



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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Phone: (860) 827-2935
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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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NORWALK, CONNECTICUT**

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NEIL T. RIMSKY
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JENNIFER L. VAN TUYL
CHAUNCEY L. WALKER (also CA)
ROBERT L. WOLFE
DAVID E. WORBY**

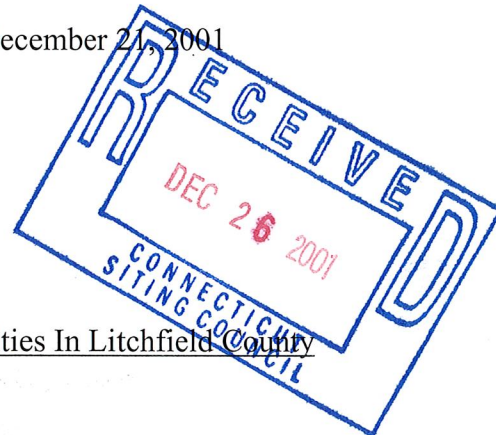
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ROBERT L. OSAR (also TX)
MARYANN M. PALERMO
ROBERT C. SCHNEIDER
LOUIS R. TAFFERA**

NEIL J. ALEXANDER (also CT)
CHARLES T. BAZYDLO (also NJ)
THOMAS R. BEIRNE (also DC)
THOMAS M. BLOOMER
JOSEPH P. CARLUCCI
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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

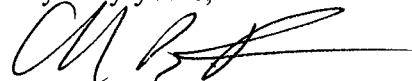
currently processing an application for an amended certificate and has included calculations in their filing for all carriers should a modified facility be approved by the Council.

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



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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 Bulls Bridge Road Kent, CT. (Site ID: L04).

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.

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.

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

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 Bulls Bridge Road in Kent, CT.

Thank you for your consideration of this matter

Very truly yours,

EDWARDS AND KELCEY

Richard Greene
Senior Wireless Designer

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

Cc: Rob Davis

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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

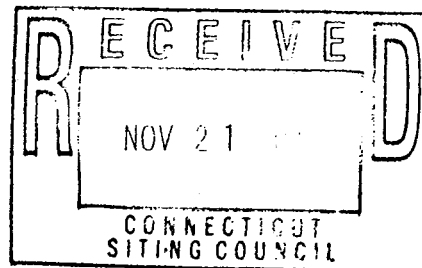
In conclusion we are requesting the approval by the siting council for the addition of the AT&T Wireless 1900 MHZ System.

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

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RF Emissions Experts

AN EDWARDS AND KELCEY SERVICE

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

***Kent Site
Bulls Bridge Road
Kent, CT
Site ID: L04***

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

November 15, 2001

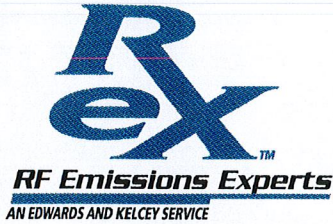


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PROPRIETARY – AT&T WIRELESS AND EDWARDS AND KELCEY

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

Kent, 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 (replacing one 800 MHz antenna per sector with a 1900 MHz antenna at an existing facility – data reflects additional 1900 MHz system)

Facility type	Existing 180 ft. monopole
Transmit frequency band (proposed additional band)	1965 - 1970 MHz
Replacement Antenna types	Allgon 7262
Antenna major dimension (length)	4.3 ft.
Maximum antenna gain	14.0 dBd
Antenna centerline height	152 ft. above ground level
Total number of 1900 MHz antennas replaced	2 (1 per sector)
Number of 1900 MHz channels per antenna	2 channels
Maximum ERP per channel	150 watts
Antenna downtilt	0 degrees
Existing carriers on monopole	Nextel, SCLP, Sprint PCS, AT&T Wireless, WMNR and CT State Police

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.)

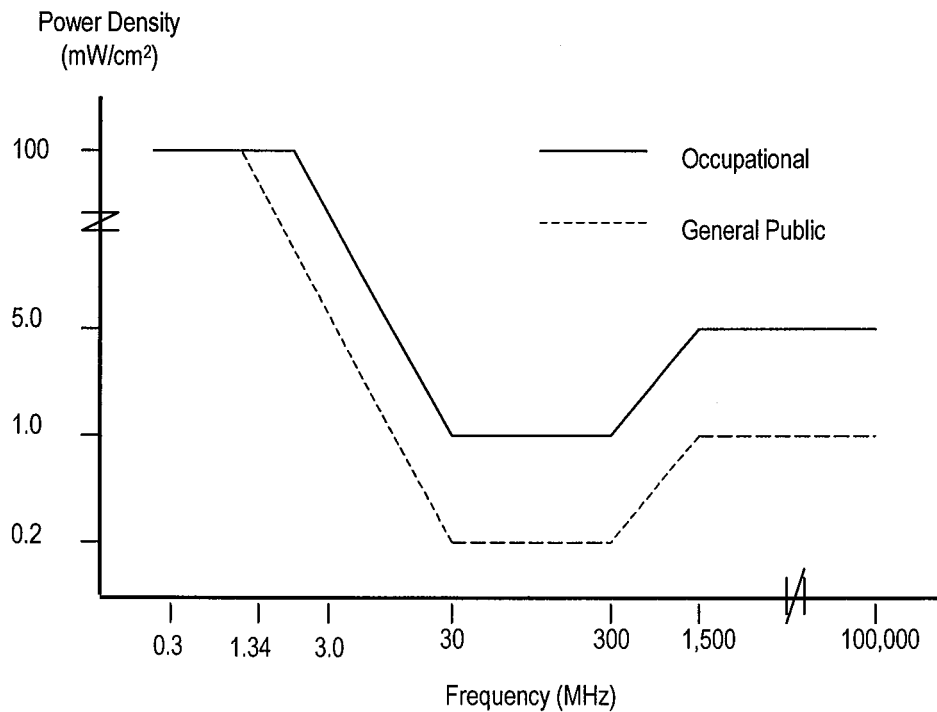
The specified continuous exposure MPE limits are based on known variation of human body susceptibility in different frequency ranges, and a Specific Absorption Rate (SAR) of 4 watts per kilogram, which is universally considered to accurately represent human capacity to dissipate incident RF energy (in 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) $S \text{ [mW/cm}^2\text{]} = (P_i * \text{ACF} / (2 \pi R h))$

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

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

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 replace two (2) 800 MHz antennas (one in each of two sectors) with two (2) 1900 MHz antennas at 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	143.0	90.0	0.025	0.0002	0.021
20	144.4	82.0	0.025	0.0002	0.020
40	148.5	74.4	0.025	0.0002	0.019
60	155.1	67.2	0.025	0.0002	0.018
80	163.9	60.8	0.025	0.0002	0.016
100	174.5	55.0	0.020	0.0001	0.011
120	186.7	50.0	0.020	0.0001	0.010
140	200.1	45.6	0.020	0.0001	0.008
160	214.6	41.8	0.020	0.0001	0.007
180	229.9	38.5	0.020	0.0001	0.006
200	245.9	35.6	0.020	0.0001	0.006
220	262.4	33.0	0.020	0.0001	0.005
240	279.4	30.8	0.020	0.0000	0.004
260	296.7	28.8	0.020	0.0000	0.004
280	314.4	27.1	0.020	0.0000	0.003
300	332.3	25.5	0.020	0.0000	0.003
320	350.5	24.1	0.020	0.0000	0.003
340	368.8	22.8	0.020	0.0000	0.002
360	387.4	21.7	0.020	0.0000	0.002
380	406.0	20.6	0.020	0.0000	0.002
400	424.8	19.7	0.040	0.0000	0.004
420	443.7	18.8	0.040	0.0000	0.003
440	462.7	18.0	0.040	0.0000	0.003
460	481.7	17.3	0.040	0.0000	0.003
480	500.8	16.6	0.040	0.0000	0.003
500	520.0	16.0	0.040	0.0000	0.002

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 0.0002 mW/cm^2 , which represents 0.021% of the FCC limit for continuous exposure of the general population.

On August 18, 2000 an RF Report was submitted to the Connecticut Siting Council by Springwichee Cellular on behalf of Nextel, CT State Police, Sprint and WMNR, the last collocators on the monopole. At that time, a collective worst case exposure level of 59.6% 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 0.021%, the resultant cumulative level of 59.621% 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
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



EM-SCLP-068-000818

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

Peter W. van Wilgen
Director - Real Estate Operations

August 18, 2000

RECEIVED

AUG 18 2000

CONNECTICUT
SITING COUNCIL

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

Re: Springwvich Cellular Limited Partnership - Kent Cell Site

Dear Mr. Gelston:

Springwvich Cellular Limited Partnership ("SCLP") plans to allow the following entities to install antennas and equipment on its telecommunications site off Bulls Bridge Road in Kent, Connecticut:

- Nextel Communications ("Nextel")
- Connecticut State Police
- Sprint Spectrum Limited Partnership ("Sprint")
- WMNR-FM Radio ("WMNR").

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). In compliance with R.C.S.A. Section 16-50j-73, a copy of this letter is being sent to the First Selectman of the Town of Kent.

