000	0.004
420	434.4	14.8	0.040	0.0000	0.004
440	453.8	14.2	0.040	0.0000	0.003
460	473.2	13.6	0.040	0.0000	0.003
480	492.7	13.0	0.040	0.0000	0.003
500	512.2	12.5	0.040	0.0000	0.003

Table 1. AT&T Wireless 1900 MHz ground level RF power density & percent-of-MPE calculations

CONCLUSION

The calculations presented above demonstrate that the maximum potential exposure level around the existing monopole induced by the additional 1900 MHz AT&T Wireless system is 0.0003 mW/cm^2 , which represents 0.034% of the FCC limit for continuous exposure of the general population.

On September 26, 2000 a 'Notice of Exempt Modification' was submitted to the Connecticut Siting Council by Springwiche Cellular on behalf of AT&T Wireless, the last collocator on the monopole. At that time, a collective worst case exposure level of 31.80% of the FCC standard was reported. (see attached) When added to the additional level expected from the proposed AT&T Wireless 1900 MHz system of 0.034%, the resultant cumulative level of 31.834% is still safe for continuous exposure of the general population based on FCC standards.

Therefore, the addition of the AT&T Wireless 1900 MHz system to the existing facility will not create a significant risk of cumulative exposure to RF emissions to the general population. And, according to the calculations, the AT&T Wireless facility is in compliance with the FCC regulations (FCC OET Bulletin 65) concerning the control of potential RF exposure.

CERTIFICATION

This report was prepared by George Burylo, Director – Engineering Services. The undersigned certifies that the analysis provided herein is consistent with the applicable FCC Rules and Regulations and accepted industry practice.



George Burylo

George Burylo
Director – Engineering Services

November 15, 2001

REFERENCES

47 CFR, FCC Rules and Regulations, Section 1.1301 *et seq.*

FCC Second Memorandum Opinion and Order and Notice of Proposed Rulemaking (FCC 97-303), *In the Matter of Procedures for Reviewing Requests for Relief From State and Local Regulations Pursuant to Section 332(c)(7)(B)(v) of the Communications Act of 1934 (WT Docket 97-192), Guidelines for Evaluating the Environmental Effects of Radiofrequency Radiation (ET Docket 93-62), and Petition for Rulemaking of the Cellular Telecommunications Industry Association Concerning Amendment of the Commission's Rules to Preempt State and Local Regulation of Commercial Mobile Radio Service Transmitting Facilities*, released August 25, 1997.

FCC First Memorandum Opinion and Order, ET Docket 93-62, *In the Matter of Guidelines for Evaluating the Environmental Effects of Radiofrequency Radiation*, released December 24, 1996.

FCC Report and Order, ET Docket 93-62, *In the Matter of Guidelines for Evaluating the Environmental Effects of Radiofrequency Radiation*, released August 1, 1996.

FCC Office of Engineering and Technology (OET) Bulletin 65, "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields", Edition 97-01, August 1997.

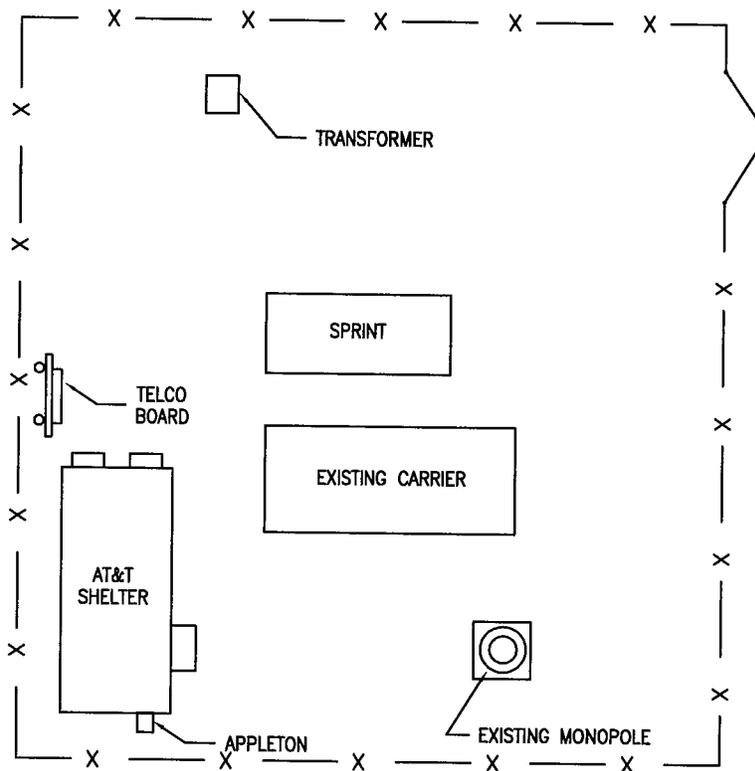
FCC Office of Engineering and Technology (OET) Bulletin 56, "Questions and Answers About Biological Effects and Potential Hazards of Radiofrequency Electromagnetic Fields", Fourth Edition, August 1999.

Richard Tell, "CTIA's EME Design and Operation Considerations for Wireless Antenna Sites", November 15, 1996.

Site Data

299 Madison Avenue, PO Box 1936
Morristown, New Jersey 07962-1936

Tel 973.267.8830 x1250
Fax 973.267.3555
Email burylo@ekmail.com
Web www.ekcorp.com



SITE ID NO:
 Designed by:
 Drawn by:
 Checked by:
 Approved by:



AT&T
 WIRELESS COMMUNICATIONS FACILITY

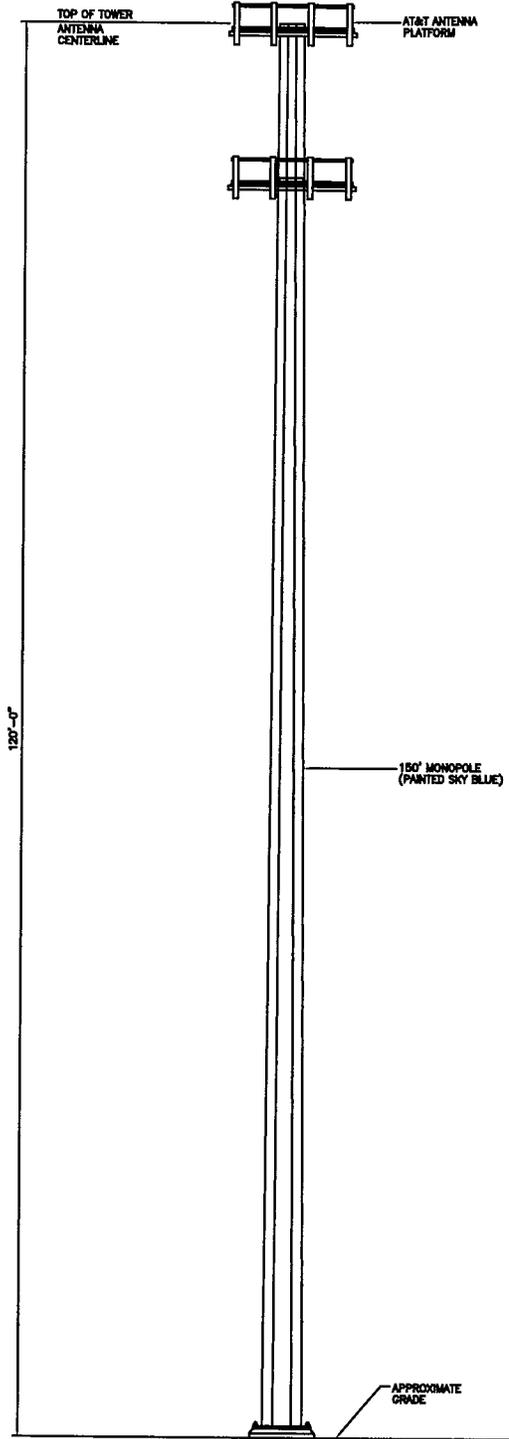
SITE ADDRESS:
NEW MILFORD
4 ELKINGTON FARM ROAD
NEW MILFORD, CT

REV.	DATE:	DESCRIPTION

Scale: _____ Date: 11/05/01

Job No. _____ File No. _____

Dwg. No.
SK-1
 Dwg. of 1



SITE ID NO:
 Designed by:
 Drawn by:
 Checked by:
 Approved by:

