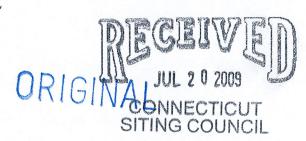


Helen Moore Corporate Counsel - Litigation Direct Line: 210.832.3460 Direct Fax: 210.832.3126 HelenMoore@clearchannel.com

VIA EMAIL & CERTIFIED MAIL

July 15, 2009

Karen Crist, Corporate Counsel T-Mobile 4 Sylvan Way Parsippany, NJ 07054



Re:

Demand for Indemnification Pursuant to the October 25, 2005 Lease Agreement between Capstar Radio Operating Company ("Clear Channel") and Omnipoint Communications (T-Mobile) (the "Lease Agreement")

Dear Ms. Crist:

On October 25, 2005, your company entered into the referenced Lease Agreement. According to the terms of the Lease Agreement, T-Mobile was responsible for obtaining a structural analysis of the condition of the tower at 151 Waterbury Road in Prospect, CT. Your company hired Walker Engineer to perform the analysis. Walker Engineer did not conduct an independent analysis of the tower site, but instead relied on the prior analysis conducted for AT&T. The prior analysis incorrectly asserted that the tower is a solid steel construction when in fact the tower has a hollow leg construction. Based on this incorrect conclusion, your company installed its equipment on our tower. Your equipment overstressed and caused irreparable damage to the tower. Additionally, we recently received the attached Notice from the Connecticut Citing Counsel threatening to condemn our tower due to its overstressed condition.

According to Section 9 of the Lease Agreement T-Mobile is obligated to indemnify us against the negligence of its contractors and for any damage your equipment causes our tower. Our tower must be replaced due to the negligent installation of T-Mobile's equipment. We cannot replace it with an identical tower, because that model no longer meets current industry standards. However, we can replace it with a comparable model with similar features, such as the Electronics Research Monopole proposal. The monopole project has a current market value of \$ 197,580.00. It will cost \$170,650 to purchase this tower, erect it, and reinstall both ATT and T Mobile on the new structure and \$26,930.00 to build a road to enable the installation of this new tower. Our Director of Vertical Real Estate recently forwarded T-Mobile a very generous offer to split the cost of replacing the tower even though we are entitled to seek the entire cost from your company alone. All of

these costs are directly attributable to the negligence of your contractor and the damage your equipment caused our tower. If you refuse to indemnify us against these expenses you will be in breach of your lease agreement and we will exercise our rights under Section 19 of the Lease Agreement

Please forward proof of T-Mobile's general liability insurance to me at the address listed above and notify your carrier of this damage claim.

I look forward to receiving your prompt response to this letter by July 21, 2009.

Nothing contained in this letter shall be deemed a waiver of any other default not specifically referenced above, or a waiver of any right, remedy, or recourse available to Clear Channel, or an election of remedies resulting from the defaults referenced above or any other defaults that may exist with respect to the parties' relationship.

Sincerely,

Helen Moore

Enc.

ec: Gary Hess (w/ Enc.)

del More

Connecticut City Council (w/Enc.)



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: st.gov/csc

May 26, 2009

Lisa R. Humble State Building Inspector 1111 Country Club Road Middletown, CT 06457

Dear Ms. Humble:

I am writing to inform you of an existing, overstressed telecommunications tower located at 151 Waterbury Road in Prospect, Connecticut. The Connecticut Siting Council (Council) is in receipt of a structural analysis (enclosed) that shows that this tower is out of compliance with the Connecticut State Building Code and the ITA/EIA-222-F standard.

The tower to which I refer is a 195 foot guyed lattice tower owned by Clear Channel Communications located at 151 Waterbury Road in prospect, Connecticut. In a letter dated November 14, 2008, addressed to the Town of Prospect Building Official (a copy of which is enclosed for your convenience), Clear Channel acknowledged the need for replacement of the structurally deficient tower. Clear Channel, however, offered no specific timeline for addressing this condition, indicating only that the company was "negotiating plans" to replace, rather than repair, the existing structure. We believe that to date no such action has been taken.

The Siting Council has enforcement powers over telecommunications towers for which the Council granted a certificate of environmental compatibility and public need. Given that the Council did not certificate this tower, there are no established compliance standards for the Council to enforce.

For your information, I am enclosing a structural analysis of the tower that was prepared by URS Corporation in February, 2008, along with related correspondence. I ask that your office seek to enforce the applicable building codes with respect to this tower in order to address this potential threat to public safety.

I would appreciate being kept informed about any actions you may take on this matter. If you have any questions about this material, please feel free to contact me. Thank you.

Walls Johns,

Executive Director

c: Daniel F. Caruso, Chairman Richard Walsh, Clear Channel

G:Wevi6Meraspasi TowarSBlones.co.



October 24, 2005

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

Karina Fournier Zoning Department T-Mobile 100 Filley Street Bloomfield, CT 06002

RE: **TS-T-MOBILE-115-051005** - Omnipoint Communications, Inc. (T-Mobile) request for an order to approve tower sharing at an existing telecommunications facility located at 151 Waterbury Road, Prospect, Connecticut.

Dear Ms. Fournier:

At a public meeting held October 19, 2005, the Connecticut Siting Council (Council) ruled that the shared use of this existing tower site is technically, legally, environmentally, and economically feasible and meets public safety concerns, and therefore, in compliance with General Statutes § 16-50aa, the Council has ordered the shared use of this facility to avoid the unnecessary proliferation of tower structures. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Any additional change to this facility may require an explicit request to this agency pursuant to General Statutes § 16-50aa or notice pursuant to Regulations of Connecticut State Agencies Section 16-50j-73, as applicable. Such request or 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.

This decision applies only to this request for tower sharing and is not applicable to any other request or construction. Please be advised that the validity of this action shall expire one year from the date of this letter.

The proposed shared use is to be implemented as specified in your letter dated October 5, 2005, including the placement of all necessary equipment and shelters within the tower compound.

Thank you for your attention and cooperation.

Very truly yours,

Pamela B. Katz, P.E.