Enclosed with this letter are a site location map, a proposed site plan, and the proposed tower profile. Engineering information concerning the structural carrying capacity of the modified (replacement) tower will be provided to the Council as soon as it is available.

The existing facility consists of a 180 foot monopole and two equipment shelters located off Bulls Bridge Road in Kent, with tower coordinates of N 41° 40' 54" and W 73° 29' 12" (NAD 83). This facility was approved by the Connecticut Siting Council in its February 24, 1994 Decision and Order in Docket No. 162. The facility has been shared with AT&T Wireless ("AT&T") since 1995.

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	Power Density (mW/cm ²)	Height (feet)	Standard Limits (mW/cm ²)	% of Standard
SCLP	0.02271	180	0.5867	3.9%
AT&T	0.02558	170	0.5793	4.4%
Nextel	0.02749	160	0.5673	4.9%
CT State Police	0.01736	150	0.5773	3.0%
	0.37279	80	1.0000	37.3%
Sprint	0.03470	124.5	1.0000	3.5%
WMNR	0.00517	114.5	0.2000	2.6%
Total	N/A		N/A	59.6%

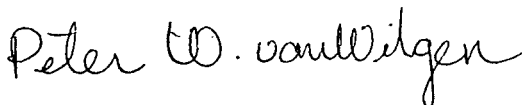
Thus, the total radio frequency electromagnetic radiation power density for the mixed frequency site would be 59.6% of the state and federal standard after completion of the proposed modifications.

Moreover, the replacement tower will accommodate multiple users as shown on the enclosures, in order to further the intent of C.G.S. Section 16-50aa. Tower capacity for one additional platform is provided for a future undetermined user.

For the foregoing reasons, SCLP respectfully submits that the changes to implement expanded shared use at the Kent 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 Dolores S. Chiesel, First Selectman
P.O. Box 678
Kent, CT 06757

The existing tower is structurally inadequate to accommodate all of the proposed additions and must be replaced. SCLP proposes to replace the existing 180 foot monopole with a more structurally sturdy monopole of equal height approximately 25 feet south of the existing tower (centerline-to-centerline distance). The existing 180 foot tower will be dismantled and removed.

SCLP and AT&T will relocate their existing antennas to centerlines of 180 feet and 170 feet respectively on the new tower, and will continue to use their existing equipment buildings measuring 12 feet by 26 feet and 12 feet by 20 feet respectively. SCLP's antennas will project 2 feet above the tower, for a total height of 182 feet.

Nextel plans to attach nine panel type antennas at a centerline height of 160 feet and to construct a 10 foot by 20 foot equipment building.

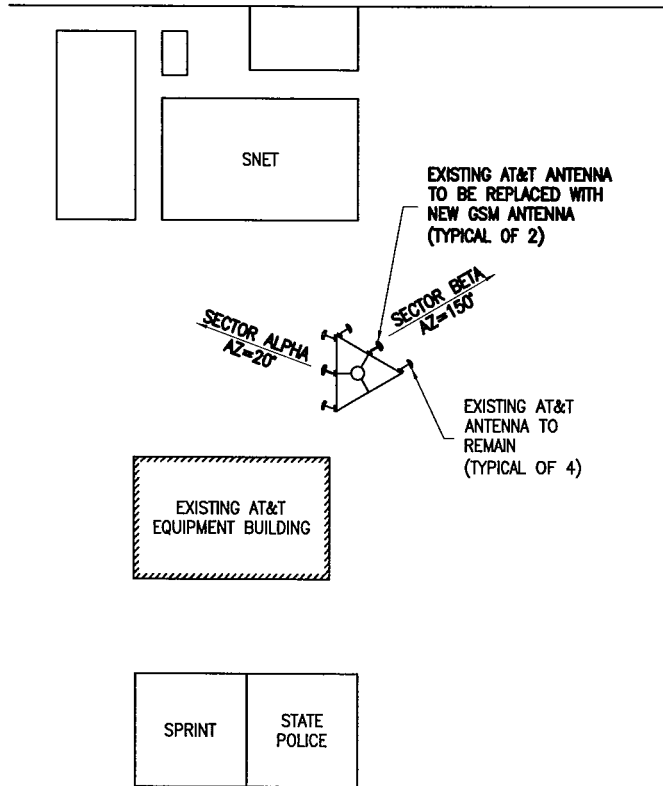
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Sprint plans to attach nine panel type antennas at a centerline height of 124.5 feet and to install equipment on an 8 foot by 20 foot pad adjacent to the tower.

WMNR proposes to install one antenna at a centerline height of 114.5 feet.

The changes to the Kent 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. The existing 180 foot monopole will be replaced with a new 180 foot monopole, and the existing tower will be removed.
2. The proposed changes will not affect the site boundaries. SCLP leases a parcel of land 100 feet by 100 feet in size. The existing fenced area within the leased parcel is approximately 61 feet by 69 feet. To accommodate proposed site modifications, SCLP plans to enlarge the fenced area on its north and west sides for a total fenced area of 75 feet by 85 feet. This resulting fenced area will continue to lie entirely within the site's lease boundaries.
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



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



AT&T
 WIRELESS COMMUNICATIONS FACILITY

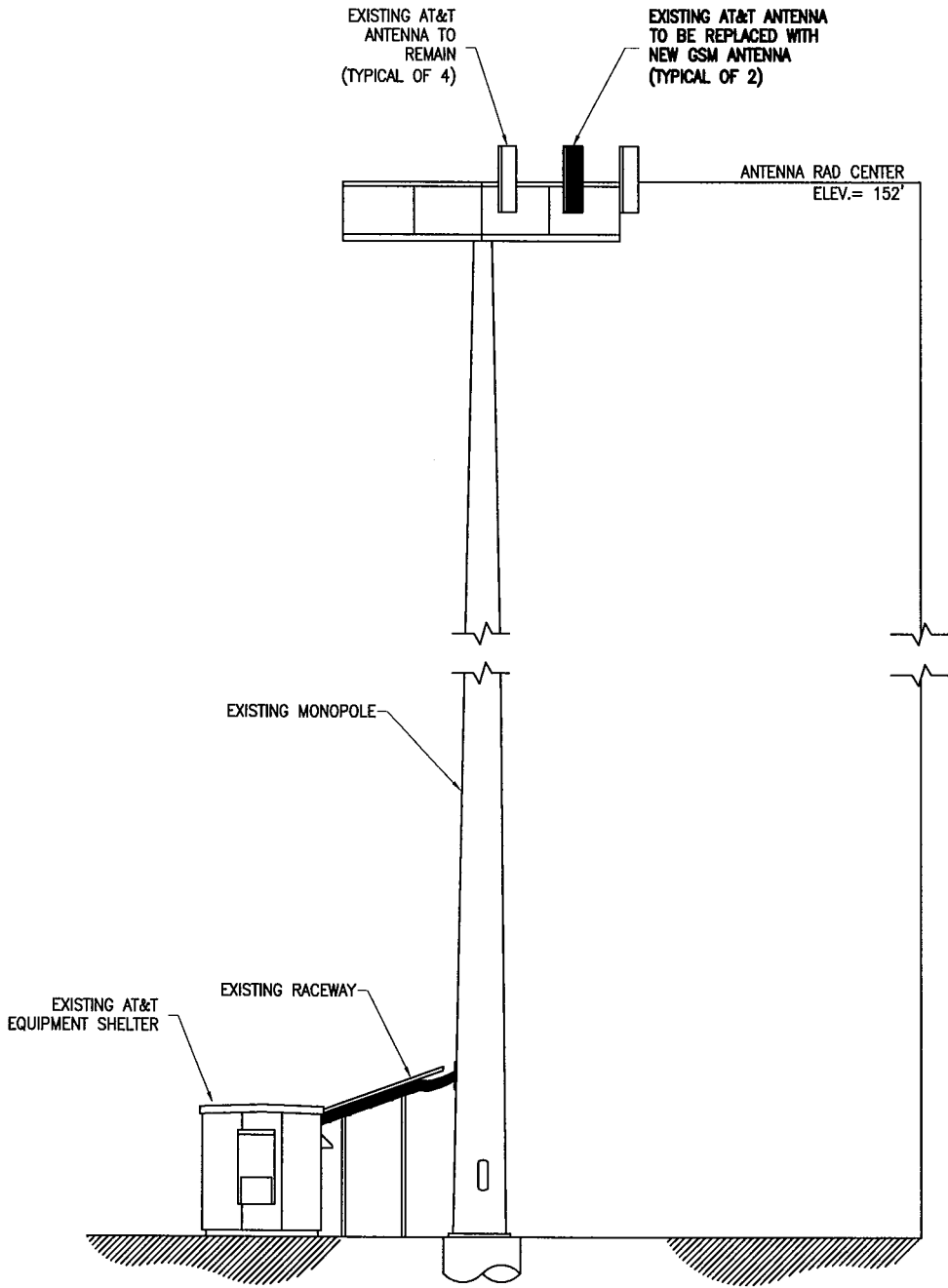
SITE ADDRESS:
KENT
BULLS BRIDGE ROAD
KENT, CT

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:

