STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

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

December 19, 2005

New Cingular Wireless PCS, LLC
c/o David Malko
36 Quarry Road
Chester, VT 05143

RE: **EM-CING-138-135-034-015-051130** - New Cingular Wireless PCS, LLC notice of intent to modify existing telecommunications facilities located at 623 Honeyspot Road, Stratford; 555 Main Street, Stamford; 39 West Street, Danbury; Moses Mountain, Danbury; and 430 John Street, Bridgeport, Connecticut.

Dear Mr. Malko:

At a public meeting held on December 14, 2005, the Connecticut Siting Council (Council) acknowledged your notice to modify all of these existing telecommunications facilities except the Moses Mountain, Danbury site, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies, with the following conditions:

1. The Stratford tower is modified per Appendix B of the structural analysis report dated October 3, 2005 and signed Oscar Pedraza, P.E. prior to the antenna swap and that a letter signed by a Professional Engineer is submitted to the Council to certify that the modifications have been properly completed.
2. The Stamford site is modified as specified on the structural analysis letter sealed by Demirtas Bayar, P.E. and that a letter signed by a Professional Engineer is submitted to the Council to certify that the modifications have been properly completed.

The Council tabled the Moses Mountain proposal pending the receipt of additional information on the RF power density. This item will be presented at a future Council meeting.

The proposed modifications are to be implemented as specified here and in your notice dated November 30, 2005, including the placement of all necessary equipment and shelters within the tower compounds. 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 existing facility sites that would not increase tower heights, extend the boundaries of the tower sites, increase noise levels at the tower site boundaries by six decibels, and increase the total radio frequencies electromagnetic radiation power densities measured at the tower site boundaries 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 these towers.

This decision is under the exclusive jurisdiction of the Council. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to any of these facilities 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,

Pamela B. Katz, P.E.
Chairman

PBK/laf

c: The Honorable John Fabrizi, Mayor, City of Bridgeport
Melanie J. Howlett, Assistant City Attorney, City of Bridgeport
The Honorable Mark D. Boughton, Mayor, City of Danbury
Dennis Elpern, City Planner, City of Danbury
The Honorable Dannel P. Malloy, Mayor, City of Stamford
Robert Stein, Planning and Zoning Director, City of Stamford
The Honorable James R. Miron, Town Manager, Town of Stratford
Gary Lorentson, Planning & Zoning Administrator, Town of Stratford
Christopher B. Fisher, Esq., Cuddy & Feder LLP
Kenneth C. Baldwin, Esq., Robinson & Cole LLP
Thomas J. Regan, Esq., Brown Rudnick Berlack Israels LLP
Thomas F. Flynn III, Nextel Communications Inc.
Christine Farrell, T-Mobile

FAX

TO: DAVID MARTIN Fax# 860-827-2950

FROM: DAVE MALKO (3 pages inc. cover)

DATE: 12/13/05

SUBJ: Power Density detail for 11/30/05 and 12/12/05 Exempt mod filings

Attached is the PD detail for my last 2 filings (11/30/05 & 12/12/05).

Call with any questions,

Dave.

Home/office: 802-875-4514

Cell: 860-301-6378

Cingular SiteID	Site	Carrier	#Channels	ERP/Ch	Ant Ht	Density (mW	MHz	S	%MPE	Cing Total
2176		CINGULAR GSM	7	296	148	0.0340	880	0.5867	5.80%	
2176		CINGULAR GSM	2	427	148	0.0140	1930	1.0000	1.40%	
2176	Bridgeport - 430 John Street	SNET	17	40	148	0.0112	850	0.5667	1.97%	9.17%
2124		CINGULAR GSM	4	296	69	0.0894	880	0.5867	15.24%	
2124		CINGULAR GSM	1	427	69	0.0322	1930	1.0000	3.22%	
2124	Danbury - 39 West Street	SNET/Cingular	16	40	70	0.0470	880	0.5867	8.01%	26.47%
2133	Danbury - Moses Mountain	SNET - Cellular	12	100	63.79	0.1060	850	0.5667	18.71%	
2133		CINGULAR GSM	2	296	65	0.0504	880	0.5867	8.59%	
2133		CINGULAR GSM	2	427	65	0.0727	1930	1.0000	7.27%	34.57%
2118	Stamford - 555 Main Street	Cingular/SNET	23	40	226	0.0065	880	0.5867	1.10%	
2118		Cingular GSM	8	296	235	0.0154	880	0.5867	2.63%	
2118		Cingular GSM	2	427	235	0.0056	1930	1.0000	0.56%	4.29%
2112		Cingular GSM	8	296	92	0.1006	880	0.5867	17.15%	
2112		Cingular GSM	2	427	92	0.0363	1930	1.0000	3.63%	
2112	Stratford - 623-627 Honeyspot Road	Cingular	14	40	90	0.0249	880	0.5867	4.24%	25.01%

November 30, 2005 Filing

David S. Malko, P.E.
802-875-4515

Cingular SiteID	Site	Carrier	#Channels	ERP/Ch	Ant Ht	Density (mW	MHz	S	%MPE	Cing Total
2094		CINGULAR GSM	4	296	100	0.0426	880	0.5867	7.26%	
2094	Westport - Sunny Lane	CINGULAR GSM	1	427	100	0.0154	1930	1.0000	1.54%	
2094	Westport - Sunny Lane	AT&T	0	250	90	0.0000	1945	1.0000	0.00%	8.79%
2153	Westport - 515 Boston Post Road	SNET/Cingular	12	40	120	0.0120	880	0.5867	2.04%	
2153	Westport - 515 Boston Post Road	CINGULAR GSM	3	296	120	0.0222	880	0.5867	3.78%	
2153	Westport - 515 Boston Post Road	CINGULAR GSM	1	427	120	0.0107	1930	1.0000	1.07%	6.89%
CT0093	Bridgeport - 1330 Chopsey Hill Road/1000	AT&T TDMA	0	116.2	165	0.0000	1945	1.0000	0.00%	
CT0093	Bridgeport - 1330 Chopsey Hill Road/1000	AT&T GSM	5	275	165	0.0182	1945	1.0000	1.82%	
CT0093		AT&T GSM	7	296	165	0.0274	880	0.5867	4.66%	
CT0093	Bridgeport - 1330 Chopsey Hill Road/1000	SNET	20	100	158	0.0288	880	0.5867	4.91%	11.39%

December 12, 2005 Filing

cingular
raising the bar

EM-CING-138-135-034-015-051130

November 30, 2005

Mr. S. Derek Phelps
Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Re: **Notice of Exempt Modifications to Various Facilities in the Towns of Stratford, Stamford, Danbury and Bridgeport, Connecticut**

Dear Mr. Phelps:

As part of its merger and integration efforts, New Cingular Wireless PCS, LLC ("Cingular" or "the Company") intends to modify instrumentation and/or antenna configurations at five existing facilities located in the Towns of Stratford, Stamford, Danbury and Bridgeport, Connecticut. Please accept this letter and attachments as notification, pursuant to R.C.S.A. § 16-50j-73, of construction that constitutes exempt modifications pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter and attachments is being sent to the chief elected official of each of the municipalities in which an affected cell is located.

The five sites which are the subject of this filing have been grouped based on their location and proximity and are discussed in more detail below. Additional exempt modification notifications will follow in the near future and will cover similarly grouped facilities within the balance of Fairfield County.

General

The current project involves changes at most of Cingular's cell sites in Fairfield County including over 40 sites under Council jurisdiction. The modifications will allow Cingular to operate its wireless communications services in the 1900 MHz frequency band in addition to its 850 MHz operations. At a typical site, this will be accomplished through the removal of nine (9) existing 850 MHz only antennas and their replacement with six (6) 850/1900 MHz dual-band antennas. Since each of the new, dual-band antennas is fed by two transmission lines, the typical number of such transmission lines at each site will increase from nine to a total of 12. In addition, tower mounted amplifiers, diplexers and small miscellaneous electronics will also be installed on the antenna platforms. The new antennas, transmission lines and tower mounted equipment have

been properly reflected in the structural analyses performed for the towers and attached to this filing. A more detailed analysis of each of the five sites follows.

Site 1

Site 1 is located at 623 Honeyspot Road, Stratford, CT and is owned by Becker, LLC (Cingular Site #2112). On the property are a 100-foot monopole tower, a large building, and several equipment shelters. In addition to Cingular, the tower currently supports antennas of wireless carriers AT&T Wireless, Nextel, Verizon and Sprint as well as Com-tronics and Metricom.

Cingular proposes to remove their nine (9) existing single-band antennas and install six (6) Powerwave Model 7770.00 dual-band directional antennas. The new antennas are 55" in height and will be mounted on the same platform as the existing antennas with a center of radiation of 92' above ground level (AGL). Six (6) tower mounted amplifiers and six (6) diplexers along with miscellaneous electronics to provide remote downtilting capabilities will also be installed on the existing antenna platform. Technical specification sheets for the antennas, amplifiers and diplexers are included the General Information section of the attachments to this notice. Additional radio equipment will be located within the Company's existing 12' x 16' equipment shelter. Since each new antenna requires two feeds from the radio equipment, new transmission lines will be added to the tower bringing the total number of lines to 12. An analysis has been performed for the tower taking into account the new antennas, transmission lines and other equipment and is included in the site specific section of the attachments. Site plans, elevations and photographs of the site are also included.

Based on the most recent filing for this site, the "worst-case" predicted RF power density for a point at the base of the tower, *excluding the operations of Cingular and AT&T Wireless*, is calculated to be approximately 45.58% of the applicable standard for uncontrolled environments as calculated for a mixed frequency site. A similar "worst-case" calculation for a point at the base of the tower indicates that when fully implemented, New Cingular's dual-band operations would contribute approximately 25.02% of the standard. The calculated "worst-case" power density for the combined operations at the site would therefore be approximately 70.60% of the applicable standard for uncontrolled environments as calculated for a mixed frequency site.

Site 2

Site 2 is located at 555 Main Street, Stamford, CT and is owned by SBC (Cingular Site #2118). On the property is a 125-foot lattice tower located on the roof of a 105-foot

building. In addition to Cingular, the tower currently supports antennas of wireless carrier T-Mobile as well as WinStar, PageNet and Broadcast Video.

Cingular proposes to remove their nine (9) existing single-band antennas and install six (6) Powerwave Model 7770.00 dual-band directional antennas. The new antennas are 55" in height and will be mounted on the same platform as the existing antennas with a center of radiation of 235' above ground level (AGL). Six (6) tower mounted amplifiers and six (6) diplexers along with miscellaneous electronics to provide remote downtilting capabilities will also be installed on the existing antenna platform. Technical specification sheets for the antennas, amplifiers and diplexers are included the General Information section of the attachments to this notice. Additional radio equipment will be located within the Company's existing equipment room within the building. Since each new antenna requires two feeds from the radio equipment, new transmission lines will be added to the tower bringing the total number of lines to 12. An analysis has been performed for the tower taking into account the new antennas, transmission lines and other equipment and is included in the site specific section of the attachments. Site plans, elevations and photographs of the site are also included.

Based on the most recent filing for this site, the "worst-case" predicted RF power density for a point at the base of the building, *excluding the operations of Cingular*, is calculated to be approximately 9.45% of the applicable standard for uncontrolled environments as calculated for a mixed frequency site. A similar "worst-case" calculation for a point at the base of the building indicates that when fully implemented, New Cingular's dual-band operations would contribute approximately 4.29% of the standard. The calculated "worst-case" power density for the combined operations at the site would therefore be approximately 13.74% of the applicable standard for uncontrolled environments as calculated for a mixed frequency site.

Site 3

Site 3 is located at 39 West Street, Danbury, CT and is owned by SBC (Cingular Site #2124). On the property is a 39-foot lattice tower and support pipe located on the roof of a 33-foot building. No other carriers are located at the site.

Cingular proposes to remove their three (3) existing single-band antennas and install six (3) Powerwave Model 7770.00 dual-band directional antennas. The new antennas are 55" in height and will be mounted at the same location behind a stealth antenna shroud as the existing antennas with a center of radiation of 69' above ground level (AGL). Six (6) tower mounted amplifiers along with miscellaneous electronics to provide remote downtilting capabilities will also be installed on the tower. Technical specification sheets for the antennas, amplifiers and diplexers are included the General Information section of the attachments to this notice. Additional radio equipment will be located within the Company's existing 21' x 32' equipment room within the building. Since each new antenna requires two feeds from the radio equipment, new transmission

lines will be added to the tower bringing the total number of lines to 6. A structural analysis has been performed for the tower taking into account the new antennas, transmission lines and other equipment and is included in the site specific section of the attachments. Site plans, elevations and photographs of the site are also included.

The "worst-case" predicted RF power density for a point at the base of the building, when New Cingular's dual-band operations is fully implemented, is calculated to be approximately 26.47% of the applicable standard for uncontrolled environments as calculated for a mixed frequency site.

Site 4

Site 4 is located on Moses Mountain, Danbury, CT and is owned by RCC Consultants (Cingular Site #2133). On the property are a 65-foot lattice tower and several equipment shelters. In addition to Cingular, the tower currently supports antennas of wireless carrier Verizon.

Cingular proposes to remove their twelve (12) existing single-band antennas and install six (6) Powerwave Model 7770.00 dual-band directional antennas. The new antennas are 55" in height and will be mounted on the same platform as the existing antennas with a center of radiation of 65' above ground level (AGL). Six (6) tower mounted amplifiers and six (6) diplexers along with miscellaneous electronics to provide remote downtilting capabilities will also be installed on the existing antenna platform. Technical specification sheets for the antennas, amplifiers and diplexers are included the General Information section of the attachments to this notice. Additional radio equipment will be located within the Company's existing 12' x 29' equipment room. Since each new antenna requires two feeds from the radio equipment, new transmission lines will be added to the tower bringing the total number of lines to 12. A structural analysis has been performed for the tower taking into account the new antennas, transmission lines and other equipment and is included in the site specific section of the attachments. Site plans, elevations and photographs of the site are also included.

The "worst-case" predicted RF power density for a point at the base of the tower, *excluding the operations of Cingular*, is calculated to be approximately 28.8% of the applicable standard for uncontrolled environments as calculated for a mixed frequency site. A similar "worst-case" calculation for a point at the base of the tower indicates that when fully implemented, New Cingular's dual-band operations would contribute approximately 34.57% of the standard. The calculated "worst-case" power density for the combined operations at the site would therefore be approximately 63.37% of the applicable standard for uncontrolled environments as calculated for a mixed frequency site.

Site 5

Site 5 is located at 430 John Street, Bridgeport, CT and is owned by RCC Consultants (Cingular Site #2176). On the property is an approximate 145-foot building with a roof-mounted lattice tower. The antennas associated with this modification are located on the parapet wall of the building and not on the tower. No other carriers are located at the site.

Cingular proposes to remove their nine (9) existing single-band antennas and install six (6) Powerwave Model 7770.00 dual-band directional antennas. The new antennas are 55" in height and will be mounted on the same mounting pipes as the existing antennas with a center of radiation of 148' above ground level (AGL). Six (6) tower mounted amplifiers along with miscellaneous electronics to provide remote downtilting capabilities will also be installed on the roof. Technical specification sheets for the antennas and amplifiers are included the General Information section of the attachments to this notice. Additional radio equipment will be located within the Company's existing 16' x 51' equipment room in the building. Since each new antenna requires two feeds from the radio equipment, new transmission lines will be added to the installation bringing the total number of lines to 6. An analysis has been performed for the antenna mounts taking into account the new antennas, transmission lines and other equipment and is included in the site specific section of the attachments. Site plans, elevations and photographs of the site are also included.

The "worst-case" predicted RF power density for a point at the base of the building, when New Cingular's dual-band operations is fully implemented, is calculated to be approximately 9.17% of the applicable standard for uncontrolled environments as calculated for a mixed frequency site.

Summary

The proposed changes to the facilities do not constitute modifications as defined in Connecticut General Statutes ('C.G.S.") § 16-50i(d) because the general physical characteristics of the facilities will not be significantly changed or altered. Rather, the planned modifications to the facilities fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).

1. The proposed modification will not increase the heights of the towers. In all cases, the number of antennas will be reduced and will result in a reduction in the towers'/buildings' profiles. The enclosed drawings confirm that the planned modifications will not increase the heights or the profiles of the towers/buildings. Based on the attached structural analyses, the facilities are capable of supporting the reconfigured loads discussed herein.

2. The installation of the proposed equipment, as reflected on the attached site plans, will not require an extension of the site boundaries.

3. The proposed modifications to the facility will not increase the noise levels at the existing facility by six decibels or more.

4. As discussed above, the operation of the reconfigured sites will not increase the total radio frequency (RF) power density to a level at or above the applicable standard.

For the foregoing reasons, New Cingular Wireless PCS, LLC respectfully submits that the proposed addition of antennas and equipment at the subject facilities constitute exempt modifications under R.C.S.A. § 16-50j-72(b)(2).

Sincerely,

David S. Malko, P.E.
Consultant for New Cingular Wireless

Enclosures

cc: Honorable Joseph G. Crudo, Town Council Chairman, Stratford
Honorable Dannel P. Malloy, Mayor, Stamford
Honorable Mark D. Boughton, Mayor, Danbury
Honorable John Fabrizi, Mayor, Bridgeport

General Information Attachments

1. Antenna Specifications
2. Tower Mounted Amplifier Specifications
3. Diplexer Specifications

Dual Broadband Antenna

90° 1.4 m MET Antenna

Part Number:	Horizontal Beamwidth: 90°	Electrical Downtilt: Adjustable
7770.00	Gain: 13.5/16 dBi	Connector Type: 7/16 female

The Powerwave dual band dual polarized broadband antenna has individual adjustable electrical downtilt per band (upgradeable to Remote Electrical Tilt (RET). Four connector ports allow separate tilts on each frequency band and ensure the use of diversity concepts. The phase shifter technology, based on a patented sliding dielectric, minimizes intermodulation distortion and maximizes efficiency. The slant +/- 45° dual polarization system provides the independent fading signals needed for achieving top-quality coverage via diversity concepts. The Powerwave Broadband antenna design is based on a patented stacked aperture-coupled patch technology, which provides high isolation performance and a wide VSWR bandwidth. The antennas have superior radiation patterns due to a unique reflector design which provides a very small variation of the –3dB horizontal beam width over the frequency band as well as a high front-to-back ratio.

Key Benefits

- Excellent broad- and multi-band capabilities
- Polarization purity makes good diversity gain
- Excellent pattern performance and high gain over frequency
- High passive intermodulation performance
- Light, slim and robust design

Preliminary

ANTENNA SYSTEMS

BASE STATION SYSTEMS

COVERAGE SYSTEMS

Dual Broadband Antenna

Electrical Specifications (Preliminary)

Frequency band (MHz)	806-960		1710-2170
Gain, ± 0.5dB (dBi)	13.5		16.0
Polarization		Dual linear ±45°	
Nominal Impedance (Ohm)		50	
VSWR	1.5:1		
VSWR			1.5:1
Isolation between inputs (dB)	30		
Isolation between inputs (dB)			30
Inter band isolation (dB)		40	
Horizontal -3 dB beamwidth	85 ± 5°		85 ± 5°
Tracking, Horizontal plane, ±60° (dB)	<2.0		
Tracking, Horizontal plane, ±60° (dB)			<2.0
Electrical downtilt range (adjustable)	0° to 10°		0° to 8°
Vertical -3 dB beamwidth	14.3 ± 2.0°		6.6 ± 1°
Sidelobe suppression, Vertical 1 st upper (dB)	>17,16,15 x=0, 5, 10° MET		> 17, 16,15 x=0, 4, 8° MET
Vertical beam squint	<0.8°		<0.5°
First null-fill (dB)	<-25		<-25
Front-to-back ratio (dB)	>25		>27
Front-to-back ratio, total power (dB)	>20		>23
IM3, 2Tx@43dBm (dBc)	<-153		
IM3, 2Tx@43dBm (dBc)			<-153
IM7, 2Tx@43dBm (dBc)			<-160
Power Handling, Average per input (W)	400		250
Power Handling, Average total (W)	800		500

All specifications are subject to change without notice.
Contact your Powerwave representative for complete performance data.

Mechanical Specifications

Connector Type	4 x 7/16 DIN female
Connector Position	Bottom
Dimensions, HxWxD	1408mm x 280mm x 125mm (55"x11"x5")
Weight Including Brackets	15.8 kg (35 lbs)
Wind Load, Frontal, 42m/s Cd=1	435N (98 lbf)
Survival Wind Speed (m/s)	70 (156mph)
Lightning Protection	DC grounded
Radome Material	GRP
Radome Color	Light Gray
Mounting	Pre-mounted Standard Brackets
Packing Size	1550mm x 355mm x 255mm (61"x14"x10")

Corporate Headquarters
Powerwave Technologies, Inc.
1801 East St. Andrew Place
Santa Ana, CA 92705 USA
Tel: 714-466-1000
Fax: 714-466-5800
www.powerwave.com

Main European Office
Antennvägen 6
SE-187 80 Täby
Sweden
Tel: +46 8 540 822 00
Fax: +46 8 540 823 40

Main Asia Pacific Office
23 F Tai Yau Building
181 Johnston Road
Wanchai, Hong Kong
Tel: +852 2512 6123
Fax: +852 2575 4860

Powerwave technologies

COVERAGE AND CAPACITY | TECHNOLOGY LEADER | GLOBAL PARTNER | INTEGRATED SOLUTIONS | QUALITY AND RELIABILITY

D031-08208 Rev A

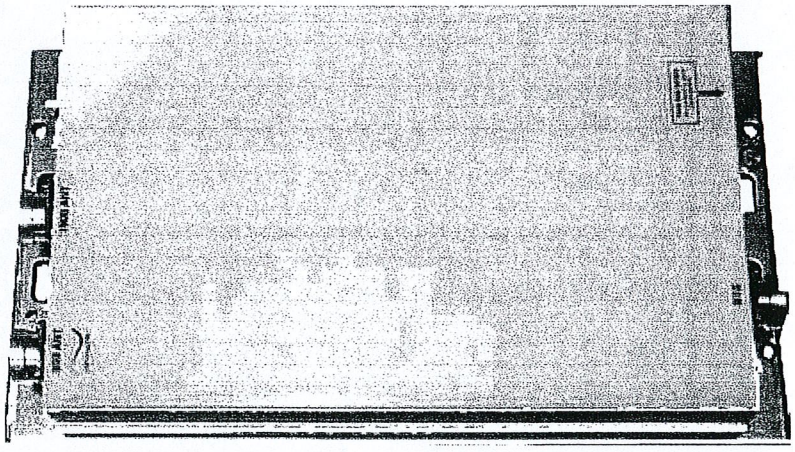
Tower Mounted Amplifier

LGP21401 TMA-DD-1900 FB with 850 Bypass Tower Mounted Amplifier

Frequency: 1850-1990 MHz Band
Gain: 12 dBd

IMD Specification: <-118dBm
Return Loss:18 dB or better

Powerwave's 21401 Series of tower mounted amplifiers are designed for full band coverage of the PCS-1900 band with an 800 MHz cellular band bypass. It has dual duplex capability so you can use one line for RX/TX and transmit through the TMA while amplifying RX on the same line. Deployed in a network it will increase capacity and coverage as well as extend the battery life time for the handsets. The 800 MHz cellular band passes through the TMA without amplification.



ANTENNA SYSTEMS

BASE STATION SYSTEMS

COVERAGE SYSTEMS

LGP21401 - Tower Mount Amplifier

Gain	12 dB
Uplink frequency	1850-1910 MHz
Downlink frequency	1930 – 1990 MHz
Return loss	18 dB or better
Noise figure	1.5 dB typical
Intermodulation@2x43dBm carriers	<-118 dBm in receive band
Output 3rd order Intercept Point (OIP3)	>+22 dBm
Rejection 1912 MHz (RX in Filter)	10 dB
Rejection in TX band	80 dB
Alarm functionality	Two levels, individually supervised LNA branches
Power consumption	1.5 W per LNA @12 VDC
Supply voltage	9 - 15 V

Mechanical Specifications

RF connectors	7/16 DIN female(s)
Dimensions	14"x7"x2.7" (365x176x68mm)
Weight	17.5 lbs (<8kg)
Mounting kit	Mounting kit is included for pole and wall. Other types may be available on request.

