



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

Internet: ct.gov/csc

Daniel F. Caruso
Chairman

January 7, 2009

Steven L. Levine
Real Estate Consultant
New Cingular Wireless PCS, LLC
500 Enterprise Drive
Rocky Hill, CT 06067-3900

RE: **EM-CING-012-081203**- New Cingular Wireless PCS, LLC notice of intent to modify an existing telecommunications facility located at 29 South Road, Bolton, Connecticut.

Dear Mr. Levine:

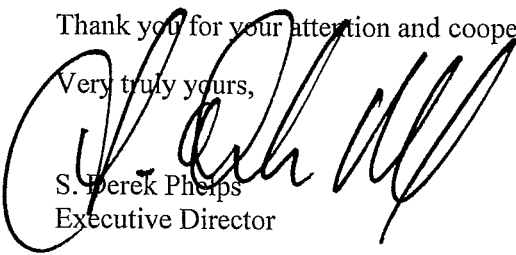
The Connecticut Siting Council (Council) hereby acknowledges your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated December 3, 2008, including the placement of all necessary equipment and shelters within the tower compound. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

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

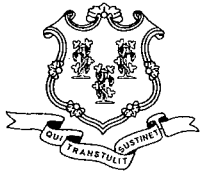
Thank you for your attention and cooperation.

Very truly yours,


S. Derek Phelps
Executive Director

SDP/MP/laf

c: The Honorable Bruno S. Simonetti, First Selectman, Town of Bolton
James Rupert, Zoning Enforcement Officer, Town of Bolton
Christopher B. Fisher, Esq., Cuddy & Feder LLP



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Daniel F. Caruso
Chairman

December 4, 2008

The Honorable Bruno S. Simonetti
First Selectman
Town of Bolton
222 Bolton Center Road
Bolton, CT 06043

RE: **EM-CING-012-081203**- New Cingular Wireless PCS, LLC notice of intent to modify an existing telecommunications facility located at 29 South Road, Bolton, Connecticut.

Dear Mr. Simonetti:

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.

If you have any questions or comments regarding this proposal, please call me or inform the Council by December 18, 2008.

Thank you for your cooperation and consideration.

Very truly yours,


S. Derek Phelps
Executive Director

SDP/jb

Enclosure: Notice of Intent

c: Bob Grillo, Zoning Enforcement Officer, Town of Bolton

EM-CING-012-081203



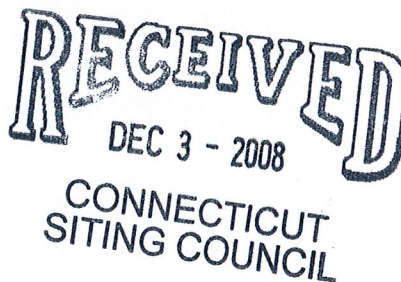
New Cingular Wireless PCS, LLC
500 Enterprise Drive
Rocky Hill, Connecticut 06067-3900
Phone: (860) 513-7636
Fax: (860) 513-7190

Steven L. Levine
Real Estate Consultant

HAND DELIVERED

December 3, 2008

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



Re: New Cingular Wireless PCS, LLC notice of intent to modify an existing tele-communications facility located at 29 South Road, Bolton (owner, AT&T)

Dear Chairman Caruso and Members of the Council:

In order to accommodate technological changes, implement Uniform Mobile Telecommunications System ("UMTS") capability, and enhance system performance in the State of Connecticut, New Cingular Wireless PCS, LLC ("AT&T") plans to modify the equipment configurations at many of its existing cell sites. Please accept this letter and attachments as notification, pursuant to R.C.S.A. Section 16-50j-73, of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2). In compliance with R.C.S.A. Section 16-50j-73, a copy of this letter and attachments is being sent to the chief elected official of the municipality in which the affected cell site is located.