Chairman

PBK/laf

c: The Honorable Robert J. Chatfield, Mayor, Town of Prospect William J. Donovan, Zoning Enforcement Officer, Town of Prospect SFX Broadcasting of Connecticut Christopher B. Fisher, Esq., Cuddy & Feder LLP



100 Filley Street, Bloomfield, CT 06002 860-692-7100 fax 860-692-7159 hkarina@adelphia.net

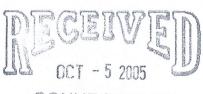
TS-T-MOBILE-115-051005

October 5, 2005

BY HAND

Mar Don't

Pamela B. Katz, Chairman and Members of the Siting Council Connecticut Siting Council Ten Franklin Square New Britain, CT 06051



CONNECTICUT SITING COUNCIL

RE:

Tower Sharing Request by T-Mobile 151 Waterbury Road, Prospect, CT Latitude: 41 31 24/ Longitude: 72 59 57

Dear Ms. Katz and Members of the Siting Council:

Pursuant to Connecticut General Statutes (C.G.S.) § 16-50aa, Omnipoint Communications, Inc. a.k.a. T-Mobile (formerly Voicestream Wireless Corp.) hereby requests an order from the Connecticut Siting Council ("Council") to approve the proposed shared use of an existing communications tower, located at 151 Waterbury Road ("Prospect East Mountain"), in Prospect, owned by SFX Broadcasting of CT. T-Mobile and SFX Broadcasting of CT have agreed to the shared use of the Prospect East Mountain, as detailed below.

Prospect East Mountain

The Prospect East Mountain facility consists of a one hundred ninety five (195) foot high-guyed tower ("Tower") owned and operated by SFX Broadcasting of CT. T-Mobile proposes to locate antennas at a centerline mounting height of one hundred thirty (130) feet. The equipment will be located within the existing leased area at the base of the tower.

~ ORIGINAL ~

Prospect East Mountain

As shown on the enclosed plans prepared by Diversified Technology Consultants, including a site plan and tower elevation of the Prospect East Mountain Facility, annexed hereto as Exhibit 1, T-Mobile proposes a shared use of the Facility by placing antennas on the tower and equipment needed to provide personal communications services ("PCS") within the existing site plan. T-Mobile will install nine (9) antennas at the one hundred thirty (130) foot level of the Tower. Three (3) associated unmanned equipment cabinets will be located at the base of the tower.

Connecticut General Statutes § 16-50aa provides that, upon written request for shared use approval, an order approving such use shall be issued, "if the council finds that the proposed shared use of the facility is technically, legally, environmentally and economically feasible and meets public safety concerns." (C.G.S. § 16-50aa(c)(1).) Further, upon approval of such shared use, it is exclusive and no local zoning or land use approvals are required C.G.S. §16-50x. Shared use of the Prospect East Mountain facility satisfies the approval criteria set forth in C.G.S. § 16-50aa as follows:

- A. <u>Technical Feasibility</u> The existing Tower and compound were designed to accommodate multiple carriers. A structural analysis of the Tower with the proposed T-Mobile installation has been performed and is attached as Exhibit 2. The structural analysis concludes that the tower can safely accommodate the proposed T-Mobile antennas. The proposed shared use of this Tower is technically feasible. There is sufficient room at the base of the facility, T-Mobile will locate their equipment within the existing leased area and then will replace the fence to surround their equipment.
- B. <u>Legal Feasibility</u> Pursuant to C.G.S. § 16-50aa, the Council has been authorized to issue an order approving shared use of the existing Prospect East Mountain facility. (C.G.S. § 16-50aa (C)(1)). Under the authority vested in the Council by C.G.S. § 16-50aa, an order by the Council approving the shared use of a tower would permit the Applicant to obtain a building permit for the proposed installation.
- C. <u>Environmental Feasibility</u> The proposed shared use would have a minimal environmental effect, for the following reasons:

- 1.) The proposed installation would have a de minimis visual impact, and would not cause any significant change or alteration in the physical or environmental characteristics of the existing facility,
- 2.) The proposed installation by T-Mobile would not increase the height of the tower nor expand the existing leased area at the Prospect East Mountain facility and will be of minimal impact to the facility;
- 3.) The proposed installation would not increase the noise levels at the existing facility boundaries by six decibels or more;
- 4.) Operation of T-Mobile's antennas at this site would not exceed the total radio frequency electromagnetic radiation power density level adopted by the FCC and Connecticut Department of Health. The "worst case" exposure calculated for the operation of this facility for all carriers would be approximately 3.3 % of the standard. See Radio Frequency Field Survey dated September 9, 2005, prepared by Farid Marbouh, annexed hereto as Exhibit 3;
- 5.) The proposed shared use of the Prospect East Mountain facility will not require any water or sanitary facilities, or generate any air emissions or discharges to water bodies. Further, the installation will not generate any traffic other than for periodic maintenance visits.
- D. <u>Economic Feasibility</u> The Applicant and the tower owner have agreed to share use of the Prospect East Mountain facility on terms agreeable to both parties. The proposed tower sharing is therefore economically feasible.
- E. Public Safety As stated above and evidenced in the Radio Frequency Field Survey annexed hereto as Exhibit 3, the operation of T-Mobile's antennas at this site would not exceed the total radio frequency electromagnetic radiation power density level adopted by the FCC and Connecticut Department of Health. Further, the addition of T-Mobile's telecommunications service in the Prospect area through shared use of the Prospect East Mountain facility is expected to enhance the safety and welfare of local residents and travelers through the area resulting in an improvement to public safety in this area.

Page 4

Conclusion

As delineated above, the proposed shared use of the Prospect East Mountain facility satisfies the criteria set forth in C.G.S. § 16-50aa, and advances the General Assembly's and the Siting Council's goal of preventing the proliferation of tower in the State of Connecticut. T-Mobile therefore requests the Siting Council issue an order approving the proposed shared use of the Prospect East Mountain facility.

Respectfully submitted,

Karina Fournier Zoning Dept.