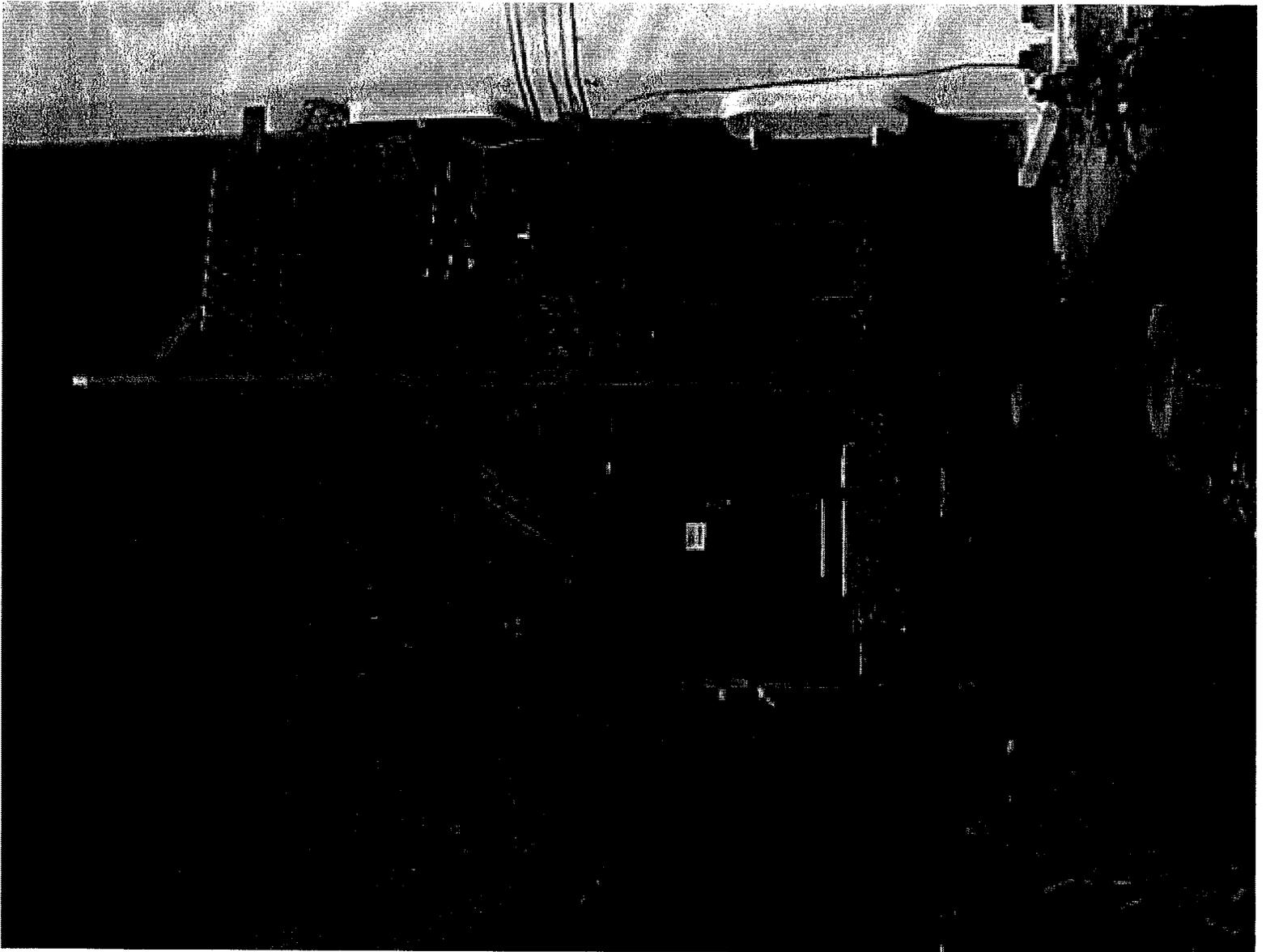


AT&T
 WIRELESS COMMUNICATIONS FACILITY

SITE ADDRESS: **NEW MILFORD**
4 ELKINGTON FARM ROAD
NEW MILFORD, CT

REV.	DATE:	DESCRIPTION
Scale:	Date: 11/05/01	
Job No.	File No.	

Dwg. No.
SK-2
 Dwg. of 1





L 0 6

500 Enterprise Drive
Rocky Hill, Connecticut 06067-3900
Phone: (860) 513-7730
Fax: (860) 513-7614

Peter W. van Wilgen
Director – Real Estate Operations

RECEIVED

SEP 28 2000

CONNECTICUT
SITING COUNCIL

September 26, 2000

Honorable Joan B. Taf, Mayor
Town Hall
10 Main Street
New Milford, Connecticut 06776

Re: Notice of Exempt Modification – Springwich Cellular Limited Partnership Wireless Telecommunications Tower Facility, 4 Elkington Farm Road, New Milford, Connecticut. (Docket No. 138)

Dear Ms. Taf:

Springwich Cellular Limited Partnership (“SCLP”) intends to allow AT&T Wireless Services to install cellular antennas and associated equipment at an existing telecommunications tower facility at 4 Elkington Farm Road, New Milford, Connecticut. SCLP owns and operates the facility, and leases the land from the Canterbury School, Inc.

A Notice of Exempt Modification has been filed with the Connecticut Siting Council as required by Regulations of Connecticut State Agencies (“R.C.S.A.”) Section 16-50j-73. Please accept this letter as notification to the Town of New Milford under Section 16-50j-73 of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2).

The attached letter fully sets forth the SCLP proposal. However, if you have any questions or require any further information on the plans for the site or the Siting Council’s procedures, please contact the undersigned or Mr. Joel M. Rinebold, Executive Director of the Connecticut Siting Council, at (860) 827-2935.

Sincerely,

Peter W. van Wilgen
Director – Real Estate Operations

Enclosure



500 Enterprise Drive
Rocky Hill, Connecticut 06067-3900
Phone: (860) 513-7730
Fax: (860) 513-7614

Peter W. van Wilgen
Director – Real Estate Operations

September 26, 2000

Mr. Mortimer A. Gelston, Chairman
Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

Re: Notice of Exempt Modification – Springwich Cellular Limited Partnership Wireless Telecommunications Tower Facility, 4 Elkington Farm Road, New Milford, Connecticut. (Docket No. 138)

Dear Mr. Gelston:

Springwich Cellular Limited Partnership (“SCLP”) intends to allow Litchfield Acquisition Corporation, d/b/a AT&T Wireless Services (“AT&T”), to install cellular antennas and associated equipment at SCLP’s existing telecommunications tower facility at 4 Elkington Farm Road, New Milford, Connecticut. (This site is also known to the Connecticut Siting Council variously as “Aspetuck Avenue” and “Taylor Terrace.”) SCLP has authorized AT&T’s plans pursuant to mutually acceptable terms and conditions. SCLP leases the land from the Canterbury School, Inc.

Enclosed with this letter are a site location map, the proposed site plan, the proposed tower profile, and a structural analysis.

As shown on attached drawings and further described below, AT&T proposes to install antennas on the existing 150 foot monopole tower. AT&T also plans to construct an equipment shelter at the base of the tower.

Please accept this letter as notification, pursuant to R.C.S.A. Section 16-50j-73, of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2). In compliance with R.C.S.A. Section 16-50j-73, a copy of this letter is being sent to the Mayor of the Town of New Milford.

The existing facility consists of a 150 foot monopole with coordinates of 41° 35’ 28” North and 73° 24’ 36” West (NAD 83), an SCLP equipment building, and a Sprint Spectrum L.P. (“Sprint”) equipment pad with cabinets. The monopole tower currently supports antennas belonging to Pagenet at the 162 foot centerline level, SCLP at the 152.5 foot level, and Sprint at

EM-SCLP-046-000928

Post-it® Fax Note		10/1	10/1	Page 1
To	Atty Donaldson	From	Lisa	
Co./Dept.		Co.	CSC	
Phone #		Phone #		
Fax #		Fax #		

the 140 foot level. (Please note corrected SC figures as compared to EM-Sprint-096-0002 multiple carriers and will not require any str antennas. (See attached structural analysis.) The facility is enclosed by a chain link fence measuring approximately 98 feet x 77 feet.

AT&T proposes to install 3 flush-mounted panel-type antennas with the center of radiation at approximately 120 feet above ground level ("AGL"). AT&T also proposes to install an equipment shelter measuring 12 feet x 26 feet at the tower base. All work will be performed within the existing fenced compound.

The changes to the New Milford tower facility do not constitute a modification as defined in Connecticut General Statutes ("C.G.S.") Section 16-50i(d) because the general physical characteristics of the facility will not be significantly changed or altered. Rather, the planned changes to the facility fall squarely within those activities explicitly provided for in R.C.S.A. Section 16-50j-72(b)(2) because they will not result in any substantial adverse environmental effect.

1. The height of the tower will be unaffected.
2. The proposed changes will not affect the site boundaries. All construction will occur within the existing fenced compound.
3. The proposed additions will not increase the noise level at the existing facility by six decibels or more. Except for noise resulting from construction, the only additional sound will be from equipment cooling systems.
4. Operation of the additional antennas will not increase the total radio frequency electromagnetic radiation power density, measured at the tower base, to a level at or above the Connecticut and ANSI standard. A "worst-case" calculation in accordance with FCC OET Bulletin No. 65 for a point at the base of the tower is as follows:

Company	Height (feet)	Power Density (mW/cm ²)	Standard Limits (mW/cm ²)	% of Standard
Pagenet *	162	0.0521	0.6207	8.39
SCLP	152.5	0.0321	0.5867	5.47
Sprint	140	0.0878	1.0000	8.78
AT&T	120	0.0531	0.5793	9.16
Total				31.80%

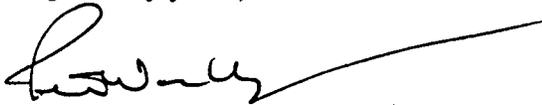
* Pagenet's antennas were omitted in EM-Sprint-096-000203.

As the table demonstrates, The collective "worst-case" exposure would be 31.80 % of the ANSI/IEE standard, as calculated for mixed frequency sites. Power density levels from shared use of the tower facility would thus be well below applicable ANSI/IEE standards.

For the foregoing reasons, SCLP respectfully submits that proposed changes to implement expanded shared use at the New Milford site constitute an exempt modification under R.C.S.A. Section 16-50j-72(b)(2).

Please feel free to call me at (860) 513-7730 with questions concerning this application. Thank you for your consideration in this matter.