Corporate Headquarters
Powerwave Technologies, Inc.
1801 East St. Andrew Place
Santa Ana, CA 92705 USA
Tel: 714-466-1000
Fax: 714-466-5800
www.powerwave.com

Main European Office
Antennvägen 6
SE-187 80 Täby
Sweden
+46 8 540 822 00
+46 8 540 824 85 FAX

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COVERAGE AND CAPACITY | TECHNOLOGY LEADERSHIP | GLOBAL PARTNER | INTEGRATED SOLUTIONS | QUALITY AND RELIABILITY

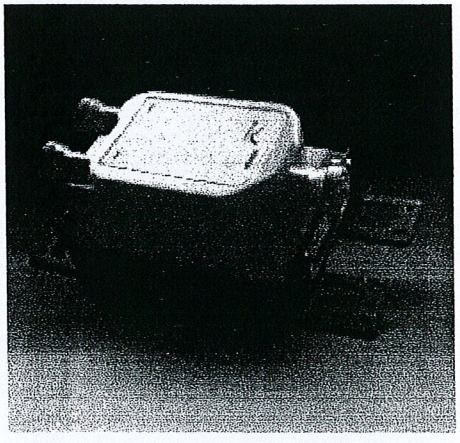
PN0000000-00

824-896/1850-1990 MHz Diplexer

Diplexer for 824-896/1850-1990MHz with Configurable DC Transparency

Part Number:	Frequency Range: 824-894/1850-1990 MHz	Return Loss: >20 dB
LGP13519		Insertion Loss: 0.2 dB / 0.3 dB

The Powerwave® Diplexer filter DCT is available both as single and double unit. Each diplexer has one port for 824-894 systems, one port for 1850-1990 GSM systems and a common port. It is designed for outdoor use and intended for co-location of base stations to enable sharing of feeder, TMA system and antenna. The unit can be used both at the BTS and for combining frequency bands to a common port and at the antenna end for splitting the frequency bands to separate antennas.

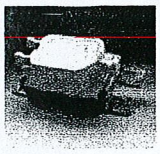


824-894/1850-1990 MHz Diplexer

Key Benefits:

- Compact Design
- Inbuilt DC Transparency and Subcarrier Support
- Excellent Power Handling
- Negligible Transmit Band Loss
- Lightning Protected on All Ports

Powerwave technologies



824-894/1850-1990 Diplexer

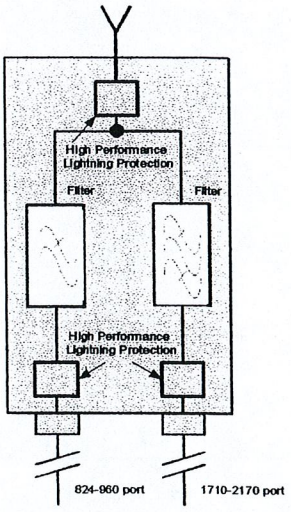
Electrical Specifications

800-900 Port	Frequency Range, Full Band (MHz)	824-894 MHz
	Insertion Loss (dB)	<0.2 dB
	Return Loss (dB)	>20 dB
	Rejection 1850-1990 MHz	>55 dB
	Rejection 2110-2170 MHz	>55 dB
	Average Power Handling	>500 W
	Peak Power	10 kW
	IM, 2Tx@43dBm (dBc)	<-153
1900 Port	Frequency Range, Full Band (MHz)	1850-1990 MHz
	Insertion Loss (dB)	<0.3 dB
	Return Loss (dB)	>20 dB
	Rejection 824-896 MHz	>54 dB
	Rejection 896-960 MHz	>54 dB
	Average Power Handling	>250 W
	Peak Power	5 kW
	IM, 2Tx@43dBm (dBc)	<-153

All specifications are subject to change without notice. Contact your Powerwave representative for complete performance data.

Mechanical Specifications

Size, WxHxD (without mounting plate)	4.4" x 6.3" x 3" (112x158x74mm)
Weight	2.4 kg (5.3 lbs)
Color	Off White (NCS 1502-R)
Housing	Aluminum, IP 65
RF-connectors	DIN 7/16 female
Mounting Kit	Hose Clamps in Stainless Steel
Temperature Range	-40 °C to +65 °C
MTBF	30 Million Hours
Safety	EN 60 950, UL 69 950, ETL
Ingress Protection IP 65	EN 60 529
Environmental	ETS 300 019



Corporate Headquarters
Powerwave Technologies, Inc.
1801 East St. Andrew Place
Santa Ana, CA 92705 USA
Tel: 714-466-1000
Fax: 714-466-5800
www.powerwave.com

Main European Office
Antennvägen 6
SE-187 80 Täby
Sweden
Tel: +46 8 540 822 00
Fax: +46 8 540 823 40

Hong Kong Office
23 F Tai Yau Building
181 Johnston Road
Wanchai, Hong Kong
Tel: +852 2512 6123
Fax: +852 2575 4860

Powerwave technologies

COVERAGE AND CAPACITY | TECHNOLOGY LEADERSHIP | GLOBAL PARTNER | INTEGRATED SOLUTIONS | QUALITY AND RELIABILITY

PNLGP135nn

Site Specific Attachments

Site 1

1. Site Plans
2. Tower Structural Analysis
3. Site Photographs

APPROVALS

NAME (PRINT)	SIGNATURE	DATE
CINGULAR		
NAME (PRINT)	SIGNATURE	DATE
SAI		
NAME (PRINT)	SIGNATURE	DATE
SITING COUNCIL COMMITTEE		
NAME (PRINT)	SIGNATURE	DATE
OTHER		

cingular WIRELESS

SITE NUMBER: 2112
SITE NAME: STRATFORD

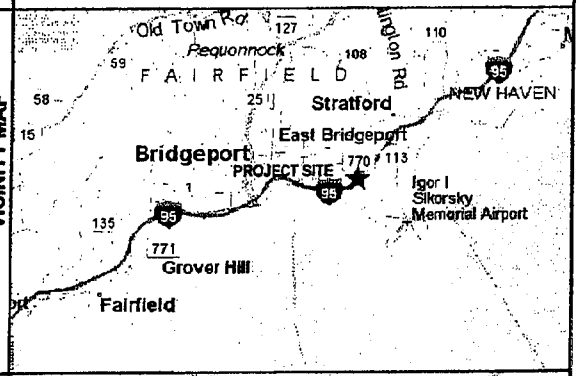
DRAWING INDEX

		REV
2112 - T1	TITLE SHEET	0
2112 - C1	SITE PLAN	0
2112 - C2	SITE ELEVATION & ANTENNA PLAN	0
2112 - C3	ANTENNA PLUMBING DIAGRAM-ALPHA-BETA-GAMMA	0
2112 - C4	RF DATA INFORMATION	0

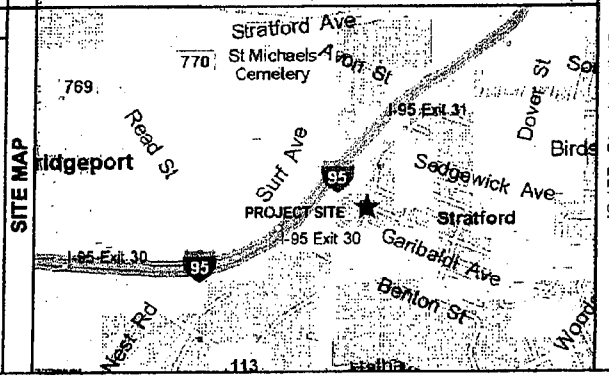
MAPS & DIRECTIONS

FROM I-95 EAST TAKE EXIT 31 AND TURN RIGHT ONTO HONEYSPOT RD. TURN RIGHT ONTO BROWNING ST. TOWER SITE IS ON THE RIGHT.

VICINITY MAP



SITE MAP



BLDG. CODES AND STANDARDS

SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

BUILDING CODE:
INTERNATIONAL BUILDING CODE (IBC), 2003

ELECTRICAL CODE:
NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70 – 2002 NATIONAL ELECTRICAL CODE

LIGHTNING PROTECTION CODE:
NFPA 780 – 2000, LIGHTNING PROTECTION CODE

SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS.
AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION
TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222 F, STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES:
TIA 607, COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS

INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM
IEEE 1100 (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRONIC EQUIPMENT

IEEE C62.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND "HIGH SYSTEM EXPOSURE")

TELCORDIA GR-1275, GENERAL INSTALLATION REQUIREMENTS

TELCORDIA GR-1503, COAXIAL CABLE CONNECTIONS

ANSI T1.311, FOR TELECOM – DC POWER SYSTEMS – TELECOM, ENVIRONMENTAL PROTECTION

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

PROJECT INFORMATION

SCOPE OF WORK:	UNMANNED TELECOMMUNICATIONS FACILITY MODIFICATIONS
SITE NUMBER:	2112
SITE NAME:	STRATFORD
ADDRESS:	623 HONEYSPOT RD
CITY, STATE ZIP	STRATFORD, CT
LATITUDE:	41.176806°
LONGITUDE:	-73.146492°
JURISDICTION:	FAIRFIELD COUNTY
CURRENT USE:	TELECOMMUNICATIONS FACILITY
PROPOSED USE:	TELECOMMUNICATIONS FACILITY
SITE TYPE:	MONOPOLE
RAD CENTER:	92'-0"
OWNER:	BECKER, LLC

cingular WIRELESS

SAI communications

PSG ENGINEERING, LTD.

SITE NUMBER:
2112
SITE NAME:
STRATFORD
SITE ADDRESS:
623 HONEYSPOT RD
STRATFORD, CT

DRAWN BY: JR
CHECKED BY: GP
PROJECT NO: 050414128-A118300

SUBMITTALS

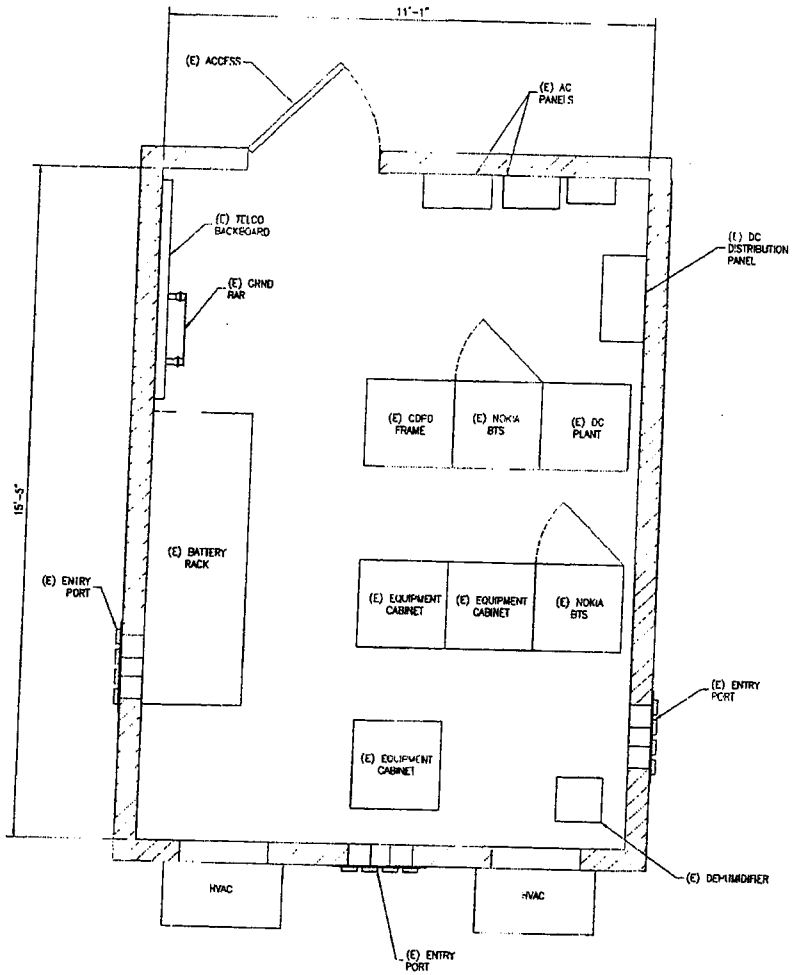
NO	DESCRIPTION	BY	DATE
0	SITING COMMITTEE CDS	JR	11/21/05

STATE OF CONNECTICUT
OSCAR PEÑA PLAZA
No 21292
LICENSED
PROFESSIONAL ENGINEER
11/21/05

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T1

PURPOSE OF THESE DESIGN DOCUMENTS ARE FOR 6 ANTENNA REPLACEMENTS AT EL. 92', AND REMOVAL OF 3 CINGULAR (BLUE) ANTENNAS AT EL. 190'



SITE PLAN (1 / C1)

SCALE: 11x17 - 3/8"=1'-0"

SCALE: 22x34 - 3/4"=1'-0"

cingular WIRELESS

SAI communications

PSG ENGINEERING, LTD.

SITE NUMBER:
2112
SITE NAME:
STRATFORD
SITE ADDRESS:
623 HONEYSPOT RD
STRATFORD, CT

DRAWN BY: JR

CHECKED BY: DP

PROJECT NO: 050412B-A16500

SUBMITTALS

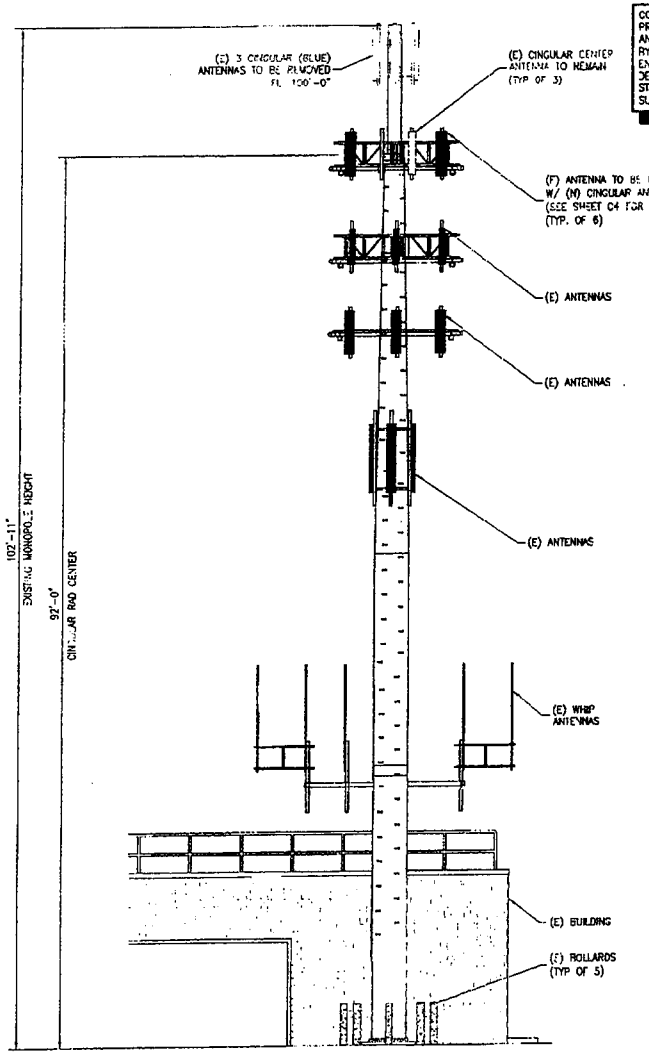
NO	DESCRIPTION	BY	DATE
0	SITING COMMITTEE CDS	JR	11/21/05

STATE OF CONNECTICUT OSCAR PEÑA No. 21032 LICENSED PROFESSIONAL ENGINEER 11/21/05

SHEET TITLE
SITE PLAN

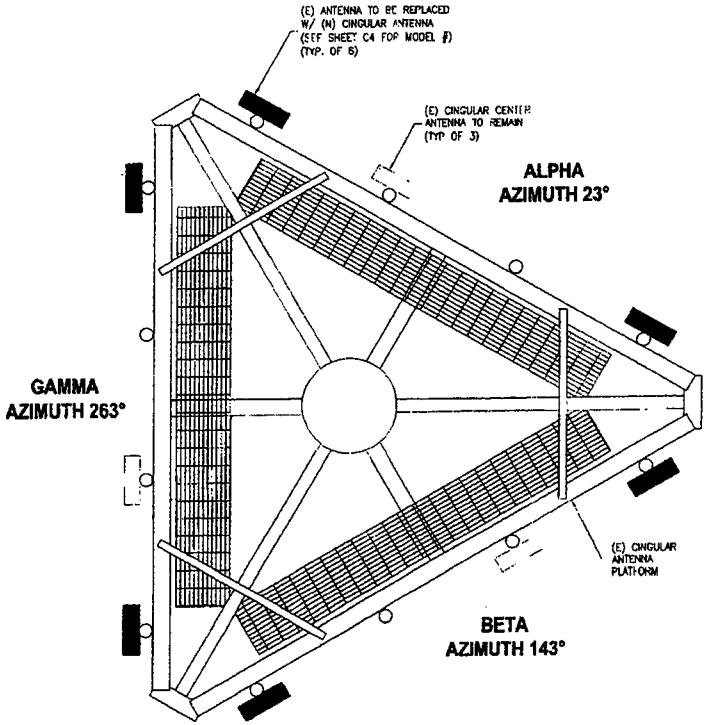
SHEET NUMBER
C1

CONSTRUCTION SHALL NOT PROCEED UNTIL A STRUCTURAL ANALYSIS HAS BEEN PERFORMED BY A LICENSED PROFESSIONAL ENGINEER REGISTERED IN CT TO DETERMINE IF THE TOWER IS STRUCTURALLY ADEQUATE TO SUSTAIN PROPOSAL.



SITE ELEVATION (1 / C2)
SCALE: 11x17 - NTS
SCALE: 22x34 - NTS

PURPOSE OF THESE DESIGN DOCUMENTS ARE FOR 6 ANTENNA REPLACEMENTS AT EL. 92', AND REMOVAL OF 3 CINGULAR (BLUE) ANTENNAS AT EL. 100'



ANTENNA PLAN VIEW (2 / C2)
SCALE: 11x17 - NTS
SCALE: 22x34 - NTS

cingular WIRELESS

SAI communications

PSC ENGINEERING, LTD.

SITE NUMBER:
2112
SITE NAME:
STRATFORD
SITE ADDRESS:
623 HONEYSPOT RD
STRATFORD, CT

DRAWN BY: JR
CHECKED BY: OP
PROJECT NO. 05044128-A16500

SUBMITTALS

NO	DESCRIPTION	BY	DATE
0	SITING COMMITTEE SUB.	JR	11/21/05

STATE OF CONNECTICUT OSCAR PEDRAZA No. 21090 LICENSED PROFESSIONAL ENGINEER 11/21/05

SHEET TITLE
SITE ELEVATION & ANT PLAN

SHEET NUMBER
C2

October 3, 2005

George Bullock
Site Acquisitions, Inc.
184 Rockingham Road
Unit A
Londonderry, NH 03052
(512) 921-1681

PSG Engineering, Ltd.
245 Commerce Green Blvd.
Suite 240
Sugar Land, TX 77478
Phone: (281) 343-7099
Fax: (281) 343-7127

Subject: **Structural Analysis Report**

Carrier Designation	***Cingular Wireless* Co-Locate** **Carrier Site Number:** *"2112"* **Carrier Site Name:** *"STRATFORD"*
Engineering Firm Designation	**PSG Engineering Project Number:** *0504A128-A160100*
Site Data	**623 Honetspot Road, Stratford, CT, Fairfield County** **Latitude *41°-10'-36.50"*, Longitude *-73°-08'-47.37"*.** *100* **Foot -** *Monopole* **Tower**

Dear Mr. Bullock,

PSG Engineering, Ltd. is pleased to submit this **"Structural Analysis Report"** to determine the structural integrity of the aforementioned tower. This analysis has been performed in accordance with the terms of Site Acquisitions, Inc. Purchase Order Number *CT-PSG-005*. The purpose of the analysis is to determine the suitability of the tower with the addition of the proposed equipment listed in Table 1 of this report when combined with the existing and reserved equipment on the structure. This analysis has been performed in accordance with the TIA/EIA 222-F standard based upon wind speed condition of 85 mph.

Based on our analysis we have determined the tower and foundation ***ARE*** sufficient for the proposed loading provided that the proposed structural modifications are implemented.

We at *PSG Engineering* appreciate the opportunity of providing our continuing professional services to you and Site Acquisitions, Inc. If you have any questions or need further assistance on this or any other projects please give us a call.

Respectfully submitted,

Oscar Pedraza, P.E.
President

TABLE OF CONTENTS

INTRODUCTION

This tower was designed by Engineering Endeavors, Inc. on September 10, 1999 per TIA/EIA-222-F using a basic wind speed of 85 mph with ½" radial ice (EEI Drawing #GS51667). The tower was originally designed for an overall height of 90 feet. The tower was extended, based on a 12'-11" extension drawing by Engineering Endeavors dated December 12, 1999 (EEI Drawing #WA11341), to an overall height of 102'-11" to accommodate the existing loading at 100 feet. Foundation comparisons were based on original foundation reactions from the original foundation design by Engineering Endeavors dated October 28, 1999 (EEI Drawing #5553-90).

ANALYSIS CRITERIA

This tower is designed using the TIA/EIA-222-F standard.
The following design criteria apply:

- Basic wind speed of 85 mph.
- Nominal ice thickness of 0.5000 in.
- Ice density of 56 pcf.
- A wind speed of 74 mph is used in combination with ice.
- Deflections calculated using a wind speed of 50 mph.
- Feedline torque is considered.
- Pressures are calculated at each section.
- Stress ratio used in tower member design is 1.333

Table 1 – Proposed Antenna and Cable Information

Center Line Elevation (feet)	Number Of Antenna	Antenna Manufacturer	Antenna Model	Mount	Number Of Feed Lines	Feed Line Size (inches)
92	6	Powerwave Technologies	7770.00	-	-	-
	6		LGP21401			
	6		LGP13519			

Table 2 – Installed (I) and Reserved (R) Antenna and Cable Information

Center Line Elevation (feet)	Number Of Antenna	Antenna Manufacturer	Antenna Model	Mount	Number Of Feed Lines	Feed Line Size (inches)
*100	3 (I)	EMS Wireless	RR90-17DP	Flush Mounts (3)	6(I)	7/8 (Internal)
**92	9 (I)	Swedcom	ALP 11011	Platform w/Rails (1)	9(I)	7/8 (Internal)
	1(I)	Unknown	3' Whip			
80	6 (I)	Decibel	DB844G45	Platform w/Rails (1)	12(I)	1 5/8 (Internal)
	6 (I)		DB950F40			
72	9 (I)	Decibel	DB950G65VTE	Low Profile Platform (1)	9(I)	1 1/4 (External)
58	3 (I)	EMS Wireless	Quad Pol Panel Antennas	Flush Mounts (3)	12(I)	7/8 (Internal)
26	1 (I)	Standard	15' omni antenna	Standoff T-Arm (1)	5(I)	7/8 (Internal)
	2 (I)		10' omni antenna			
	1 (I)		12' omni antenna			
	1 (I)		20' omni antenna			

*Note: All antennas and mounts to be removed from this level. Existing (6) six coax lines to be reused at El. 92' level.
**Note: (6) Six existing antennas to be removed and replaced with proposed loads. Remaining (3) three antennas, existing mount and (9) nine coax lines to remain.

Table 3 – Original Tower Manufacturer Design Antenna and Cable Information

Center Line Elevation (feet)	Number Of Antenna	Antenna Manufacturer	Antenna Model	Mount	Number Of Feed Lines	Feed Line Size (inches)
100	3	Unknown	Directional Antennas	8' Low Visibility Antenna Mount	Unknown	
90	12	Unknown	Directional Antennas	10'-8" Standard Platform (1) w/ Corner T-Mounts (3)		
80	12	Unknown	Directional Antennas	10'-8" Standard Platform (1) w/ Corner T-Mounts (3)		
70	12	Unknown	Directional Antennas	10'-8" Standard Platform (1) w/ Corner T-Mounts (3)		
55	1	Unknown	Omni Antenna	6' Antenna Arm (1)		
25	6	Unknown	Directional Antennas	Antenna Array Arm (1)		

ANALYSIS PROCEDURE

Table 4 – Documents Provided

Document	Remarks	Reference	Source
Original Tower Manufacturer Drawings	Engineering Endeavors, Inc.	EEI Drawing No. GS51667	Engineering Endeavors, Inc.
Tower Extension Drawing		EEI Drawing No. WA11341	
Original Foundation Design		EEI Drawing No. 5553-90	
Proposed Tower Loading	Cingular Wireless RF Data Sheet	RF Engineer: Francis Malabanan (860.513.7625)	Site Acquisitions, Inc.
Existing Tower Loading	Tectonic Engineering & Surveying Consultants P.C.	W.O. # 2850.CT969	

Analysis Methods

ERI Tower (Version 3.0.0.16), a commercially available software program, was used to create a three-dimensional model of the tower and calculate member stresses for various dead, live, wind, and ice load cases. All loads were computed in accordance with the ANSI/EIA/TIA 222F or the local building code requirements. Selected output from the analysis is included in Appendix A.