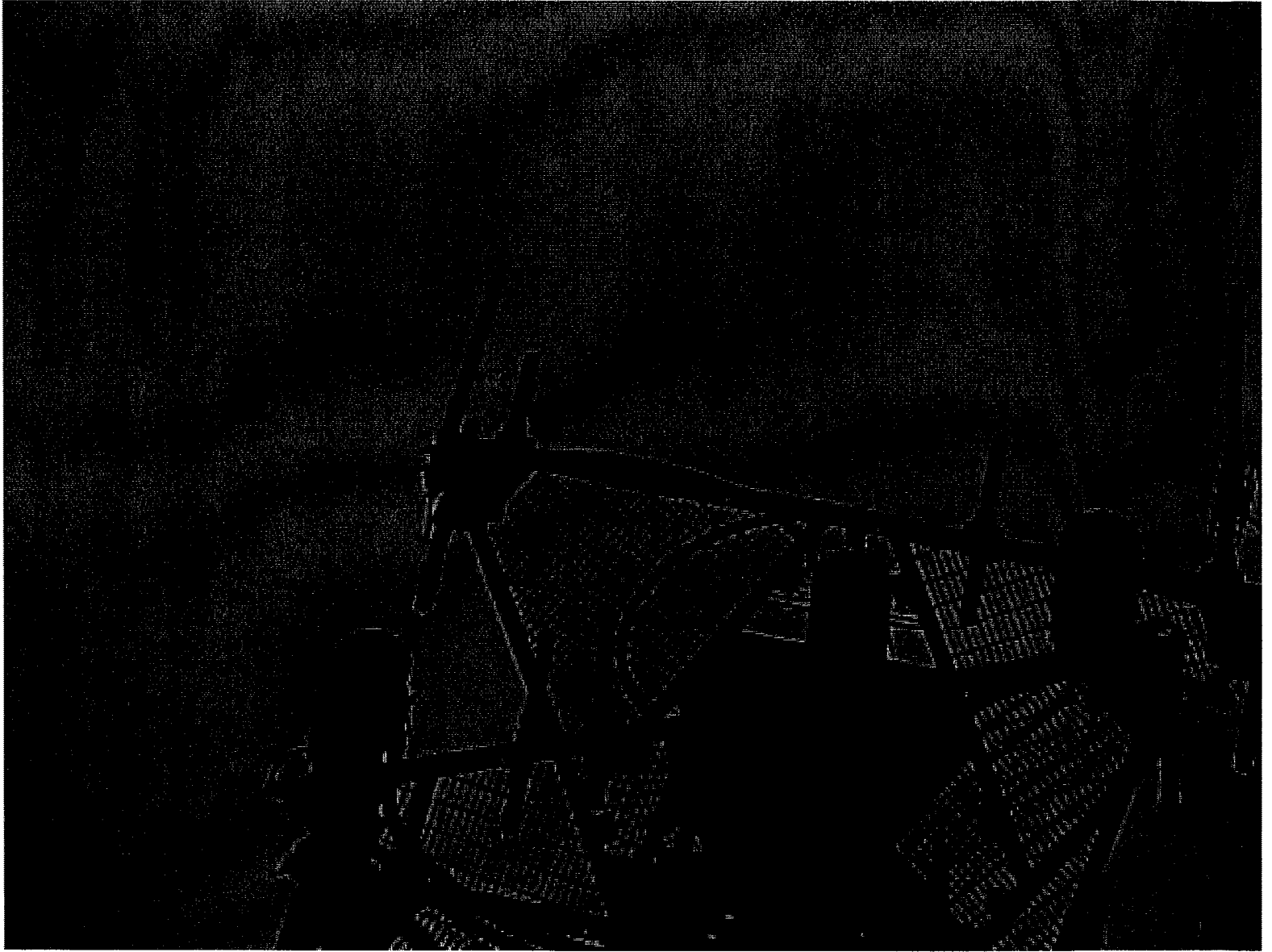


AT&T
 WIRELESS COMMUNICATIONS FACILITY

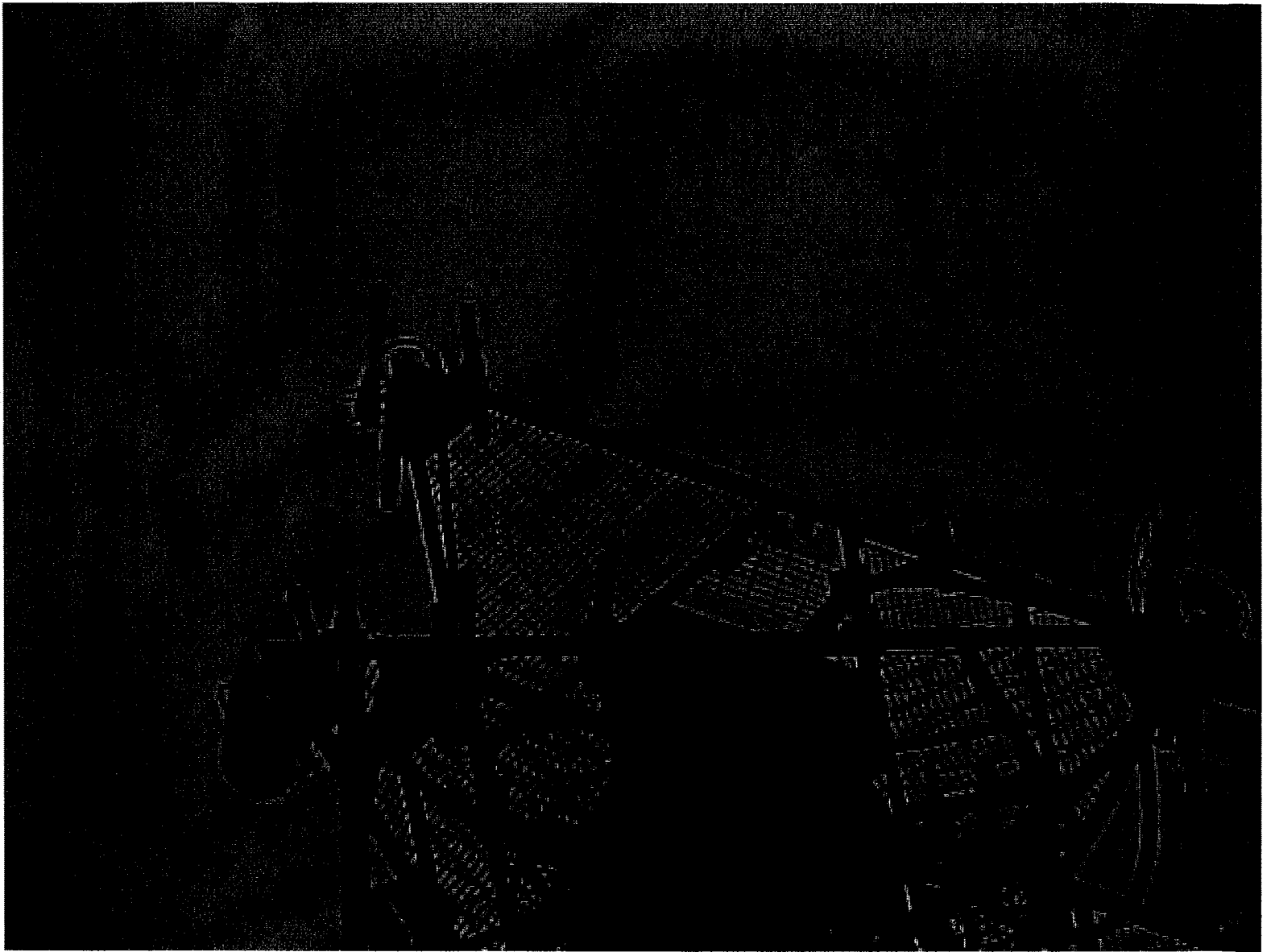
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KENT, CT

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Scale:	Date: 11/05/01	
Job No.	File No.	