Respectfully yours,



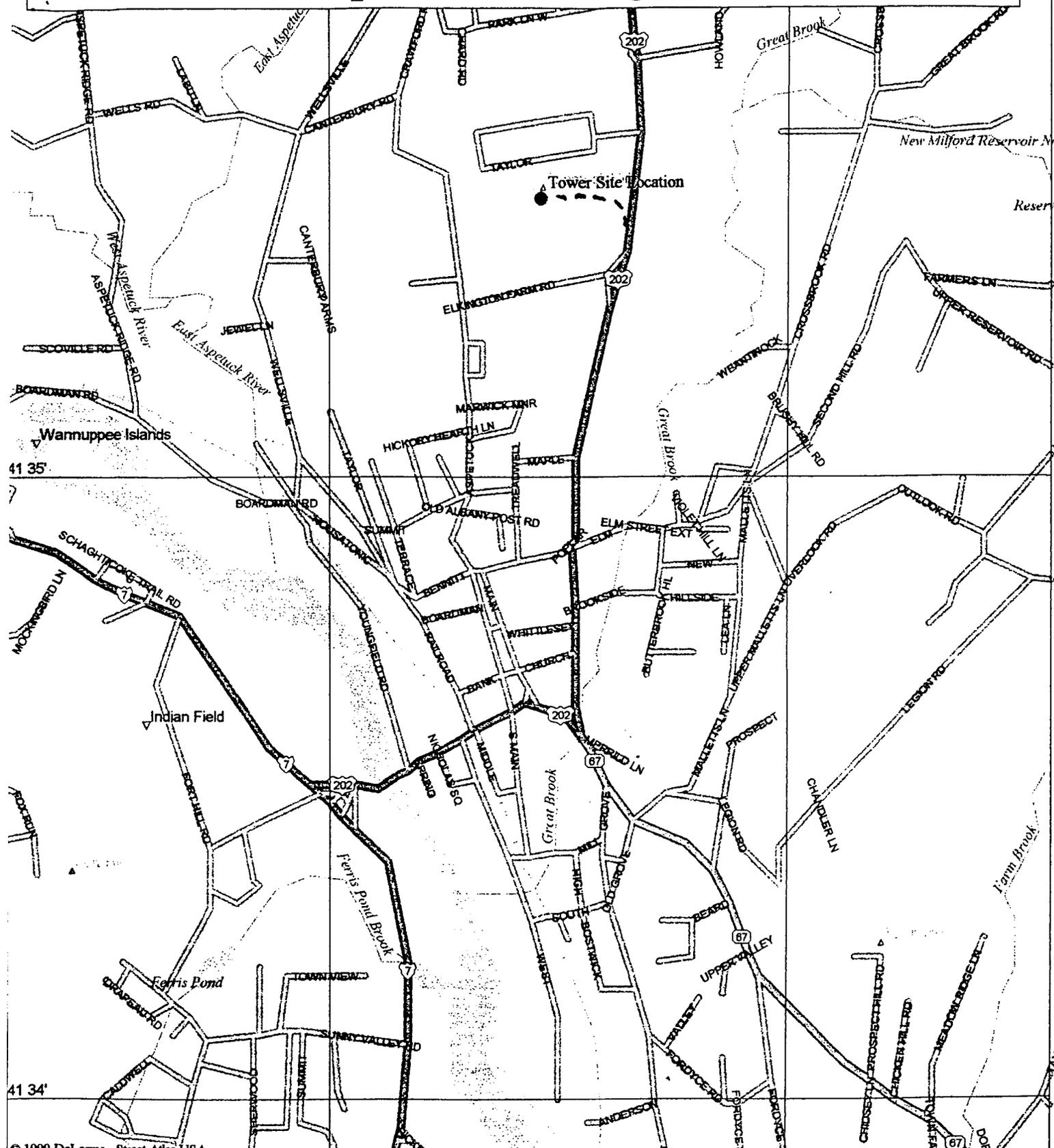
Peter W. van Wilgen
Director – Real Estate Operations

Enclosures

cc: Honorable Joan B. Taf, Mayor
Town Hall
10 Main Street
New Milford, Connecticut 06776

Enclosures

Location Map --- 4 Elkington Farm Road



© 1999 DeLorme, Street Atlas USA

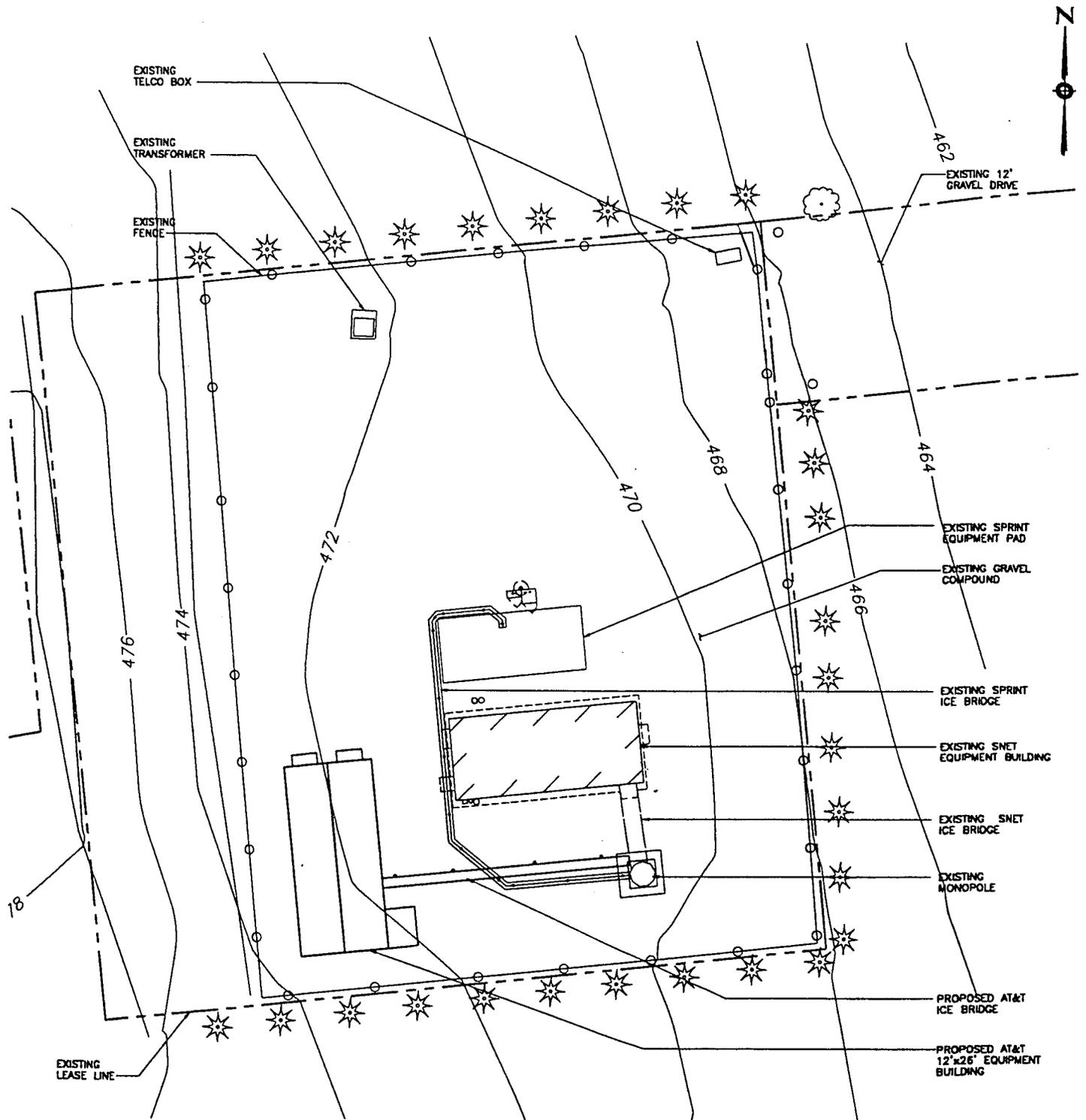
Mag 15.00
 Fri Sep 22 13:27 2000

Scale 1:15,625 (at center)

1000 Feet

500 Meters

-  Local Road
-  State Route



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

SITE ID NO:
L-06

Designed by:

Drawn by: JCF

Checked by:

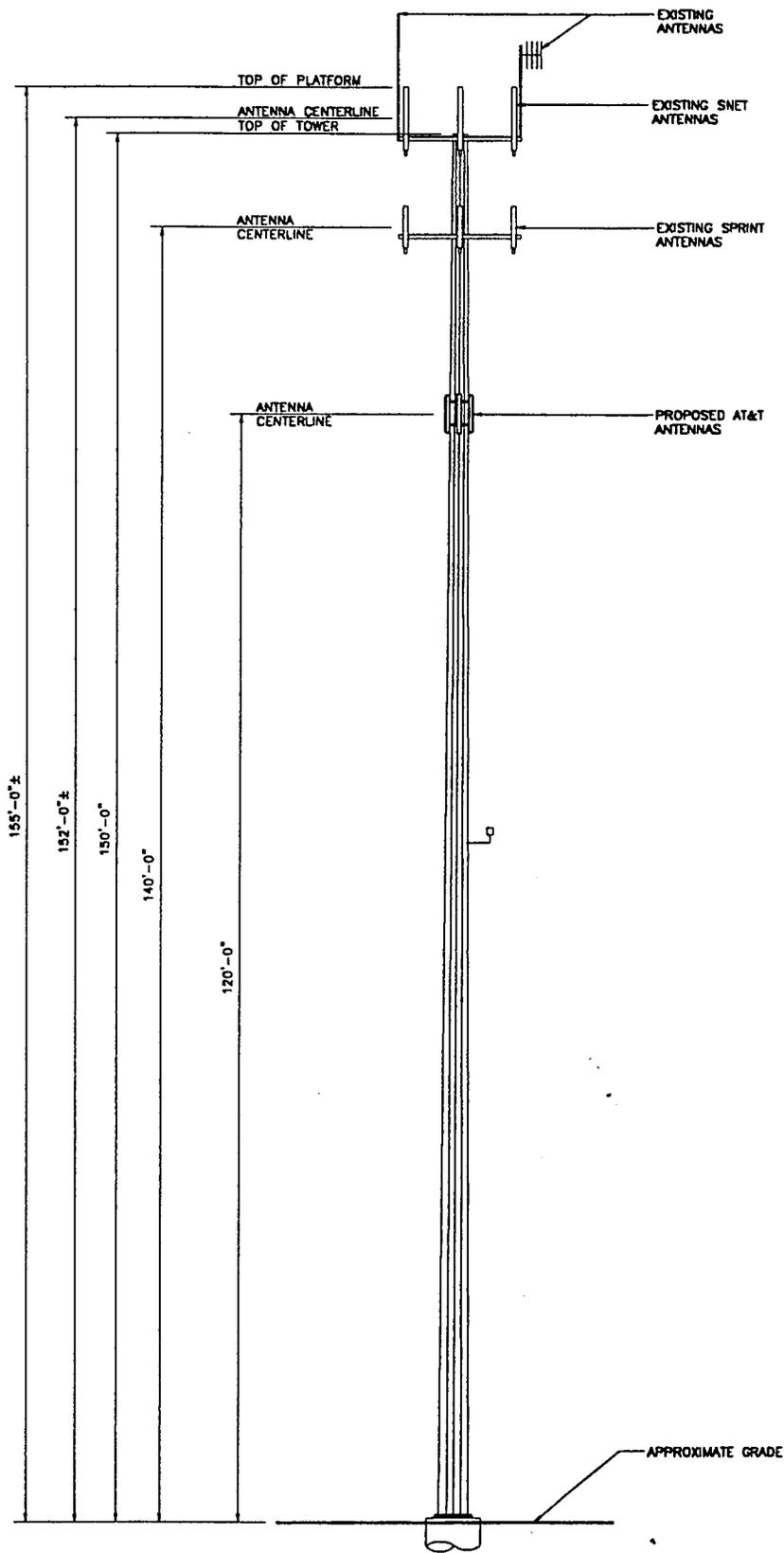
URS Greiner Woodward Clyde
A-E-S
500 ENTERPRISE DRIVE
ROCKY HILL, CONNECTICUT
1-(860)-528-8882