Assumptions

1. Tower and structures were built in accordance with the manufacturer's specifications.
2. The tower and structures have been maintained in accordance with manufacturer's specifications.
3. The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2.
4. When applicable, transmission cables are considered to be structural components for calculating wind loads, as allowed by TIA/EIA-222F.

If any of these assumptions are not valid or have been made in error, this analysis may be affected, and PSG Engineering should be allowed to review any new information to determine its effect on the structural integrity of the tower.

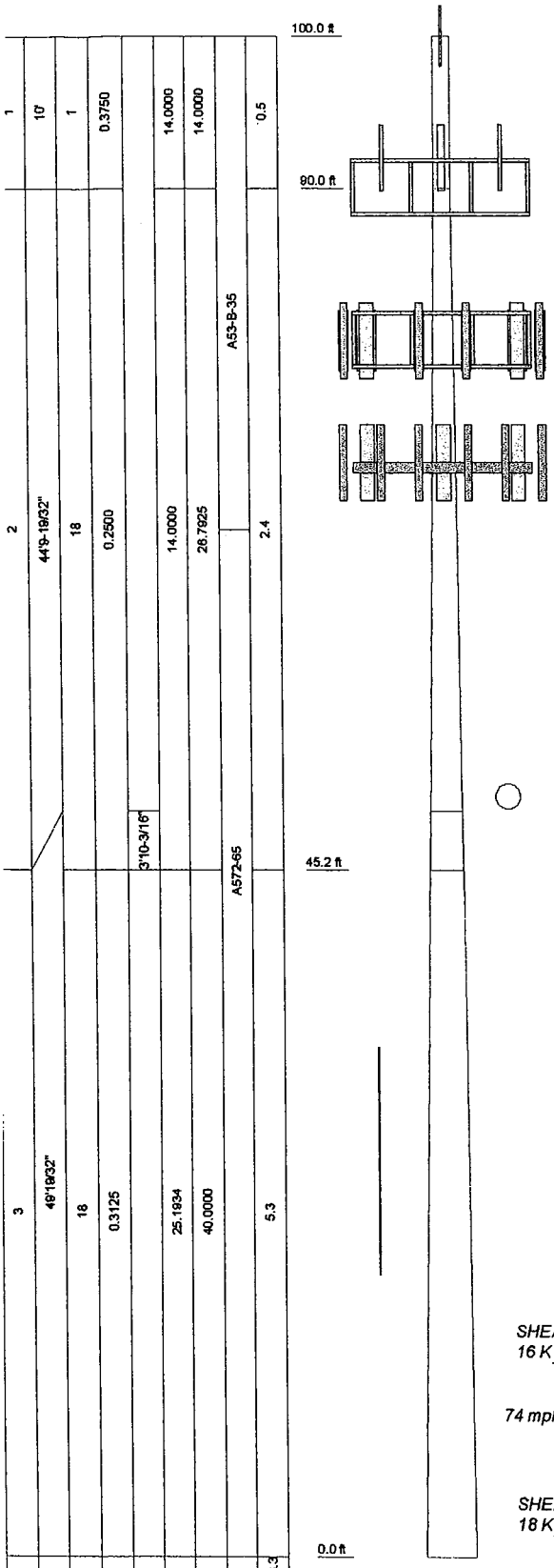
ANALYSIS RESULTS

Table 5 – Tower Section Capacity

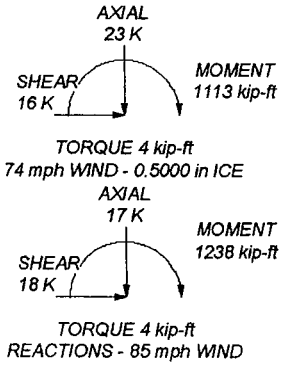
Section Number	Elevation (feet)	Percent Capacity Used	Pass / Fail
1	100 - 90	7.4	Pass
2	90 - 45	83.9	Pass
3	45 - 0	77.4	Pass
Base Plate		77.9	Pass
Anchor Bolts		55.0	Pass
Base Foundation (Compared with original design loads)		97.3	Pass

APPENDIX A

Output from Computer Programs



Section	Length (ft)	Number of Sides	Thickness (in)	Lap Spice (ft)	Top Dia (in)	Bot Dia (in)	Grade	Weight (K)
1	10'	1	0.3750		14.0000	14.0000	A53-B-35	0.5
2	44'9-19/32"	18	0.2500	3'10-3/16"	14.0000	26.7925		2.4
3	49'19/32"	18	0.3125		25.1934	40.0000	A572-65	5.3
								8.3



APPURTENANCES

TYPE	ELEVATION	TYPE	ELEVATION
Generic C-2 Lightning Spur	100	(2) DB844G45ZAXY w/Mount Pipe	80
(2) 7770.00 w/Mount Pipe	92	(2) DB950F40T2E-M w/Mount Pipe	80
(2) LGP2140X (TMA)	92	PiROD 13' Platform w/handrails (Monopole)	80
(2) LGP13519	92		
ALP 11011-N w/Mount Pipe	92	(2) DB844G45ZAXY w/Mount Pipe	80
(2) 7770.00 w/Mount Pipe	92	(3) DB950G65E-M w/Mount Pipe	72
(2) LGP2140X (TMA)	92	(3) DB950G65E-M w/Mount Pipe	72
(2) LGP13519	92	PiROD 15' Low Profile Platform (Monopole)	72
ALP 11011-N w/Mount Pipe	92		
(2) 7770.00 w/Mount Pipe	92	(3) DB950G65E-M w/Mount Pipe	72
(2) LGP2140X (TMA)	92	MB72RR65VDPALQ/-R w/Mount Pipe	58
(2) LGP13519	92	MB72RR65VDPALQ/-R w/Mount Pipe	58
ALP 11011-N w/Mount Pipe	92	MB72RR65VDPALQ/-R w/Mount Pipe	58
PiROD 13' Platform w/handrails (Monopole)	90	(2) 10' Whip	26
		12' Whip	26
(2) DB950F40T2E-M w/Mount Pipe	80	20' Whip	26
(2) DB844G45ZAXY w/Mount Pipe	80	5' Standoff T-Arm (14' face width)	26
(2) DB950F40T2E-M w/Mount Pipe	80	15' Whip	26

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A53-B-35	35 ksi	63 ksi	A572-65	65 ksi	80 ksi

TOWER DESIGN NOTES

1. Tower is located in Fairfield County, Connecticut.
2. Tower designed for a 85 mph basic wind in accordance with the TIA/EIA-222-F Standard.
3. Tower is also designed for a 74 mph basic wind with 0.50 in ice.
4. Deflections are based upon a 50 mph wind.
5. TOWER RATING: 80.9%

PSG Engineering Ltd.
8206 Forest Gate Drive
Sugar Land, Texas
Phone: (281) 343-7099
FAX: (281) 343-7127

Job:	**PSG Engineering Project Number: 0504A100-A16010**
Project:	*(2112) (STRATFORD)*
Client: Site Acquisitions, Inc.	Drawn by: / App'd:
Code: TIA/EIA-222-F	Date: 10/03/05 / Scale: NTS
Path: C:\Documents and Settings\Hachem\Desktop\2112\Modification\2112.eri	Dwg No. E-1

Tower Input Data

There is a pole section.
This tower is designed using the TIA/EIA-222-F standard.
The following design criteria apply:

Tower is located in Fairfield County, Connecticut.
Basic wind speed of 85 mph.
Nominal ice thickness of 0.5000 in.
Ice density of 56 pcf.
A wind speed of 74 mph is used in combination with ice.
Temperature drop of 50 °F.
Deflections calculated using a wind speed of 50 mph.
A non-linear (P-delta) analysis was used.
Pressures are calculated at each section.
Stress ratio used in pole design is 1.333.
Local bending stresses due to climbing loads, feedline supports, and appurtenance mounts are not considered.

Tapered Pole Section Geometry

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L1	100'-90'	10'	0'	Round	14.0000	14.0000	0.3750		A53-B-35 (35 ksi)
L2	90'-45'2-13/32"	44'9-19/32"	3'10-3/16"	18	14.0000	26.7925	0.2500	1.0000	A572-65 (65 ksi)
L3	45'2-13/32"-0'	49'19/32"		18	25.1934	40.0000	0.3125	1.2500	A572-65 (65 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in^2	I in^4	r in	C in	I/C in^3	J in^4	It/Q in^2	w in	w/t
L1	14.0000	16.0434	372.7635	4.8232	7.0000	53.2519	744.5114	8.0210	0.0000	0
	14.0000	16.0434	372.7635	4.8232	7.0000	53.2519	744.5114	8.0210	0.0000	0
L2	14.2160	10.9106	260.6108	4.8812	7.1120	36.6438	521.5646	5.4563	2.0240	8.096
	27.2058	21.0615	1874.6054	9.4226	13.6106	137.7314	3751.6774	10.5327	4.2755	17.102
L3	26.7619	24.6788	1930.1638	8.8327	12.7983	150.8145	3862.8674	12.3417	3.8840	12.429
	40.6171	39.3650	7833.4959	14.0891	20.3200	385.5067	15677.2994	19.6863	6.4900	20.768

Tower Elevation ft	Gusset Area (per face) ft^2	Gusset Thickness in	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in
L1 100'-90'				1	1	1		
L2 90'-45'2-13/32"				1	1	1		
L3 45'2-13/32"-0'				1	1	1		

Monopole Base Plate Data

Base Plate Data	
Base plate is square	
Base plate is grouted	√
Anchor bolt grade	A615-75
Anchor bolt size	2.2500 in
Number of bolts	10
Embedment length	60.0000 in
f'_c	3 ksi
Grout space	2.0000 in
Base plate grade	A572-60
Base plate thickness	1.7500 in
Bolt circle diameter	48.0000 in
Outer diameter	54.0000 in
Inner diameter	30.0000 in
Base plate type	Stiffened Plate
Bolts per stiffener	1
Stiffener thickness	0.5000 in
Stiffener height	12.0000 in

Feed Line/Linear Appurtenances - Entered As Area

Description	*Face or Leg*	*Allow Shield*	*Component Type*	*Placement* ft	*Total Number*		C_AA_A ft^2/ft	*Weight* plf
EL. 90' LEVEL								
LDF5-50A (7/8 FOAM)	A	No	Inside Pole	90' - 10'	15	No Ice	0.00	0.33
						1/2" Ice	0.00	0.33
*								
*								
EL. 80' LEVEL								
LDF7-50A (1-5/8 FOAM)	B	No	Inside Pole	80' - 10'	12	No Ice	0.00	0.82
						1/2" Ice	0.00	0.82
*								
*								
EL. 72' LEVEL								
LDF6-50A (1-1/4 FOAM)	A	No	CaAa (Out Of Face)	72' - 10'	8	No Ice	0.00	0.66
						1/2" Ice	0.00	1.91
LDF6-50A (1-1/4 FOAM)	A	No	CaAa (Out Of Face)	72' - 10'	1	No Ice	0.16	0.66
						1/2" Ice	0.25	1.91
*								
*								
EL. 58' LEVEL								
LDF5-50A (7/8 FOAM)	B	No	Inside Pole	58' - 10'	12	No Ice	0.00	0.33
						1/2" Ice	0.00	0.33
*								
*								
EL. 26' LEVEL								
LDF5-50A (7/8 FOAM)	B	No	Inside Pole	26' - 10'	5	No Ice	0.00	0.33
						1/2" Ice	0.00	0.33
*								
*								
TOWER HARDWARE								
Climbing Ladder (Ar)	C	No	CaAa (Out Of Face)	100' - 10'	1	No Ice	0.04	1.00
						1/2" Ice	0.14	1.53

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L1	100'-90'	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.375	0.01
L2	90'-45'2-13/32"	A	0.000	0.000	0.000	4.154	0.38
		B	0.000	0.000	0.000	0.000	0.39
		C	0.000	0.000	0.000	1.680	0.04
L3	45'2-13/32"-0'	A	0.000	0.000	0.000	5.456	0.38
		B	0.000	0.000	0.000	0.000	0.51
		C	0.000	0.000	0.000	1.320	0.04

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L1	100'-90'	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	1.375	0.02
L2	90'-45'2-13/32"	A	0.500	0.000	0.000	0.000	6.834	0.68
		B		0.000	0.000	0.000	0.000	0.39
		C		0.000	0.000	0.000	6.160	0.07
L3	45'2-13/32"-0'	A	0.500	0.000	0.000	0.000	8.976	0.78
		B		0.000	0.000	0.000	0.000	0.51
		C		0.000	0.000	0.000	4.840	0.05

Feed Line Center of Pressure

Section	Elevation ft	CP_X in	CP_Z in	CP_X Ice in	CP_Z Ice in
L1	100'-90'	-0.0472	0.0272	-0.1502	0.0867
L2	90'-45'2-13/32"	-0.0452	-0.1193	-0.1464	-0.1267
L3	45'2-13/32"-0'	-0.0343	-0.1441	-0.1164	-0.1821

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft Vert ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
EL. 90' LEVEL									
ALP 11011-N w/Mount Pipe	A	From Leg	4.00 0' 0'	0.0000	92'	No Ice 1/2" Ice	3.91 4.53	6.62 7.75	0.04 0.09
(2) 7770.00 w/Mount Pipe	A	From Leg	4.00 0'	0.0000	92'	No Ice 1/2" Ice	5.98 6.44	4.12 4.77	0.05 0.10

ERITower	Job: PSG Engineering Project Number: 0504A100-A160100	Page: 4 of 8
PSG Engineering Ltd. 8206 Forest Gate Drive Sugar Land, Texas Phone: (281) 343-7099 FAX: (281) 343-7127	Project: (2112) (STRATFORD)	Date: 16:16:49 10/03/05
	Client: Site Acquisitions, Inc.	Designed by:

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0'						
(2) LGP2140X (TMA)	A	From Leg	4.00 0' 0'	0.0000	92'	No Ice 1/2" Ice	1.23 1.38	0.37 0.48	0.02 0.02
(2) LGP13519	A	From Leg	4.00 0' 0'	0.0000	92'	No Ice 1/2" Ice	0.34 0.42	0.21 0.28	0.01 0.01
ALP 11011-N w/Mount Pipe	B	From Leg	4.00 0' 0'	0.0000	92'	No Ice 1/2" Ice	3.91 4.53	6.62 7.75	0.04 0.09
(2) 7770.00 w/Mount Pipe	B	From Leg	4.00 0' 0'	0.0000	92'	No Ice 1/2" Ice	5.98 6.44	4.12 4.77	0.05 0.10
(2) LGP2140X (TMA)	B	From Leg	4.00 0' 0'	0.0000	92'	No Ice 1/2" Ice	1.23 1.38	0.37 0.48	0.02 0.02
(2) LGP13519	B	From Leg	4.00 0' 0'	0.0000	92'	No Ice 1/2" Ice	0.34 0.42	0.21 0.28	0.01 0.01
ALP 11011-N w/Mount Pipe	C	From Leg	4.00 0' 0'	0.0000	92'	No Ice 1/2" Ice	3.91 4.53	6.62 7.75	0.04 0.09
(2) 7770.00 w/Mount Pipe	C	From Leg	4.00 0' 0'	0.0000	92'	No Ice 1/2" Ice	5.98 6.44	4.12 4.77	0.05 0.10
(2) LGP2140X (TMA)	C	From Leg	4.00 0' 0'	0.0000	92'	No Ice 1/2" Ice	1.23 1.38	0.37 0.48	0.02 0.02
(2) LGP13519	C	From Leg	4.00 0' 0'	0.0000	92'	No Ice 1/2" Ice	0.34 0.42	0.21 0.28	0.01 0.01
PiROD 13' Platform w/handrails (Monopole) * *	C	None		0.0000	90'	No Ice 1/2" Ice	31.30 40.20	31.30 40.20	1.82 2.45
EL. 80' LEVEL									
(2) DB844G45ZAXY w/Mount Pipe	A	From Leg	4.00 0' 0'	0.0000	80'	No Ice 1/2" Ice	7.71 8.44	5.63 6.73	0.05 0.11
(2) DB950F40T2E-M w/Mount Pipe	A	From Leg	4.00 0' 0'	0.0000	80'	No Ice 1/2" Ice	6.89 7.56	6.29 7.40	0.05 0.10
(2) DB844G45ZAXY w/Mount Pipe	B	From Leg	4.00 0' 0'	0.0000	80'	No Ice 1/2" Ice	7.71 8.44	5.63 6.73	0.05 0.11
(2) DB950F40T2E-M w/Mount Pipe	B	From Leg	4.00 0' 0'	0.0000	80'	No Ice 1/2" Ice	6.89 7.56	6.29 7.40	0.05 0.10
(2) DB844G45ZAXY w/Mount Pipe	C	From Leg	4.00 0' 0'	0.0000	80'	No Ice 1/2" Ice	7.71 8.44	5.63 6.73	0.05 0.11
(2) DB950F40T2E-M w/Mount Pipe	C	From Leg	4.00 0' 0'	0.0000	80'	No Ice 1/2" Ice	6.89 7.56	6.29 7.40	0.05 0.10
PiROD 13' Platform w/handrails (Monopole) *	C	None		0.0000	80'	No Ice 1/2" Ice	31.30 40.20	31.30 40.20	1.82 2.45

ERITower	Job PSG Engineering Project Number: 0504A100-A160100	Page 5 of 8
PSG Engineering Ltd. 8206 Forest Gate Drive Sugar Land, Texas Phone: (281) 343-7099 FAX: (281) 343-7127	Project (2112) (STRATFORD)	Date 16:16:49 10/03/05
	Client Site Acquisitions, Inc.	Designed by

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
*									
EL. 72' LEVEL									
(3) DB950G65E-M w/Mount Pipe	A	From Leg	4.00 0' 0'	0.0000	72'	No Ice 1/2" Ice	6.89 7.56	5.90 7.01	0.04 0.10
(3) DB950G65E-M w/Mount Pipe	B	From Leg	4.00 0' 0'	0.0000	72'	No Ice 1/2" Ice	6.89 7.56	5.90 7.01	0.04 0.10
(3) DB950G65E-M w/Mount Pipe	C	From Leg	4.00 0' 0'	0.0000	72'	No Ice 1/2" Ice	6.89 7.56	5.90 7.01	0.04 0.10
PiROD 15' Low Profile Platform (Monopole)	C	None		0.0000	72'	No Ice 1/2" Ice	17.30 22.10	17.30 22.10	1.50 2.03
*									
*									
EL. 58' LEVEL									
MB72RR65VDPALQ/-R w/Mount Pipe	A	From Leg	1.00 0' 0'	0.0000	58'	No Ice 1/2" Ice	10.50 11.07	6.42 7.37	0.06 0.13
MB72RR65VDPALQ/-R w/Mount Pipe	B	From Leg	1.00 0' 0'	0.0000	58'	No Ice 1/2" Ice	10.50 11.07	6.42 7.37	0.06 0.13
MB72RR65VDPALQ/-R w/Mount Pipe	C	From Leg	1.00 0' 0'	0.0000	58'	No Ice 1/2" Ice	10.50 11.07	6.42 7.37	0.06 0.13
*									
*									
EL. 26' LEVEL									
15' Whip	C	From Leg	4.00 0' 0'	0.0000	26'	No Ice 1/2" Ice	3.75 5.28	3.75 5.28	0.02 0.05
(2) 10' Whip	C	From Leg	4.00 0' 0'	0.0000	26'	No Ice 1/2" Ice	2.75 3.78	2.75 3.78	0.03 0.05
12' Whip	C	From Leg	4.00 0' 0'	0.0000	26'	No Ice 1/2" Ice	3.60 4.83	3.60 4.83	0.03 0.06
20' Whip	C	From Leg	4.00 0' 0'	0.0000	26'	No Ice 1/2" Ice	6.00 8.03	6.00 8.03	0.04 0.08
5' Standoff T-Arm (14' face width)	C	From Leg	2.67 0' 0'	0.0000	26'	No Ice 1/2" Ice	6.90 8.70	6.90 8.70	0.20 0.26
*									
*									
TOWER HARDWARE									
Generic C-2 Lightning Spur	A	None		0.0000	100'	No Ice 1/2" Ice	4.00 7.00	4.00 7.00	0.00 0.00

Load Combinations

Comb. No.	Description
1	Dead Only
2	Dead+Wind 0 deg - No Ice
3	Dead+Wind 30 deg - No Ice
4	Dead+Wind 60 deg - No Ice
5	Dead+Wind 90 deg - No Ice
6	Dead+Wind 120 deg - No Ice
7	Dead+Wind 150 deg - No Ice
8	Dead+Wind 180 deg - No Ice
9	Dead+Wind 210 deg - No Ice
10	Dead+Wind 240 deg - No Ice
11	Dead+Wind 270 deg - No Ice
12	Dead+Wind 300 deg - No Ice
13	Dead+Wind 330 deg - No Ice
14	Dead+Ice+Temp
15	Dead+Wind 0 deg+Ice+Temp
16	Dead+Wind 30 deg+Ice+Temp
17	Dead+Wind 60 deg+Ice+Temp
18	Dead+Wind 90 deg+Ice+Temp
19	Dead+Wind 120 deg+Ice+Temp
20	Dead+Wind 150 deg+Ice+Temp
21	Dead+Wind 180 deg+Ice+Temp
22	Dead+Wind 210 deg+Ice+Temp
23	Dead+Wind 240 deg+Ice+Temp
24	Dead+Wind 270 deg+Ice+Temp
25	Dead+Wind 300 deg+Ice+Temp
26	Dead+Wind 330 deg+Ice+Temp
27	Dead+Wind 0 deg - Service
28	Dead+Wind 30 deg - Service
29	Dead+Wind 60 deg - Service
30	Dead+Wind 90 deg - Service
31	Dead+Wind 120 deg - Service
32	Dead+Wind 150 deg - Service
33	Dead+Wind 180 deg - Service
34	Dead+Wind 210 deg - Service
35	Dead+Wind 240 deg - Service
36	Dead+Wind 270 deg - Service
37	Dead+Wind 300 deg - Service
38	Dead+Wind 330 deg - Service

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	100 - 90	19.615	36	1.6596	0.0024
L2	90 - 45.2005	16.142	36	1.6546	0.0024
L3	49.0495 - 0	4.497	36	0.8967	0.0024

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
100'	Generic C-2 Lightning Spur	36	19.615	1.6596	0.0024	19393
92'	ALP 11011-N w/Mount Pipe	36	16.831	1.6625	0.0024	12130
90'	PiROD 13' Platform w/handrails (Monopole)	36	16.142	1.6546	0.0024	9724
80'	(2) DB844G45ZAXY w/Mount Pipe	36	12.792	1.5393	0.0024	4932
72'	(3) DB950G65E-M w/Mount Pipe	36	10.282	1.3825	0.0024	3540
58'	MB72RR65VDPALQ/-R w/Mount Pipe	36	6.448	1.0658	0.0024	2368
26'	15' Whip	35	1.446	0.7524	0.0024	3686

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	100 - 90	56.490	11	4.7830	0.0073
L2	90 - 45.2005	46.492	11	4.7686	0.0073
L3	49.0495 - 0	12.953	11	2.5843	0.0071

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
100'	Generic C-2 Lightning Spur	11	56.490	4.7830	0.0073	6847
92'	ALP 11011-N w/Mount Pipe	11	48.474	4.7889	0.0073	4281
90'	PiROD 13' Platform w/handrails (Monopole)	11	46.492	4.7686	0.0073	3430
80'	(2) DB844G45ZAXY w/Mount Pipe	11	36.846	4.4713	0.0074	1731
72'	(3) DB950G65E-M w/Mount Pipe	11	29.616	4.0551	0.0074	1239
58'	MB72RR65VDPALQ/-R w/Mount Pipe	11	18.574	3.1494	0.0073	826
26'	15' Whip	10	4.164	1.5682	0.0054	1280

Base Plate Design Data

Plate Thickness in	Number of Anchor Bolts	Anchor Bolt Size in	Actual Allowable Ratio Bolt Tension K	Actual Allowable Ratio Concrete Stress ksi	Actual Allowable Ratio Plate Stress ksi	Actual Allowable Ratio Stiffener Stress ksi	Controlling Condition	Critical Ratio
1.7500	10	2.2500	93.56 174.90 0.53	1.421 2.100 0.68	46.710 45.000 1.04	14.204 45.000 0.32	Plate	1.04