T-Mobile

100 Filley St.

Bloomfield, CT 06002

(860) 692-7100

Prospect Mayor, Robert J. Chatfield

Exhibit 1

PROSPECT EAST MOUNTAIN

151 WATERBURY ROAD PROSPECT, CT 06712

SITE NUMBER: CTNH302A

GENERAL NOTES

1) THE CONTRACTOR SHALL GIVE ALL NOTICES & COMPLY W/ ALL LAWS, ORDINANCES, RULES, REGULATIONS & LAWFUL ORDERS of ANY PUBLIC AUTHORITY, MUNICIPAL & UTILITY COMPANY SPECIFICATIONS, & LOCAL & STATE JURISDICTIONAL CODES BEARING on THE PERFORMANCE of THE WORK. THE WORK PERFORMED on THE PROJECT & THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE W/ ALL APPLICABLE CODES, REGULATIONS, &

2) THE ARCHITECT/ENGINEER HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION & CONTRACT DOCUMENTS THE COMPLETE SCOPE of WORK. THE CONTRACTOR BIDDING THE JOB IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OF ERRORS IN THE DRAWNINGS and/or SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT & IMPROVEMENTS IN ACCORDANCE w/ THE INTENT of THESE DOCUMENTS.

3) THE CONTRACTOR OF BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE LESSEE/LICENSEE REPRESENTATIVE OF ANY CONFLICTS, ERRORS, OF OMISSIONS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL OF PERFORMANCE OF WORK, IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL PRICE THE MORE COSTLY OF EXTENSIVE WORK, UNLESS DIRECTED IN WRITING OTHERWISE.

4) THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR & ALL OTHER MATERIALS & LABOR DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT OB DESCRIBED HEREIN.

5) THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE SUBMISSION OF RIDS OF PERFORMING WORK TO FAMILIARIZE HIMSELF W/ THE FIELD CONDITIONS & TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE W/ THE CONTRACT DOCUMENTS.

6) THE CONTRACTOR SHALL OBTAIN AUTHORIZATION TO PROCEED W/ CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT DOCUMENTS.

7) THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT & MATERIALS ACCORDING TO THE MANUFACTURER'S/VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE or WHERE LOCAL CODES OF ORDINANCES TAKE PRECEDENCE.

8) THE CONTRACTOR SHALL PROVIDE A FULL SET of CONSTRUCTION DOCUMENTS AT THE SITE UPDATED w/ THE LATEST REVISIONS & ADDENDUM'S or CLARIFICATIONS AVAILABLE FOR THE USE BY ALL PERSONNEL INVOLVED W/ THE PROJECT.

9) THE CONTRACTOR SHALL SUPERVISE & DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALC CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES & PROCEDURES & FOR COORDINATING ALL PORTIONS of THE WORK UNDER THE CONTRACT.

10) THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY CONSTRUCTION CONTROL SURVEYS & ESTABLISHING & MAINTAINING ALL LINES & GRADES REQ'D TO CONSTRUCT ALL IMPROVEMENTS as SHOWN HEREIN.

11) THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS & INSPECTIONS WHICH MAY BE REQ'D FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY or LOCAL GOVERNMENT AUTHORITY.

12) THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, ETC. DURING CONSTRUCTION. UPON COMPLETION of WORK, THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION on or ABOUT THE PROPERTY.

13) THE CONTRACTOR SHALL KEEP THE GENERAL WORK AREA CLEAN & HAZARD FREE DURING CONSTRUCTION & DISPOSE of ALL DIRT, DEBRIS, RUBBISH & REMOVE EQUIPMENT NOT SPECIFIED as REMAINING on THE PROPERTY. PREMISES SHALL BE LEFT IN CLEAN CONDITION & FREE FROM PAINT SPOTS, DUST, or SMUDGES of ANY NATURE.

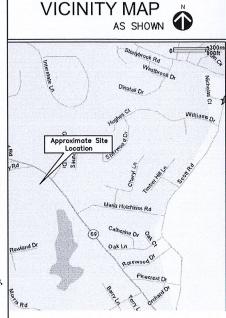
14) THE CONTRACTOR SHALL COMPLY W/ ALL OSHA REQUIREMENTS as THEY APPLY TO THIS PROJECT.

15) THE CONTRACTOR SHALL NOTIFY THE LESSEE/LICENSEE REPRESENTATIVE WHERE A CONFLICT OCCURS on ANY of THE CONTRACT DOCUMENTS. THE CONTRACTOR IS NOT TO ORDER MATERIAL OF CONSTRUCT ANY PORTION of THE WORK THAT IS IN CONFLICT UNTIL CONFLICT IS RESOLVED BY THE LESSEE/LICENSEE REPRESENTATIVE.

16) THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. on THE JOB.

17) ALL UNDERGROUND UTILITY INFORMATION WAS DETERMINED FROM SURFACE INVESTIGATIONS & EXISTING PLANS OF RECORD. THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO ANY SITE WORK. CALL THE FOLLOWING FOR ALL PRE-CONSTRUCTION NOTIFICATION 72hr PRIOR TO ANY EXCAVATION ACTIVITY. DIG SAFE SYSTEM (MA, ME, NH, RI, VT): 1-888-344-7233 CALL BEFORE YOU DIG (CT): 1-800-922-4455

18) PER FCC MANDATE, ENHANCED EMERGENCY (E911) SERVICE IS REQUIRED TO MEET NATIONWIDE STANDARDS FOR WIRELESS COMMUNICATIONS SYSTEMS. LESSEE/LICENSEE IMPLEMENTATION REQUIRES DEPLOYMENT OF EQUIPMENT AND ANTENNAS GENERALLY DEPICTED ON THIS PLAN, ATTACHED TO OR MOUNTED IN CLOSE PROXIMITY TO THE BTS RADIO CABINETS. LESSEE/LECENSEE RESERVES THE RIGHT TO MAKE REASONABLE MODIFICATIONS TO E911 EQUIPMENT AND LOCATION AS MODIFICATIONS TO E911 EQUIPMENT AND LOCATION AS MODIFICATIONS TO E911 EQUIPMENT AND LOCATION AS MODIFICATIONS.