SPRINGWICH CELLULAR LIMITED PARTNERSHIP
AT&T WIRELESS SERVICES, INC.
UNMANNED WIRELESS COMMUNICATION EQUIPMENT SITE

SITE ADDRESS:
NEW MILFORD
ELKINGTON FARM ROAD
NEW MILFORD, CONNECTICUT

1	9-27-00	REVISIONS
REV.	DATE	DESCRIPTION
Scale: AS SHOWN		Date: 08-31-00
Job No. F301924.03		File No. SC-1

Dwg. No.
SC-1
Dwg. 1 of 2



1 TOWER ELEVATION
 SC-2 SCALE: 1" = 20'-0"

SITE ID NO:
L-06
 Designed by:
 Drawn by: JCF
 Checked by:

URS Greiner Woodward Clyde
A-ES
 500 ENTERPRISE DRIVE
 ROCKY HILL, CONNECTICUT
 1-(860)-529-8882

SPRINGWICH CELLULAR LIMITED PARTNERSHIP
AT&T WIRELESS SERVICES, INC.
 UNMANNED WIRELESS COMMUNICATION EQUIPMENT SITE
 SITE ADDRESS: **NEW MILFORD**
ELKINGTON FARM ROAD
NEW MILFORD, CONNECTICUT

REV.	DATE	DESCRIPTION
1	9-27-00	REVISIONS

Scale: AS SHOWN Date: 08-31-00
 Job No. F301924.03 File No. SC-2

Dwg. No.
SC-2
 Dwg. 2 of 2



September 27, 2000

Mr. Mortimer A. Gelston
Chairmen
Connecticut State Siting Council
10 Franklin Square
New Britain, CT 06051

**Reference: Structural Letter
Proposed Telecommunications Facility
AT&T Site No.: L-06
4 Elkington Farm Road
New Milford, Connecticut
F300001924.03/F12**

Dear Mr. Gelston:

URS Corporation AES (URS) has previously performed the structural analysis for existing 150' monopole located at the above referenced site. The monopole was manufactured by ITT Meyer, the date of fabrication is unknown. The monopole data was taken from Manzi Engineering located at 3 Cifre Lane, Plaistow, NH 03865; report dated April 12, 2000.

The purpose of this analysis was to evaluate the effect of AT&T's proposed antennas. Our analysis concluded that the structure has sufficient capacity for the imposed load by the new antenna arrangement below:

		<u>Centerline Elevation</u>
(9) ALP 9011 with (9) 1-5/8 coax cable within the monopole platform	SNET	@152.5' elevation
12' wide low profile platform running inside the monopole	SNET	@150' elevation
(1) Whip antenna with associated cable within the monopole		@162' elevation
(1) Yagi antenna with associated cable within the monopole		@ 159' elevation
(9) DB 970H 90 E-M (9) 1-5/8" coax cable within the monopole	Sprint	@ 140' elevation
10'-6" Low profile platform	Sprint	@ 140' elevation
(3) RS 90-05-00XX-2 (flushmount) with (9) 1-15/8" coax cable run outside perimeter of the monopole	AT&T	@120' elevation

URS Corporation
500 Enterprise Drive, Suite 3B
Rocky Hill, CT 06067
Tel: 860.529.8882
Fax: 860.529.3991

The above evaluation is based on requirements of EIA/TIA-222-F dated March 1996.

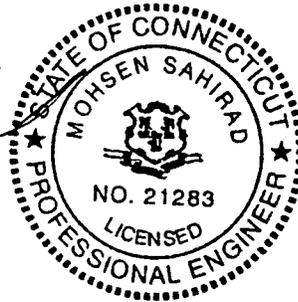
Please call if there are any questions.

Sincerely,

URS Corporation AES



Mohsen, Sahirad, P.E.
Senior Structural Engineer



MS/mks

cc: Michael Murphy/AT&T
Rene Bernier/Bechtel Corp.
Christopher Fisher/CF&W
Ignacio Artaiz/URS



STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

Ten Franklin Square
New Britain, Connecticut 06051
Phone: (860) 827-2935
Fax: (860) 827-2950

October 23, 2000

Peter W. van Wilgen
Springwich Cellular Limited Partnership
500 Enterprise Drive
Rocky Hill, CT 06067-3900

RE: **EM-SCLP-096-000928** – Springwich Cellular Limited Partnership (SCLP) notice of intent to modify an existing telecommunications facility located at 4 Elkington Farm Road, New Milford, Connecticut.

Dear Mr. van Wilgen:

At a public meeting held on Thursday, October 19, 2000, 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.

The proposed modifications are to be implemented as specified here and in your notice dated September 26, 2000. 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. 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,


Mortimer A. Gelston
Chairman

MAG/RKE/laf

- c: Honorable Arthur J. Peitler, Mayor, Town of New Milford
David N. Hubbard, Community Planning & Economic Development Director, Town of New Milford
George Doring, Zoning Enforcement Officer, Town of New Milford
Christopher B. Fisher, Esq., Cuddy & Feder
Michael Murphy, AT&T Wireless
Julie M. Cashin, Esq., Hurwitz & Sagarin LLC
Sam J. D'Agostino, PageNet, Inc.



STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

Ten Franklin Square
New Britain, Connecticut 06051
Phone: (860) 827-2935
Fax: (860) 827-2950

October 12, 2000

Honorable Arthur J. Peitler
Mayor
Town of New Milford
Town Hall
10 Main Street
New Milford, CT 06776

RE: **EM-SCLP-096-000928** – Springwich Cellular Limited Partnership (SCLP) notice of intent to modify an existing telecommunications facility located at 4 Elkington Farm Road, New Milford, Connecticut.

Dear Mayor Peitler:

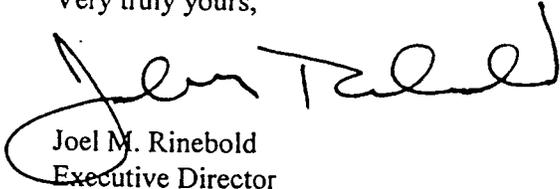
The Connecticut Siting Council (Council) received this request to modify an existing telecommunications facility, pursuant to Regulations of Connecticut State Agencies Section 16-50j-72.

The Council will consider this item at the next meeting scheduled for October 19, 2000, at 2:00 p.m. in Hearing Room Two, Ten Franklin Square, New Britain, Connecticut.

Please call me or inform the Council if you have any questions or comments regarding this proposal.

Thank you for your cooperation and consideration.

Very truly yours,



Joel M. Rinebold
Executive Director

JMR/RKE/laf

Enclosure: Notice of Intent



AT&T

AT&T WIRELESS SERVICES, LLC

SITE NUMBER:L06

SITE NAME: NEW MILFORD

DRAWING INDEX		REV.	DIRECTIONS	PROJECT INFORMATION
24623-313-CT-L06-01	TITLE SHEET	1	TAKE 84E, EXIT#9E TOWARDS DANBURY. MERGE ONTO I-84E. TAKE THE US-7 N/US-202E, EXIT# 7, ON THE LEFT TOWARDS BROOKFIELD/ NEWMILFORD. MERGE ONTO US-202E. BECOMES US-7N. TURN SLIGHT RIGHT TURN RIGHT ONTO BRIDGE ST/US-202/CT-87. TURN SLIGHT LEFT ONTO BRIDGE ST/US-202. TURN SLIGHT LEFT ONTO EAST ST/US-202. BECOMES POPLAR ST/US-202. TURN SLIGHT LEFT ONTO ELKINGTON FARM RD.	SCOPE OF WORK: REMOVE AND REPLACE EXISTING AT&T ANTENNAS WITH NEW GSM ANTENNAS & ASSOCIATED ITEMS AS SHOWN IN THE ATTACHED DRAWINGS
24623-313-CT-L06-02	SITE LAYOUT	0	<p style="text-align: center;">VICINITY MAP</p>	SITE ADDRESS: 4 ELKINGTON FARM ROAD NEW MILFORD, CT
24623-313-CT-L06-03	EQUIPMENT ROOM LAYOUT & NOTES	0		PROPERTY OWNER: NAV NAV NAV NAV
24623-313-CT-L06-04	ELEVATION AND ANTENNA AZIMUTH	0		CONTACT PERSON: NAV NAV
24623-313-CT-L06-05	ANTENNA SCHEMATIC AND BILL OF MATERIALS	1		APPLICANT: AT&T 15 EAST MIDLAND AVE PARAMUS, NJ 07652
24623-313-CT-L06-06	STANDARD DETAILS	0		LATITUDE: 41.59083 LONGITUDE: -73.40881 ELEVATION: 477' JURISDICTION: NAV TAX I.D. NUMBER: NAV CURRENT USE: WIRELESS TELECOMMUNICATIONS FACILITY PROPOSED USE: NO CHANGE ZONING DISTRICT: NAV STRUCTURE HEIGHT: 122'± ANTENNA RAD CENTER: 120'
24623-313-CT-L06-07	STANDARD DETAILS	0		RF DATASHEET: 06/26/01 (REV. 1) RF ENGINEER: TONY HOUWELING LUCENT TECHNOLOGIES (973) 386-8821
STRUCTURAL REVIEW				ANTENNA LOCATION: MONOPOLE EQUIPMENT LOCATION: SHELTER GENERAL CONTRACTOR: EK TECHNOLOGY THOMAS E. SMITH 299 MADISON AVENUE MORRISTOWN, NJ 07962 973-267-8830
EXISTING TOWER/BUILDING AND FOUNDATION (AS APPLICABLE) HAVE BEEN EVALUATED FOR REPLACEMENT/ADDITION OF ANTENNAS, COAX CABLES, & EQUIPMENT AND NO MODIFICATIONS TO THE TOWER/BUILDING AND FOUNDATION ARE REQUIRED.			NOT TO SCALE	