ERITower	Job	Page
	PSG Engineering Project Number: 0504A100-A160100	8 of 8
PSG Engineering Ltd. 8206 Forest Gate Drive Sugar Land, Texas Phone: (281) 343-7099 FAX: (281) 343-7127	**Project** (2112) (STRATFORD)	**Date** 16:16:49 10/03/05
	Client Site Acquisitions, Inc.	**Designed by**

Compression Checks

Pole Design Data

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	F_a ksi	A in^2	Actual P K	Allow. P_a K	Ratio $\frac{P}{P_a}$
L1	100 - 90 (1)	TP14x14x0.375	10'	0'	0.0	21.000	16.0434	-1.51	336.91	0.004
L2	90 - 45.2005 (2)	TP26.7925x14x0.25	44'9-19/32"	0'	0.0	39.000	20.1894	-9.68	787.38	0.012
L3	45.2005 - 0 (3)	TP40x25.1934x0.3125	49'19/32"	0'	0.0	39.000	35.8035	-15.56	1396.34	0.011

Pole Bending Design Data

Section No.	Elevation ft	Size	Actual M_x kip-ft	Actual f_{bx} ksi	Allow. F_{bx} ksi	Ratio $\frac{f_{bx}}{F_{bx}}$	Actual M_y kip-ft	Actual f_{by} ksi	Allow. F_{by} ksi	Ratio $\frac{f_{by}}{F_{by}}$
L1	100 - 90 (1)	TP14x14x0.375	7.79	-1.755	23.100	0.076	0.00	0.000	23.100	0.000
L2	90 - 45.2005 (2)	TP26.7925x14x0.25	438.42	-41.586	39.000	1.066	0.00	0.000	39.000	0.000
L3	45.2005 - 0 (3)	TP40x25.1934x0.3125	1028.18	-38.719	39.000	0.993	0.00	0.000	39.000	0.000

Pole Interaction Design Data

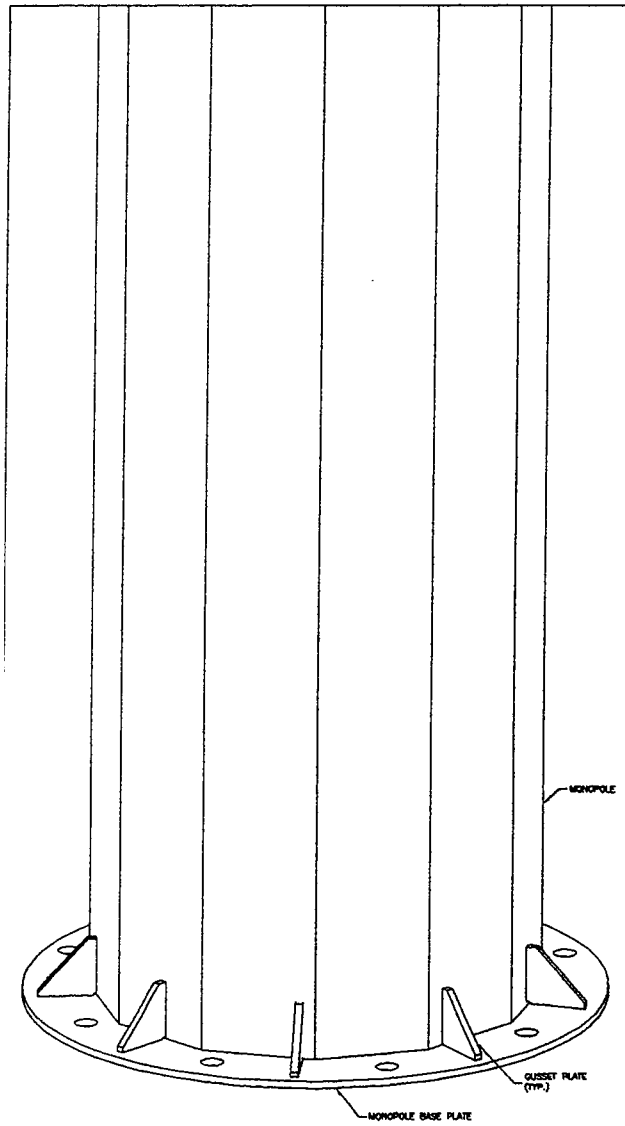
Section No.	Elevation ft	Size	Ratio $\frac{P}{P_a}$	Ratio $\frac{f_{bx}}{F_{bx}}$	Ratio $\frac{f_{by}}{F_{by}}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	100 - 90 (1)	TP14x14x0.375	0.004	0.076	0.000	0.080	1.333	H1-3
L2	90 - 45.2005 (2)	TP26.7925x14x0.25	0.012	1.066	0.000	1.079	1.333	H1-3
L3	45.2005 - 0 (3)	TP40x25.1934x0.3125	0.011	0.993	0.000	1.004	1.333	H1-3

Section Capacity Table

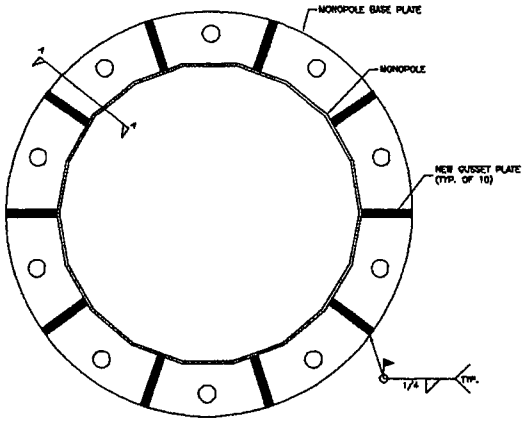
Section No.	Elevation ft	Component Type	Size	Critical Element	P K	$SF*P_{allow}$ K	% Capacity	Pass Fail
L1	100 - 90	Pole	TP14x14x0.375	1	-1.51	449.10	6.0	Pass
L2	90 - 45.2005	Pole	TP26.7925x14x0.25	2	-9.68	1049.58	80.9	Pass
L3	45.2005 - 0	Pole	TP40x25.1934x0.3125	3	-15.56	1861.32	75.3	Pass
							Summary	
						Pole (L2)	80.9	Pass
						Base Plate	77.9	Pass
						RATING =	80.9	Pass

APPENDIX B

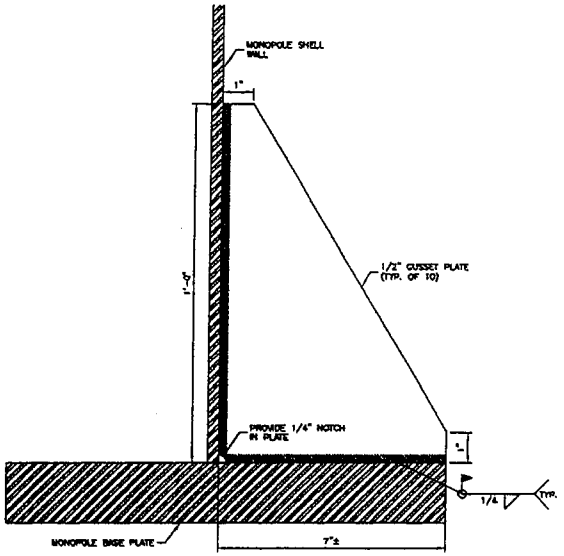
Structural Modification Drawing



MONOPOLE BASE PLATE WITH NEW GUSSET PLATES
SCALE: 1"=1'-0"



MONOPOLE BASE PLATE PLAN
SCALE: 3/4"=1'-0"



SECTION A–A (GUSSET PLATE DETAIL)
SCALE: 1 1/2"=1'-0"

NOTES:

1. ALL NEW PLATES SHALL BE A572 GRADE 60 MATERIAL AND HOT DIPPED GALVANIZED.

2. FIELD MEASUREMENTS ARE REQUIRED BEFORE ANY FABRICATION SHOULD COMMENCE.

3. ALL DIMENSIONS ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS, SITE AND TOWER CONDITIONS. IF DISCREPANCY EXISTS, CONTRACTOR SHALL NOTIFY THE ENGINEER.

4. CONTRACTOR SHALL REMOVE EXISTING GAVANIZATION PRIOR TO FIELD WELDING AND TOUCH UP ALL EXPOSED STEEL WITH COLD GALVANIZING PAINT FOLLOWING FIELD WELDING.

5. ALL WELDING SHALL BE PERFORMED BY AN AWS CERTIFIED WELDER AND ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES.

6 ALL WELDS SHALL CONFORM TO AWS D1.1

PSG

TOWER REINFORCEMENT DETAILS

OVERALL ELEVATION AND DETAILS

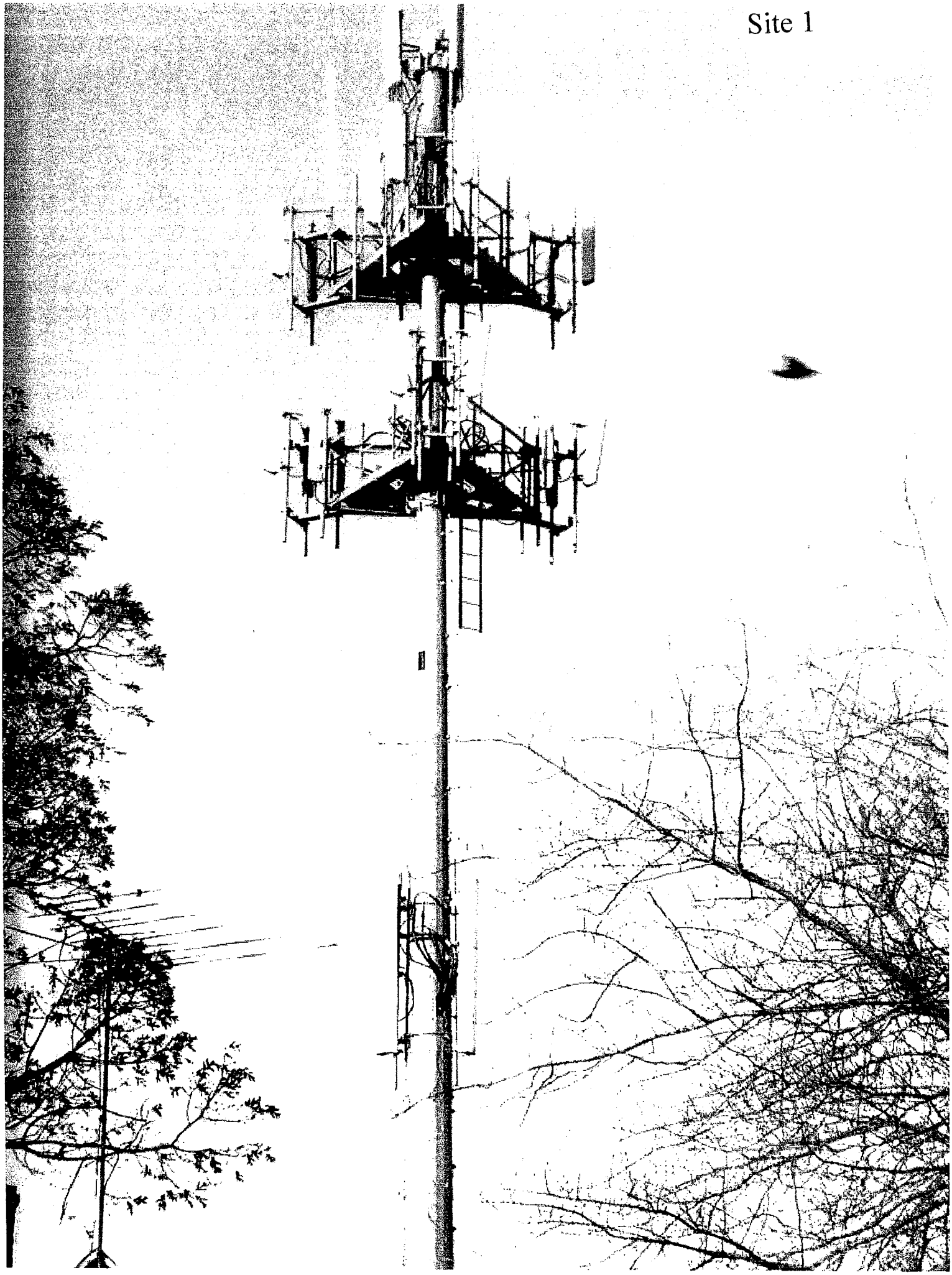
CINGULAR SITE # 2112

PSG ENGINEERING PROJECT NO. 0504A128–A010100

SCALE: AS SHOWN	PAGE 1 OF 1	DATE: 10/03/05	REV: 00

Site 1

Site 1



Site Specific Attachments

Site 2

1. Site Plans
2. Tower Structural Analysis
3. Site Photographs

APPROVALS

NAME (PRINT)	SIGNATURE	DATE
CINGULAR		
NAME (PRINT)	SIGNATURE	DATE
SAI		
NAME (PRINT)	SIGNATURE	DATE
STING COUNCIL COMMITTEE		
NAME (PRINT)	SIGNATURE	DATE
OTHER		

cingular WIRELESS

SITE NUMBER: 2118
SITE NAME: STAMFORD - CENTRAL

DRAWING INDEX

		REV
2118 - T1	TITLE SHEET	1
2118 - C1	SITE PLAN	1
2118 - C2	SITE ELEVATION & ANTENNA PLAN	1
2118 - C3	ANTENNA PLUMBING DIAGRAM-ALPHA-BETA-GAMMA	1
2118 - C4	RF DATA INFORMATION	1

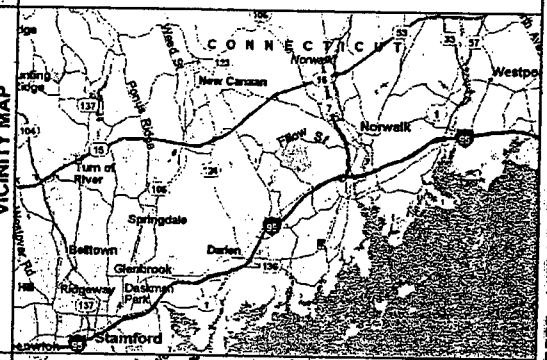
PROJECT INFORMATION

SCOPE OF WORK:	UNMANNED TELECOMMUNICATIONS FACILITY MODIFICATIONS
SITE NUMBER:	2118
SITE NAME:	STAMFORD – CENTRAL
ADDRESS:	555 MAIN ST
CITY, STATE ZIP	STAMFORD, CT
LATITUDE:	41.053367°
LONGITUDE:	-73.538089°
JURISDICTION:	FAIRFIELD COUNTY
CURRENT USE:	TELECOMMUNICATIONS FACILITY
PROPOSED USE:	TELECOMMUNICATIONS FACILITY
SITE TYPE:	SELF SUPPORT TOWER
RAD CENTER:	128'-0"
OWNER:	-

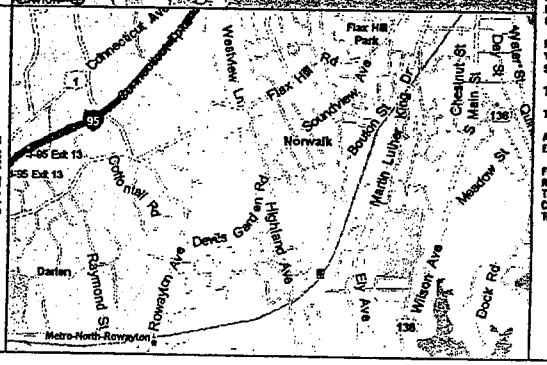
MAPS & DIRECTIONS

I-95 SOUTH TO EXIT 7 (ATLANTIC STREET). AT 1ST LIGHT, TURN RIGHT AND PROCEED TWO BLOCKS TO TELCO BUILDING. SITE IS ON 5TH FLOOR.

VICINITY MAP



SITE MAP



BLDG. CODES AND STANDARDS

SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

BUILDING CODE:
INTERNATIONAL BUILDING CODE (IBC), 2003

ELECTRICAL CODE:
NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70 – 2002 NATIONAL ELECTRICAL CODE

LIGHTNING PROTECTION CODE:
NFPA 780 – 2003, LIGHTNING PROTECTION CODE

SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:
AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION
TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-F, STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES
TIA 607, COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS

INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM
IEEE 1100 (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRONIC EQUIPMENT

IEEE C62.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND "HIGH SYSTEM EXPOSURE")

TELCORDIA GR-1275, GENERAL INSTALLATION REQUIREMENTS

TELCORDIA GR-1503, CORDS, CABLE CONNECTIONS

ANSI T1.311, FOR TELECOM – DC POWER SYSTEMS – TELECOM, ENVIRONMENTAL PROTECTION

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

cingular WIRELESS

SAI communications

PSG ENGINEERING, LTD.

SITE NUMBER:
2118
SITE NAME:
STAMFORD - CENTRAL
SITE ADDRESS:
555 MAIN ST
STAMFORD, CT

IT IS A VIOLATION OF THE PROPRIETARY RIGHTS OF THE DESIGNER OWNER TO ALTER THIS DOCUMENT UNLESS THEY ARE AUTHORIZED ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.

DRAWN BY: JD
CHECKED BY: SP
PROJECT NO: 05041CP-SAM555

SUBMITTALS

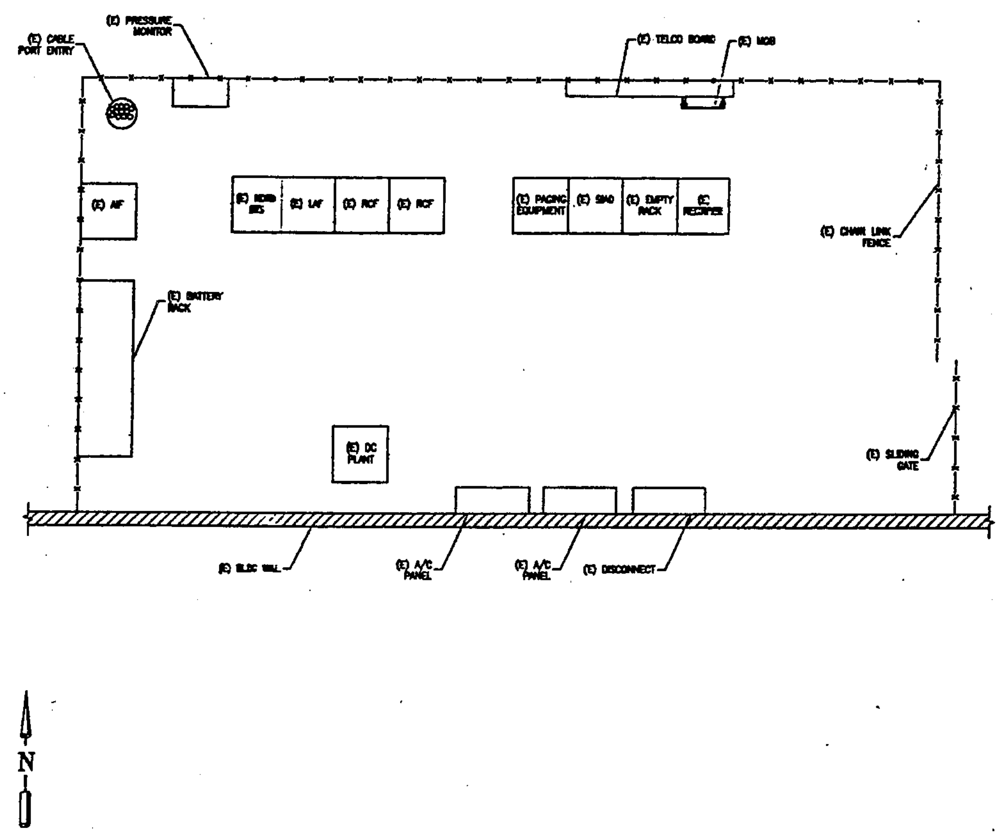
NO	DESCRIPTION	BY	DATE
1	ZONING SUBMITTAL SET	JD	07/22/05

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T1

File Info: G:\Projects\2118\2118 Cnst Bnd.dwg Jul 27, 2005 - 2:17pm Jmoss

PURPOSE OF THESE DESIGN DOCUMENTS ARE FOR 6 ANTENNA REPLACEMENTS, 3 ANTENNA REMOVALS, 6 EXISTING 7/8" COAXIAL REMOVALS TO BE REPLACED WITH 12 PROPOSED 1 5/8" COAXIAL CABLES FOR CINGULAR WIRELESS.



SITE PLAN
SCALE: 11x17 - 1/4"=1'-0"
SCALE: 22x34 - 1/2"=1'-0"
1 / C1

cingular WIRELESS

SAI communications

PSG ENGINEERING, LTD.

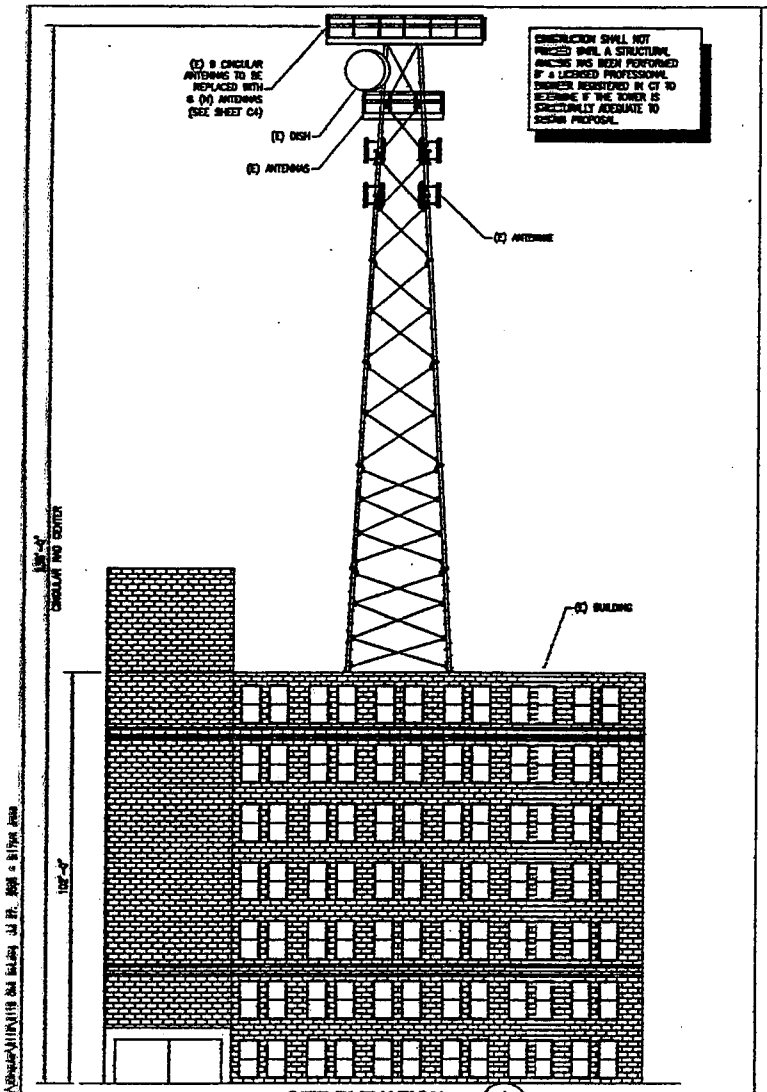
SITE NUMBER:
2118
SITE NAME:
STAMFORD - CENTRAL
SITE ADDRESS:
555 MAIN ST
STAMFORD, CT

IT IS A VIOLATION OF THE PROPRIETARY RIGHTS OF THE WIRELESS CARRIER TO ALTER THIS DOCUMENT UNLESS THEY ARE INSTRUCTED ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.

SUBMITTALS

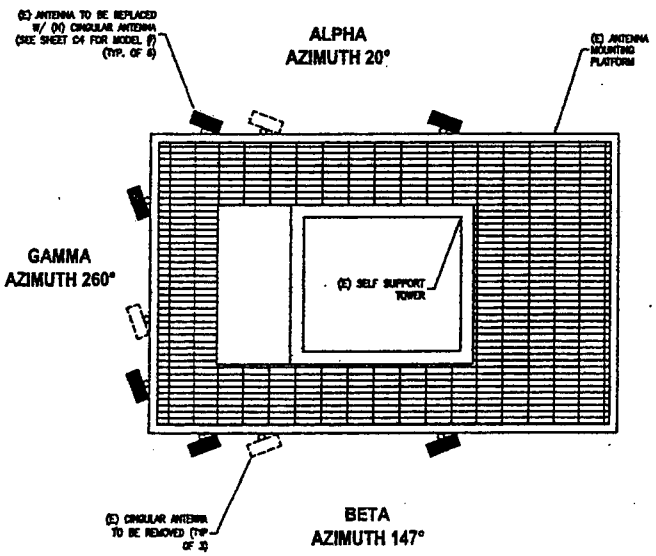
SHEET TITLE
SITE PLAN

SHEET NUMBER
C1



SITE ELEVATION (1 / C2)
SCALE: 11x17 - NTS
SCALE: 22x34 - NTS

PURPOSE OF THESE DESIGN DOCUMENTS ARE FOR 6 ANTENNA REPLACEMENTS, 3 ANTENNA REMOVALS, 9 EXISTING 7/8" COAXIAL REMOVALS TO BE REPLACED WITH 12 PROPOSED 1 5/8" COAXIAL CABLES FOR CINGULAR WIRELESS.