Dwg. No.
SK-2
 Dwg. of 1









EM-SCLP-068-000818

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

L 04

Peter W. van Wilgen
Director - Real Estate Operations

August 18, 2000

RECEIVED

AUG 18 2000

CONNECTICUT
SITING COUNCIL

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

Re: Springwich Cellular Limited Partnership - Kent Cell Site

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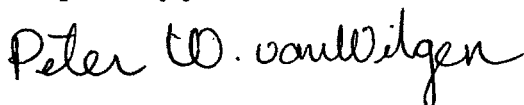
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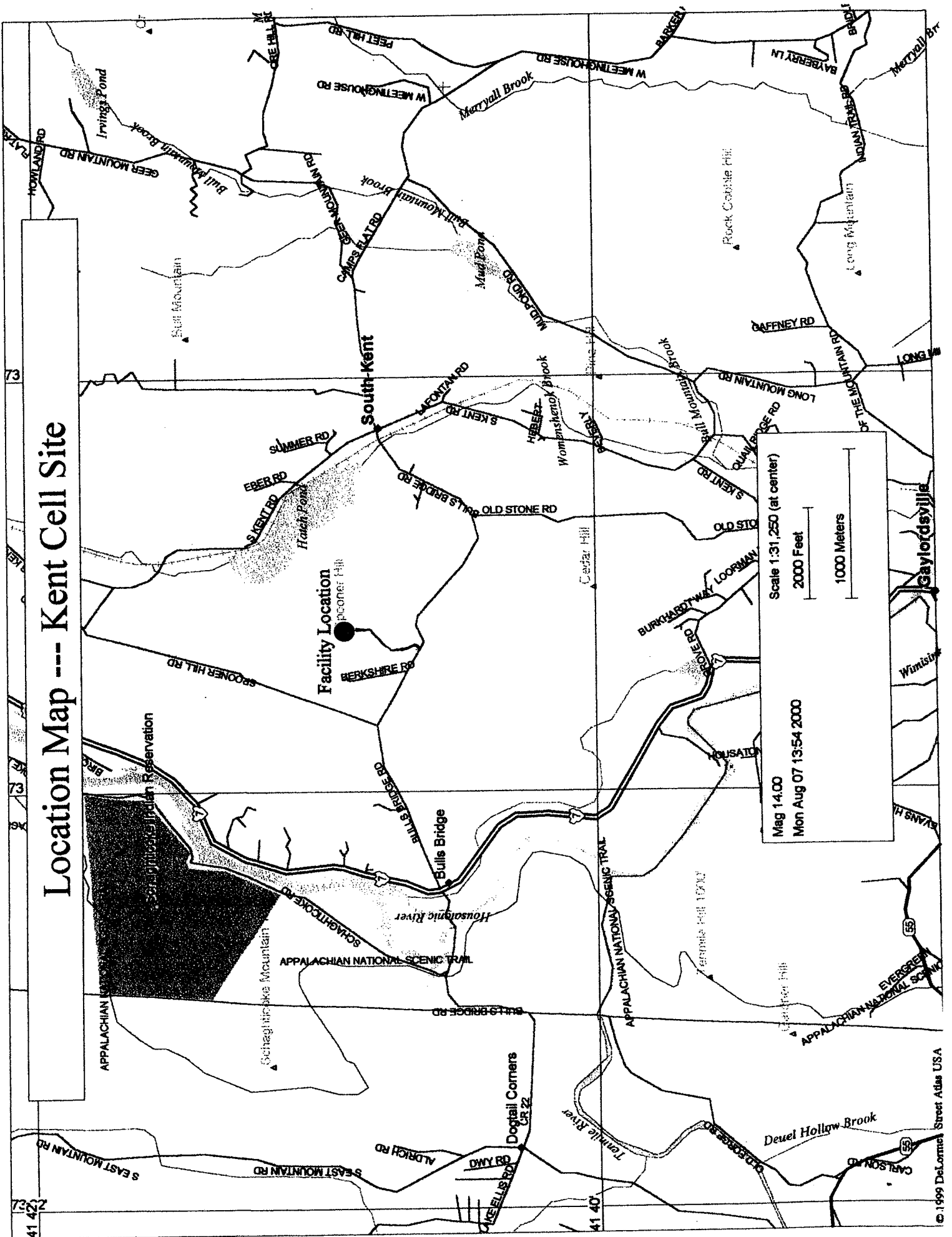
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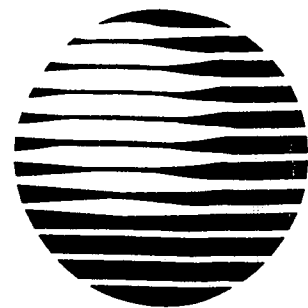
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Location Map --- Kent Cell Site



Mag 14.00
 Mon Aug 07 13:54 2000
 Scale 1:31,250 (at center)
 2000 Feet
 1000 Meters



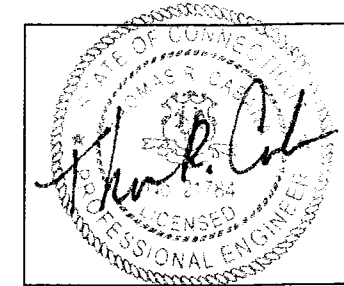
AT&T

AT&T WIRELESS SERVICES, LLC

SITE NUMBER:L04

SITE NAME:LITCHFIELD/KENT

DRAWING INDEX	REV.	DIRECTIONS	PROJECT INFORMATION
24623-313-CT-L04-01	1	TAKE THE GARDEN STATE PARKWAY NORTH TO I-287 EAST ACROSS THE TAPPAN ZEE BRIDGE. STAY IN RIGHT LANE AND GET ON I-287 EAST. TAKE FIRST EXIT FOR SAW MILL PARKWAY NORTH. TAKE TO THE END AND MERGE WITH I-684 NORTH. TAKE TO THE END AND MERGE WITH RT 22 NORTH. BEAR RIGHT ONTO 55 EAST. TAKE TO THE END AND TURN LEFT ONTO RT 7 NORTH. TURN ONTO BULLS BRIDGE ROAD. LOOK FOR MAIL BOX #140 AFTER THIS ENTER AT THE WIDE METAL GATE (LEFT) FOLLOW TO NEXT GATE.	SCOPE OF WORK: REMOVE AND REPLACE EXISTING AT&T ANTENNAS WITH NEW GSM ANTENNAS & ASSOCIATED ITEMS AS SHOWN IN THE ATTACHED DRAWINGS SITE ADDRESS: BULLS BRIDGE ROAD KENT, CT PROPERTY OWNER: SOUTH KENT SCHOOL CORP. 138 BULLS BRIDGE ROAD S. KENT, CT 06785 CONTACT PERSON: APPLICANT: AT&T 15 EAST MIDLAND AVE PARAMUS, NJ 07652 LATITUDE: 41.8817 LONGITUDE: -73.4889 ELEVATION: 780' JURISDICTION: TOWN OF KENT TAX I.D. NUMBER: LOT 9 BLOCK 39 CURRENT USE: WIRELESS TELECOMMUNICATIONS FACILITY PROPOSED USE: NO CHANGE ZONING DISTRICT: SCHOOL STRUCTURE HEIGHT: 152' ANTENNA RAD CENTER: 152' RF DATASHEET: 06/26/01 (REV. 2) RF ENGINEER: TONY HOUWELING LUCENT TECHNOLOGIES (973) 388-8621 ANTENNA LOCATION: TOWER EQUIPMENT LOCATION: EQUIPMENT SHELTER GENERAL CONTRACTOR:
24623-313-CT-L04-02	0	VICINITY MAP	
24623-313-CT-L04-03	0		
24623-313-CT-L04-04	0		
24623-313-CT-L04-05	1		
24623-313-CT-L04-06	0		
24623-313-CT-L04-07	0	NOT TO SCALE	
STRUCTURAL REVIEW			
EXISTING TOWER/FOUNDATION AND BUILDING (AS APPLICABLE) HAVE BEEN EVALUATED FOR THE REPLACEMENT/ADDITION OF EQUIPMENT, ANTENNA AND COAX CABLES. NO STRUCTURAL MODIFICATIONS ARE REQUIRED			



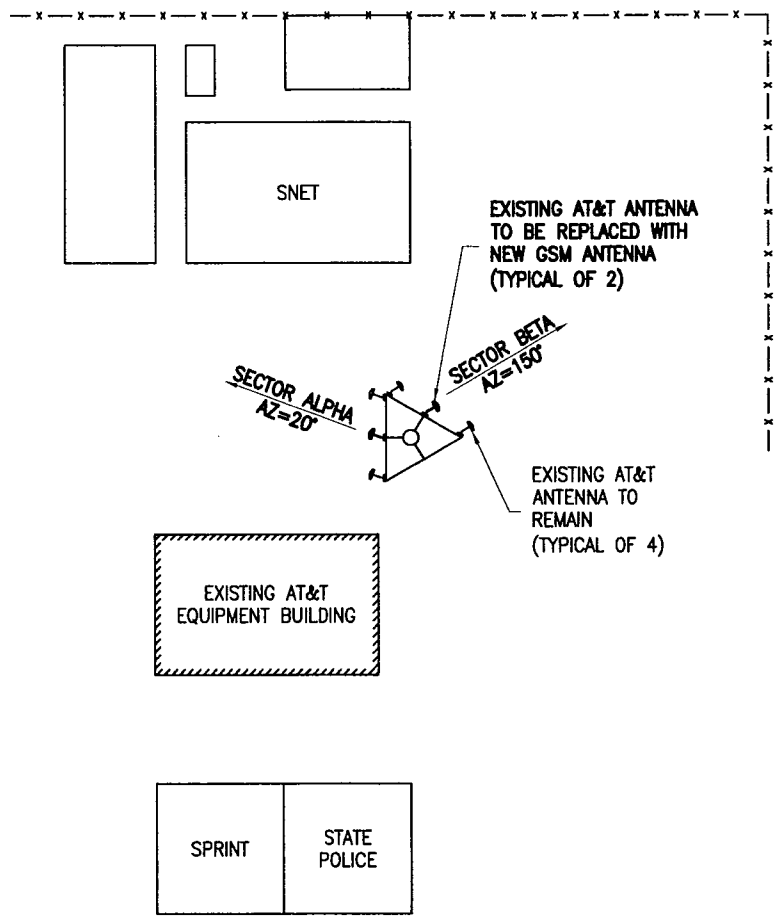
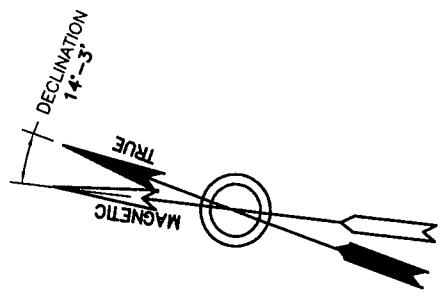
Edwards AND Kelcey
 EDWARDS AND KELCEY, INC.
 1247 WARD AVENUE
 WEST CHESTER, PA 19380-4259
 E & K PROJ.#: 020015.011
 CONTACT: ROB DAVIS
 PHONE: (401) 272-1969