THOMAS R. CABANA
P.E. No. 21784
11/19/01 DATE

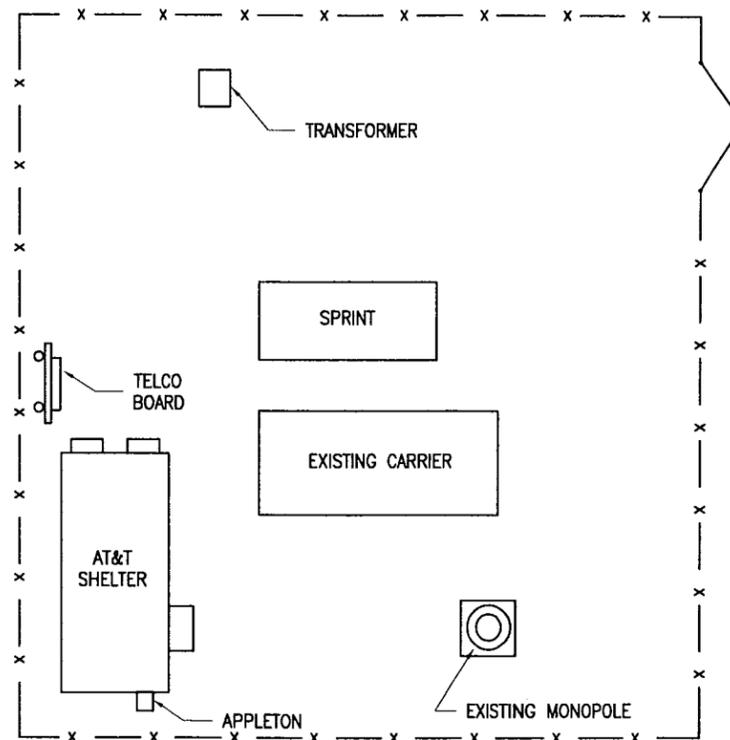
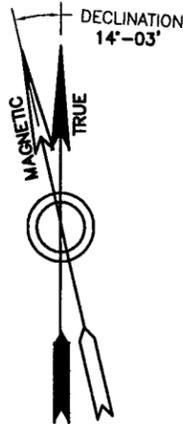
Edwards AND Kelcey
EDWARDS AND KELCEY, INC.
1247 WARD AVENUE
WEST CHESTER, PA 19380-4259
E & K PROJ.#: 020015.011
CONTACT: ROB DAVIS
PHONE: (401) 272-1969

SITE NAME: NEW MILFORD
SITE#: CT-L06
ELKINGTON FARM RD
NEW MILFORD, CT

AT&T
15 EAST MIDLAND AVE.
PARAMUS, NJ 07652

NO.	DATE	REVISIONS	BY	CHK	APP'D
1	11/16/01	REVISED BILL OF MATERIALS	DPD	PDC	
0	09/07/01	ISSUED FOR CONSTRUCTION	DPD	PDC	
SCALE AS SHOWN		DESIGNED	DRAWN		

CT-L06 - NEW MILFORD		
TITLE SHEET		
JOB NO.	DRAWING NUMBER	REV
24623-313	CT-L06-01	1



NOTE:
COMPLETENESS AND ACCURACY OF LOCATION AND DEPTH OF UNDERGROUND UTILITIES OR STRUCTURES CANNOT BE GUARANTEED. LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES AND FACILITIES MUST BE VERIFIED PRIOR TO ANY EARTH MOVING ACTIVITIES.

SITE PLAN
NOT TO SCALE

1
02



THOMAS R. CABANA
P.E. No. 21784
11/19/01 DATE

**Edwards
AND Kelcey**

EDWARDS AND KELCEY, INC.
1247 WARD AVENUE
WEST CHESTER, PA 19380-4259

E & K PROJ.#: 020015.011
CONTACT: ROB DAVIS
PHONE: (401) 272-1969

SITE NAME: NEW MILFORD
SITE#: CT-L06
ELKINGTON FARM RD
NEW MILFORD, CT



AT&T
15 EAST MIDLAND AVE.
PARAMUS, NJ 07652

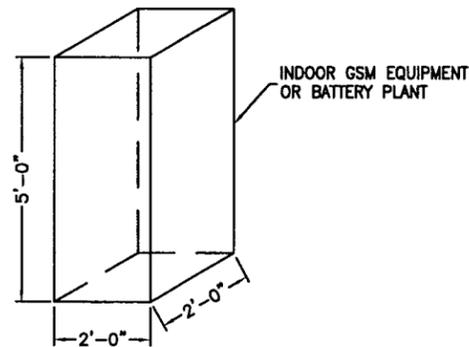
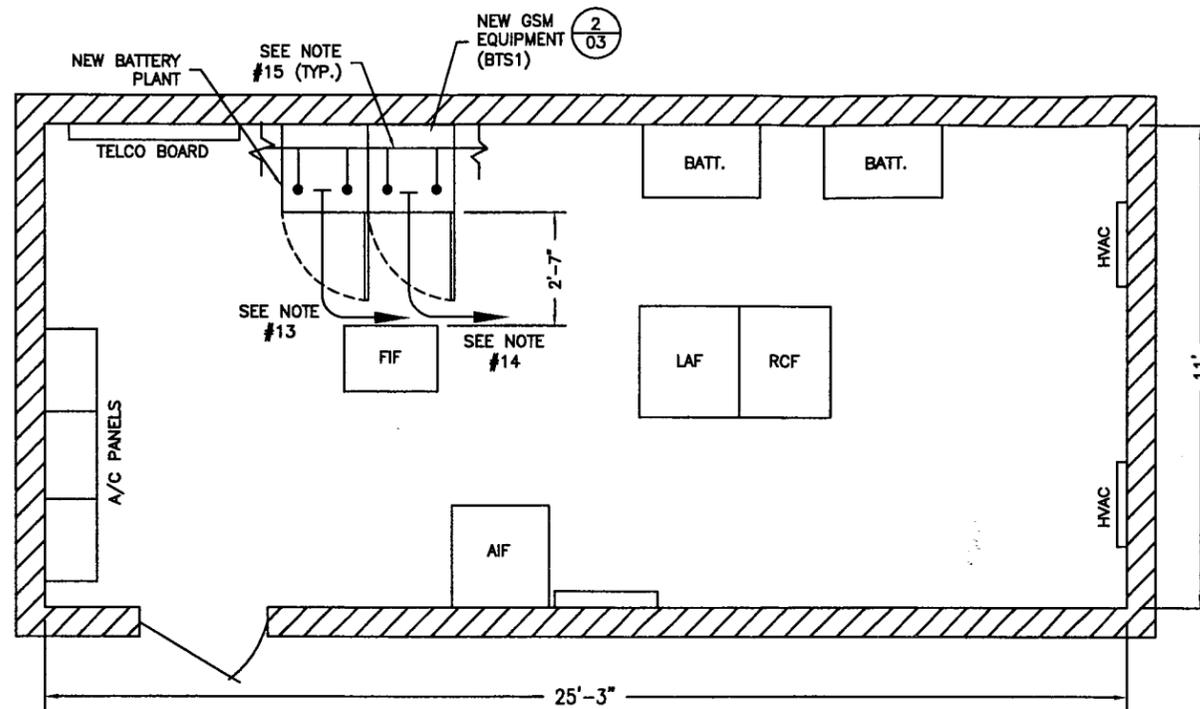
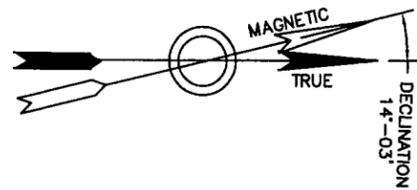
NO.	DATE	REVISIONS	BY	CHK	APP'D
1	11/16/01	REVISED BILL OF MATERIALS	DPD	PDC	
0	09/07/01	ISSUED FOR CONSTRUCTION	DPD	PDC	

SCALE AS SHOWN DESIGNED DRAWN

CT-L06 - NEW MILFORD

SITE LAYOUT

JOB NO.	DRAWING NUMBER	REV
24623-313	CT-L06-02	1



*NOTE:
DIMENSION FOR REFERENCE ONLY.
3'-0" MINIMUM CLEARANCE REQUIRED.