UMTS technology offers services to mobile computer and phone users anywhere in the world. Based on the Global System for Mobile (GSM) communication standard, UMTS is the planned worldwide standard for mobile users. UMTS, fully implemented, gives computer and phone users high-speed access to the Internet as they travel. They have the same capabilities even when they roam, through both terrestrial wireless and satellite transmissions.

Attached is a summary of the planned modifications, including power density calculations reflecting the change in AT&T's operations at the site. Also included is documentation of the structural sufficiency of the tower to accommodate the revised antenna configuration.

The changes to the facility do not constitute modifications as defined in Connecticut General Statutes ("C.G.S.") Section 16-50i(d) because the general physical characteristics of the facility will not be significantly changed or altered. Rather, the planned changes to the facility fall

squarely within those activities explicitly provided for in R.C.S.A. Section 16-50j-72(b)(2).

1. The height of the overall structure will be unaffected. Modifications to the existing site include all or some of the following as necessary to bring the site into conformance with the plan:

- Replacement of existing panel antennas with new antennas or, installation of additional antennas of a size required to accommodate UMTS.
- Installation of small tower mount amplifiers ("TMA's") and/or diplexers to the platform on which the panel antennas are mounted to enhance signal reception.
- Installation of additional or larger coaxial cables as required.
- Installation of an additional equipment cabinet in existing shelters, or on existing or enlarged concrete pads.
- Radome enlargement for flagpole and "stick" structures to accommodate larger antennas and additional associated equipment.

None of these modifications will extend the height of the tower.

2. The proposed changes will not extend the site boundaries. There will be no effect on the site compound other than some enlarged equipment pads as may be noted in the attachments.

3. The proposed changes will not increase the noise level at the existing facility by six decibels or more.

4. Radio frequency power density may increase due to use of one or more GSM channel for UMTS transmissions. However, the changes will not increase the calculated "worst case" power density for the combined operations at the site to a level at or above the applicable standard for uncontrolled environments as calculated for a mixed frequency site.

For the foregoing reasons, New Cingular Wireless respectfully submits that the proposed changes at the referenced site constitute exempt modifications under R.C.S.A. Section 16-50j-72(b)(2).

Please feel free to call me at (860) 513-7636 with questions concerning this matter. Thank you for your consideration.

Sincerely,



Steven L. Levine
Real Estate Consultant

Attachments

**NEW CINGULAR WIRELESS
Equipment Modification**

49 South Road, Bolton
Site Number 5819
Former AT&T cell site
Docket 240 approved 7/03

Tower Owner/Manager: AT&T

Equipment Configuration: Monopole

Current and/or Approved: Three Allgon 7250 panel antennas @ 120 ft AGL
Six runs 1 ¼ inch coax cable
Concrete pad with outdoor equipment cabinets

Planned Modifications: Remove all existing antennas
Install new low profile platform @ 120
Install six Powerwave 7770 antennas (or equivalent) @ 120 ft
Install six TMA's and six diplexers @ 120 ft
Install six additional lines 1 ¼ inch coax
Remove one existing outdoor cabinet
Install one new outdoor cabinet for UMTS

Power Density:

Worst-case calculations for existing wireless operations at the site indicate a radio frequency electromagnetic radiation power density, measured at ground level beside the tower, of approximately 21.1 % of the standard adopted by the FCC. As depicted in the second table below, the total radio frequency electromagnetic radiation power density following proposed modifications would be approximately 27.9 % of the standard.

Existing

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm ²)	Standard Limits (mW/cm ²)	Percent of Limit
Other Users *							18.58
AT&T GSM *	120	1900 Band	4	250	0.0250	1.0000	2.50
Total							21.1%

* Per CSC records

Proposed

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm ²)	Standard Limits (mW/cm ²)	Percent of Limit
Other Users *							18.58
AT&T UMTS	120	880 - 894	1	500	0.0125	0.5867	2.13
AT&T GSM	120	1900 Band	2	427	0.0213	1.0000	2.13
AT&T GSM	120	880 - 894	4	296	0.0296	0.5867	5.04
Total							27.9%