SITE NAME: LITCHFIELD/KENT
 SITE#: L04
 BULLS BRIDGE ROAD
 KENT, CONNECTICUT

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

NO.	DATE	REVISIONS	BY	CHK	APP'D
2	10/26/01	ISSUED FOR PERMIT	DPD	PDC	
1	08/24/01	ISSUED FOR CHANGE	DPD	PDC	
0	08/17/01	ISSUED FOR CONSTRUCTION	DPD	PDC	
SCALE AS SHOWN		DESIGNED	DRAWN		

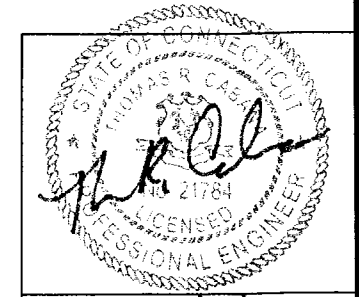
L04 - LITCHFIELD/KENT
 TITLE SHEET
 JOB NO. 24623-313
 DRAWING NUMBER CT-L04-01
 REV 2



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
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KENT, CONNECTICUT



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

NO.	DATE	REVISIONS	BY	CHK	APP'D
2	10/28/01	ISSUED FOR PERMIT	DPD	PDC	
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0	08/17/01	ISSUED FOR CONSTRUCTION	DPD	PDC	

SCALE AS SHOWN DESIGNED DRAWN

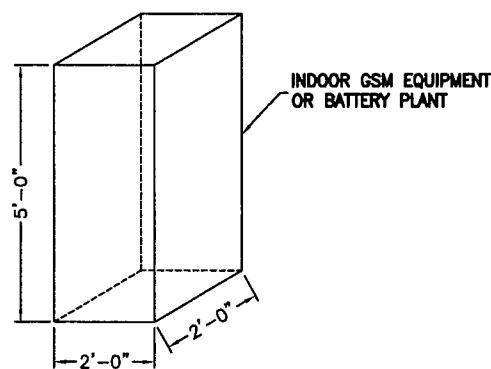
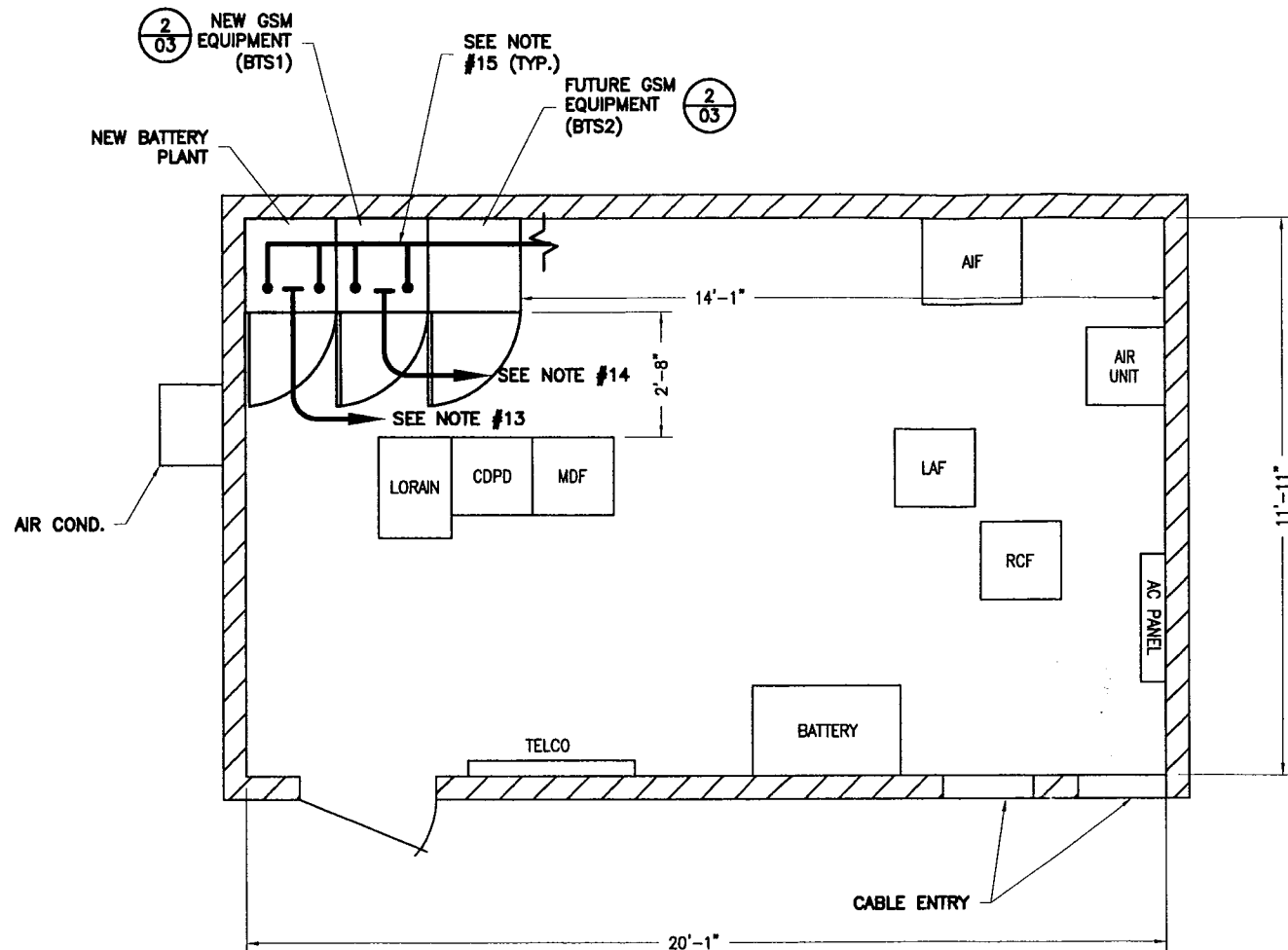
L04 - LITCHFIELD/KENT		
SITE LAYOUT		
JOB NO.	DRAWING NUMBER	REV
24623-313	CT-L04-02	2

GENERAL NOTES:

1. ALL WORK SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF NATIONAL STATE, CITY, AND LOCAL CODES, STANDARDS, AND AMENDMENTS.
2. 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.
3. 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.
4. ALL ITEMS OTHER THAN WHAT IS NOTED IN THE BILL OF MATERIALS FOR ANTENNAS, WILL BE PROVIDED BY THE SUBCONTRACTOR.
5. 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.
6. ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF SPECIFICATIONS LISTED BELOW.
7. 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.
8. ALL DAMAGE TO THE EXISTING STRUCTURE DURING THE CELL SITE UPGRADE MUST BE MADE GOOD TO THE PRE-CONSTRUCTION CONDITION OR BETTER.
9. 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.
10. 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.
11. 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.
12. WHEN OTHER CARRIERS ARE PRESENT ON THE SAME STRUCTURE MAINTAIN 10' HORIZONTAL SEPARATION AND 5' VERTICAL SEPARATION BETWEEN CARRIERS.
13. **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 6X6X4-INCH JUNCTION BOX NEAR EQUIPMENT LOCATION. SUBCONTRACTOR TO RUN FLEX CONDUIT FROM JUNCTION BOX TO 3- FEET ABOVE GROUND.
14. **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.
15. **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 #8 AWG STRANDED AND INSULATED GREEN COPPER WIRE WITH COMPRESSION TYPE CONNECTOR. IF CONNECTION TO HALO IS NOT FEASIBLE, PROVIDE #8 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.
16. **CLEARANCE:**
GSM CABINET SHOULD HAVE A MINIMUM OF 36-INCH FRONT CLEARANCE.

REFERENCE SPECIFICATIONS:

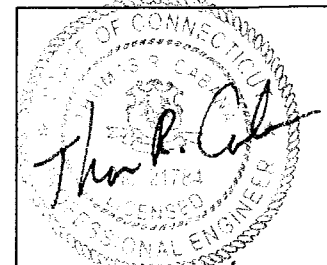
1. 24623-033-3PS-A00Z-00002, SCOPE OF WORK (EXHIBIT "D") FOR GENERAL CONSTRUCTION SERVICES.
2. 24623-033-3PS-A00Z-00005, (EXHIBIT "E") FOR GENERAL CONSTRUCTION SERVICES.