EQUIPMENT PLAN
NOT TO SCALE (1/03)

TYPICAL LUCENT GSM
EQUIPMENT/BATTERY PLANT (2/03)
NOT TO SCALE

GENERAL NOTES:

- ALL WORK SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF NATIONAL STATE, CITY, AND LOCAL CODES, STANDARDS, AND AMENDMENTS.
- INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM INFORMATION AND DRAWINGS PROVIDED BY CONTRACTOR. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
- SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS ARE INTENDED AS GUIDELINES ONLY AND MUST BE VERIFIED.
- ALL ITEMS OTHER THAN WHAT IS NOTED IN THE BILL OF MATERIALS FOR ANTENNAS, WILL BE PROVIDED BY THE SUBCONTRACTOR.
- IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR.
- ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF SPECIFICATIONS LISTED BELOW.
- FIELD ROUTE ALL CONDUITS, CABLES, ETC. AS REQUIRED. CONFIRM THE EXACT ROUTING WITH THE ON-SITE CONTRACTOR CONSTRUCTION MANAGER PRIOR TO THE START OF WORK.
- ALL DAMAGE TO THE EXISTING STRUCTURE DURING THE CELL SITE UPGRADE MUST BE MADE GOOD TO THE PRE-CONSTRUCTION CONDITION OR BETTER.
- REMOVE AND CLEAN UP ANY DEBRIS OR MATERIAL FROM THE SITE THROUGHOUT THE DURATION OF THE CONTRACT UPON COMPLETION OF THE WORK AS DIRECTED BY THE CONTRACTOR.
- THIS CELL SITE IS IN FULL COMMERCIAL OPERATION, THE SUBCONTRACTOR IS NOT TO DISRUPT THE EXISTING SITE'S NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR AND SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
- SINCE THIS SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE ADVISED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.
- WHEN OTHER CARRIERS ARE PRESENT ON THE SAME STRUCTURE MAINTAIN 10' HORIZONTAL SEPARATION AND 5' VERTICAL SEPARATION BETWEEN CARRIERS.
- POWER:
SUBCONTRACTOR TO PROVIDE & INSTALL 3 DP 20 AMP BREAKERS. SUBCONTRACTOR TO FIELD ROUTE 6-#10 STRANDED WIRES AND 1-#10 STRANDED GREEN INSULATED GROUND WIRE 1-INCH EMT FROM AC PANEL TO A 8X8X4-INCH JUNCTION BOX NEAR EQUIPMENT LOCATION. SUBCONTRACTOR TO RUN FLEX CONDUIT FROM JUNCTION BOX TO 3- FEET ABOVE GROUND.
- TELCO:
SUBCONTRACTOR TO PROVIDE, INSTALL, & FIELD ROUTE (1.5 MBIT/s) CAT 5E T-1 LINE FROM THE NETWORK INTERFACE UNIT (NIU) TO LUCENT BTS CABINET PER DETAIL 1016A. CONNECTION TO CABINET WILL BE MADE BY LUCENT.
- GROUND:
SUBCONTRACTOR SHALL PROVIDE PIG TAIL WITH 2-HOLE LUG (DETAIL 508) FOR GROUNDING THE LUCENT GSM (BTS AND POWER) CABINET FRAMES TO EXISTING HALO GROUND RING USING #6 AWG STRANDED AND INSULATED GREEN COPPER WIRE WITH COMPRESSION TYPE CONNECTOR. IF CONNECTION TO HALO IS NOT FEASIBLE, PROVIDE #6 AWG STRANDED & INSULATED GREEN COPPER WIRE FROM LUCENT GSM (BTS AND POWER) CABINET FRAMES TO MASTER GROUND BAR (DETAIL 509) AND TERMINATE WITH 2-HOLE LUG PER DETAIL 508. PROVIDE 2 GROUNDS PER CABINET. CONNECTION TO CABINET WILL BE MADE BY LUCENT.
- CLEARANCE:
GSM CABINET SHOULD HAVE A MINIMUM OF 36-INCH FRONT CLEARANCE.

REFERENCE SPECIFICATIONS:

- 24623-033-3PS-A00Z-00002, SCOPE OF WORK (EXHIBIT "D") FOR GENERAL CONSTRUCTION SERVICES.
- 24623-033-3PS-A00Z-00005, (EXHIBIT "E") FOR GENERAL CONSTRUCTION SERVICES.



THOMAS R. CABANA
P.E. No. 21784 11/19/01 DATE

CT-L06 - NEW MILFORD

EQUIPMENT ROOM
LAYOUT AND NOTES

JOB NO.	DRAWING NUMBER	REV
24623-313	CT-L06-03	1

**Edwards
AND Kelcey**
EDWARDS AND KELCEY, INC.
1247 WARD AVENUE
WEST CHESTER, PA 19380-4259
E & K PROJ.#: 020015.011
CONTACT: ROB DAVIS
PHONE: (401) 272-1969

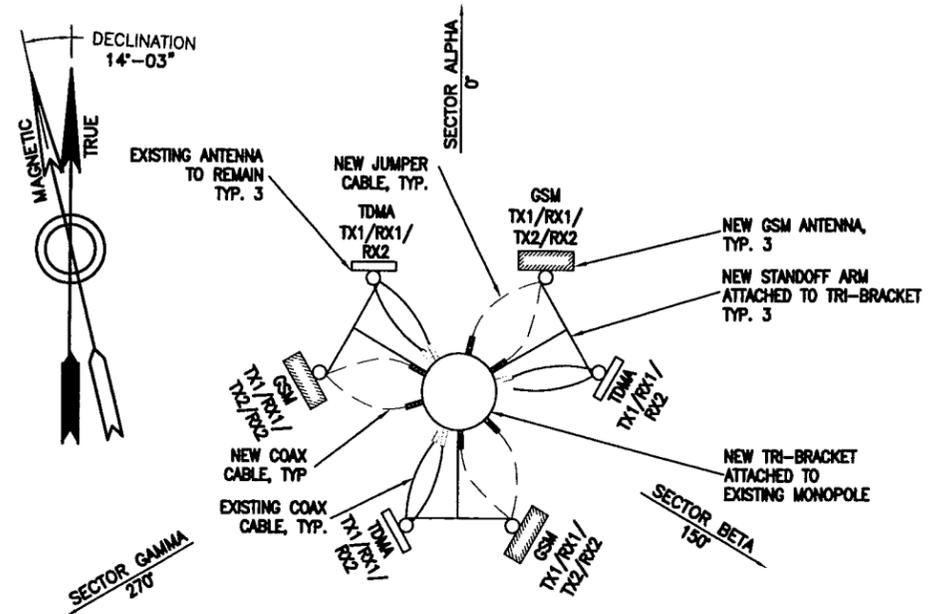
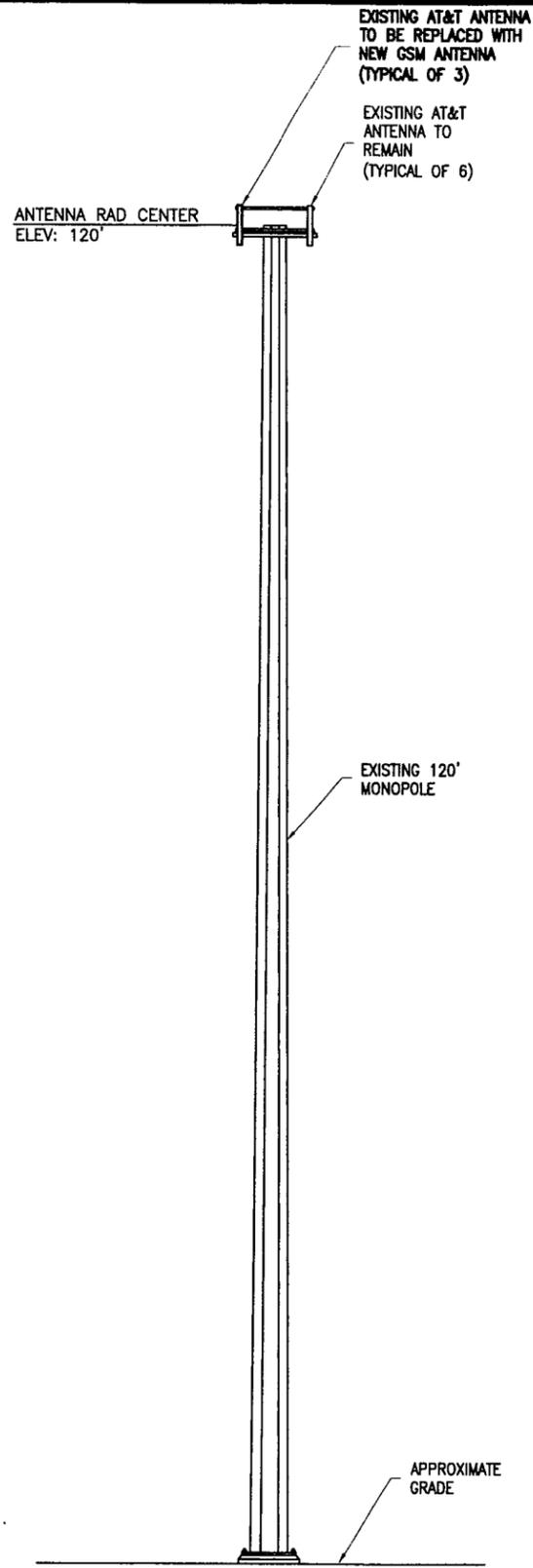
SITE NAME: NEW MILFORD
SITE#: CT-L06
ELKINGTON FARM RD
NEW MILFORD, CT



AT&T
15 EAST MIDLAND AVE.
PARAMUS, NJ 07652

NO.	DATE	REVISIONS	BY	CHK	APP'D
1	11/18/01	REVISED BILL OF MATERIALS	DPD	PCD	
0	08/07/01	ISSUED FOR CONSTRUCTION	DPD	PCD	

SCALE AS SHOWN DESIGNED DRAWN



- NOTE:
- SEE SHEET 05 FOR SPECIFIC ANTENNA/COAX CONFIGURATION.
 - ROUTE NEW COAX CABLES ALONGSIDE EXISTING CABLES UNLESS OTHERWISE NOTED ON PLANS.