ANTENNA PLAN VIEW (2 / C2)
SCALE: 11x17 - NTS
SCALE: 22x34 - NTS

N

cingular WIRELESS

SAI communications

PSC ENGINEERING, LTD.

SITE NUMBER:
2118
SITE NAME:
STAMFORD - CENTRAL
SITE ADDRESS:
855 MAIN ST
STAMFORD, CT

IT IS A VIOLATION OF THE PROFESSIONAL ENGINEERS OF THIS JURISDICTION PURSUANT TO ALTER THIS DOCUMENT UNLESS THEY ARE ENGINEERED ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.

SUBMITTALS

NO	DESCRIPTION	BY	DATE
1	[illegible]	JS	05/22/08

SHEET TITLE
SITE ELEVATION & ANT PLAN

SHEET NUMBER
C2

BAYAR ENGINEERING, P.C.
Structural Engineers
P.O. Box 1287, Port Chester, N.Y. 10573-8287
TEL: (914) 681-8749 FAX: (914) 421-0416

Demirtas C. Bayar, P.E.

October 7, 2005

Mr. George Bullock
SAI Communications
184 Rockingham Road, Unit A
Londonderry, NH 03053

Re: Structural Analysis of tower in Stamford, CT.
BE Job No. 0509-2

Dear Mr. Bullock,

Our previous analysis of the tower in 2000 was for the tower to carry the following antennas:
a). 9 - ALP9212 antennas above the top deck.
b). 1 - 10' diameter parabolic antenna 8' below the top deck.
c). 3 – Cellular antennas at the B1-B1 level.
d). 16 – Cell antennas at the D-D level for Metricom. This was not done and not included in design.

Our new analysis assumed the following antennas and equipment to be carried by the tower:
a). 6 – Powerwave 7770 antennas with 12 – Powerwave TMA above the top deck to replace the existing ALP antennas. The wind area of this equipment is larger than the 9 ALP antennas.
b). 1 – 10' diameter parabolic antenna 8' below the top deck.
c). 6 – Cellular antennas on 3 frames at the B1-B1 level. The 3 additional antennas and their frames were not included in our last analysis.
d). 3 – Frames for future antennas at the B2-B2 level. These were not included in previous analysis.

The proposed configuration will result in a larger total wind load above the D-D level than the previous analysis. This then will require an alteration to the existing structure. The alteration will consist of replacing all the end connections of the diagonal members with A325 bolts between the D-D level and the G-G level. Sketch No. 0509 indicates this work.

Additionally we recommend that the antenna frames at the B2-B2 level be removed. These do not carry any antennas.

Once this alteration is done the structure will be adequate to support the proposed new antenna configuration stated above.

Yours truly,

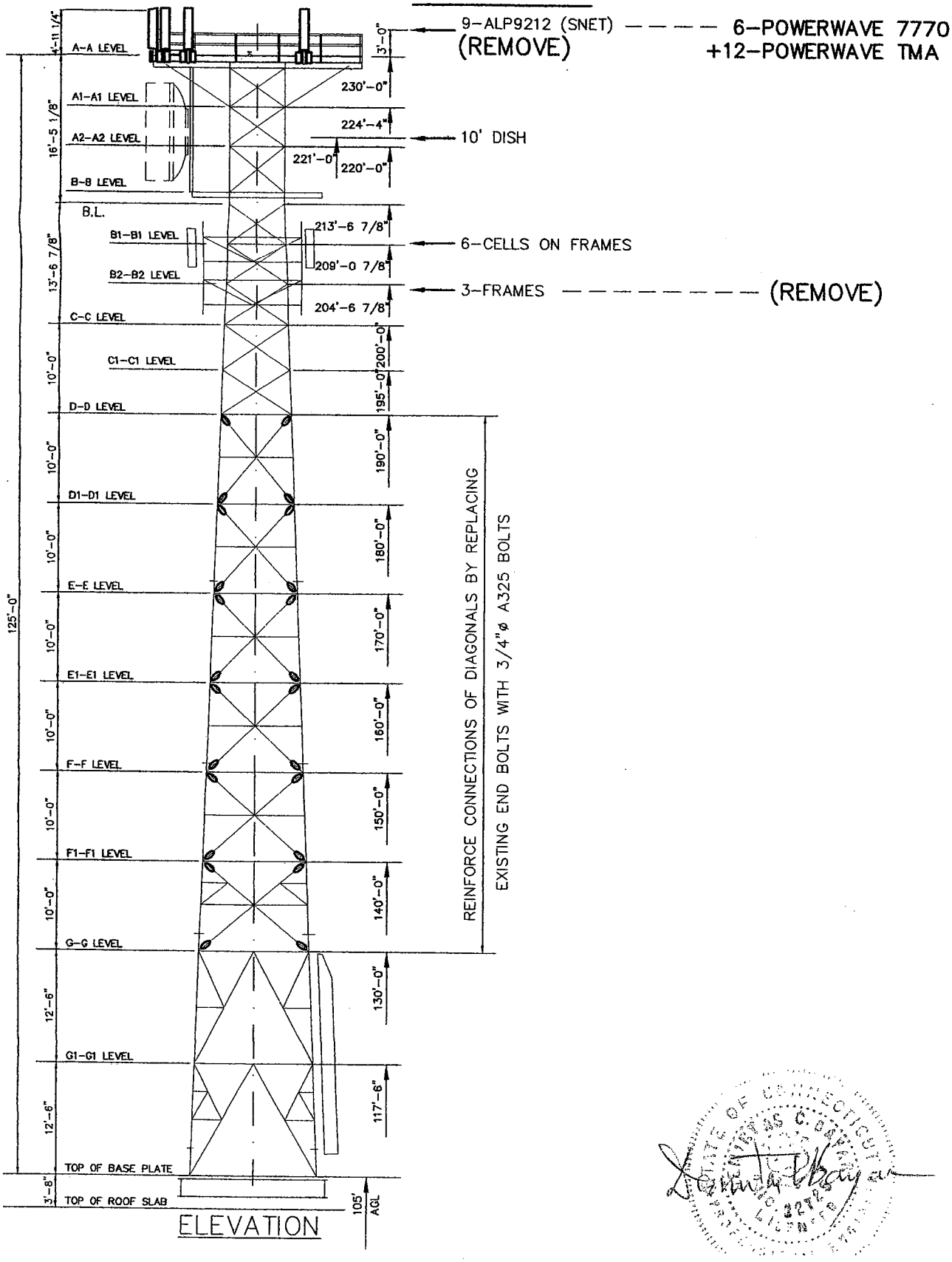
Demirtas Bayar, P.E. #12725 (CT)
President

BAYAR ENGINEERING, P.C.

SKETCH NO. 0509
Date 10/6/2005
By

PROJECT STAMFORD, CT. EXISTING 125'-0" TYPE 'K'

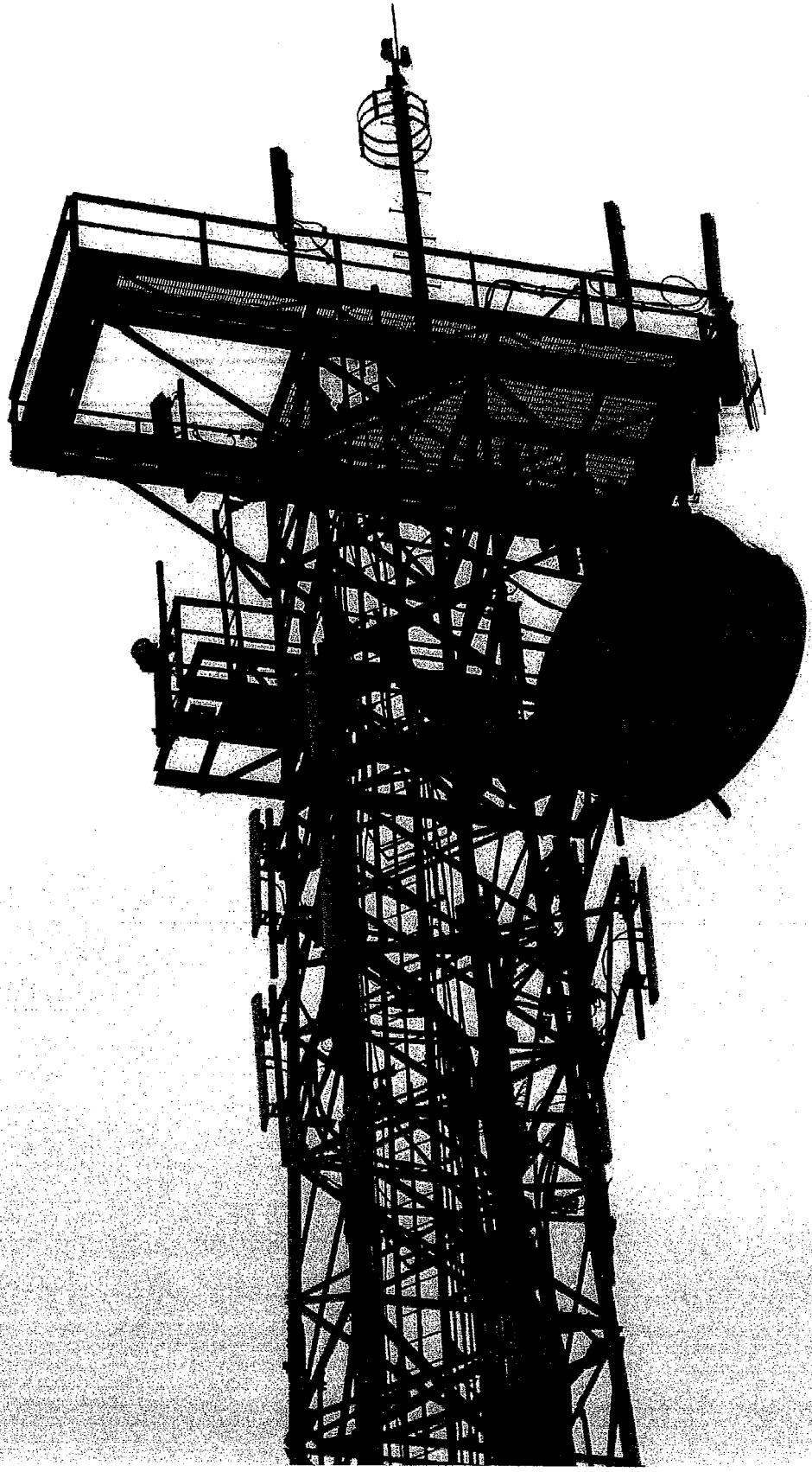
V = 115 mph (3-SEC GUST)
I = 1.15 (CATEGORY III)
Kd = 0.85



ELEVATION

Site 2

Site 2



Site Specific Attachments

Site 3

1. Site Plans
2. Tower Structural Analysis
3. Site Photographs

APPROVALS

NAME (PRINT)	SIGNATURE	DATE
CINGULAR		
NAME (PRINT)	SIGNATURE	DATE
SAI		
NAME (PRINT)	SIGNATURE	DATE
SITING COUNCIL COMMITTEE		
NAME (PRINT)	SIGNATURE	DATE
OTHER		

SITE NUMBER: 2124
SITE NAME: DANBURY CENTRAL

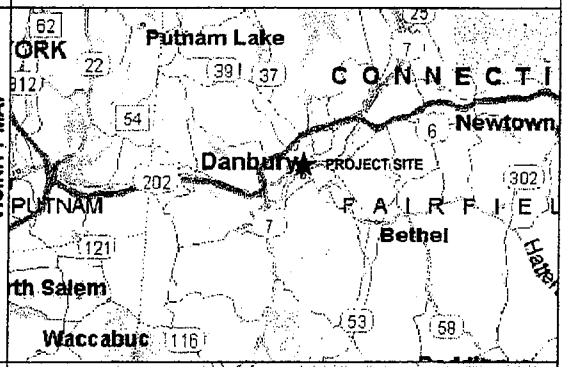
DRAWING INDEX

		REV
2124 - T1	TITLE SHEET	0
2124 - C1	EQUIPMENT ROOM PLAN	0
2124 - C2	SITE PLAN	0
2124 - C3	ELEVATION	0
2124 - C4	ANTENNA PLUMBING DIAGRAM	0
2124 - C5	RF DATA INFORMATION	0

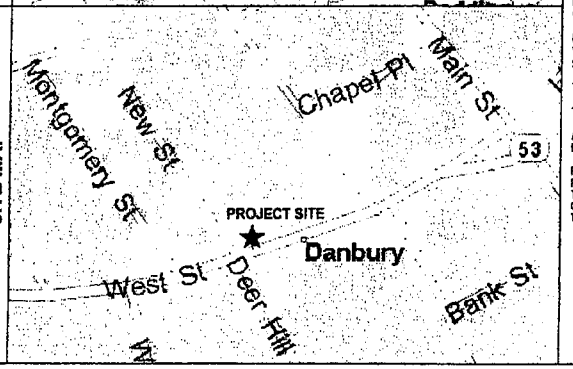
MAPS & DIRECTIONS

FROM HARTFORD, CT. TRAVEL WEST ON I-84 APPROXIMATELY 50 MILES TO DANBURY (EXIT 5). AT END OF RAMP TURN RIGHT ONTO ROUTE 39 AND CONTINUE BACK UNDER I-84 AND CONTINUE ON MAIN STREET (ROUTE 53). FOLLOW MAIN STREET APPROXIMATELY 1 MILE TO WEST STREET AND TURN RIGHT TO SNET CENTRAL OFFICE SITE ON THE RIGHT.

VICINITY MAP



SITE MAP



BLDG. CODES AND STANDARDS

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BUILDING CODE:
INTERNATIONAL BUILDING CODE (IBC), 2003

ELECTRICAL CODE:
NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70 - 2002 NATIONAL ELECTRICAL CODE

LIGHTNING PROTECTION CODE:
NFPA 780 - 2000, LIGHTNING PROTECTION CODE

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AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION
TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-F, STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES:
TIA 607, COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS

INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM
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TELCORDIA GR-1503, COAXIAL CABLE CONNECTIONS

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PROJECT INFORMATION

SCOPE OF WORK:	UNMANNED TELECOMMUNICATIONS FACILITY MODIFICATIONS
SITE NUMBER:	2124
SITE NAME:	DANBURY CENTRAL
ADDRESS:	39 WEST ST.
CITY, STATE ZIP	DANBURY, CT 06810
LATITUDE:	41.3926° N
LONGITUDE:	73.4544° W
JURISDICTION:	FAIRFIELD COUNTY
CURRENT USE:	TELECOMMUNICATIONS FACILITY
PROPOSED USE:	TELECOMMUNICATIONS FACILITY
SITE TYPE:	TI
RAD CENTER:	69'
OWNER:	SNET

File Info: C:\Drawings\2124\2124 Dnt Set.dwg Aug 05, 2003 - 1:11pm Jones

cingular WIRELESS

SAI communications

PSG ENGINEERING, LTD.

SITE NUMBER:
2124
SITE NAME:
DANBURY CENTRAL
SITE ADDRESS:
39 WEST ST.
DANBURY, CT 06810

DRAWN BY: JR
CHECKED BY: DP
PROJECT NO: 08041141-GM 8177

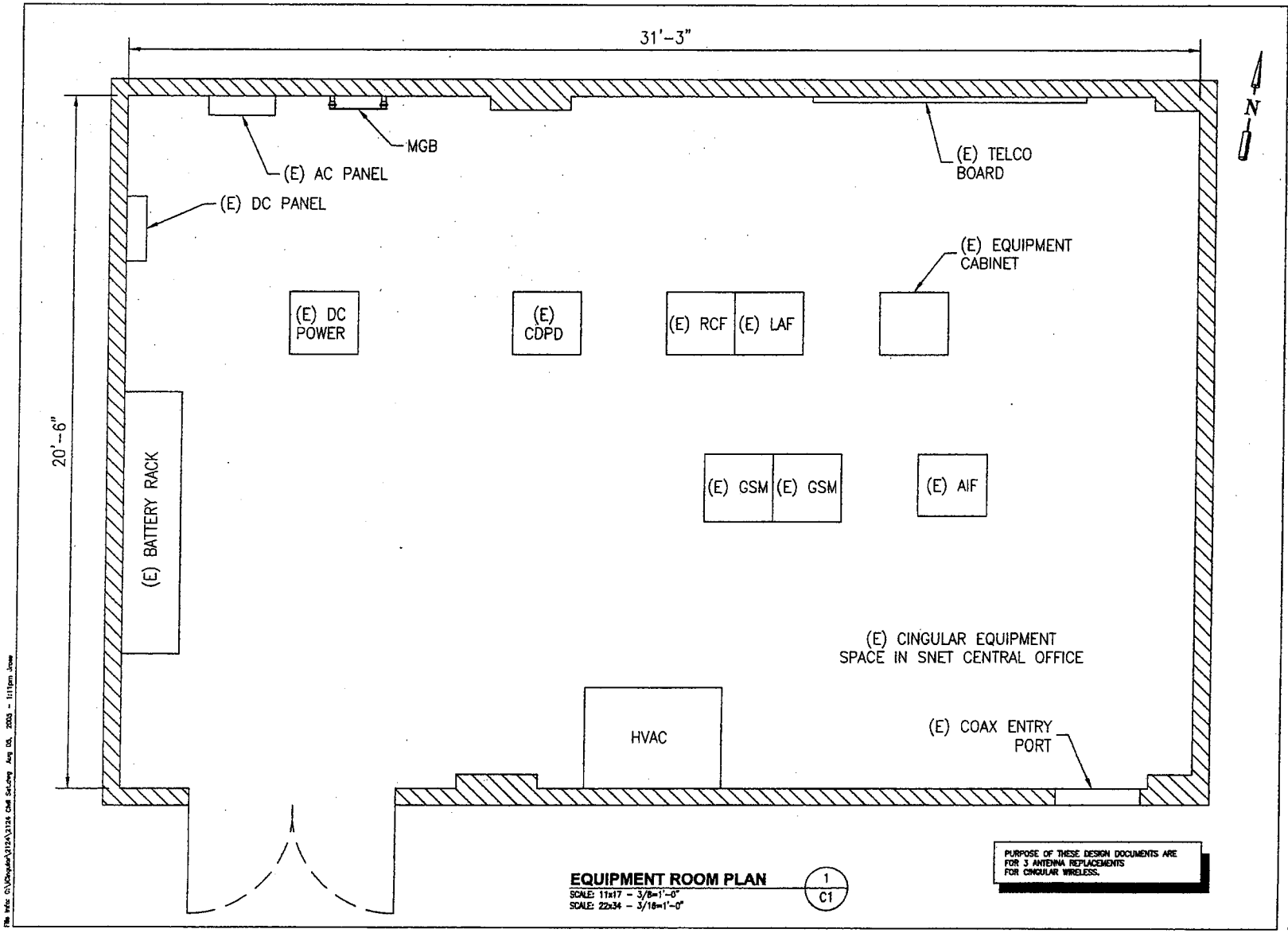
SUBMITTALS

NO	DESCRIPTION	BY	DATE
0	SITING COMMITTEE COS	JR	08/05/03

STATE OF CONNECTICUT
JOSEPH PEDRAZA
No. 21292
LICENSED
PROFESSIONAL ENGINEER
8/12/03

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T1



EQUIPMENT ROOM PLAN (1 / C1)
SCALE: 11x17 - 3/8=1'-0"
SCALE: 22x34 - 3/16=1'-0"

PURPOSE OF THESE DESIGN DOCUMENTS ARE FOR 3 ANTENNA REPLACEMENTS FOR CINGULAR WIRELESS.

cingular WIRELESS

SAI communications

PSG ENGINEERING, LTD.

SITE NUMBER:
2124
SITE NAME:
DANBURY CENTRAL
SITE ADDRESS:
39 WEST ST.
DANBURY, CT 06810

DRAWN BY: JR
CHECKED BY: CP
PROJECT NO: 050404141-GM0177

SUBMITTALS

NO	DESCRIPTION	BY	DATE
0	ZONING COMMITTEE CDD	JR	05/06/05

STATE OF CONNECTICUT OSCAR PRADA No. 21292 LICENSED PROFESSIONAL ENGINEER

SHEET TITLE
EQUIPMENT ROOM PLAN

SHEET NUMBER
C1

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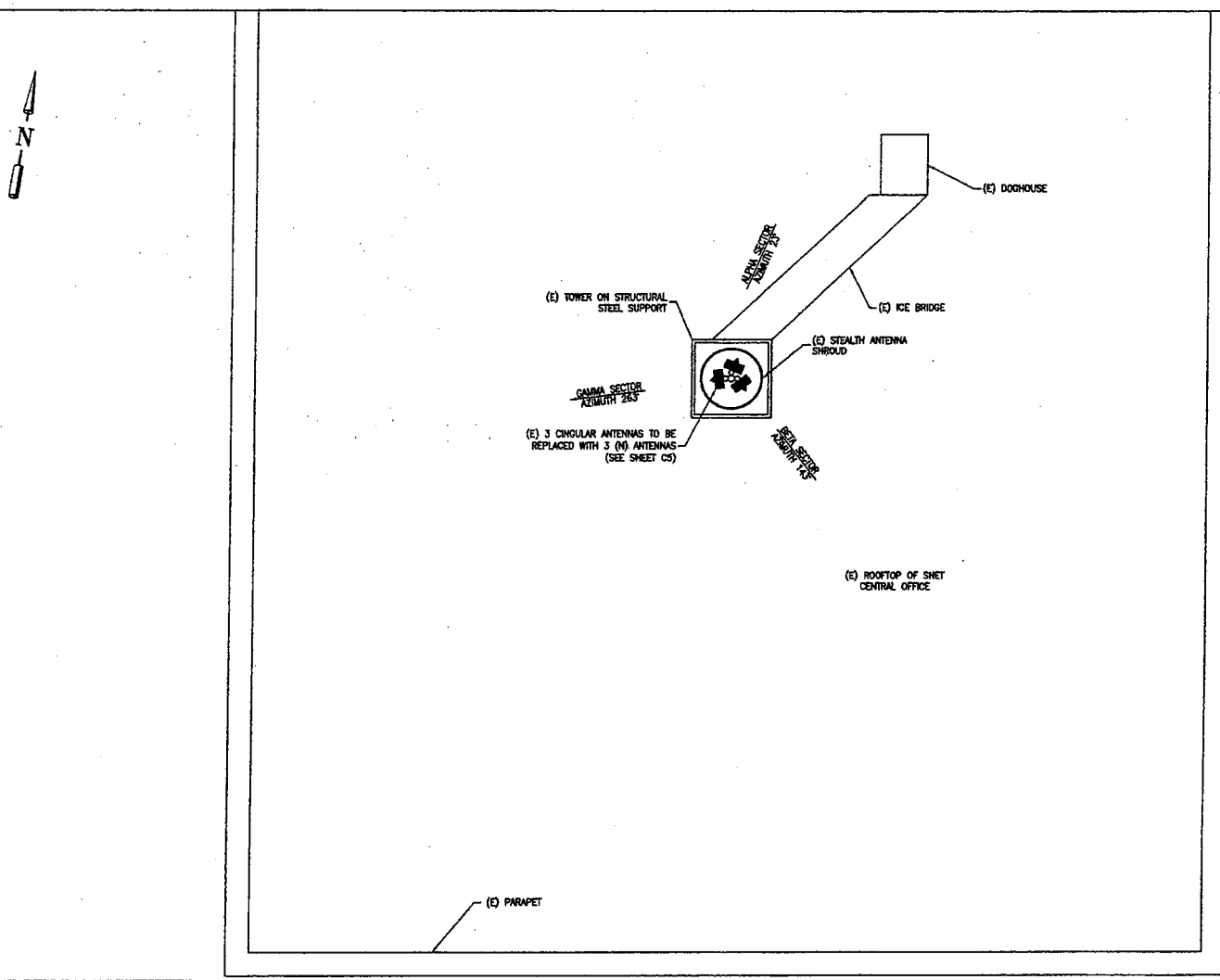

PURPOSE OF THESE DESIGN DOCUMENTS ARE FOR 3 ANTENNA REPLACEMENTS FOR CINGULAR WIRELESS.