* Per CSC records

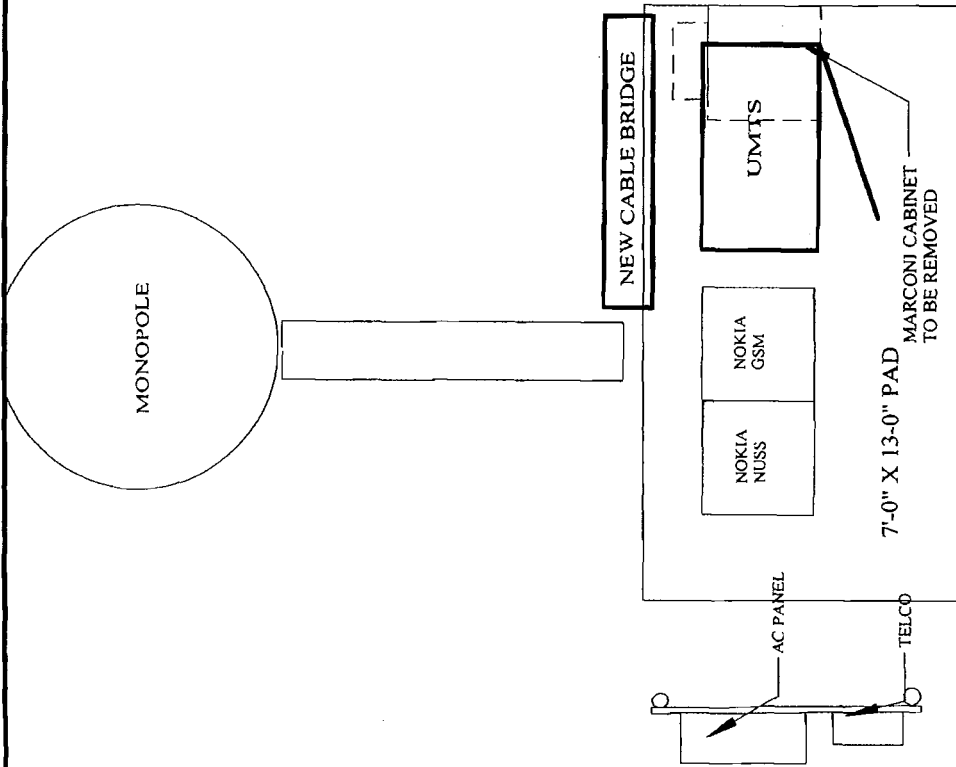
Structural information:

The attached structural analysis demonstrates that the tower and foundation have adequate structural capacity to accommodate the proposed equipment modifications. (GPD Associates, 11/21/08)



SITE NUMBER
5819
SITE NAME
Bolton

TITLE:	EQUIPMENT PLAN
MISC. INFO:	
DWG. BY:	SGB
DATE:	07/07/08
SCALE:	N.T.S.
SHEET:	1 OF 1





New Cingular Wireless PCS, LLC
500 Enterprise Drive
Rocky Hill, Connecticut 06067-3900
Phone: (860) 513-7636
Fax: (860) 513-7190

Steven L. Levine
Real Estate Consultant

December 3, 2008

Bruno S. Simonetti, 1st Selectman
Town Hall 222 Bolton Center Road
Bolton, CT 06043

Re: Telecommunications Facility – 49 South Road

Dear Mr. Simonetti:

In order to accommodate technological changes, implement Uniform Mobile Telecommunications System (“UMTS”) capability, and enhance system performance in the State of Connecticut, New Cingular Wireless PCS, LLC (“AT&T”) will be changing its equipment configuration at certain cell sites.

As required by 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 AT&T’s proposal. Please accept this letter 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 to the Siting Council fully describes AT&T’s proposal for the referenced cell site. 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) 513-7636 or Mr. Derek Phelps, Executive Director, Connecticut Siting Council at (860) 827-2935.