TYPICAL ANTENNA ORIENTATION PLAN
NOT TO SCALE

1
4

ELEVATION
NOT TO SCALE

1
04



THOMAS R. CABANK
P.E. No. 21784 11/19/01 DATE

CT-L06 - NEW MILFORD

ELEVATION AND
ANTENNA AZIMUTH

JOB NO.	DRAWING NUMBER	REV
24623-313	CT-L06-04	1

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AND Kelcey**

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1247 WARD AVENUE
WEST CHESTER, PA 19380-4259

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ELKINGTON FARM RD
NEW MILFORD, CT



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0	09/07/01	ISSUED FOR CONSTRUCTION	DPD	PDC	
SCALE		AS SHOWN	DESIGNED	DRAWN	

6

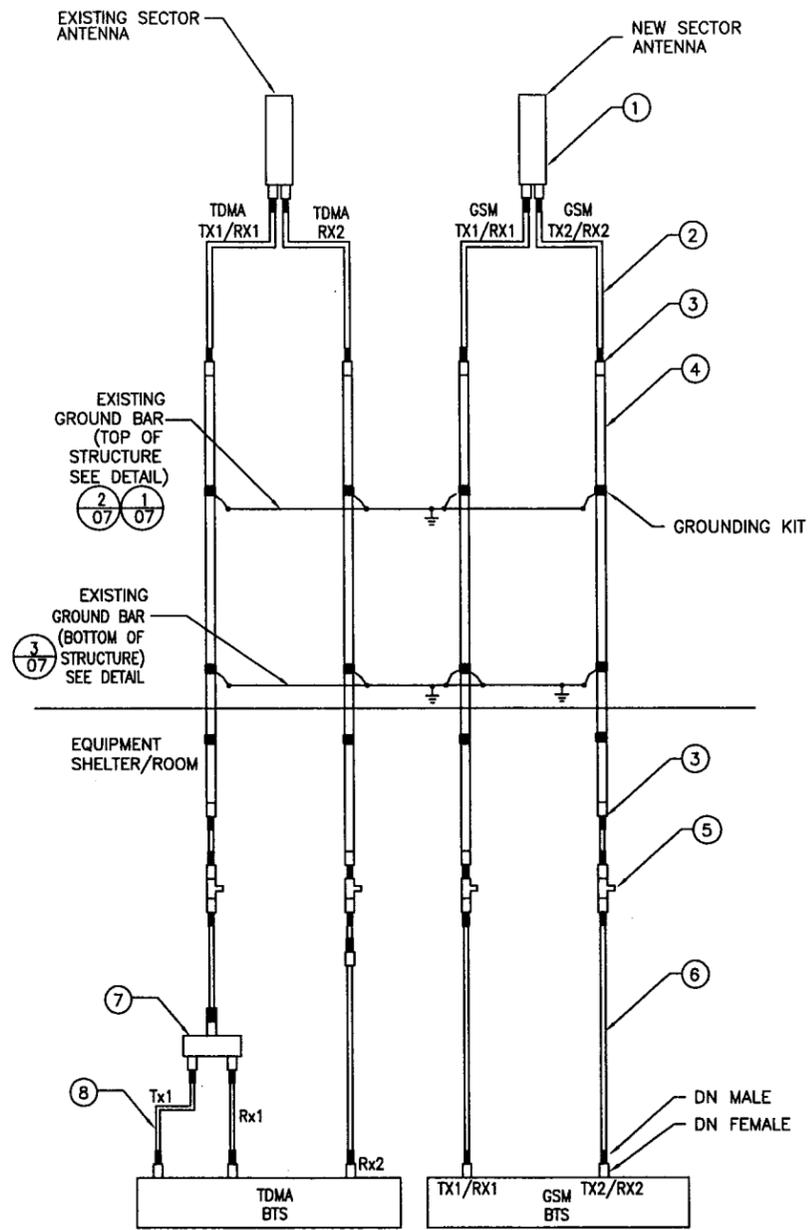
5

4

3

2

070201



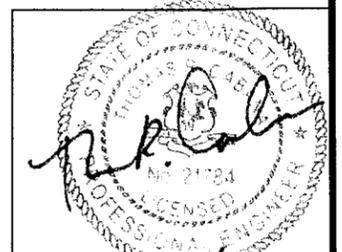
2/4 VP ANTENNA CONFIGURATION
NOT TO SCALE

1
05

BILL OF MATERIALS

ITEM NO.	ITEM DESCRIPTION	SYS.	SECTOR ALPHA AZIMUTH 0°		SECTOR BETA AZIMUTH 150°		SECTOR GAMMA AZIMUTH 270°		TOTAL QUANTITY	SUPPLIED BY
			TX1/RX1 RX2 (TDMA)	TX1/RX1/ TX2/RX2 (GSM)	TX1/RX1 RX2 (TDMA)	TX1/RX1/ TX2/RX2 (GSM)	TX1/RX1 RX2 (TDMA)	TX1/RX1/ TX2/RX2 (GSM)		
1	ANTENNA	EXISTING		ALLGON 7250_02 NEW 61.3"x6.3"x2.2"	EXISTING	ALLGON 7262_02 NEW 51.2"x5"x3.2"	EXISTING	ALLGON 7262_01 NEW 51.2"x5"x3.2"	1+1+1	BECHTEL
	MECHANICAL DOWNTILT			0		0		2		
2	STANDARD HELIAX JUMPER LDF 1/2" JUMPER, DIN MALE/DIN MALE			L4A-PDMDM-6 NEW		L4A-PDMDM-6 NEW		L4A-PDMDM-6 NEW	12	BECHTEL
3	STANDARD HELIAX UNATTACHED CONNECTOR, DIN FEMALE			L5PDF-RPC NEW		L5PDF-RPC NEW		L5PDF-RPC NEW	12	BECHTEL
4	MAIN COAXIAL CABLE (LENGTH)			LDF7-50A (175' 1 1/8") 2-NEW		LDF7-50A (175' 1 1/8") 2-NEW		LDF7-50A (175' 1 1/8") 2-NEW	1050'± 1 1/8"	BECHTEL
5	SURGE ARRESTOR			APTDC-BDFDM- SAT NEW		APTDC-BDFDM- SAT NEW		APTDC-BDFDM- SAT NEW	6	BECHTEL
6	1/2" JUMPER, DIN MALE/DIN MALE			L4A-PDMDM-25		L4A-PDMDM-25		L4A-PDMDM-25	6	TBD
7	DUPLEXER								3	TBD
8	1/2" JUMPER, DIN MALE/ DIN MALE								6	TBD
9	LOW NOISE AMPLIFIER									
	ID TAG			ALPHA A3/A4 ATTWS GSM		BETA B3/B4 ATTWS GSM		GAMMA C3/C4 ATTWS GSM		SUB CONTRACTOR
	COLOR CODE			3/4 RED		3/4 BLUE		3/4 GREEN		SUB CONTRACTOR

- SUBCONTRACTOR SHALL VERIFY THE ACTUAL LENGTH IN THE FIELD BEFORE INSTALLATION
- TAG (SEE DETAIL 5 ON SHEET 06) & COLOR CODE ALL MAIN CABLES AT LOCATIONS PER AWS TOWER/ANTENNA CABLE MARKING STANDARD:
TOP OF TOWER END OF MAIN COAX
BOTTOM OF TOWER SHELTER EXTERIOR AT CABLE ENTRY PORT
WAVE GUIDE PORT SHELTER INTERIOR AT CABLE ENTRY PORT
DIRECTLY BEFORE AND AFTER RF EQUIPMENT (DUPLEXERS, DIPLEXERS, ETC.)
END OF INTERIOR JUMPERS AT BTS EQUIPMENT
- ANTENNAS SHALL BE PROCURED AND INSTALLED WITH DOWN TILT MOUNTING BRACKETS SUPPLIED BY ANTENNA MANUFACTURER
- PRIOR APPROVAL IS REQUIRED BEFORE PERFORMING ANY WORK ON EXISTING CELL SITE EQUIPMENT
- CONTRACTOR SHALL PROVIDE ALL GROUNDING KITS AND WEATHER PROOFING KITS.
- INFORMATION TAKEN FROM RF DATASHEET, REV. 1 (06/26/01)



THOMAS R. CABANA
P.E. No. 21784
DATE 11/19/01

CT-L06 - NEW MILFORD

ANTENNA SCHEMATIC AND
BILL OF MATERIALS

JOB NO.	DRAWING NUMBER	REV
24623-313	CT-L06-05	1

**Edwards
AND Kelcey**
EDWARDS AND KELCEY, INC.
1247 WARD AVENUE
WEST CHESTER, PA 19380-4259
E & K PROJ.#: 020015.011
CONTACT: ROB DAVIS
PHONE: (401) 272-1969

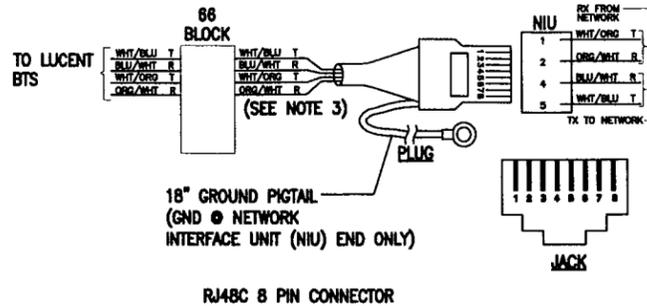
SITE NAME: NEW MILFORD
SITE#: CT-L06
ELKINGTON FARM RD
NEW MILFORD, CT



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PARAMUS, NJ 07652

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SCALE AS SHOWN		DESIGNED	DRAWN		

* VENDOR:
 CDS DATAKOM INC.
 214-340-9189
 INDOOR SINGLE ENDED P/N C00411482-XXX
 OUTDOOR SINGLE ENDED P/N C00411492-XXX
 XXX = LENGTH IN FEET



RJ48C 8 PIN CONNECTOR

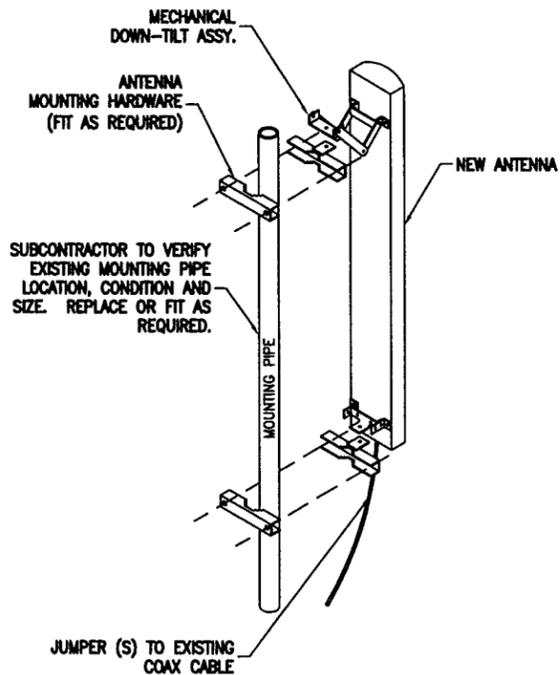
* T1 CABLE MUST BE CDS DATAKOM (NO SUBSTITUTION)

NOTES:

1. THE CABLE IS SUITABLE FOR LUCENT FLEXENT SITE GSM BTS.
2. THE CABLE IS A STRAIGHT-THROUGH CABLE WITH IDENTICAL CONNECTOR IF MODULAR PLUG USED AT BOTH ENDS.
3. PARS 3&4 NOT SHOWN/ USED FOR RJ48C BUT ARE TERMINATED IN MODULAR PLUG PER ANSI/TIA/EIA (T568B).