SITE PLAN (1 / C2)
SCALE: 11x17 - 3/16"=1'-0"
SCALE: 22x34 - 3/8"=1'-0"

cingular WIRELESS

SAI communications

PSG ENGINEERING, LTD.

SITE NUMBER:
2124
SITE NAME:
DANBURY CENTRAL
SITE ADDRESS:
39 WEST ST.
DANBURY, CT 06810

DRAWN BY: JR
CHECKED BY: CP
PROJECT NO: 05004101-R00177

SUBMITTALS

NO	DESCRIPTION	BY	DATE
0	ZONING COMMITTEE CDS	JR	08/05/05

STATE OF CONNECTICUT
OSCAR PERALTA
No. 21292
LICENSED PROFESSIONAL ENGINEER
8/9/05

SHEET TITLE
SITE PLAN

SHEET NUMBER
C2

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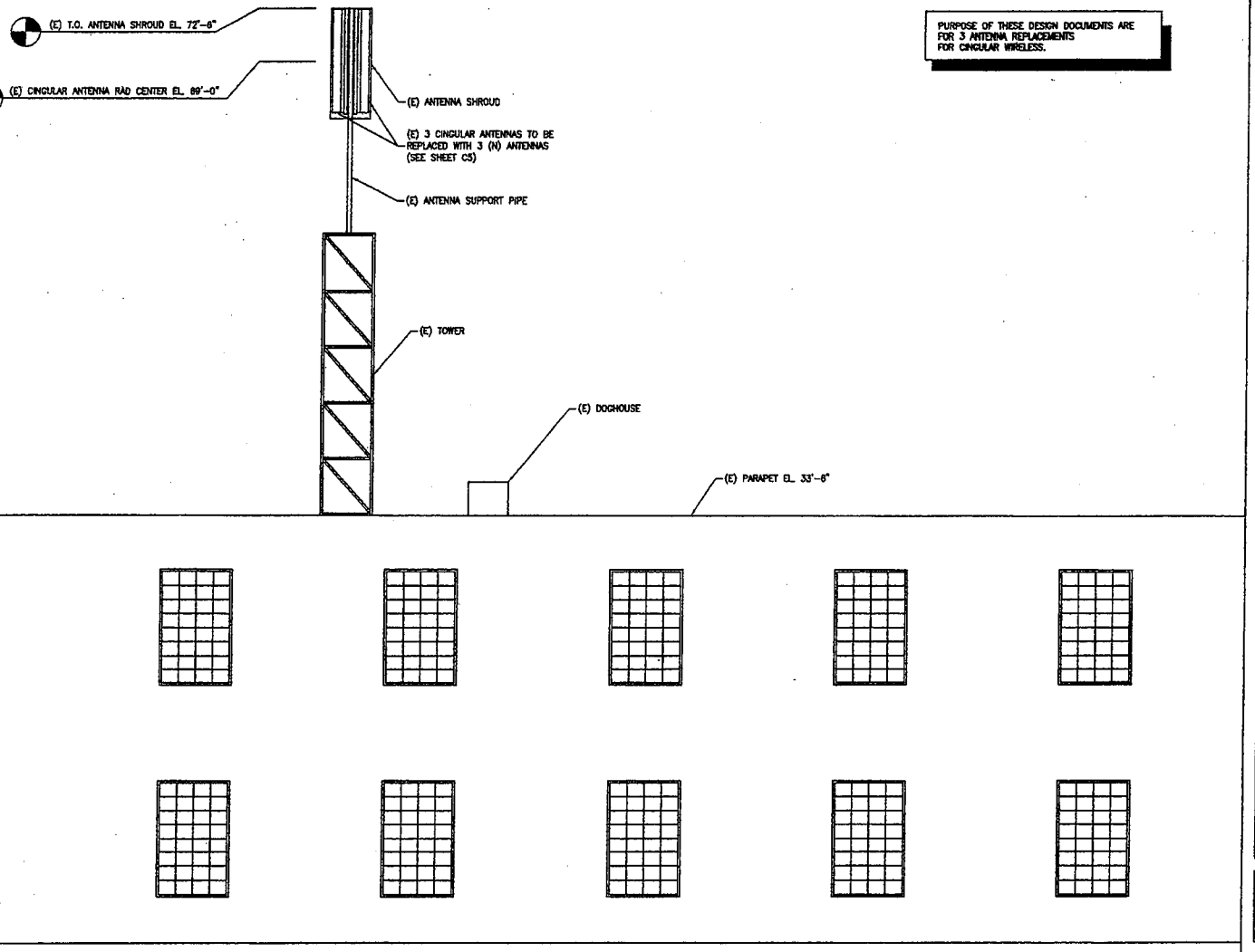


PURPOSE OF THESE DESIGN DOCUMENTS ARE FOR 3 ANTENNA REPLACEMENTS FOR CINGULAR WIRELESS.

ELEVATION 1 / C3
SCALE: 11x17 - 1/8"=1'-0"
SCALE: 22x34 - 1/16"=1'-0"

cingular WIRELESS

SAI communications

PSG ENGINEERING, LTD.

SITE NUMBER:
2124
SITE NAME:
DANBURY CENTRAL
SITE ADDRESS:
39 WEST ST.
DANBURY, CT 06810

DRAWN BY: JR
CHECKED BY: OP
PROJECT NO: 05041141-01RS177

SUBMITTALS

NO	DESCRIPTION	BY	DATE
0	ZONING COMMENTS CCS	JR	08/08/05

STATE OF CONNECTICUT
OSCAR PERRAZA
No. 21292
LICENSED PROFESSIONAL ENGINEER
8/12/05

SHEET TITLE
ELEVATION

SHEET NUMBER
C3

File Info: C:\Xchgdata\2124\2124 Ckt Set.dwg Aug 05, 2005 - 1:11pm Jonas

BE BAYAR ENGINEERING, P.C.
Structural Engineers
P.O. Box 1287, Port Chester, N.Y. 10573-8287
TEL: (914) 681-8749 FAX: (914) 421-0416

Demirtas C. Bayar, P.E.

October 13, 2005

Mr. George Bullock
SAI Communications
184 Rockingham Road, Unit A
Londonderry, NH 03053

Re: Analysis of structures at Bridgeport, CT. (Site 2176) and Danbury CO., CT (Site 2124)
BE Job No. 0509-6 & 0509-3

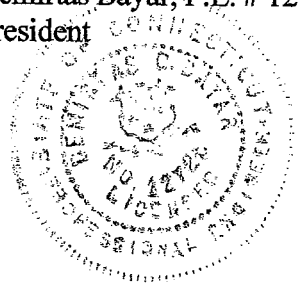
Dear Mr. Bullock,

Bridgeport, CT.:
The pipe supports for the antennas extend 4'-3" above the parapet wall of the building roof at 430 John Street, Bridgeport, CT. This works well with the existing Cellwave antenna which is 4'-0" long. The Powerwave 7770 antenna which will replace the existing is 4'-7" long. The new antenna may require an extension pipe attached to the existing pipe if the mounting of the new antenna will not work with the 4'-3" pipe extension. We checked the strength of the pipe and its connections based on an additional 3" diameter pipe support as well the 7770 antenna plus TMAs on the back of the antenna and found that the system is adequate to support the loads.

Danbury CO, CT.:
Replacement of the 3 existing antennas with 3 Powerwave 7770 antennas under the shroud of the structure on top of the roof at 39 West Street, Danbury, CT will not change the total loads on the structure. However, we assumed that the antennas will be longer and thus add wind area plus the TMAs will add wind area. The existing structure will be adequate to support the assumed loads and the proposed configuration of the equipment.

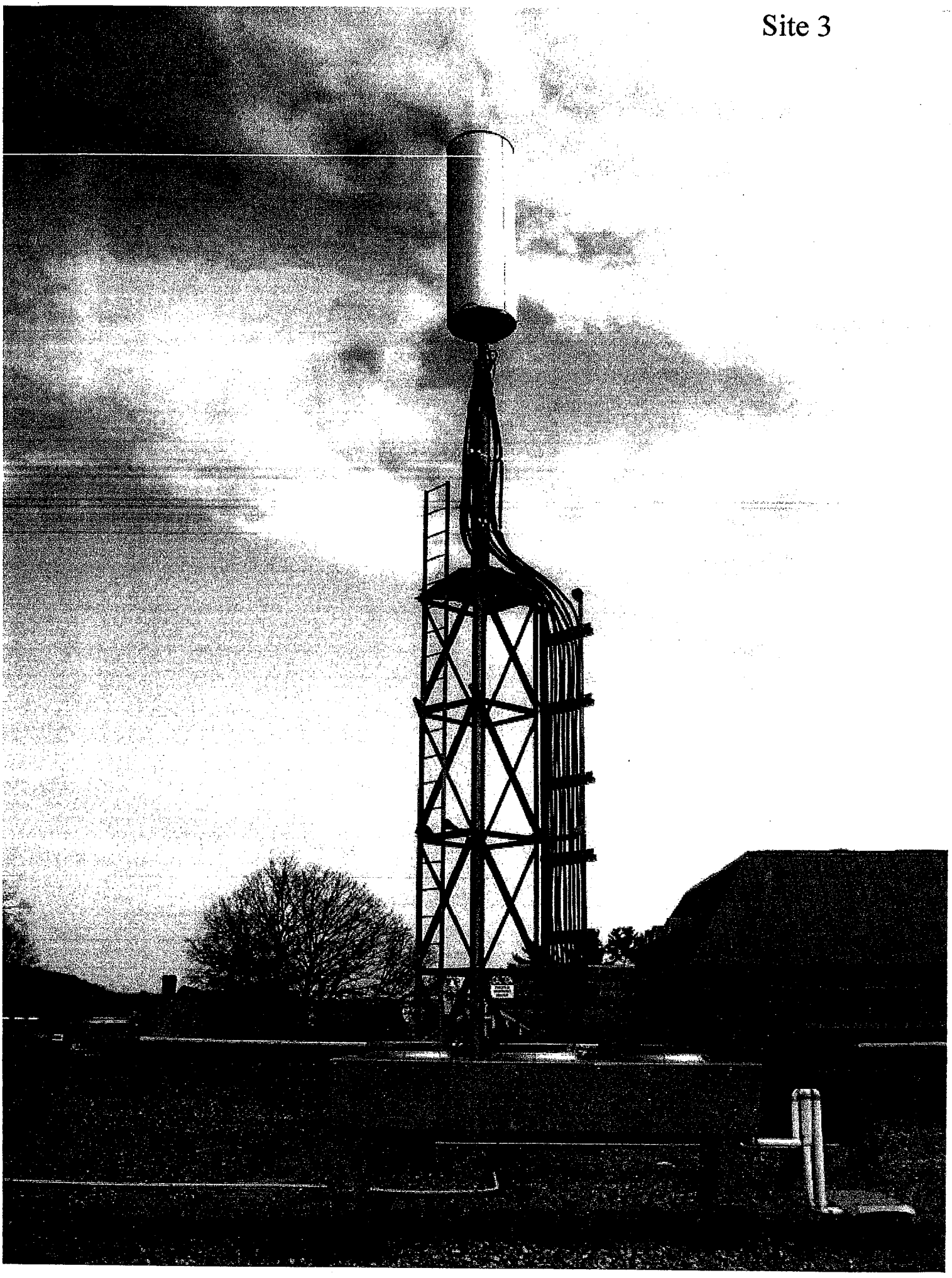
Yours truly,

Demirtas Bayar, P.E. # 12725 (CT)
President



Site 3

Site 3



Site Specific Attachments

Site 4

1. Site Plans
2. Tower Structural Analysis
3. Site Photographs

APPROVALS

NAME (PRINT)	SIGNATURE	DATE
CINGULAR		
NAME (PRINT)	SIGNATURE	DATE
SAI		
NAME (PRINT)	SIGNATURE	DATE
SITING COUNCIL COMMITTEE		
NAME (PRINT)	SIGNATURE	DATE
OTHER		

cingular WIRELESS

SITE NUMBER: 2133
SITE NAME: DANBURY SOUTH

DRAWING INDEX

		REV
2133 - T1	TITLE SHEET	0
2133 - C1	EQUIPMENT PLAN	0
2133 - C2	SITE ELEVATION & ANTENNA PLAN	0
2133 - C3	ANTENNA PLUMBING DIAGRAM-ALPHA-BETA-GAMMA	0
2133 - C4	RF DATA INFORMATION	0

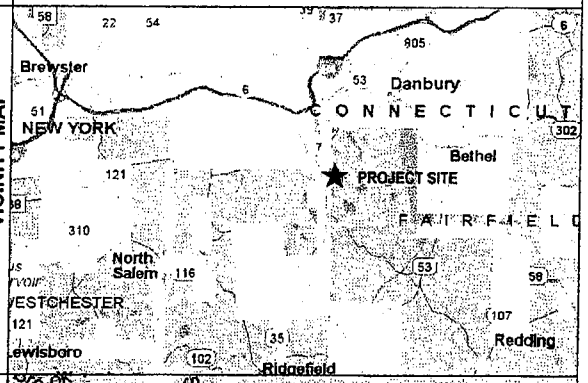
PROJECT INFORMATION

SCOPE OF WORK:	UNMANNED TELECOMMUNICATIONS FACILITY MODIFICATIONS
SITE NUMBER:	2133
SITE NAME:	DANBURY - SOUTH
ADDRESS:	MOSES MOUNTAIN
CITY, STATE ZIP	DANBURY, CT
LATITUDE:	41.359433°
LONGITUDE:	-73.465914°
JURISDICTION:	FAIRFIELD COUNTY
CURRENT USE:	TELECOMMUNICATIONS FACILITY
PROPOSED USE:	TELECOMMUNICATIONS FACILITY
SITE TYPE:	LATTICE
RAD CENTER:	65'-0"
OWNER:	RCC CONSULTANTS

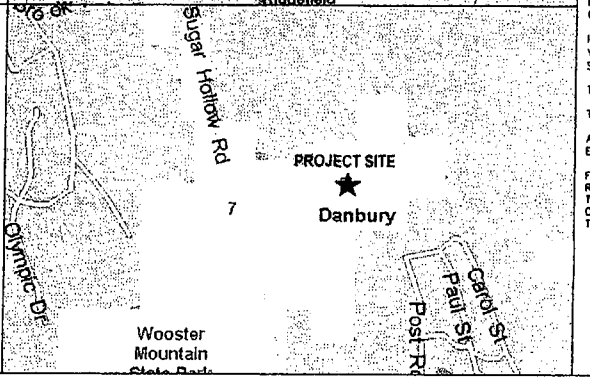
MAPS & DIRECTIONS

FROM I-84 EAST TAKE EXIT 3 BEAR RIGHT ONTO US-7 SOUTH. BEAR LEFT ONTO STARRS PLAIN RD. BEAR LEFT ONTO POST RD. TOWER SITE IS TO THE LEFT.

VICINITY MAP



SITE MAP



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LIGHTNING PROTECTION CODE:
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AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION
TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-F, STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES:
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INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM
IEEE 1100 (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRONIC EQUIPMENT

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TELCORDIA GR-1503, COAXIAL CABLE CONNECTIONS

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cingular WIRELESS

SAI communications

PSG ENGINEERING, LTD.

SITE NUMBER:
2133
SITE NAME:
DANBURY - SOUTH
SITE ADDRESS:
MOSES MOUNTAIN
DANBURY, CT

DRAWN BY: CH
CHECKED BY: OP
PROJECT NO: 03044151-8895065

SUBMITTALS

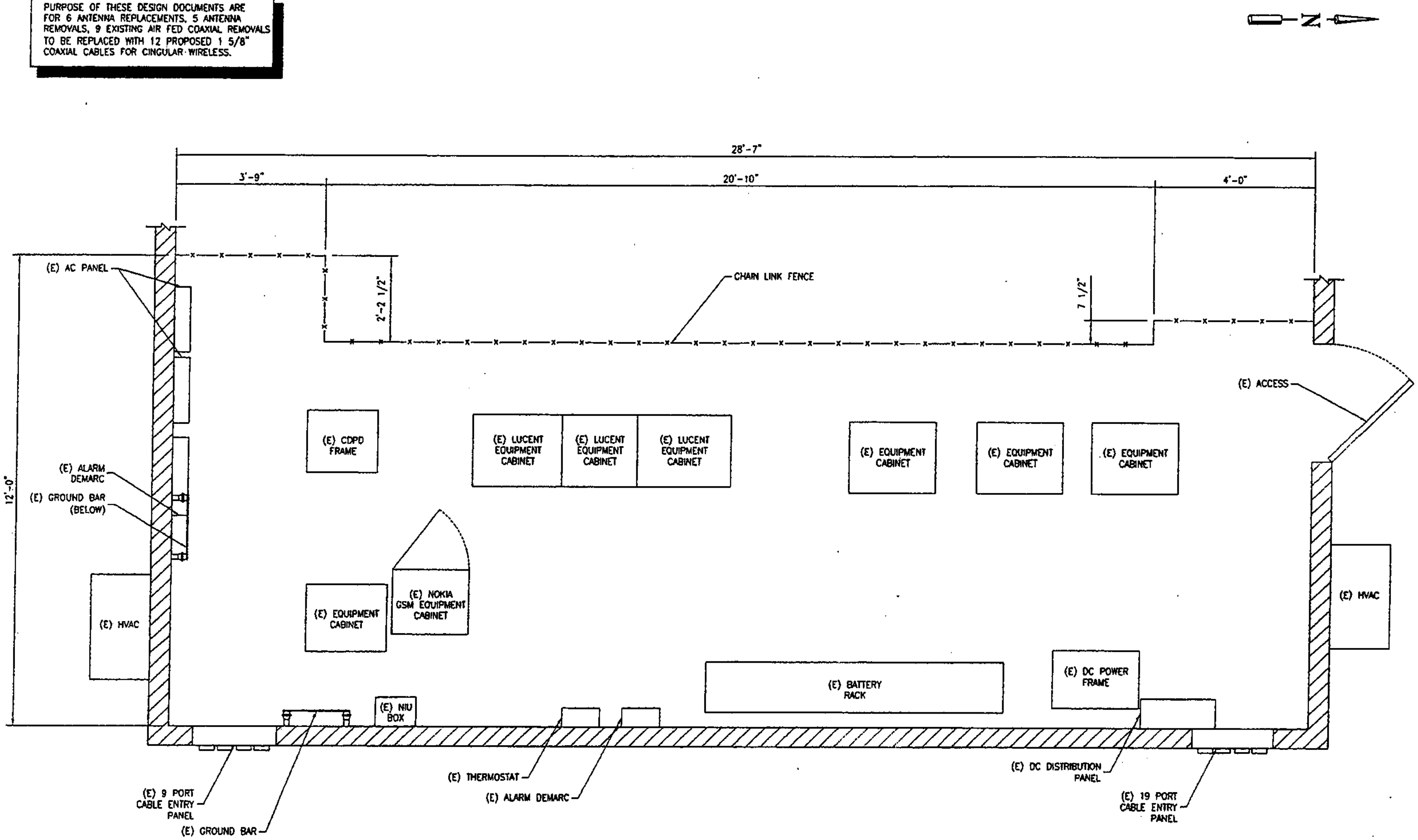
NO	DESCRIPTION	BY	DATE
0	SITING COMMITTEE CDS	CH	08/11/05

STATE OF CONNECTICUT
OSCAR PERAZA
No 21291
LICENSED PROFESSIONAL ENGINEER
5/17/05

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T1

PURPOSE OF THESE DESIGN DOCUMENTS ARE FOR 6 ANTENNA REPLACEMENTS, 5 ANTENNA REMOVALS, 9 EXISTING AIR FED COAXIAL REMOVALS TO BE REPLACED WITH 12 PROPOSED 1 5/8" COAXIAL CABLES FOR CINGULAR WIRELESS.



EQUIPMENT PLAN (1 / C1)

SCALE: 11x17 - 3/8"=1'-0"
SCALE: 22x34 - 3/4"=1'-0"

cingular WIRELESS

SAI communications

PSG ENGINEERING, LTD.

SITE NUMBER:
2133
SITE NAME:
DANBURY - SOUTH
SITE ADDRESS:
MOSES MOUNTAIN
DANBURY, CT

IT IS A VIOLATION OF THE PROPRIETARY RIGHTS OF THE WIRELESS CARRIER TO ALTER THIS DOCUMENT UNLESS THEY ARE INSTRUCTED ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.

DRAWN BY: CH

CHECKED BY: OP

PROJECT NO: [illegible]

SUBMITTALS

NO	DESCRIPTION	BY	DATE
0	SITING COMMITTEE CDS	CH	08/11/05

STATE OF CONNECTICUT
OSCAR PEDRAZA
No. 21292
LICENSED PROFESSIONAL ENGINEER

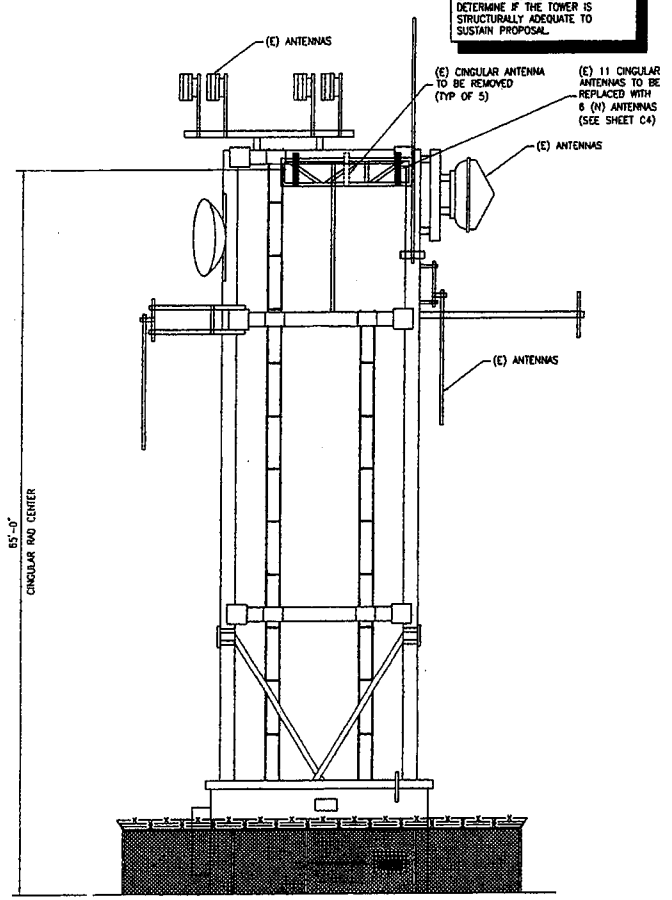
8/12/05

SHEET TITLE
EQUIPMENT PLAN

SHEET NUMBER
C1

File Info: C:\Cingular\2133\2133 Cnt Set.dwg Aug 12, 2005 - 3:01pm Jrosa

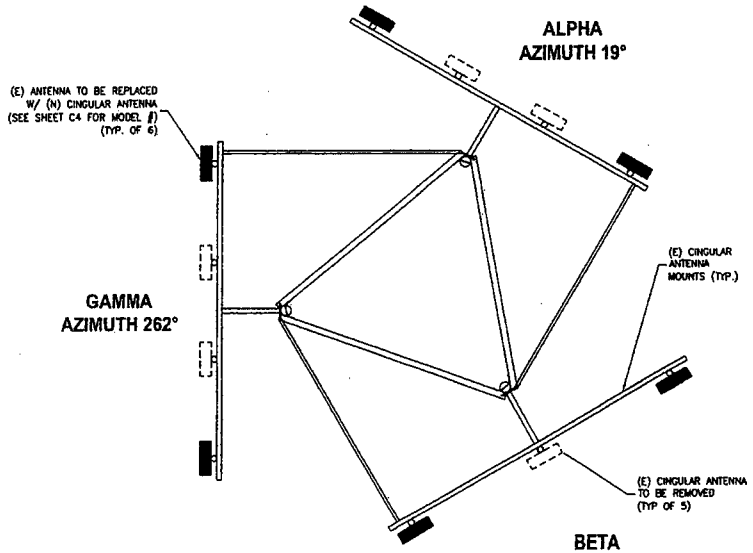
CONSTRUCTION SHALL NOT PROCEED UNTIL A STRUCTURAL ANALYSIS HAS BEEN PERFORMED BY A LICENSED PROFESSIONAL ENGINEER REGISTERED IN CT TO DETERMINE IF THE TOWER IS STRUCTURALLY ADEQUATE TO SUSTAIN PROPOSAL.