Sincerely,

Steven L. Levine
Real Estate Consultant

Enclosure

SUMMARY & RESULTS

The purpose of this analysis was to verify whether the existing structure is capable of carrying the proposed loading configuration as specified by AT&T to SAI. This report was commissioned by Ms. Karen L. Couture of SAI.

TOWER SUMMARY AND RESULTS

Member	Capacity	Results
Monopole	77.7%	Pass
Base Plate	72.1%	Pass
Anchor Rods	75.4%	Pass
Foundation	69.0%	Pass

ANALYSIS METHOD

RISA Tower (Version 5.3.0.1), a commercially available software program, was used to create a three-dimensional model of the tower and calculate primary member stresses for various dead, live, wind, and ice load cases. Selected output from the analysis is included in Appendix B. The following table details the information provided to complete this structural analysis. This analysis is solely based on this information and is being provided without the benefit of a site visit.

DOCUMENTS PROVIDED

Document	Remarks	Source
AT&T UMTS Document	AT&T Mobility TB 2009 UMTS Scope Meeting Notes	P. Croteau
Original Tower Drawings	Paul J. Ford and Company Job #: 29203-0231, dated 9/16/03	Siterra
Foundation Drawing	Paul J. Ford and Company Job #: 29203-0231, dated 9/16/03	Siterra
Geotechnical Report	VN Engineers Project #: 23-112, dated 8/14/03	Siterra
Previous Structural Analysis	GPD Associates, Job #: 2008264.31 Rev. 2, dated 9/26/08	Siterra

ASSUMPTIONS

This structural analysis is based on the theoretical capacity of the members and is not a condition assessment of the monopole. This analysis is from information supplied, and therefore, its results are based on and are as accurate as that supplied data. GPD has made no independent determination, nor is it required to, of its accuracy. The following assumptions were made for this structural analysis.

1. The monopole shaft sizes and shape are considered accurate as supplied. The material grade is as per data supplied and/or as assumed and as stated in the materials section.
2. The antenna configuration is as supplied and/or as modeled in the analysis. It is assumed to be complete and accurate. All antennas, mounts, coax and waveguides are assumed to be properly installed and supported as per manufacturer requirements
3. Some assumptions are made regarding antennas and mount sizes and their projected areas based on best interpretation of data supplied and of best knowledge of antenna type and industry practice.
4. All mounts, if applicable, are considered adequate to support the loading. No actual analysis of the mount(s) is performed. This analysis is limited to analyzing the tower only.
5. The soil parameters are as per data supplied or as assumed and stated in the calculations. If no data is available, the foundation system is not verified.
6. The tower and structures have been properly maintained in accordance with TIA Standards and/or with manufacturer's specifications.
7. All welds and connections are assumed to develop at least the member capacity, unless determined otherwise and explicitly stated in this report.
8. All prior structural modifications, if any, are assumed to be as per data supplied/available, to have been properly installed and to be fully effective.
9. Tower Mounted Amplifiers and Diplexers are assumed to be installed behind antennas.
10. All existing loading was obtained from the previous structural analysis by GPD Associates, Job #: 2008264.31 Rev. 2; dated 9/26/08, the provided UMTS Document and site photos and is assumed to be accurate.
11. All proposed coax is assumed to be internal to the monopole.
12. Loading interpreted from photos is accurate to $\pm 5'$ AGL, antenna size accurate to ± 3.3 sf, and coax equal to the number of existing antennas without reserve.

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

DISCLAIMER OF WARRANTIES

GPD ASSOCIATES has not performed a site visit to the tower to verify the member sizes or antenna/coax loading. If the existing conditions are not as represented on the tower elevation contained in this report, we should be contacted immediately to evaluate the significance of the discrepancy. This is not a condition assessment of the tower or foundation. This report does not replace a full tower inspection. The tower and foundations are assumed to have been properly fabricated, erected, maintained, in good condition, twist free, and plumb.