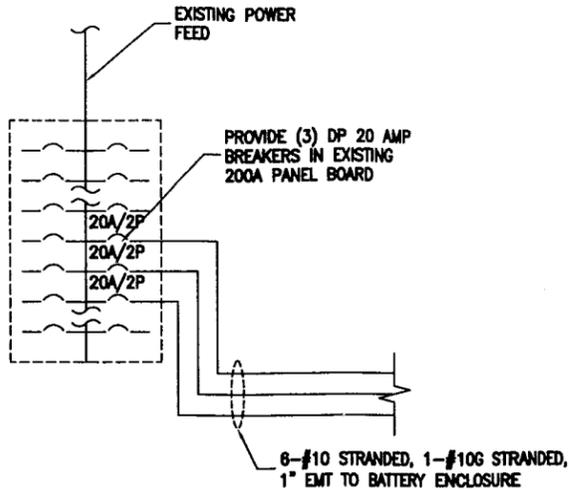
T-1/PCM
 CONNECTOR PINOUT (1016)
 NOT TO SCALE

1
06



ANTENNA
 MOUNT DETAIL
 NOT TO SCALE

4
06



ONE
 LINE DIAGRAM
 NOT TO SCALE

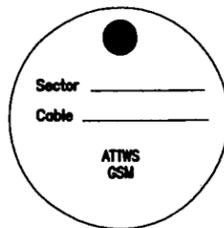
2
06

EXISTING 200A PANEL					
DESCRIPTION	BREAKER	CIRCUIT	CIRCUIT	BREAKER	DESCRIPTION
UNKNOWN	20	1	2	60	UNKNOWN
UNKNOWN	20	3	4	20	UNKNOWN
UNKNOWN	20	5	6	20	UNKNOWN
UNKNOWN	20	7	8	20	UNKNOWN
UNKNOWN	20	9	10	20	UNKNOWN
UNKNOWN	20	11	12	20	UNKNOWN
UNKNOWN	20	13	14	20	UNKNOWN
UNKNOWN	20	15	16	20	UNKNOWN
UNKNOWN	20	17	18	20	UNKNOWN
UNKNOWN	20	19	20	60	UNKNOWN
UNKNOWN	20	21	22	60	UNKNOWN
UNKNOWN	20	23	24	60	UNKNOWN
NEW GSM	20	25	26		
NEW GSM	20	27	28		
NEW GSM	20	29	30		
NEW GSM	20	31	32		
NEW GSM	20	33	34		
NEW GSM	20	35	36		
		37	38		
		39	40		
		41	42		
SURGE ARRESTER					

NOTE: SUBCONTRACTOR SHALL VERIFY IN FIELD AND MAKE ADJUSTMENTS IF NECESSARY

PANEL SCHEDULE
 NOT TO SCALE

3
06



NOTE:
 TAG SHALL BE MADE OF STEEL OR EQUIVALENT AND ATTACHED TO CABLE WITH CORROSION PROOF WIRE.

TAG LABELING
 NOT TO SCALE

5
06



THOMAS R. CABANA
 P.E. No. 21784 11/19/01 DATE

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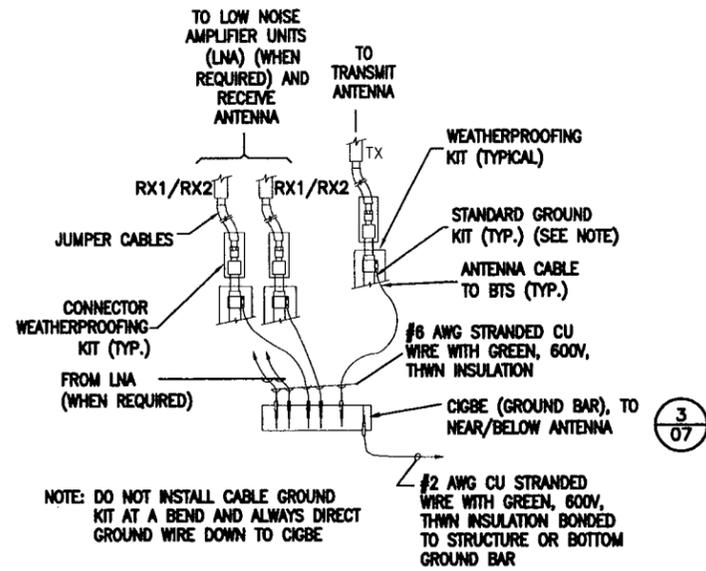
SITE NAME: NEW MILFORD
 SITE#: CT-L06
 ELKINGTON FARM RD
 NEW MILFORD, CT



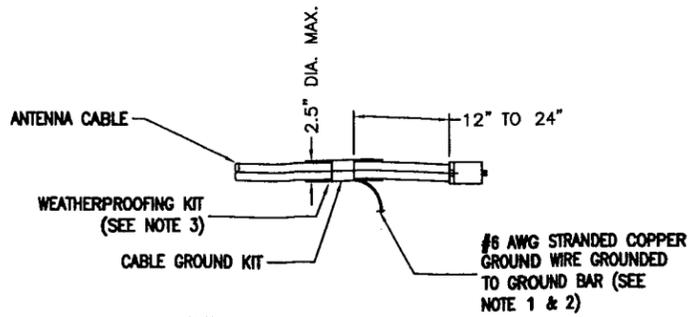
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 PARAMUS, NJ 07652

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CT-L06 - NEW MILFORD		
STANDARD DETAILS		
JOB NO.	DRAWING NUMBER	REV
24623-313	CT-L06-06	1

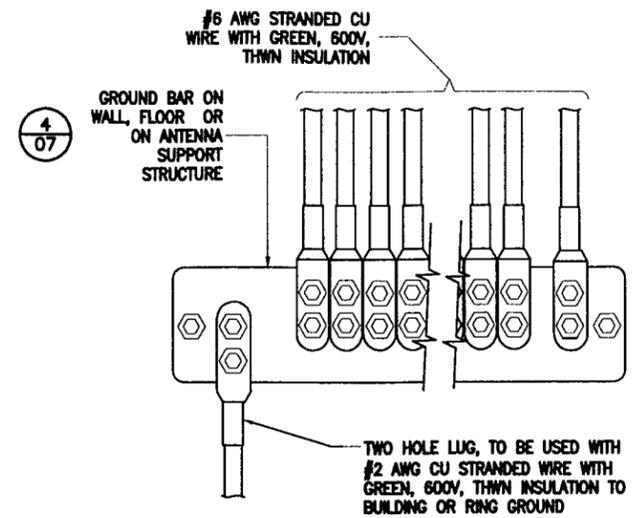


CONNECTION OF GROUND WIRE TO GROUND BAR (522A) 1 / 07
NOT TO SCALE

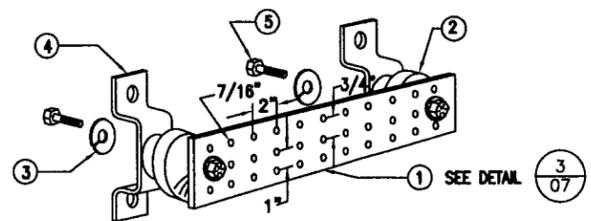


- NOTE:
- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
 - GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
 - WEATHER PROOFING SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.

CONNECTION OF CABLE GROUND KIT TO ANTENNA CABLE (513A) 2 / 07
NOT TO SCALE

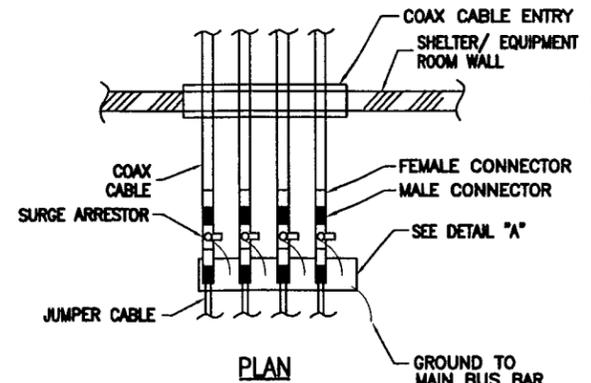


INSTALLATION OF GROUND WIRE TO GROUND BAR (508A) 3 / 07
NOT TO SCALE



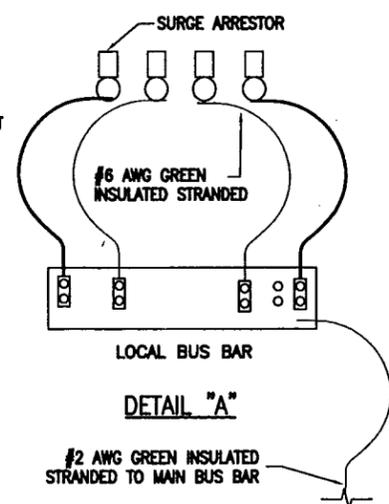
- LEGEND
- COPPER GROUND BAR, 1/2" X 4" X 20", NEWTON INSTRUMENT CO. CAT. NO. B-6142 OR EQUAL. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION.
 - INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4
 - 5/8" LOCKWASHERS, NEWTON INSTRUMENT CO. CAT. NO. 3015-8
 - WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT. NO. A-8056
 - 5/8-11 X 1" HHCS BOLTS, NEWTON INSTRUMENT CO. CAT. NO. 3012-1

GROUND BAR DETAIL (509) 4 / 07
NOT TO SCALE



- NOTE:
- 4 MAX. LOOPED ARRESTORS

SURGE ARRESTOR GROUNDING DETAIL (527) 5 / 07
NOT TO SCALE



THOMAS R. CABANA
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SCALE AS SHOWN		DESIGNED	DRAWN	

CT-L06 - NEW MILFORD		
STANDARD DETAILS		
JOB NO.	DRAWING NUMBER	REV
24623-313	CT-L06-07	1