SHT. NO.	DESCRIPTION	REV NO.
T-1	TITLE SHEET & INDEX	1
A-1	PLANS, ELEVATIONS, DETAILS AND NOTES	1
S-1	EQUIPMENT ELEVATIONS, STRUCTURAL NOTES & DETAILS	1
E-1	ELECTRICAL PLANS, DETAILS AND NOTES	1

	PRO	JECT SUMMARY
REV. NO.	SITE NUMBER:	CTNH302A
1	SITE NAME:	PROSPECT EAST MOUNTAIN
1	SITE ADDRESS:	151 WATERBURY ROAD PROSPECT, CT 06712
1	ASSESSOR'S PARCEL NO.: CONSTRUCTION TYPE:	MAP: 104, BLK: N/A, LOT: 151 CO-LOCATION
1	PROPERTY OWNER:	SFX BROADCASTING OF CT 10 COLUMBUS BLVD HARTFORD, CT 06106
	STRUCTURE OWNER:	SFX BROADCASTING OF CT 10 COLUMBUS BLVD HARTFORD, CT 06106
	APPLICANT:	OMNIPOINT COMMUNICATIONS, INC. 100 FILLEY STREET BLOOMFIELD, CT 06002

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OMNIPOINT COMMUNICATIONS,



APPROVALS

PROJECT NO: 05-151-160

DRAWN BY: DEB

SUBMITTALS

CTNH302A PROSPECT EAST MOUNTAIN 151 WATERBURY ROAD PROSPECT, CT 06712

SHEET TITLE

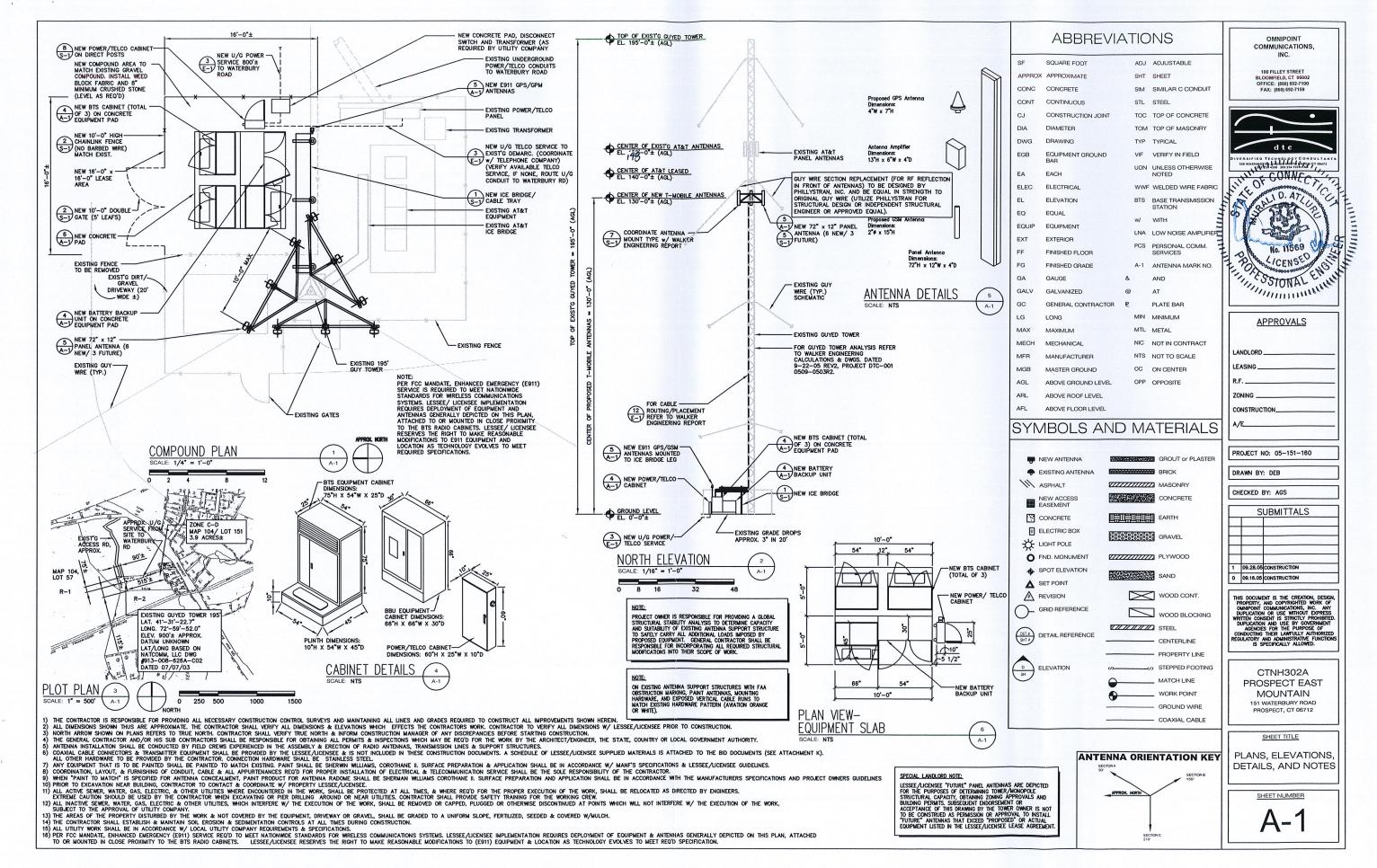
TITLE SHEET AND INDEX

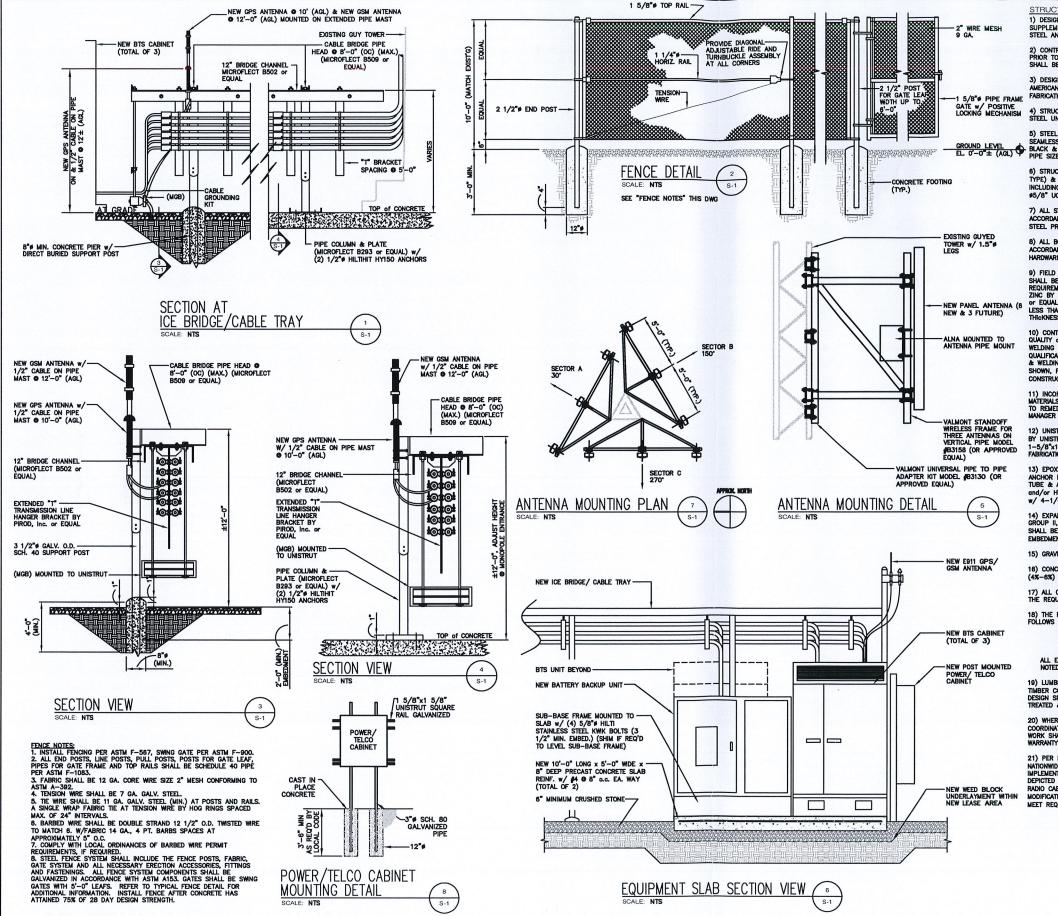
SHEET NUMBER

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DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE LESSEE/LICENSEE REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.





1) DESIGN REQUIREMENTS ARE PER STATE BUILDING CODE & APPLICABLE SUPPLEMENTS, ANSI/ASCE7, EIA/TIA-222-F STRUCTURAL STANDARDS FOR STEEL ANTENNA SUPPORTING STRUCTURES.

2) CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS IN THE FIELD PRIOR TO FABRICATION & ERECTION of ANY MATERIAL ANY UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ATTENTION of THE CONSTRUCTION MANAGER.

3) DESIGN & CONSTRUCTION of STRUCTURAL STEEL SHALL CONFORM TO THE AMERICAN INSTITUTE of STEEL CONSTRUCTION "SPECIFICATION FOR THE DESIGN, FABRICATION & ERECTION of STRUCTURAL STEEL FOR BUILDINGS".

4) STRUCTURAL & MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A36 STRUCT. STEEL UNLESS OTHERWISE INDICATED.