The engineering services rendered by GPD ASSOCIATES in connection with this Structural Analysis are limited to a computer analysis of the tower structure and theoretical capacity of its main structural members. All tower components have been assumed to only resist dead loads when no other loads are applied. No allowance was made for any damaged, bent, missing, loose, or rusted members (above and below ground). No allowance was made for loose bolts or cracked welds.

GPD ASSOCIATES does not analyze the fabrication of the structure (including welding). It is not possible to have all the very detailed information needed to perform a thorough analysis of every structural sub-component and connection of an existing tower. GPD ASSOCIATES provides a limited scope of service in that we cannot verify the adequacy of every weld, plate connection detail, etc. The purpose of this report is to assess the feasibility of adding appurtenances usually accompanied by transmission lines to the structure.

It is the owner's responsibility to determine the amount of ice accumulation, if any, that should be considered in the structural analysis.

The attached sketches are a schematic representation of the analyzed tower. If any material is fabricated from these sketches, the contractor shall be responsible for field verifying the existing conditions, proper fit, and clearance in the field. Any mentions of structural modifications are reasonable estimates and should not be used as a precise construction document. Precise modification drawings are obtainable from GPD ASSOCIATES, but are beyond the scope of this report.

Miscellaneous items such as antenna mounts etc. have not been designed or detailed as a part of our work. We recommend that material of adequate size and strength be purchased from a reputable tower manufacturer.

GPD ASSOCIATES makes no warranties, expressed and/or implied, in connection with this report and disclaims any liability arising from material, fabrication, and erection of this tower. GPD ASSOCIATES will not be responsible whatsoever for, or on account of, consequential or incidental damages sustained by any person, firm, or organization as a result of any data or conclusions contained in this report. The maximum liability of GPD ASSOCIATES pursuant to this report will be limited to the total fee received for preparation of this report.

APPENDIX A

Tower Analysis Summary Form

Tower Analysis Summary Form

General Info	
Site Name	BOLTON
Site Number	27665
Site FA	10870936
Date of Analysis	11/21/2008
Company Performing Analysis	GPD Associates

The information contained in this summary report is not to be used independently from the PE stamped tower analysis.

Tower Info	
Tower Type (G, SST, MP)	MP
Tower Height (top of steel AGL)	120
Tower Manufacturer	Perms Summit
Tower Model	7A
Manufacturer Drawings	Paul J Ford Job #: 25293-0231
Foundation Design	Paul J Ford Job #: 25293-0231
Geotech Report	VN Engineers Project #: 23-112
Tower Mapping	N/A
Previous Structural Analysis	GPD Job #: 200806431 Rev. 2
Date	9/26/2008

Design Parameters	
Design Code Used	11A/EIA-222-F
Location of Tower (County, State)	Tolland, Connecticut
Basic Wind Speed (mph)	85 - Fastest
Ice Thickness (in)	0.5
Structure Classification (I, II, III)	
Exposure Category (B, C, D)	
Topographic Category (1 to 5)	

Existing Results (% Maximum Usage)	
Tower	92.1%
Foundation	55.7%
Guy Wire	N/A

Proposed Condition	
Tower	77.7%
Foundation	89.0%
Guy Wire	N/A

Steel Yield Strength (ksi)	
Pole	65
Base Plate	55
Anchor Rods	75

Existing/Reserved

Antenna	Antenna			Mount			Transmission Line					
	Attachment Height (ft)	Quantity	Type	EPA (ft) each	Azimuth	Quantity	Type	Model	EPA (ft) total	Quantity	Size	Attachment Leg/Face
AT&T Mobility	120	3	Panel	4.00			Pipe mounted		shielded	6	1-1/4"	Internal
Verizon Wireless	110	12	Panel	4.72			1 1/2" I.P. Platform		15.70	12	1-5/8"	Internal
Beckel Communications	89	3	Panel	5.42	30, 150, 210		Pipe mounted		shielded	6	1-5/8"	Internal