SITE ELEVATION 1 / C2

SCALE: 11x17 - NTS
SCALE: 22x34 - NTS

PURPOSE OF THESE DESIGN DOCUMENTS ARE FOR 6 ANTENNA REPLACEMENTS, 5 ANTENNA REMOVALS, 9 EXISTING AIR FED COAXIAL REMOVALS TO BE REPLACED WITH 12 PROPOSED 1 5/8" COAXIAL CABLES FOR CINGULAR WIRELESS.



ANTENNA PLAN VIEW 2 / C2

SCALE: 11x17 - NTS
SCALE: 22x34 - NTS

N

cingular WIRELESS

SAI communications

PSG ENGINEERING, LTD.

SITE NUMBER:
2133
SITE NAME:
DANBURY - SOUTH
SITE ADDRESS:
MOSES MOUNTAIN
DANBURY, CT

DRAWN BY: GH
CHECKED BY: OP
PROJECT NO: CO04138-B15080

SUBMITTALS

NO	DESCRIPTION	BY	DATE
0	ZONING COMMITTEE CDS	GH	08/11/05

OSCAR PESTRIN No 21352 LICENSED PROFESSIONAL ENGINEER STATE OF CONNECTICUT 8/12/05

SHEET TITLE
SITE ELEVATION & ANT PLAN

SHEET NUMBER
C2

BAYAR ENGINEERING, P.C.
Structural Engineers
P.O. Box 1287, Port Chester, N.Y. 10573-8287
TEL: (914) 681-8749 FAX: (914) 421-0416

Demirtas C. Bayar, P.E.

October 15, 2005

Mr. George Bullock
SAI Communications
184 Rockingham Road, Unit A
Londonderry, NH 03053

Re: Structural Analysis of tower in Moses Mountain, CT. (Site 2133)
BE Job No. 0509-5

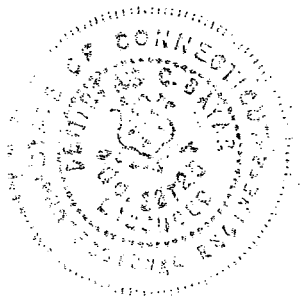
Dear Mr. Bullock,

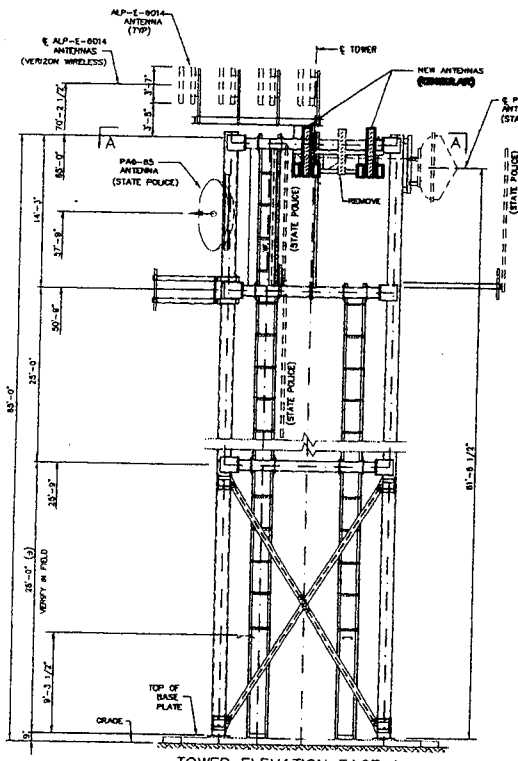
Our previous analysis of the existing 65'-0" tower at Moses Mountain, Danbury, CT. in 2003 was for the tower to carry the antennas and equipment shown on Sketch No SK0509-4. That analysis included the 12 ALP antennas which now will be replaced by 6 powerwave 7770 antennas and 12 powerwave TMAs. The number of cables running down the tower will be the same. That previous analysis required substantial strengthening. The new members installed at that time were designed for strength as well as the reduction of the tilt and twist of the tower. Our analysis of your proposed antenna configuration shows that the tilt and twist of the tower will be within acceptable limits and the strength of the members is adequate to support the loads produced by the antennas and equipment shown on the attached sketch.

This last analysis assumes that the number of cables will remain the same and no new cable racks will be installed on the tower.

Yours truly,

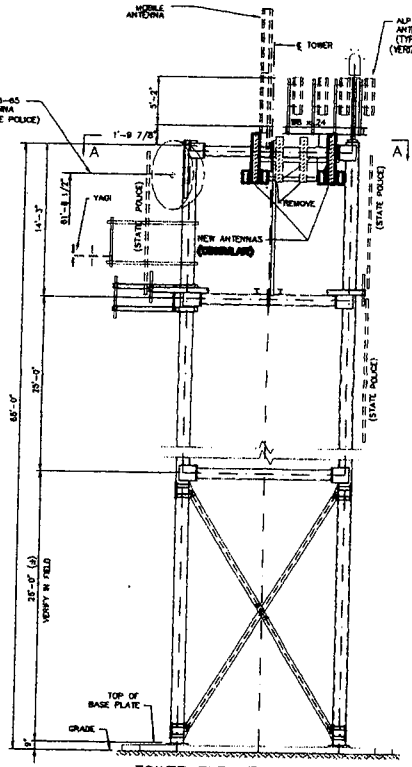
Demirtas Bayar, P.E. # 12725 (CT)
President





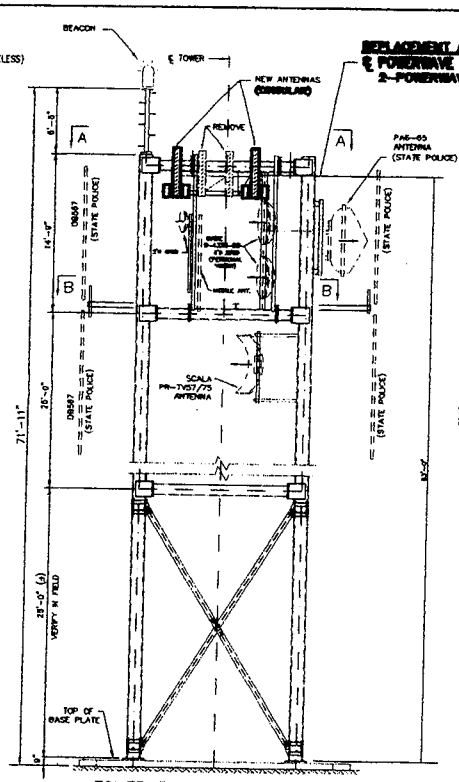
TOWER ELEVATION FACE A

SCALE: 3/16"=1'-0"



TOWER ELEVATION FACE B

SCALE: 3/16"=1'-0"



TOWER ELEVATION FACE C

SCALE: 3/16"=1'-0"

REPLACEMENT ANTENNAS
℄ POWERWAVE 7770 +
2-POWERWAVE TMA

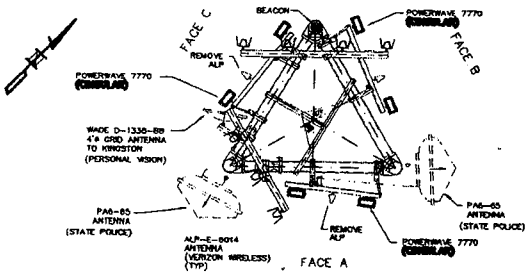
GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS," OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION WITH NO INCREASE IN THE ALLOWABLE STRESSES FOR WIND LOAD COMBINATIONS.
2. ALL LOADS SHALL CONFORM TO THE LATEST EDITION OF THE "MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES," ASCE 7-93 OF THE AMERICAN SOCIETY OF CIVIL ENGINEERS.
3. FIELD HOLES AND CUTS SHALL BE GIVEN TWO COATS OF ZINC COLD GALVANIZING COMPOUND CONFORMING TO THE FEDERAL SPECIFICATION DOC-P-21035A AND MIL-P-26915A AND MIL-T-26453. GALVANIZING SHALL BE PREPARED AND APPLIED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
4. THIS TOWER IS DESIGNED FOR A BASIC WIND SPEED OF 80 MPH., EXPOSURE B, TO CARRY THE FOLLOWING:

8 - (4) ALP-E-6104 ANTENNAS TO 2 DIRECTIONS AT 70.25' ABOVE BASE. (PROPOSED NEW)
1 - 15' LONG MOBILE ANTENNA ABOVE TOP OF TOWER.
1 - PA6-65 PARABOLIC ANTENNA @ 61.71' ABOVE BASE.

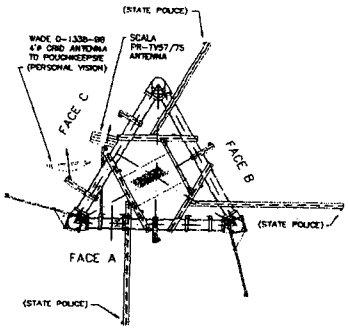
REMOVE = 12 - (4)-ALP11011 ANT.'S TO 3 DIREC.'S @ 61' ABOVE BASE.
REPLACE= 6 - POWERWAVE 7770 ANTENNAS + 12 POWERWAVE TMAs @ 63' ABOVE BASE

1 - 2'ø GRID ANTENNA AT 58' ABOVE BASE.
1 - WADE 4'ø GRID PAR. ANTENNA @ 58.5' ABOVE BASE.
2 - DB567 MOBILE ANTENNAS @ 58' ABOVE BASE.
1 - PA6-65 PARABOLIC ANTENNA @ 57.75' ABOVE BASE.
1 - MOBILE ANTENNAS @ 56' ABOVE BASE.
1 - SCALA PR-TV ANTENNA @ 54' ABOVE BASE.
1 - WADE 4'ø GRID PAR. ANTENNA @ 53.5' ABOVE BASE.
1 - YAGI ANTENNA @ 53' ABOVE BASE.
2 - DB587 MOBILE ANTENNAS @ 43' ABOVE BASE.



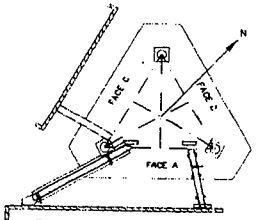
PLAN AT A-A LEVEL

SCALE: 3/16"=1'-0"



PLAN AT B-B LEVEL

SCALE: 3/16"=1'-0"



PLAN AT WAVE GUIDE SUPPORT

SCALE: 1/8"=1'-0"

PLOT SCALE: 3/16"

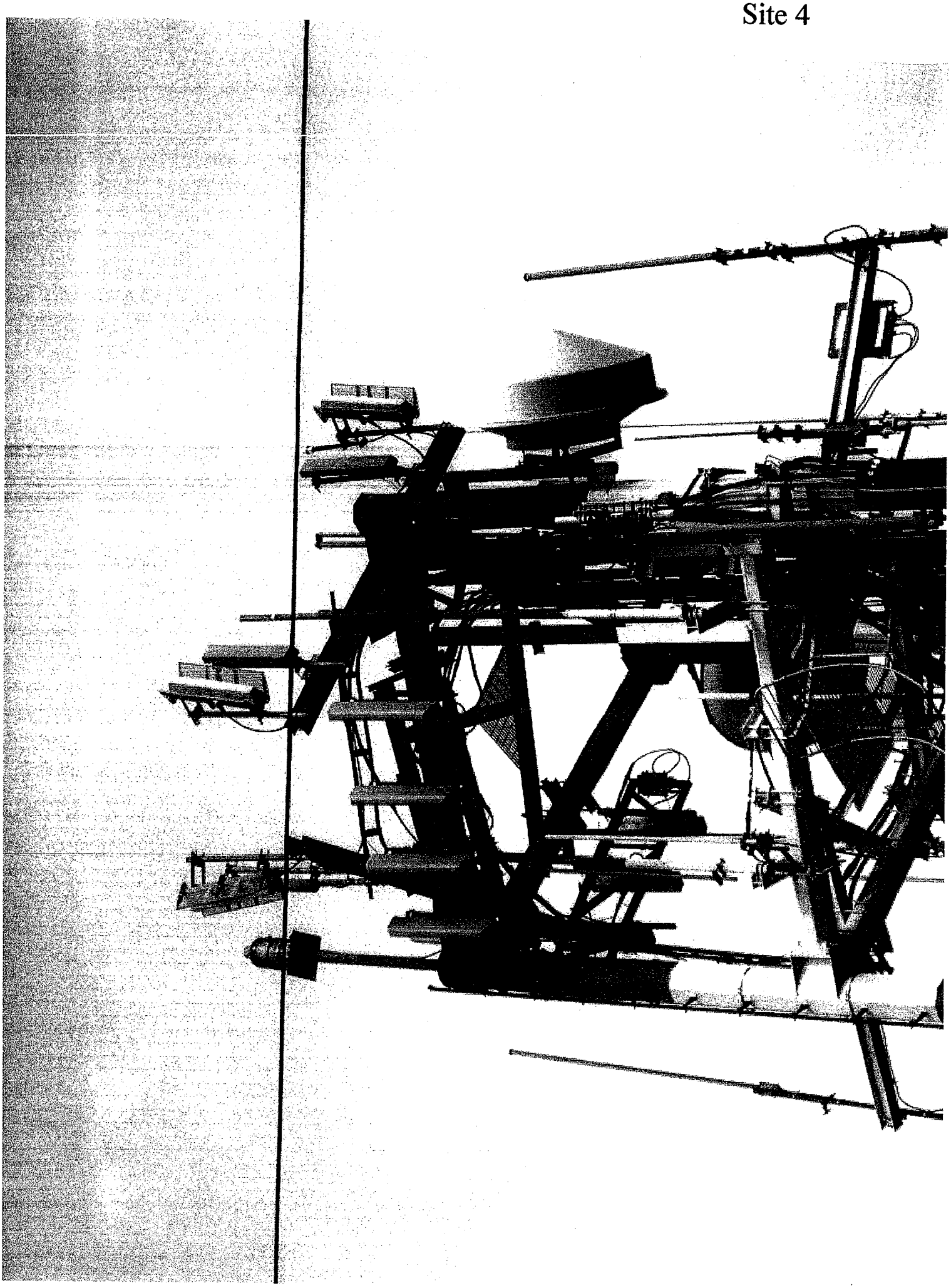
ISSUE

MOISES MTN., CT.	
GENERAL ARRANGEMENT REPLACEMENT OF CIRCULAR ANTENNAS	
RADIO RELAY TOWER EXIST. 65'-0" SPECIAL TOWER	
BAYAR ENGINEERING, P.C. P.O.BOX 1287, PORT CHESTER, NY. 10573	
JOB NO. 0509-5	DRAWN E.C.B.
CHECKED E.C.B.	DATE OCT. 14, 2005
DWG.NO.	SK0509-5

2133

Site 4

Site 4



Site Specific Attachments

Site 5

1. Site Plans
2. Tower Structural Analysis
3. Site Photographs

APPROVALS

NAME (PRINT)	SIGNATURE	DATE
CINGULAR		
NAME (PRINT)	SIGNATURE	DATE
SAI		
NAME (PRINT)	SIGNATURE	DATE
SITING COUNCIL COMMITTEE		
NAME (PRINT)	SIGNATURE	DATE
OTHER		

cingular WIRELESS

SITE NUMBER: 2176
SITE NAME: BRIDGEPORT - CENTRAL

DRAWING INDEX

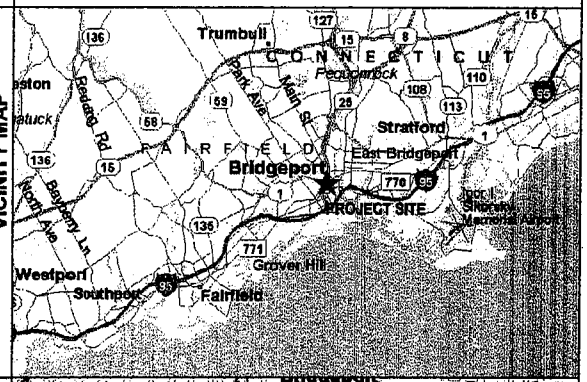
PROJECT INFORMATION

SCOPE OF WORK:	UNMANNED TELECOMMUNICATIONS FACILITY MODIFICATIONS
SITE NUMBER:	2176
SITE NAME:	BRIDGEPORT – CENTRAL
ADDRESS:	430 JOHN ST
CITY, STATE ZIP	BRIDGEPORT, CT
LATITUDE:	41.177686°
LONGITUDE:	-73.193703°
JURISDICTION:	FAIRFIELD COUNTY
CURRENT USE:	TELECOMMUNICATIONS FACILITY
PROPOSED USE:	TELECOMMUNICATIONS FACILITY
SITE TYPE:	ROOFTOP
RAD CENTER:	148'-0"
OWNER:	RCC CONSULTANTS

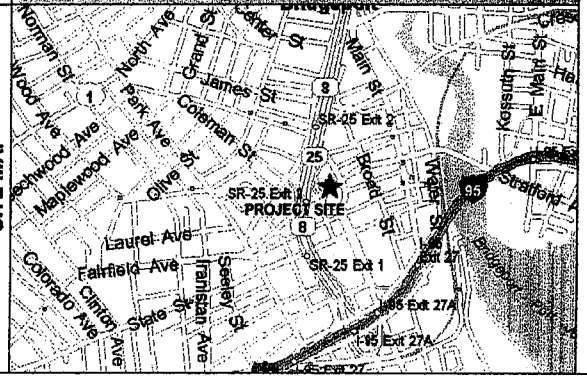
MAPS & DIRECTIONS

TAKE I-95 EAST AND TAKE EXIT 27A ONTO SR-25 [SR-8] NORTH. TAKE EXIT 2 AND BEAR RIGHT ONTO HARRISON ST. TURN RIGHT ONTO FAIRFIELD AVE.

VICINITY MAP



SITE MAP



BLDG. CODES AND STANDARDS

SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

BUILDING CODE:
INTERNATIONAL BUILDING CODE (IBC), 2003

ELECTRICAL CODE:
NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70 – 2002 NATIONAL ELECTRICAL CODE

LIGHTNING PROTECTION CODE:
NFPA 780 – 2000, LIGHTNING PROTECTION CODE

SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS.
AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION
TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-F, STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES:
TIA 607, COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS

INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM
IEEE 1100 (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRONIC EQUIPMENT

IEEE C62.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND "HIGH SYSTEM EXPOSURE")

TELCORDIA GR-1275, GENERAL INSTALLATION REQUIREMENTS

TELCORDIA GR-1503, COAXIAL CABLE CONNECTIONS

ANSI T1.311, FOR TELECOM – DC POWER SYSTEMS – TELECOM ENVIRONMENTAL PROTECTION

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

cingular WIRELESS

SAI communications

PSG ENGINEERING, LTD.

SITE NUMBER:
2176
SITE NAME:
BRIDGEPORT - CENTRAL
SITE ADDRESS:
430 JOHN ST
BRIDGEPORT, CT

DRAWN BY: JR
CHECKED BY: DP
PROJECT NO: 0604A174-0606148

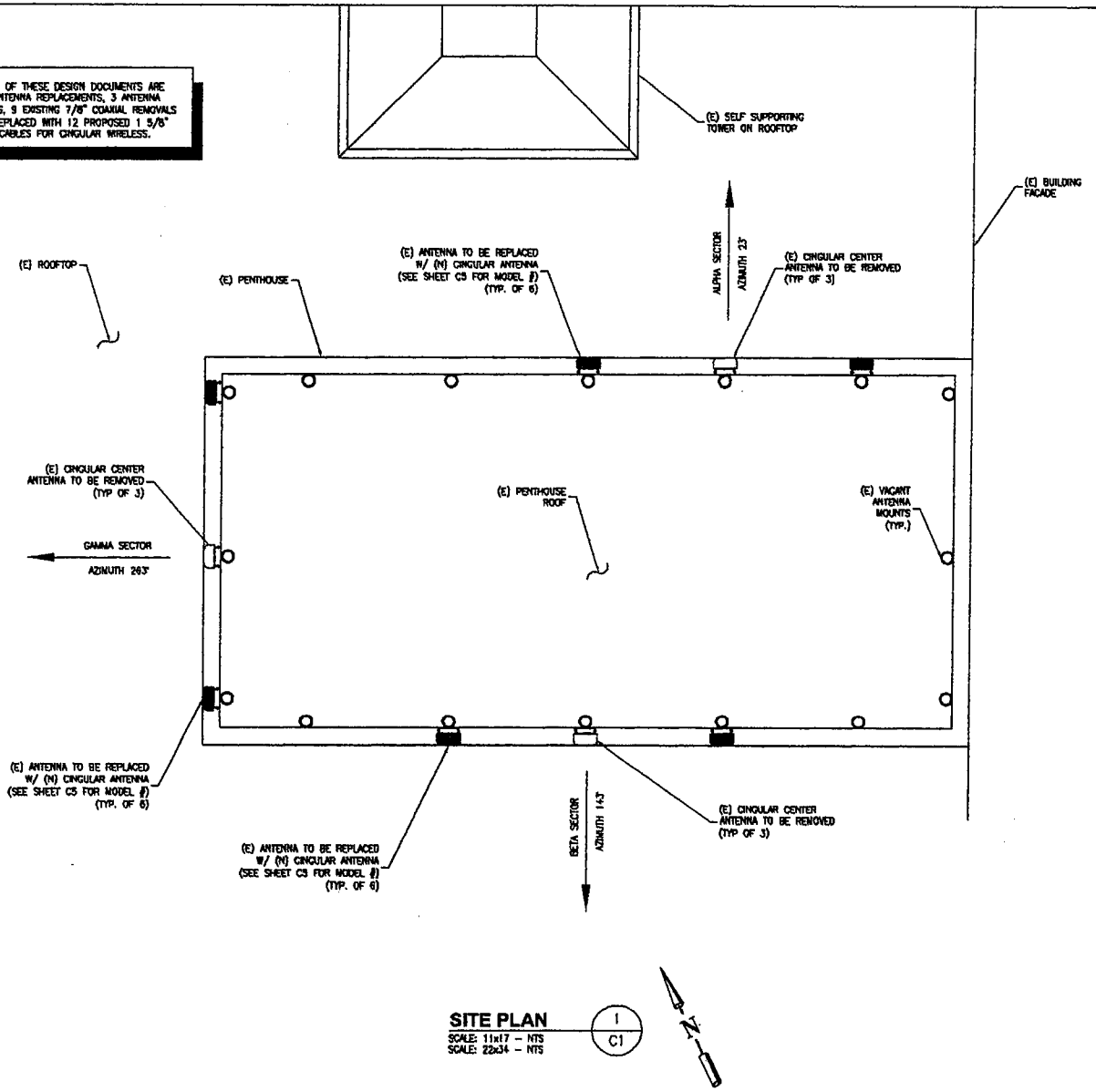
SUBMITTALS

NO	DESCRIPTION	BY	DATE
0	ZONING COMMITTEE CSC	JR	06/19/06

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T1

PURPOSE OF THESE DESIGN DOCUMENTS ARE FOR 6 ANTENNA REPLACEMENTS, 3 ANTENNA REMOVALS, 9 EXISTING 7/8" COAXIAL REMOVALS TO BE REPLACED WITH 12 PROPOSED 1 5/8" COAXIAL CABLES FOR CINGULAR WIRELESS.



SITE PLAN — 1 / C1
SCALE: 11x17 – NTS
SCALE: 22x34 – NTS

cingular WIRELESS

SAI communications

PSC ENGINEERING, LTD.