5) STEEL PIPE SHALL CONFORM TO ASTM ASOO "COLD-FORMED WELDED & SEAMLESS CARBON STEEL STRUCTURAL TUBING", GRADE A, or ASTM AS3 PIPE STEEL EL 0'-0"± (AGL)

BLACK & HOT-DIPPED ZINC-COATED WELDED & SEAMLESS TYPE E or S, GRADE B. PIPE SIZES INDICATED ARE NOMINAL ACTUAL OUTSIDE DIAMETER IS LARGER.

6) STRUCTURAL CONNECTION BOLTS SHALL BE HIGH STRENGTH BOLTS (BEARING TYPE) & CONFORM TO ASTM A325 "HIGH STRENGTH BOLTS FOR STRUCTURAL JOINTS, INCLUDING SUITABLE NUTS & PLAIN HARDENED WASHERS". ALL BOLTS SHALL BE

7) ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE w/ ASTM A123 "ZINC (HOT-DIP GALVANIZED COATINGS on IRON & STEEL PRODUCTS", UNLESS OTHERWISE NOTED.

8) ALL BOLTS, ANCHORS & MISCELLANEOUS HARDWARE SHALL BE GALV. IN ACCORDANCE w/ ASTM A153 "ZINC-COATING (HOT-DIP) on IRON & STEEL HARDWARE", UNLESS OTHERWISE NOTED.

9) FIELD WELDS, DRILL HOLES, SAW CUTS & ALL DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED w/ AN ORGANIC ZINC REPAIR PAINT COMPLYING w/ REQUIREMENTS OF ASTM A780. GALVANIZING REPAIR PAINT SHALL HAVE 65 PERCENT ZINC BY WEIGHT, ZIRP Y DUNCAN GALVANIZING, GALVA BRIGHT PREMIDIM BY CROWN OF EQUAL THICKNESS OF APPLIED GALVANIZING REPAIR PAINT SHALL BE NOT NOT LESS THAN 4 COATS (ALLOW DRY TIME BETWEEN COATS) w/A RESULTING COATING THICKNESS REQUIRED BY ASTM A123 or A153 as APPLICABLE.

10) CONTRACTOR SHALL COMPLY w/ AWS CODE FOR PROCEDURES, APPEARANCE & QUALITY of WELDS, & FOR METHODS USED IN CORRECTING WELDING, ALL WELDERS & WELDING PROCESSES SHALL BE QUALIFIED IN ACCORDANCE w/ AWS "STANDARD QUALIFICATION PROCEDURES", ALL WELDING SHALL BE DONE USING ETOXX ELECTRODES & WELDING SHALL CONFORM TO AISC X DI.I. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL of STEEL

11) INCORRECTLY FABRICATED, DAMAGED or OTHERWISE MISETTIING or NONCONFORMING MATERIALS OF CONDITIONS SHALL BE REPORTED TO THE CONSTRUCTION MANAGER PRIOR TO REMEDIAL OF CORRECTIVE ACTION, ANY SUCH ACTION SHALL REQUIRE CONSTRUCTION MANAGED.