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

EQUIPMENT PLAN (1/03)
NOT TO SCALE

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



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

L04 - LITCHFIELD/KENT

EQUIPMENT ROOM
LAYOUT AND NOTES

JOB NO.	DRAWING NUMBER	REV
24623-313	CT-L04-03	2



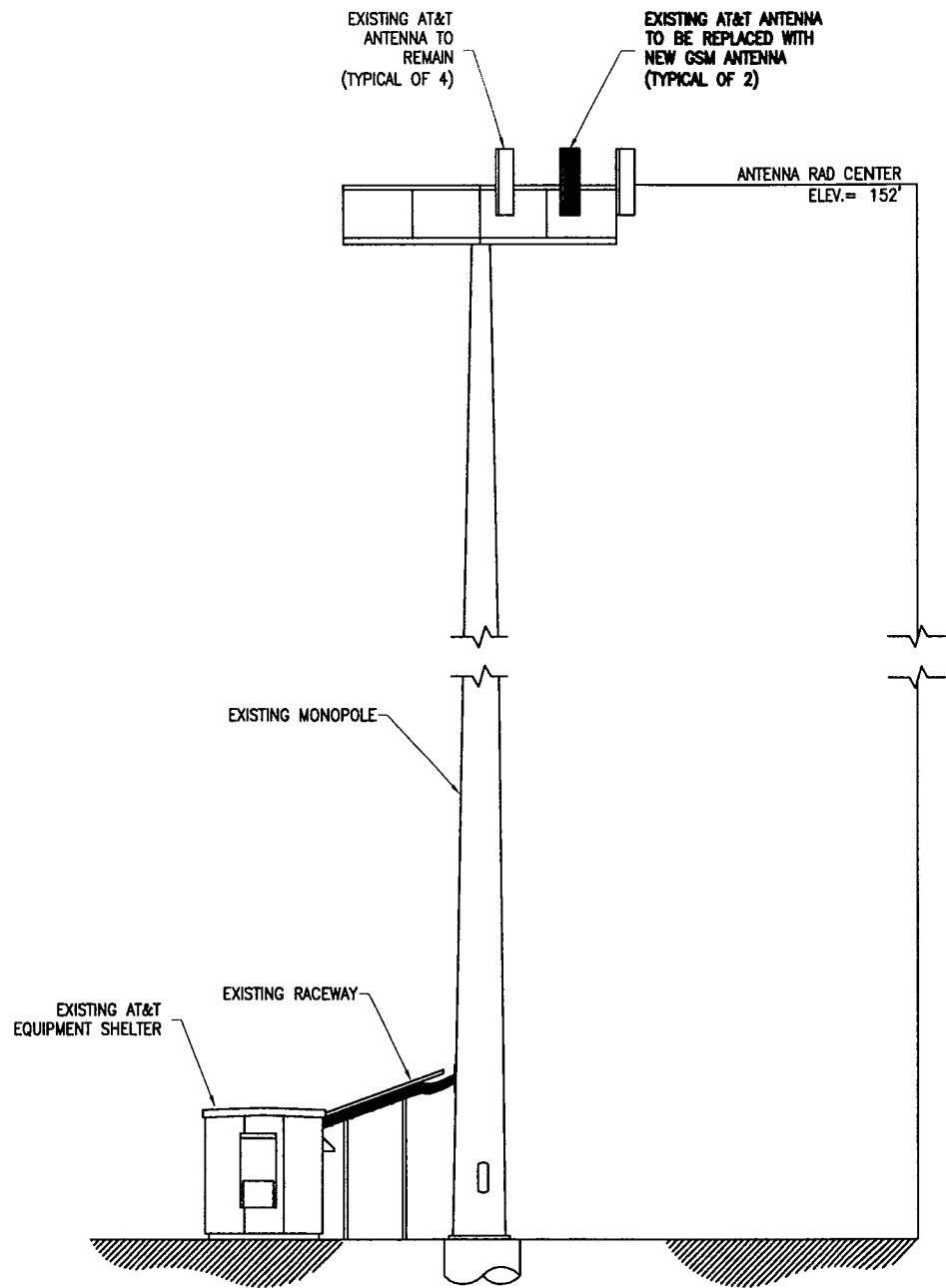
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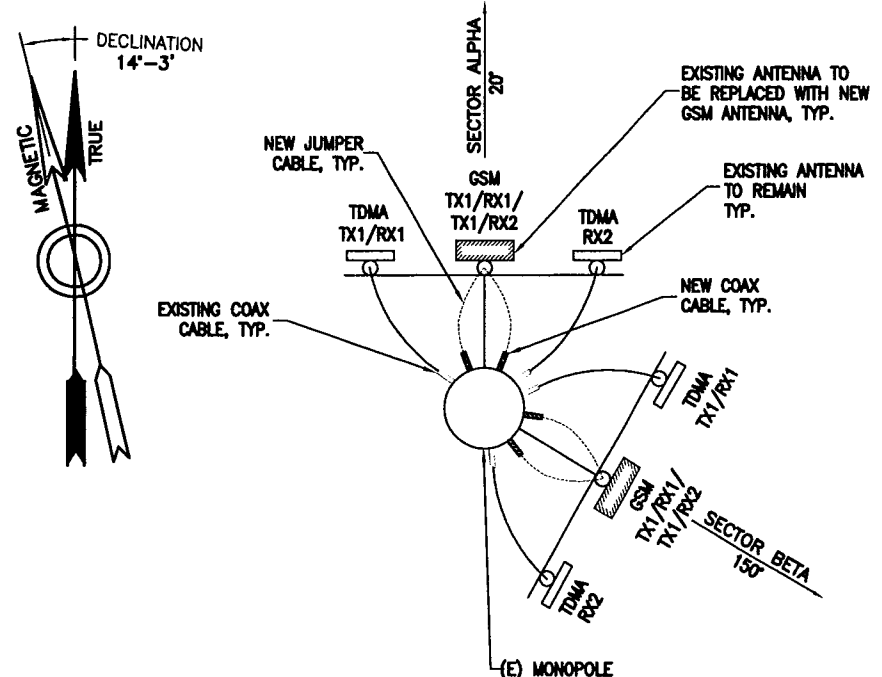


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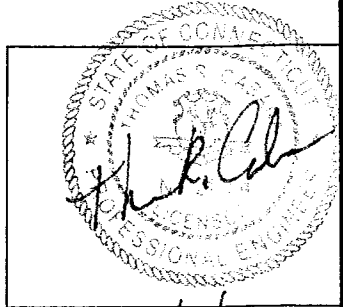


ELEVATION
NOT TO SCALE



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

TYPICAL ANTENNA
ORIENTATION PLAN
NOT TO SCALE



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

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AND
Kelcey**
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SITE#: L04
BULLS BRIDGE ROAD
KENT, CONNECTICUT



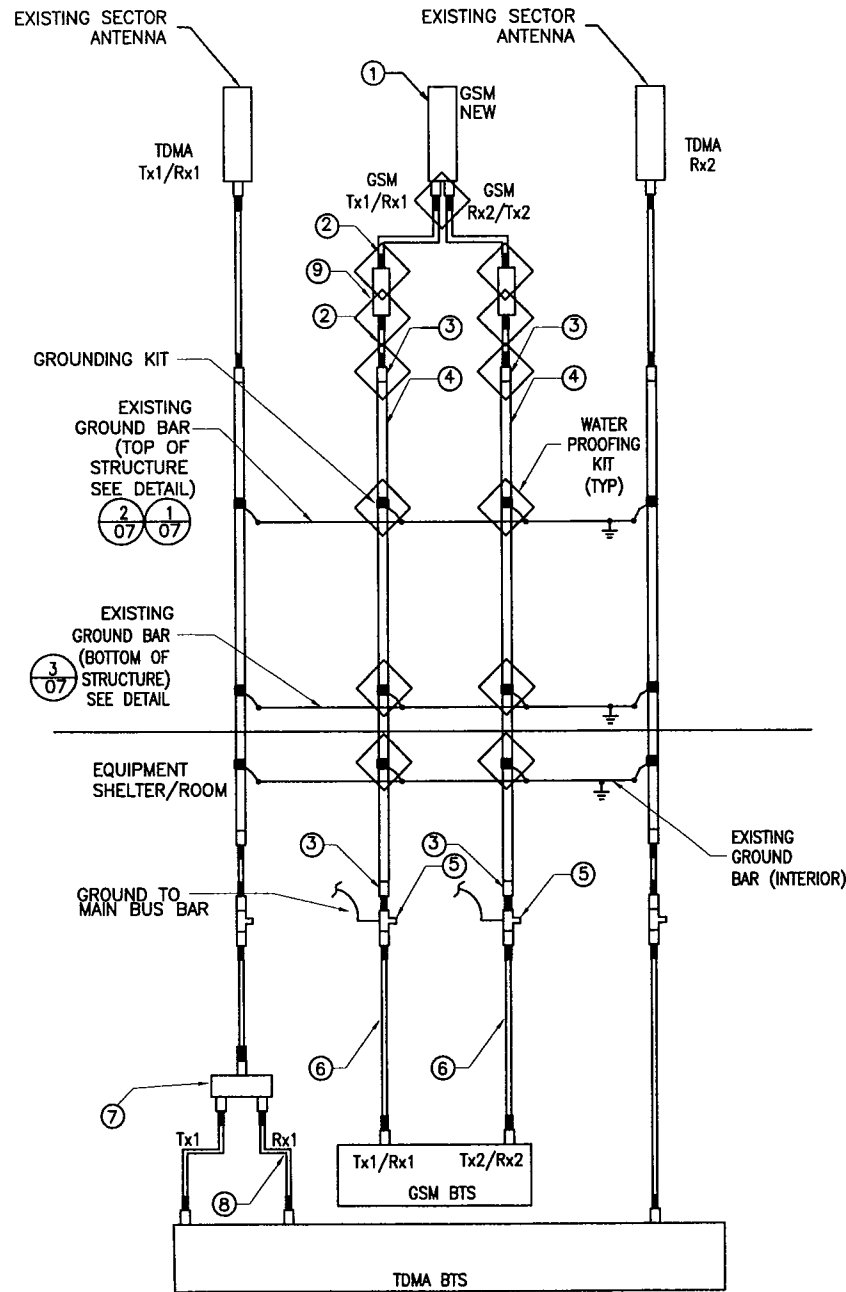
AT&T
15 EAST MIDLAND AVE.
PARAMUS, NJ 07652