SITE NUMBER:
2176
SITE NAME:
BRIDGEPORT - CENTRAL
SITE ADDRESS:
430 JOHN ST
BRIDGEPORT, CT

DRAWN BY: JH
CHECKED BY: DP
PROJECT NO: 0604 N74-0268 H6

SUBMITTALS

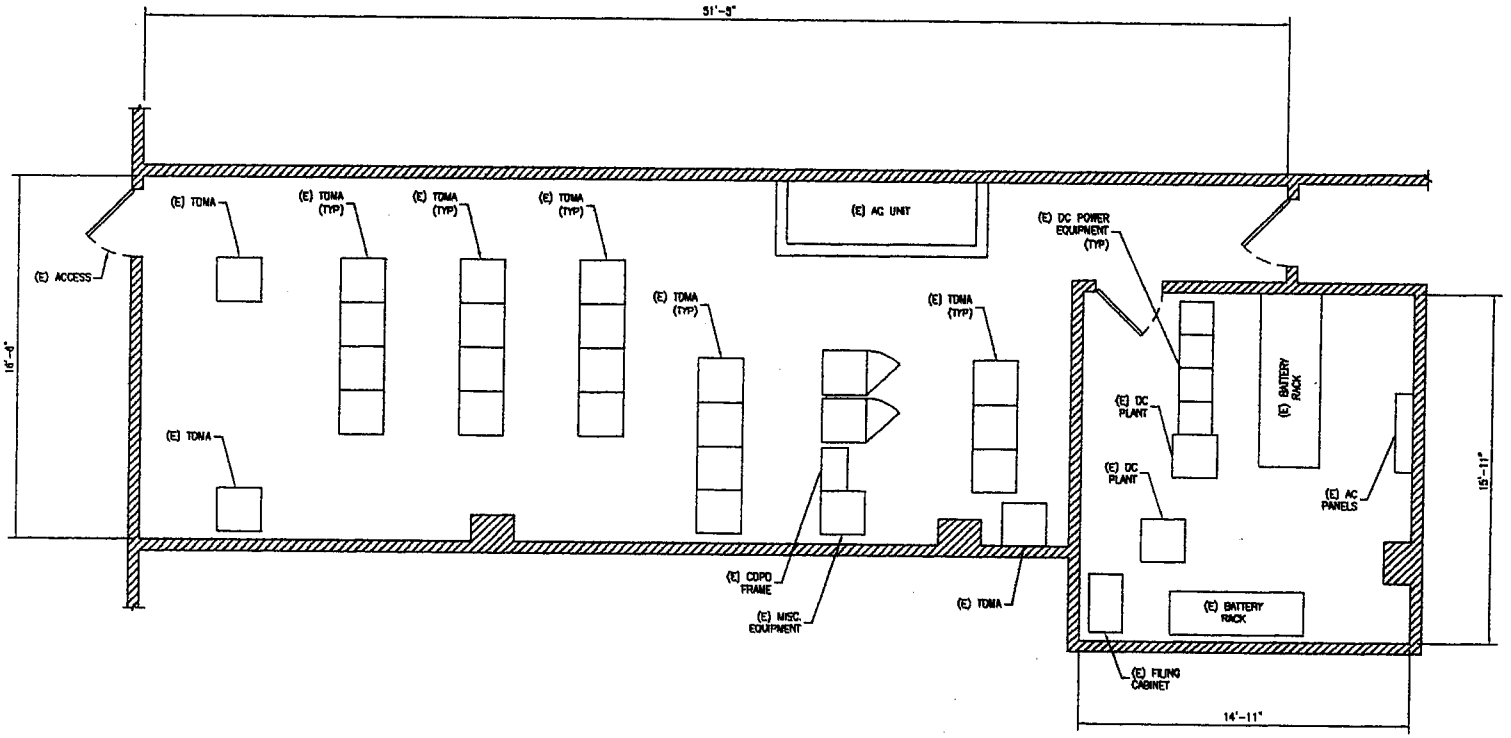
NO	DESCRIPTION	BY	DATE
0	ZONING COMMITTEE CDS	JH	08/15/05

SHEET TITLE
SITE PLAN

SHEET NUMBER
C1

File Name: C:\Cingular\2176\2176 Civil Set.dwg Aug 18, 2005 - 11:48pm Jhost

PURPOSE OF THESE DESIGN DOCUMENTS ARE FOR 6 ANTENNA REPLACEMENTS, 3 ANTENNA REMOVALS, 9 EXISTING 7/8" COAXIAL REMOVALS TO BE REPLACED WITH 12 PROPOSED 1 5/8" COAXIAL CABLES FOR CINGULAR WIRELESS.



EQUIPMENT PLAN (1 / C2)

SCALE: 11x17 - 3/16"=1'-0"
SCALE: 22x34 - 3/8"=1'-0"

N

cingular WIRELESS

SAI communications

PSG ENGINEERING, LTD.

SITE NUMBER:
2176
SITE NAME:
BRIDGEPORT - CENTRAL
SITE ADDRESS:
430 JOHN ST
BRIDGEPORT, CT

DRAWN BY: JR
CHECKED BY: DP
PROJECT NO: 0504474-0000149

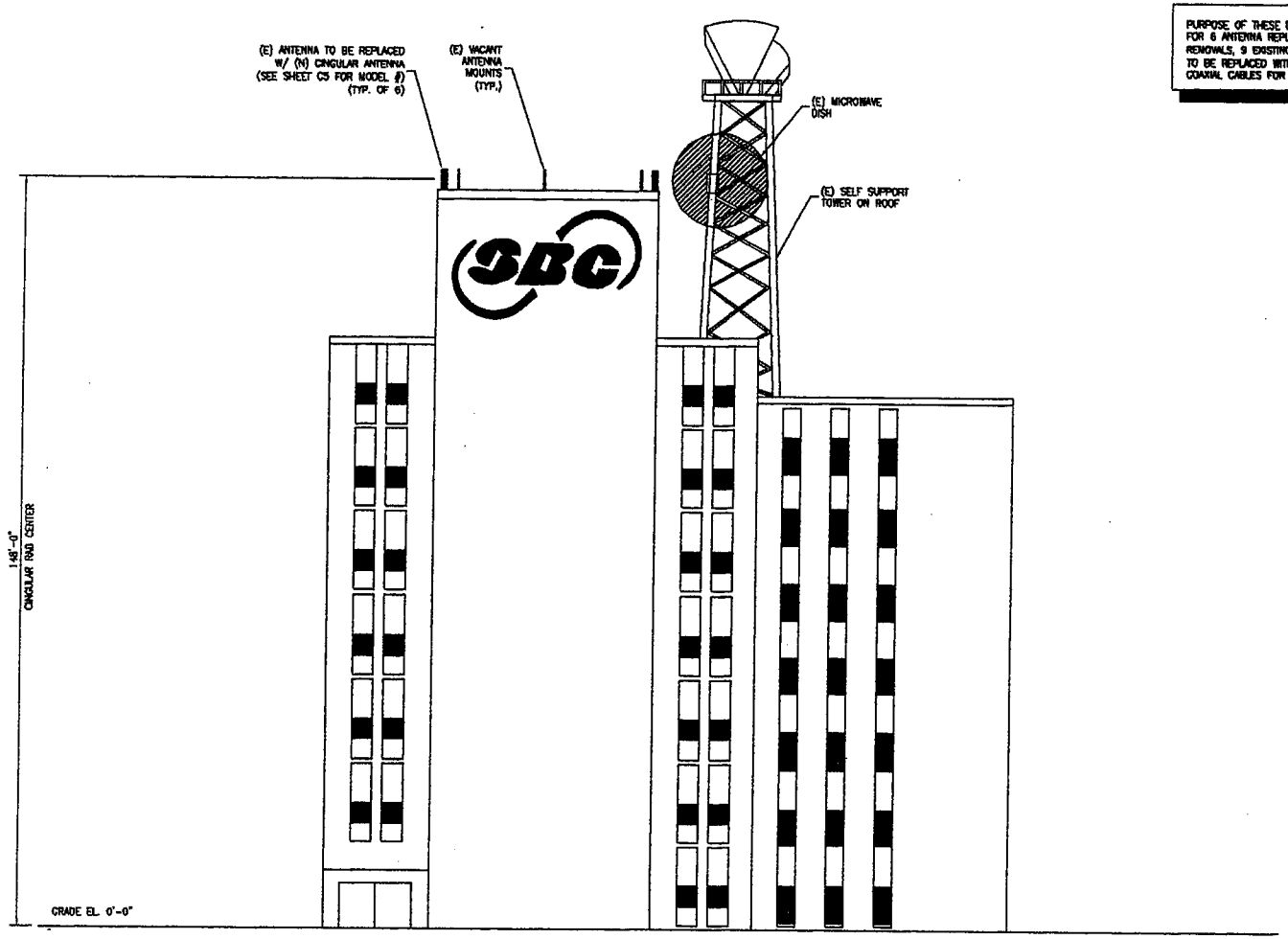
SUBMITTALS

NO	DESCRIPTION	BY	DATE
0	ZONING COMMITTEE CDR1	JR	08/19/05

SHEET TITLE
EQUIPMENT PLAN

SHEET NUMBER
C2

File Info: C:\XCingular\21765\2176 Cbd Set.dwg Aug 18, 2005 - 1:48pm Jnas



SITE ELEVATION (1 / C3)

SCALE: 11x17 - NTS
SCALE: 22x34 - NTS

PURPOSE OF THESE DESIGN DOCUMENTS ARE FOR 6 ANTENNA REPLACEMENTS, 3 ANTENNA REMOVALS, 9 EXISTING 7/8" COAXIAL REMOVALS TO BE REPLACED WITH 12 PROPOSED 1 5/8" COAXIAL CABLES FOR CINGULAR WIRELESS.

cingular WIRELESS

SAI communications

PSG ENGINEERING, LTD.

SITE NUMBER:
2176
SITE NAME:
BRIDGEPORT - CENTRAL
SITE ADDRESS:
431 JOHN ST
BRIDGEPORT, CT

DRAWN BY: JR
CHECKED BY: DP
PROJECT NO: [illegible]

SUBMITTALS

NO	DESCRIPTION	BY	DATE
0	ZONING COMMITTEE C/O	JR	08/19/05

SHEET TITLE
SITE ELEVATION

SHEET NUMBER
C3

File Info: C:\PCAngular\2176\2176 Cht Std.dwg Aug 19, 2005 - 1:48pm Jrose

BAYAR ENGINEERING, P.C.
Structural Engineers
P.O. Box 1287, Port Chester, N.Y. 10573-8287
TEL: (914) 681-8749 FAX: (914) 421-0416

Demirtas C. Bayar, P.E.

October 13, 2005

Mr. George Bullock
SAI Communications
184 Rockingham Road, Unit A
Londonderry, NH 03053

Re: Analysis of structures at Bridgeport, CT. (Site 2176) and Danbury CO., CT (Site 2124)
BE Job No. 0509-6 & 0509-3

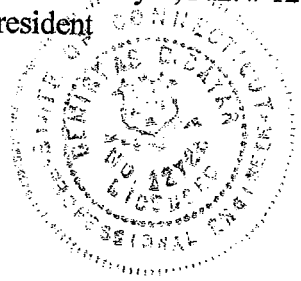
Dear Mr. Bullock,

Bridgeport, CT.:
The pipe supports for the antennas extend 4'-3" above the parapet wall of the building roof at 430 John Street, Bridgeport, CT. This works well with the existing Cellwave antenna which is 4'-0" long. The Powerwave 7770 antenna which will replace the existing is 4'-7" long. The new antenna may require an extension pipe attached to the existing pipe if the mounting of the new antenna will not work with the 4'-3" pipe extension. We checked the strength of the pipe and its connections based on an additional 3" diameter pipe support as well the 7770 antenna plus TMAs on the back of the antenna and found that the system is adequate to support the loads.

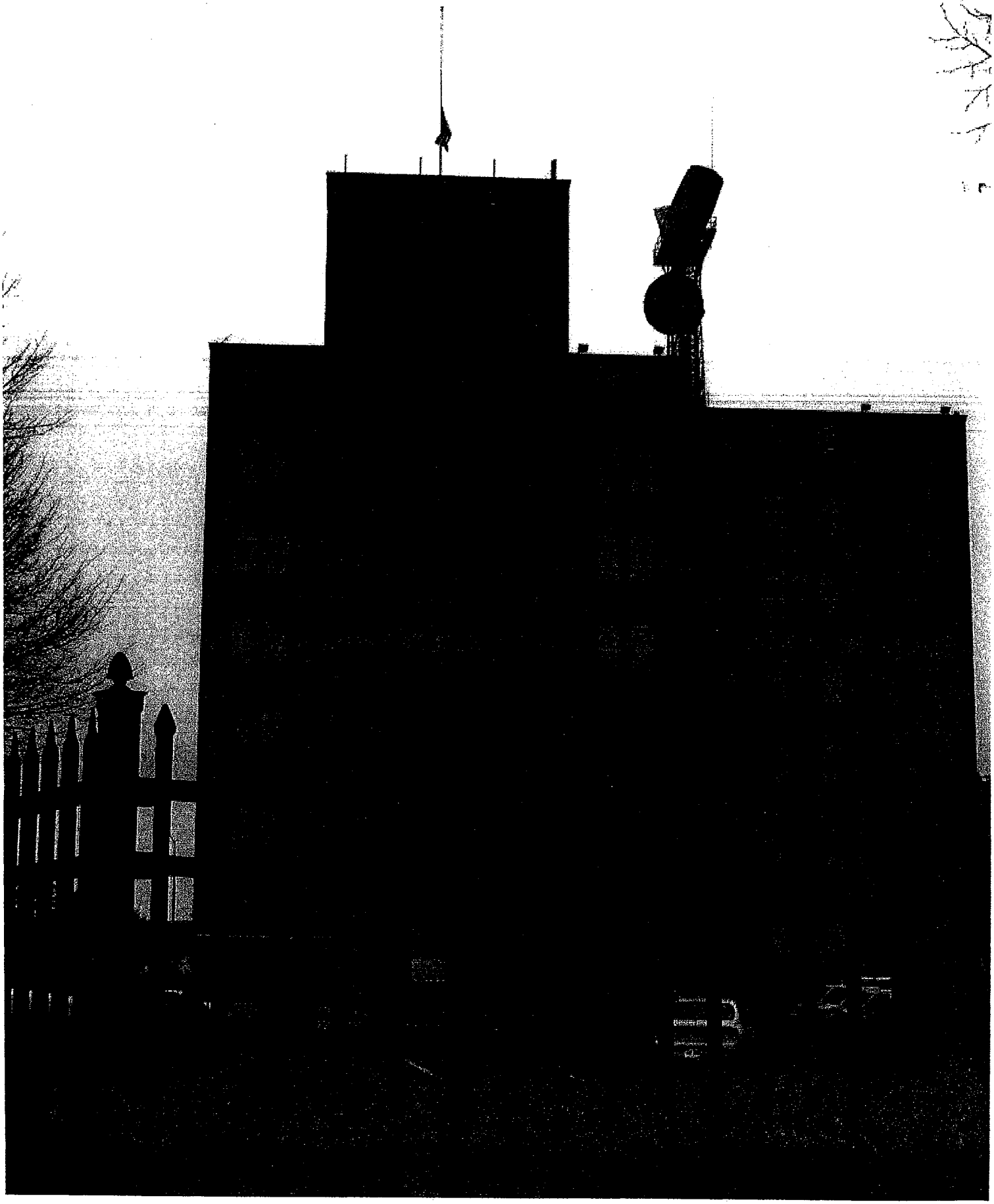
Danbury CO, CT.:
Replacement of the 3 existing antennas with 3 Powerwave 7770 antennas under the shroud of the structure on top of the roof at 39 West Street, Danbury, CT will not change the total loads on the structure. However, we assumed that the antennas will be longer and thus add wind area plus the TMAs will add wind area. The existing structure will be adequate to support the assumed loads and the proposed configuration of the equipment.

Yours truly,

Demirtas Bayar, P.E. # 12725 (CT)
President



Site 5



Site 5

Letters to Chief Elected Officials

cingular
raising the bar

November 30, 2005

Honorable Joseph G. Crudo, Town Council Chairman
Town of Stratford
Town Hall
2725 Main Street
Stratford, CT 06615

Re: **Notice of Exempt Modifications to Various Facilities in the Towns of Stratford, Stamford, Danbury and Bridgeport, Connecticut**

Dear Mr. Crudo,

As part of its merger and integration efforts, New Cingular Wireless PCS, LLC ("Cingular" or "the Company") intends to modify instrumentation and/or antenna configurations at certain wireless telecommunications facilities. As required by the Regulations of Connecticut State Agencies ("R.C.S.A.") Section 16-50j-73, the Connecticut Siting Council has been notified of the changes and will review the Company's proposal. Please accept this letter and attachments as notification 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 accompanying letter fully describes Cingular's proposal. However, if you have any questions or require any further information on our plans or the Siting Council's procedures, please call me at (860) 301-6378 or Mr. Derek Phelps, Executive Director, Connecticut Siting Council at (860) 827-2935.

Sincerely,

David S. Malko, P.E.
Consultant for New Cingular Wireless

Enclosure

cingular
raising the bar

November 30, 2005

Honorable Dannel P. Malloy, Mayor
City of Stamford
10th Floor Govt Ctr.
888 Washington Blvd.
Stamford, CT 06902

Re: **Notice of Exempt Modifications to Various Facilities in the Towns of Stratford, Stamford, Danbury and Bridgeport, Connecticut**

Dear Mr. Malloy,

As part of its merger and integration efforts, New Cingular Wireless PCS, LLC ("Cingular" or "the Company") intends to modify instrumentation and/or antenna configurations at certain wireless telecommunications facilities. As required by the Regulations of Connecticut State Agencies ("R.C.S.A.") Section 16-50j-73, the Connecticut Siting Council has been notified of the changes and will review the Company's proposal. Please accept this letter and attachments as notification 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 accompanying letter fully describes Cingular's proposal. However, if you have any questions or require any further information on our plans or the Siting Council's procedures, please call me at (860) 301-6378 or Mr. Derek Phelps, Executive Director, Connecticut Siting Council at (860) 827-2935.

Sincerely,

David S. Malko, P.E.
Consultant for New Cingular Wireless

Enclosure

cingular
raising the bar

November 30, 2005

Honorable Mark D. Boughton, Mayor
City of Danbury
155 Deer Hill Avenue
Danbury, CT 06810

Re: **Notice of Exempt Modifications to Various Facilities in the Towns of Stratford, Stamford, Danbury and Bridgeport, Connecticut**

Dear Mr. Boughton,

As part of its merger and integration efforts, New Cingular Wireless PCS, LLC ("Cingular" or "the Company") intends to modify instrumentation and/or antenna configurations at certain wireless telecommunications facilities. As required by the Regulations of Connecticut State Agencies ("R.C.S.A.") Section 16-50j-73, the Connecticut Siting Council has been notified of the changes and will review the Company's proposal. Please accept this letter and attachments as notification 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 accompanying letter fully describes Cingular's proposal. However, if you have any questions or require any further information on our plans or the Siting Council's procedures, please call me at (860) 301-6378 or Mr. Derek Phelps, Executive Director, Connecticut Siting Council at (860) 827-2935.

Sincerely,

David S. Malko, P.E.
Consultant for New Cingular Wireless

Enclosure

cingular
raising the bar

November 30, 2005

Honorable John Fabrizi, Mayor
City of Bridgeport
City Hall Annex
999 Broad Street
Bridgeport, CT 06604

Re: **Notice of Exempt Modifications to Various Facilities in the Towns of Stratford, Stamford, Danbury and Bridgeport, Connecticut**

Dear Mr. Fabrizi,

As part of its merger and integration efforts, New Cingular Wireless PCS, LLC ("Cingular" or "the Company") intends to modify instrumentation and/or antenna configurations at certain wireless telecommunications facilities. As required by the Regulations of Connecticut State Agencies ("R.C.S.A.") Section 16-50j-73, the Connecticut Siting Council has been notified of the changes and will review the Company's proposal. Please accept this letter and attachments as notification 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 accompanying letter fully describes Cingular's proposal. However, if you have any questions or require any further information on our plans or the Siting Council's procedures, please call me at (860) 301-6378 or Mr. Derek Phelps, Executive Director, Connecticut Siting Council at (860) 827-2935.

Sincerely,

David S. Malko, P.E.
Consultant for New Cingular Wireless

Enclosure

STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

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

December 5, 2005

The Honorable John Fabrizi
Mayor
City of Bridgeport
City Hall
999 Broad Street
Bridgeport, CT 06604

RE: **EM-CING-138-135-034-015-051130** - New Cingular Wireless PCS, LLC notice of intent to modify existing telecommunications facilities located at 623 Honey Spot Road, Stratford; 555 Main Street, Stamford; 39 West Street, Danbury; Moses Mountain, Danbury; and 430 John Street, Bridgeport, Connecticut.

Dear Mayor Fabrizi:

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 December 14, 2005 at 1.30 p.m. in Hearing Room One, Ten Franklin Square, New Britain, Connecticut.

If you have any questions or comments regarding this proposal, please call me or inform the council by December 12, 2005.

Thank you for your cooperation and consideration.

Very truly yours,

SDP/CKS

S. Derek Phelps
Executive Director

SDP/ap

Enclosure: Notice of Intent

c: Melanie J. Howlett, Assistant City Attorney, City of Bridgeport

STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

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

December 5, 2005

The Honorable Mark D. Boughton
Mayor
City of Danbury
City Hall
155 Deer Hill Avenue
Danbury, CT 06810

RE: **EM-CING-138-135-034-015-051130** - New Cingular Wireless PCS, LLC notice of intent to modify existing telecommunications facilities located at 623 Honey Spot Road, Stratford; 555 Main Street, Stamford; 39 West Street, Danbury; Moses Mountain, Danbury; and 430 John Street, Bridgeport, Connecticut.

Dear Mayor Boughton:

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 December 14, 2005 at 1.30 p.m. in Hearing Room One, Ten Franklin Square, New Britain, Connecticut.

If you have any questions or comments regarding this proposal, please call me or inform the council by December 12, 2005.

Thank you for your cooperation and consideration.

Very truly yours,

SDP/ERE

S. Derek Phelps
Executive Director

SDP/ap

Enclosure: Notice of Intent

c: Dennis Elpern, City Planner, City of Danbury

STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

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

December 5, 2005

The Honorable Dannel P. Malloy
Mayor
City of Stamford
Stamford Government Center
888 Washington Boulevard
P. O. Box 10152
Stamford, CT 06904-2152

RE: **EM-CING-138-135-034-015-051130** - New Cingular Wireless PCS, LLC notice of intent to modify existing telecommunications facilities located at 623 Honey Spot Road, Stratford; 555 Main Street, Stamford; 39 West Street, Danbury; Moses Mountain, Danbury; and 430 John Street, Bridgeport, Connecticut.

Dear Mayor Malloy:

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 December 14, 2005 at 1.30 p.m. in Hearing Room One, Ten Franklin Square, New Britain, Connecticut.

If you have any questions or comments regarding this proposal, please call me or inform the council by December 12, 2005.

Thank you for your cooperation and consideration.

Very truly yours,

SDP/RKE

S. Derek Phelps
Executive Director

SDP/ap

Enclosure: Notice of Intent

c: Robert Stein, Planning and Zoning Director, City of Stamford

STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

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

December 5, 2005

The Honorable James R. Miron
Town Manager
Town of Stratford
Town Hall, Room 101
2725 Main Street
Stratford, CT 06497

RE: **EM-CING-138-135-034-015-051130** - New Cingular Wireless PCS, LLC notice of intent to modify existing telecommunications facilities located at 623 Honey Spot Road, Stratford; 555 Main Street, Stamford; 39 West Street, Danbury; Moses Mountain, Danbury; and 430 John Street, Bridgeport, Connecticut.

Dear Mr. Miron:

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 December 14, 2005 at 1.30 p.m. in Hearing Room One, Ten Franklin Square, New Britain, Connecticut.

If you have any questions or comments regarding this proposal, please call me or inform the council by December 12, 2005.

Thank you for your cooperation and consideration.

Very truly yours,

SDP/RKE

S. Derek Phelps
Executive Director

SDP/ap

Enclosure: Notice of Intent

c: Gary Lorentson, Planning & Zoning Administrator, Town of Stratford

3514

SAI communications

DIV. SITE AQUISITION INC.
184 ROCKINGHAM ROAD SUITE A-C
LONDONDERRY, NH 03053

BANK OF AMERICA
SALEM, NEW HAMPSHIRE
54-49-114

~~11/4/2005~~

PAY TO THE ORDER OF Connecticut Siting Council $ **500.00

Five Hundred and 00/100********** DOLLARS

Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

MEMO Cingular Filing Fee

Amy J. Mills MP

⑈003514⑈ ⑆011400495⑆ 00898 77441⑈

SAI COMMUNICATIONS
DIV. SITE AQUISITION INC.

3514

Connecticut Siting Council	11/4/2005	
Cingular Filing Fee		500.00

RECEIVED
NOV 30 2005

Cheeks Received
EM or TS

Date Filed: 11/30/05

Type: EM or TS
(circle one)

For: Filing or Field Review
(circle one)

Tower Owner	Street Address & Town	Requester Name(s)	Payee Name
BECKER LLC	623 HONEYSPOT RD STRATFORD, CT	CINGULAR (NEW CINGULAR)	SAI
SBC (CINGULAR)	555 MAIN ST STAMFORD, CT		
SBC (CINGULAR)	39 WEST ST. DANBURY, CT		
RCC CONSULTANTS	MOSES MOUNTAIN DANBURY, CT		
RCC CONSULTANTS	430 JOHN ST BRIDGEPORT, CT		

List DO# if applicable: _____

CSC Filing Name: EM-CING-138-135-034-015-051130
(i.e., EM-BAM-001-990911)

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