12) UNISTRUTS SHALL BE FORMED STEEL CHANNEL STRUT FRAMING OF MANUFACTURED BY UNISTRUT CORP, WAYNE, MI OR EQUAL STRUT MEMBERS SHALL BE 1-5/8"x 1-5/8"x12GA, UNLESS OTHERWISE NOTED, & SHALL BE HOT-DIP GALVANIZED AFTER FRAN

13) EPOXY ANCHOR ASSEMBLY SHALL CONSIST of $1/2^{\circ}$ DIAMETER STAINLESS STEEL ANCHOR ROD ω / NUTS & WASHERS. AN INTERNALLY THERADED INSERT, A SCREEN TUBE & A EPOXY ADHEBUT. THE ANCHORING SYSTEM SHALL BE THE HILT-HIT HY-20

14) EXPANSION BOLTS SHALL CONFORM TO FEDERAL SPECIFICATION FF-S-325, GROUP II, TYPE 4, CLASS I, HILTI KWIK BOLT II or APPROVED EQUAL. INSTALLATION SHALL BE IN ACCORDANCE W/ THE MANUFACTURES'S RECOMMENDATIONS. MINIMUM EMBEDMENT SHALL BE THREE & ONE HALF (3 1/2) INCHES.

15) GRAVEL SUB BASE & CONCRETE SHALL BE PLACED AGAINST UNDISTURBED SOIL.

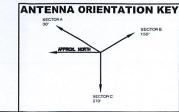
16) CONCRETE FOR FENCE & ICE BRIDGE SUPPORT SHALL BE 3000 PSI AIR ENTRAINED (4%-6%) NORMAL WEIGHT CONCRETE.

17) ALL CAST IN PLACE CONCRETE SHALL BE MIXED & PLACED IN ACCORDANCE $\mbox{w/}$ THE REQUIREMENTS OF ACI 318 & ACI 301.

19) LUMBER SHALL COMPLY w/ THE REQUIREMENTS of THE AMERICAN INSTITUTE of TIMBER CONSTRUCTION & THE NATIONAL FOREST PRODUCTS ASSOCIATION'S NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION. ALL LUMBER SHALL BE PRESSURE TREATED & SHALL BE STRUCTURAL GRADE NO. 2 OR BETTER.

20) WHERE ROOF PENETRATIONS ARE REQ'D, THE CONTRACTOR SHALL CONTACT & COORDINATE RELATED WORK w/ THE BUILDING OWNER & THE EXISTING ROOF INSTALLER. WORK SHALL BE PERFORMED IN SUCH A MANNER OF TO NOT VOID THE EXISTING ROOF

21) PER FCC MANDATE, ENHANCED EMERGENCY (E911) SERVICE REQ'D TO MEET NATION/MIDE STANDARDS FOR WIRELESS COMMUNICATIONS SYSTEMS. LESSEE/LICENSEE IMPLEMENTATION REQUIRES DEPLOYMENT of EQUIPMENT & ANTENNAS GENERALLY DEPICTED on THIS PLAN, ATTACHED TO OF MOUNTED IN CLOSE PROXIMITY TO THE BTS RADIO CABINITS. LESSEE/LICENSEE RESERVES THE RIGHT TO MAKE REASONABLE MODIFICATIONS TO (E911) EQUIPMENT & LOCATION ON TECHNOLOGY EVOLVES TO MEET REQ'D SPECIFICATION



OMNIPOINT COMMUNICATIONS.

100 FILLEY STREET BLOOMFIELD, CT 06002 OFFICE: (860) 692-7100 FAX: (860) 692-7159





THE TOTAL	1666
APPROVALS	
ANDLORD	
EASING	
R.F	
ZONING	
CONSTRUCTION	
A/E	

CHECKED BY: AGS			
SUBMITTALS			
SUBMITTALS			

1 09.28.05 CONSTRUCTION

0 09.16.05 CONSTRUCTION

PROJECT NO: 05-151-160

THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY, AND COPPRIGHTED WORK OF OMMEROHT COMMUNICATIONS, NC. ANY DUPLICATION OR USE WINDUT EXPRESS WISTID CONSENT IS STRICTLY PROHIBITED. DIPPLICATION AND USE PROPERTY OF CONSULTING THEIR LAWFULLY AUTHORIZED CONSULTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTION IS SPECIFICALLY ALLOWED.