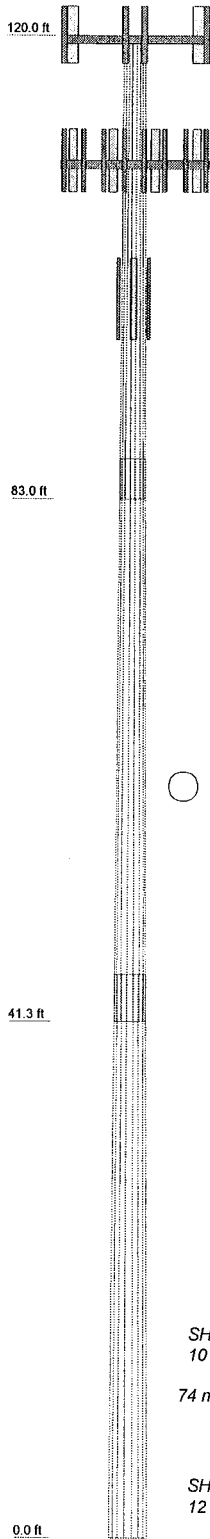
Proposed

Antenna	Antenna			Mount			Transmission Line					
	Attachment Height (ft)	Quantity	Type	EPA (ft) each	Azimuth	Quantity	Type	Model	EPA (ft) total	Quantity	Size	Attachment Leg/Face
AT&T Mobility	120	6	Panel	5.88			1 1/2" I.P. Platform	PIROB	35.28	6	1-1/4"	Internal
AT&T Mobility	120	6	Panel	4.72			on same mount		shielded	6	1-5/8"	Internal
AT&T Mobility	120	6	Diplexer	5.42			on same mount		shielded	6	1-5/8"	Internal

Note: The existing panel antennas at 120' shall be removed prior to the installation of the proposed loading. The existing coax shall be reused for a total of (12) 1-1/4" lines to 120'.

Revision: 1.2
Date: 12/15/06

Section	1	2	3
Length (ft)	37.00	45.00	45.00
Number of Sides	18	18	18
Thickness (in)	0.1875	0.2500	0.3125
Lap Splice (ft)		3.75	3.25
Top Dia (in)	19.0000	23.6883	29.3784
Bot Dia (in)	24.5520	30.4410	36.1300
Grade		A607-65	
Weight (K)	1.6	3.3	4.9



DESIGNED APPURTENANCE LOADING

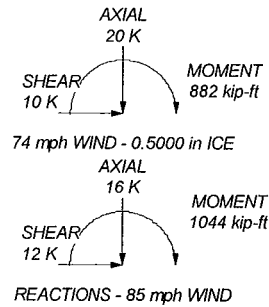
TYPE	ELEVATION	TYPE	ELEVATION
PIROD 13' Low Profile Platform (Monopole)	120	(2) LGP21903 Diplexer	120
(2) 7770.00	120	PIROD 13' Low Profile Platform (Monopole)	110
(2) 7770.00	120	(4) 5' x 8" Panel Antenna	110
(2) 7770.00	120	(4) 5' x 8" Panel Antenna	110
(2) LGP 17201 TMA	120	(4) 5' x 8" Panel Antenna	110
(2) LGP 17201 TMA	120	742-213 w/Mount Pipe	99
(2) LGP 17201 TMA	120	742-213 w/Mount Pipe	99
(2) LGP21903 Diplexer	120	742-213 w/Mount Pipe	99
(2) LGP21903 Diplexer	120		

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A607-65	65 ksi	80 ksi			

TOWER DESIGN NOTES

1. Tower is located in Tolland 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 60 mph wind.
5. TOWER RATING: 77.7%



GPD Associates
 520 South Main Street, Suite 2531
 Akron, OH 44311
 Phone: (330) 572-2152
 FAX: (330) 572-2102

Job: 27066 BOLTON			
Project: 2008013.26			
Client: SAJ	Drawn by: C. Roesink	App'd:	
Code: TIA/EIA-222-F	Date: 11/21/08	Scale: NTS	
Path: G:\Telecom\2008013\26\RISA\27066 Bolton.rvt		Dwg No. E-1	