NO.	DATE	REVISIONS	BY	CHK	APP'D
2	10/26/01	ISSUED FOR PERMIT	DPD	PDC	
1	08/24/01	ISSUED FOR CHANGE	DPD	PDC	
0	08/17/01	ISSUED FOR CONSTRUCTION	DPD	PDC	

SCALE AS SHOWN DESIGNED DRAWN

L04 - LITCHFIELD/KENT		
ELEVATION AND ANTENNA AZIMUTH		
JOB NO.	DRAWING NUMBER	REV
24623-313	CT-L04-04	2

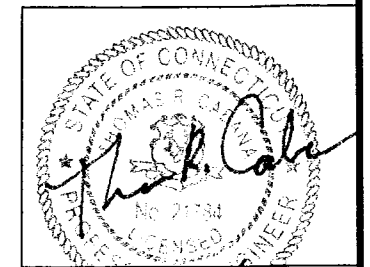
BILL OF MATERIALS



3/4 VDP
ANTENNA CONFIGURATION
NOT TO SCALE

ITEM NO.	ITEM DESCRIPTION	SYS.	SECTOR ALPHA AZIMUTH 20°			SECTOR BETA AZIMUTH 150°			TOTAL QUANTITY	SUPPLIED BY
			EXISTING TDMA TX1/RX1	TX1/RX1/RX2/TX2 (GSM)	EXISTING TDMA RX2	EXISTING TDMA TX1/RX1	TX1/RX1/RX2/TX2 (GSM)	EXISTING TDMA RX2		
1	ANTENNA		RWA80012 EXISTING	ALLGON 7262.01 NEW (51.2"x5"x3.2")	RWA80012 EXISTING	LPD7907/4 EXISTING (47"x5"x10")	ALLGON 7262.01 NEW (51.2"x5"x3.2")	LPD7907/4 EXISTING (47"x5"x10")	2	BECHTEL
	MECHANICAL DOWNTILT			0 DEG.			0 DEG.			
2	STANDARD HELIAX JUMPER LDF 1/2" JUMPER, DIN MALE/DIN MALE			L4A-PDMDM-6 NEW			L4A-PDMDM-6 NEW		4	BECHTEL
3	STANDARD HELIAX UNATTACHED CONNECTOR, DIN FEMALE			L5PDF-RPC NEW			L5PDF-RPC NEW		8	BECHTEL
4	MAIN COAXIAL CABLE (LENGTH)			LDF5-50A (200'-7") 1-NEW 1-EXISTING			LDF5-50A (200'-7") 1-NEW 1-EXISTING		400 LF± (7/8")	BECHTEL
5	SURGE ARRESTOR			APTDC-BDFDM-SAT NEW			APTDC-BDFDM-SAT NEW		4	BECHTEL
6	1/2" JUMPER, DIN MALE/DIN MALE			L4A-PDMDM-25			L4A-PDMDM-25		TBD	TBD
7	DUPLEXER								TBD	TBD
8	1/2" JUMPER, DIN MALE/ DIN MALE								TBD	TBD
9	LOW NOISE AMPLIFIER			DXMAU			DXMAU		4	BECHTEL
	ID TAG			ALPHA A2/A3 ATTWS GSM			BETA B2/B3 ATTWS GSM			SUB CONTRACTOR
	COLOR CODE			2/3 RED			2/3 BLUE			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 FROM RF DATA SHEETS, REV. 2.



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

L04 - LITCHFIELD/KENT

ANTENNA SCHEMATIC AND
BILL OF MATERIALS

JOB NO.	DRAWING NUMBER	REV
24623-313	CT-L04-05	2



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

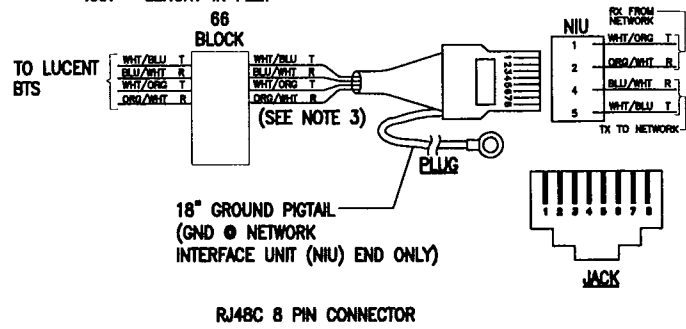
SITE NAME: LITCHFIELD/KENT
SITE#: L04
BULLS BRIDGE ROAD
KENT, CONNECTICUT



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0	08/17/01	ISSUED FOR CONSTRUCTION	DPD	PDC	
SCALE AS SHOWN		DESIGNED	DRAWN		

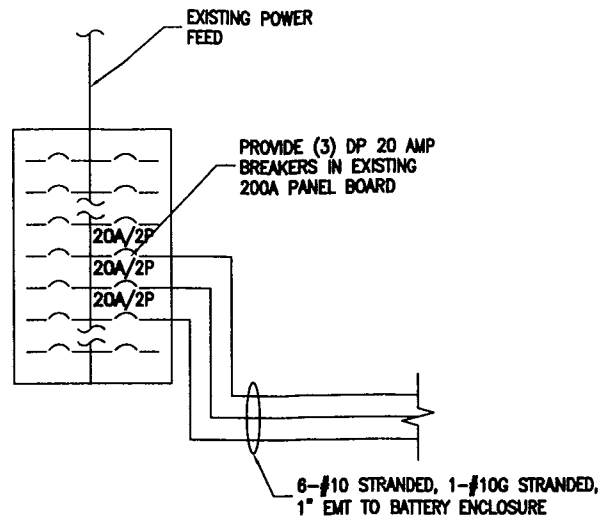
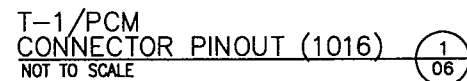
* VENDOR:
 CDS DATACOM INC.
 214-340-9199
 INDOOR SINGLE ENDED P/N C00411482-XXX
 OUTDOOR SINGLE ENDED P/N C00411492-XXX
 XXX = LENGHT IN FEET



* T1 CABLE MUST BE CDS DATACOM (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. PAIRS 3&4 NOT SHOWN/ USED FOR RJ48C BUT ARE TERMINATED IN MODULAR PLUG PER ANSI/TIA/EIA (T568B).