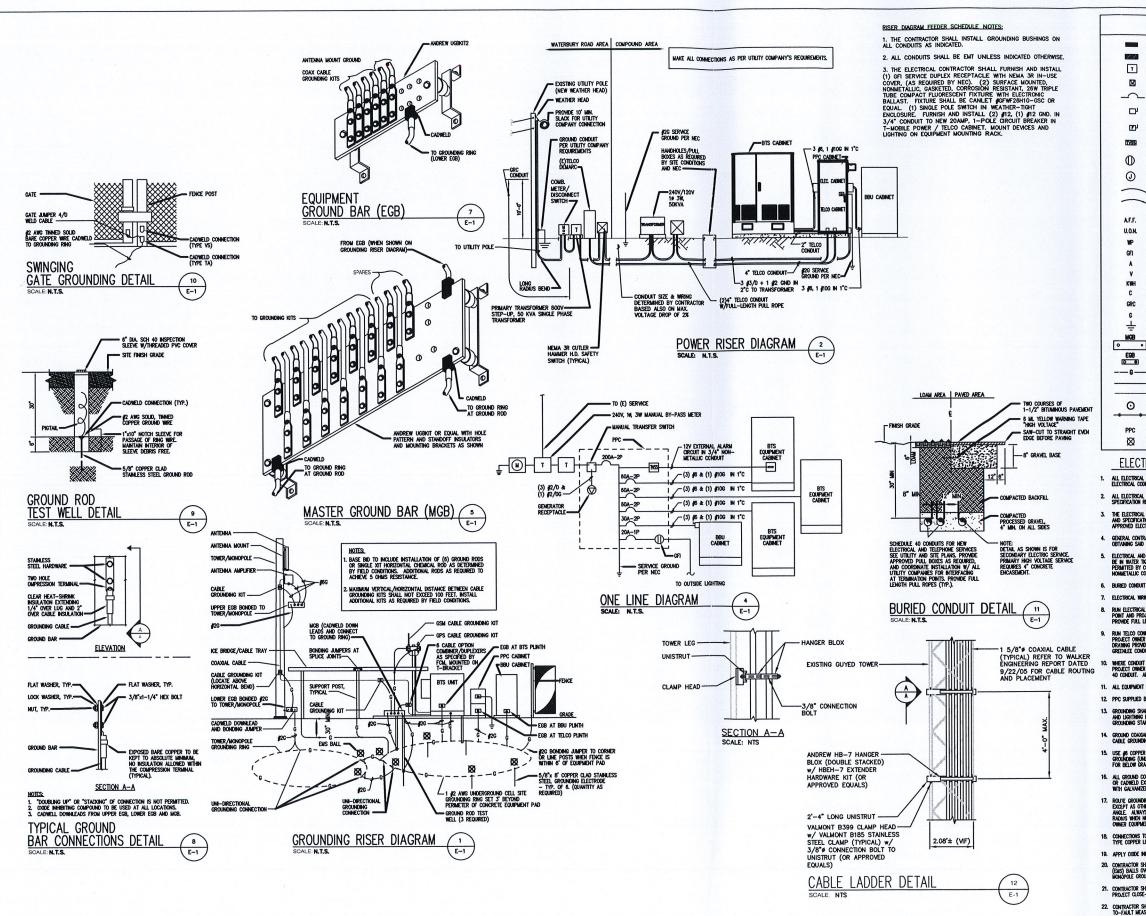
CTNH302A PROSPECT EAST MOUNTAIN

151 WATERBURY ROAD PROSPECT, CT 06712

EQUIPMENT ELEVATIONS, STRUCTURAL NOTES AND DETAILS

SHEET NUMBER

S-'



ELECTRICAL LEGEND

NEW PANEL BOARD, SURFACE MOUNTED FXISTING PANEL BOARD, SURFACE MOUNTED

METER CIRCUIT BREAKER

NON-FUSIBLE DISCONNECT SWITCH, MOUNTED 54" A.F.F. FUSIBLE DISCONNECT SWITCH, MOUNTED 54"A.F.F.

JUNCTION BOX, SURFACE MOUNTED 18" A.F.F.

HOME RUNS, MINIMUM 2410 + 14100 in 3/4° conduit u.o.n.

GROUND FAULT INTERRUPTER

ABOVE FINISHED FLOOR U.O.N. UNLESS OTHERWISE NOTED WEATHERPROO

VOLT KILOWATT - HOUR

MASTER GROUND BAR • CADWELD CONNECTION OMECHANICAL CONNECTION EQUIPMENT GROUND BAR • MECHANICAL CONNECTION
• CADWELD CONNECTION

GROUND COPPER WIRE, SIZE AS NOTED EXPOSED WIRING

COAXIAL CABLE 0 5/8'x8' COPPER CLAD STAINLESS STEEL GROUND ROD POWER PROTECTION CABINET

OMNI-DIRECTIONAL ELECTRONIC MARKER SYSTEM (EMS) BALL

ELECTRICAL AND GROUNDING NOTES ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.

2. ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER

GENERAL CONTRACTOR SHALL PAY FEES FOR PERMITS, AND IS RESPONSIBLE FOR OBTAINING SAID PERMITS AND COORDINATION OF INSPECTIONS.

7. ELECTRICAL WIRING SHALL BE COPPER WITH TYPE XHIW, THINN, OR THININSULATION

RUN TELCO COMOUT OR CABLE BETWEEN TELEPHONE UTLITY DEMARCATION POINT AND PROJECT OWNER CELL SITE TELCO CABNET AND BTS CARNET AS NOICATED ON THIS DRAWNING PROVIDE TALL LEIGHT PILL FORE IN RISTALLED TELCO COMOUT. PROVIDE GREITMEE COMOUT MEASURING TAPE AT EACH END.

WHERE CONDUIT BETWEEN BTS AND PROJECT OWNER CELL SITE PPC AND BETWEEN BTS AN PROJECT OWNER CELL SITE TELCO SERVICE CABINET ARE UNDERGROUND USE PVC, SCHEDUL 40 CONDUIT. ABOVE THE GROUND PORTION OF THESE CONDUITS SHALL BE PVC CONDUIT.

11. ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE NEWA 3R ENCLOSURE

GROUNDING SHALL COMPLY WITH NEC ART. 250. ADDITIONALLY, GROUNDING, BONDING AND LIGHTHING PROTECTION SHALL BE DONE IN ACCORDANCE WITH "T-MOBILE BTS SITE AND LIGHTHING PROTECTION."

GROUND COASIAL CABLE SHELDS MINIMUM AT BOTH DIDS USING MANUFACTURERS COAX CABLE GROUNDING KITS SUPPLIED BY PROJECT OWNER.

16. ALL GROUND CONNECTIONS TO BE BURNDY HYGROUND COMPRESSION TYPE CONNECTIONS OR CADNEID EXOTREPIAIC WILLD. DO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT WITH GALVANIZED STEEL.

17. ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSELE, EXCEPT AS OTHERWISE BROCKATED, GROWNING LEAKS SHAULD NEVER BE BENT AT ROHT AMBE, ALWAYS MAKE AT LEAST 12" PAULUS BROCKS, BY MEC AND E BENT AT 6" RAIGES WERN RICESSAY!. BOND ANY LETAL OBJECTS WITHIN 6 TEET OF PROJECT OWINER EQUIPMENT OR CAMBET TO MISTER GROWN BRY OR GROWNING BING.

19. APPLY 0X0E INHEITING COMPOUND TO ALL COMPRESSION TYPE GROUND CONNECTIONS.

CONTRACTOR SHALL CONDUCT ANTENNA, COAX, AND LINA RETURN—LOSS AND DISTANCE— TO—FAULT MEASUREMENTS (SWEEP TESTS) AND RECORD RESULTS FOR PROJECT CLOSE OU

COMMUNICATIONS,

100 FILLEY STREET BLOOMFIELD, CT 06002 OFFICE: (860) 692-7100 FAX: (860) 692-7159





<u>APPROVALS</u>	
LANDLORD	
LEASING	_
R.F	_
ZONING	_
CONSTRUCTION	_
A/E	_

PROJECT NO: 05-151-160

DRAWN BY: DEB

CHECKED BY: AGS

	S	UBMITTALS
1	09 28 05	CONSTRUCTION
0		CONSTRUCTION

CTNH302A PROSPECT EAST MOUNTAIN 151 WATERBURY ROAD PROSPECT, CT 06712

SHEET TITLE **ELECTRICAL** PLANS, DETAILS, AND NOTES

SHEET NUMBER

L-′

Exhibit 2

WALKER ENGINEERING, INC.