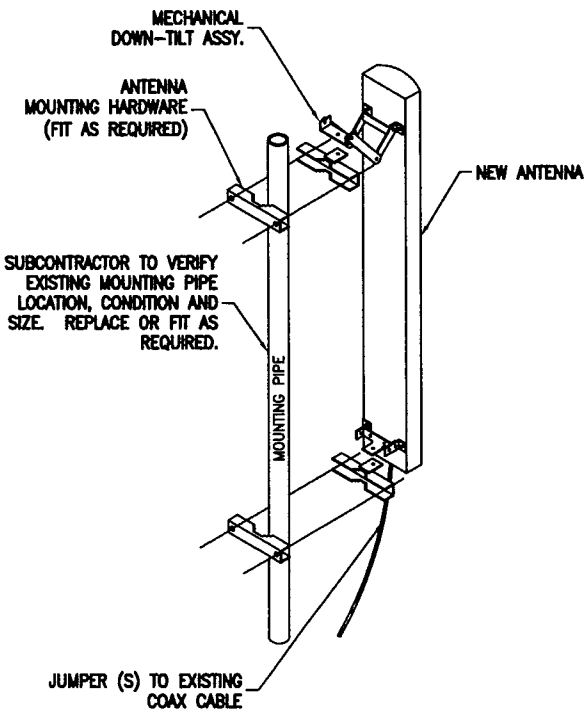


ONE LINE DIAGRAM NOT TO SCALE 2/06

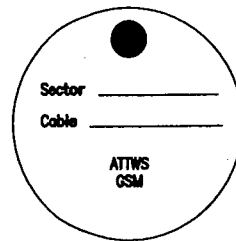
EXISTING 200A PANEL					
DESCRIPTION	BREAKER	CIRCUIT	CIRCUIT	BREAKER	DESCRIPTION
POWER DROP #1	30	1	2	20	RECEPTACLE
		3	4	20	RECEPTACLE
POWER DROP #2	30	5	6	20	LIGHTS
		7	8	20	SMOKE DETECTOR
		9	10	30	HVAC I EVAP
POWER DROP #3	30	11	12		
		13	14	20	NEW GSM
POWER DROP #4	30	15	16		
		17	18	20	SPARE
POWER DROP #5	30	19	20	50	HVAC I COND
		21	22		
HVAC II	50	23	24	20	NEW GSM
		25	26		
POWER DROP #6	30	27	28		
		29	30	20	NEW GSM
SPACE		31	32		
		33	34		
		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



ANTENNA MOUNT DETAIL NOT TO SCALE 4/06



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

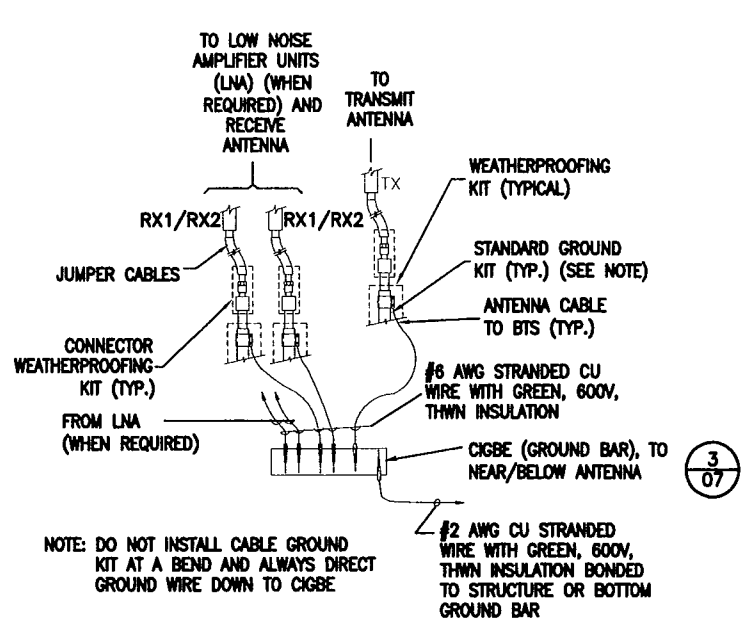
Edwards AND Kelcey
 EDWARDS AND KELCEY, INC.
 1247 WARD AVENUE
 WEST CHESTER, PA 19380-4259
 E & K PROJ.#: 020015.011
 CONTACT: ROB DAVIS
 PHONE: (401) 272-1969

SITE NAME: LITCHFIELD/KENT
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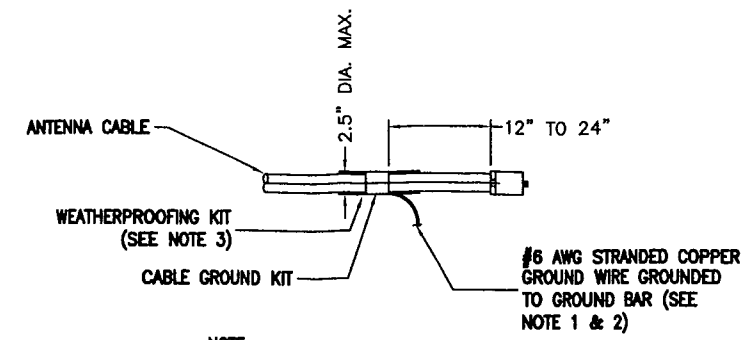
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L04 - LITCHFIELD/KENT		
STANDARD DETAILS		
JOB NO.	DRAWING NUMBER	REV
24623-313	CT-L04-06	2

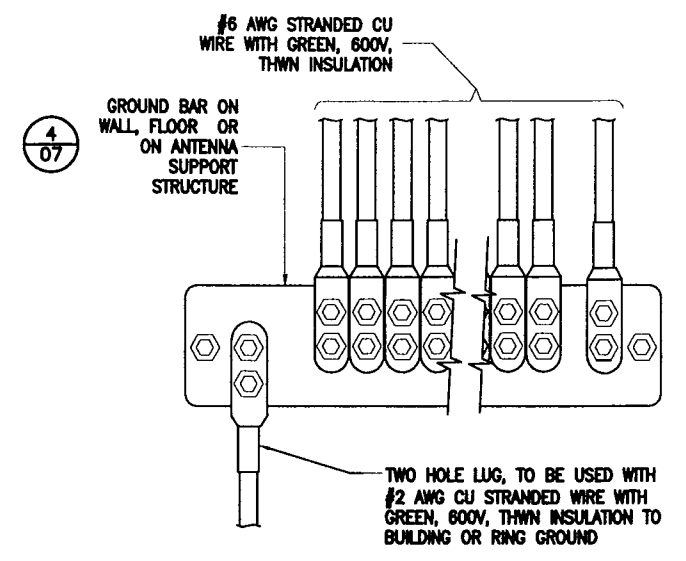


CONNECTION OF GROUND WIRE TO GROUND BAR (522A) NOT TO SCALE (1/07)

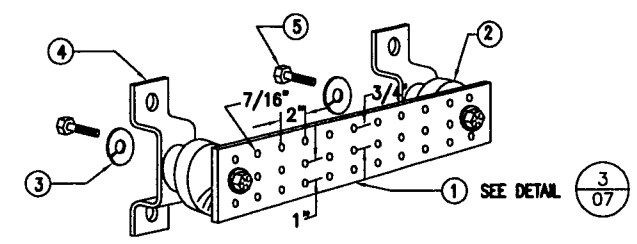


- NOTE:
- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
 - GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
 - WEATHER PROOFING SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.

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

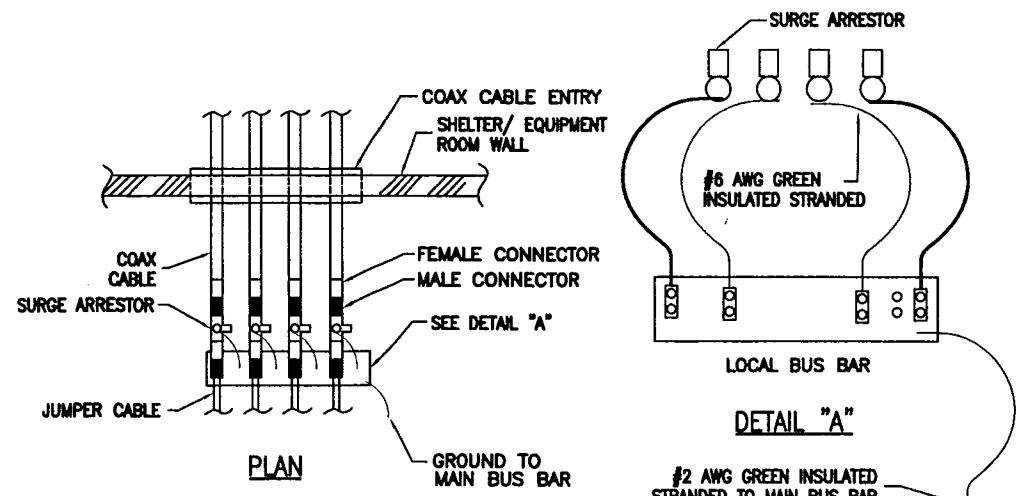


INSTALLATION OF GROUND WIRE TO GROUND BAR (508A) NOT TO SCALE (3/07)



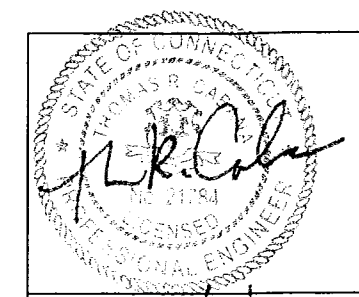
- LEGEND
- COPPER GROUND BAR, 1/2" X 4" X 20", NEWTON INSTRUMENT CO. CAT. NO. B-6142 OR EQUAL. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION.
 - INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4
 - 5/8" LOCKWASHERS, NEWTON INSTRUMENT CO. CAT. NO. 3015-8
 - WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO.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

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



- NOTE:
- 4 MAX. LOOPED ARRESTORS

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



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

L04 - LITCHFIELD/KENT	
STANDARD DETAILS	
JOB NO.	DRAWING NUMBER
24623-313	CT-L04-07
REV	
2	

Edwards AND Kelcey
EDWARDS AND KELCEY, INC.
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WEST CHESTER, PA 19380-4259
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SCALE AS SHOWN		DESIGNED	DRAWN		