8451 DUNWOODY PLACE NORTHRIDGE 400, BLDG. 8 DUNWOODY, GA 30350

(770) 641-7306 FAX (770) 587-2196

CIVIL • STRUCTURAL N 33° 59' 13.6" W 84° 20' 26.8"

Mr. Dan Bolan

09/22/05

Diversified Technology Consultants

556 Washington Avenue North Haven, CT 06473

Site: Prospect

Sub: Structural Analysis of 195-ft Guy Tower

151 Waterbury Drive, Prospect, CT 06712

Dear Mr. Bolan:

Walker Engineering has performed a Level-Two finite element, $P-\Delta$ structural analysis of the above noted tower in accordance with your Authorization for Services for the addition of the **T-Mobile proposed** antennas outlined below. This analysis consists of determining the forces on the tower caused by existing, proposed, and reserved loads. The existing, proposed, and reserved loads were provided by your office.

The subject tower is a 195-ft, three face, guyed-tower, designed and manufactured by Stainless, Inc in 1972. The complete tower manufacturer's drawings are unavailable. The tower data was obtained from a portion of the original Stainless design, Report No.: 2349-1, dated 05/09/73, a climbing report by CSB Communications, Site Name: Prospect CT, Site No.: CT-626, dated 06/04/02, and a previous reinforcement design by Walker Engineering Inc., Job No. 0206-225, Drawing No. S-1, S-2, and S-3, dated 09/05/02. The tower geometry and member sizes were obtained from these data and are assumed to be accurate. The tower has also been assumed to be in good condition and capable of supporting its original full design capacity.

Our analysis was performed in accordance with TIA/EIA-222-F for an 85 mph¹ base windload, and ASCE-7 windload with ³/₄" radial ice, as specified by Diversified Technology Consultants.

Existing, reserved, and proposed loads include the following:

at 148 ft AT&T: Three Allgon 7250.03 panel antennas on three flush mounts, fed by six 1-1/4" coax cables.

The minimum windspeed specified by EIA-222-F for New Haven County, CT is 85 mph.

at 140 ft AT&T: Three Allgon 7250.03 panel antennas on three flush mounts, fed by six 1-1/4" coax cables

at 137 ft Torque arm assembly.

at 130 ft T-Mobile (Proposed): Nine EMS DR65-19-XXDPQ panel antennas on three T-Frame Sector mounts, fed by eighteen 1-5/8"∅ coax cables.

at 83 ft Existing: One dipole (broken) antenna fed by one 1/2"Ø coax cable.

Note: The analysis assumes that the coax cables (existing, reserved, and proposed) are installed on the tower per the Cable Plan Drawing E-7, Walker Engineering Job No. 0509-503, dated 09/22/05. Additional waveguide ladders may be required. Please notify the undersigned prior to altering the cable routing configuration or if the coax configuration is different than the following chart. Placement of small cables for beacons, ground rods, etc. are not critical.

	Existing:	Proposed/Reserved:
Face A:	2ea 7/8"∅ to 92' 1ea 1/2"∅ to 83'	None
Face B:	6ea 1-1/4"∅ to 148' (AT&T)	10ea <u>1-5/8</u> "∅ to 130' (<i>T-Mobile</i>) (<i>Install on two layers per drawing E-7</i>)
Face C:	1ea 1-5/8"∅ to 159' 6ea 1-1/4"∅ to 140' _(AT&T)	8ea $1-5/8$ " \varnothing to 130' (T-Mobile) (Install on two layers per drawing E-7)

Tower Summary:

This analysis shows that the subject tower <u>is adequate</u> to support the existing, reserved, and proposed loads.

A copy of the analysis is enclosed. A summary of the controlling load cases is provided below:

Guy <u>Elev.</u>	Guy <u>Size</u>	Allowable <u>Load</u>	Existing/ Proposed	% of <u>Allowable</u>
at 187-ft	5/16" ∅	5.60 k	3.06 k	55 %
at 137-ft	5/16 ″∅	5.60 k	5.11 k	91 %
at 87-ft	5/16 "∅	5.60 k	5.62 k	100 %
at 37-ft	5/16"∅	5.60 k	2.91 k	52 %

Tower Element	Elevation	<u>CSI</u> ²
Tower Legs	0-ft to 195-ft	0.86
Diagonal Bracing	0-ft to 195-ft	0.70
Horizontal Bracing	0-ft to 195-ft	0.14

Foundation Summary:

The original foundation design drawings and loads are unavailable. Walker Engineering, Inc. had performed a foundation evaluation according to foundation mapping by CSB Communications, Site Name: Prospect CT, Site No.: CT-626, dated 06/04/02, Walker Engineering's guy anchor design, Walker Job No.: 0206-225, Drawing No.: S-2, dated 09/05/02, and the Geotechnical soils report by Criscuolo Shepard Associates, PC, CSA File No. 2002.906, dated: 08/13/02. The results indicate that the existing tower mast foundation and guy anchor foundations are adequate to support the existing, future, and proposed loads.

Foundation <u>Loads</u>	Orig. Design ³ <u>Reactions</u>	Existing/ Proposed	% of <u>Reactions</u>
Mast (vert.)	48.0 k	40 k	83 %
Existing Guy Anchor (vert)	18.1 k	13 k	72 %
Radius at 135-ft (horiz)	18.9 k	16 k	85 %

As future loads are installed, the tower should be re-evaluated on a case-by-case basis.

The analysis is based, in part, on information provided to this office by Diversified Technology Consultants. If the existing conditions are different than the information in this report, Walker Engineering should be contacted for resolution of any issues.

Walker Engineering appreciates the opportunity to be of service in this matter. Please do not hesitate to give me a call if you have any questions or comments.

Verytruly yours,

Verytruly yours,

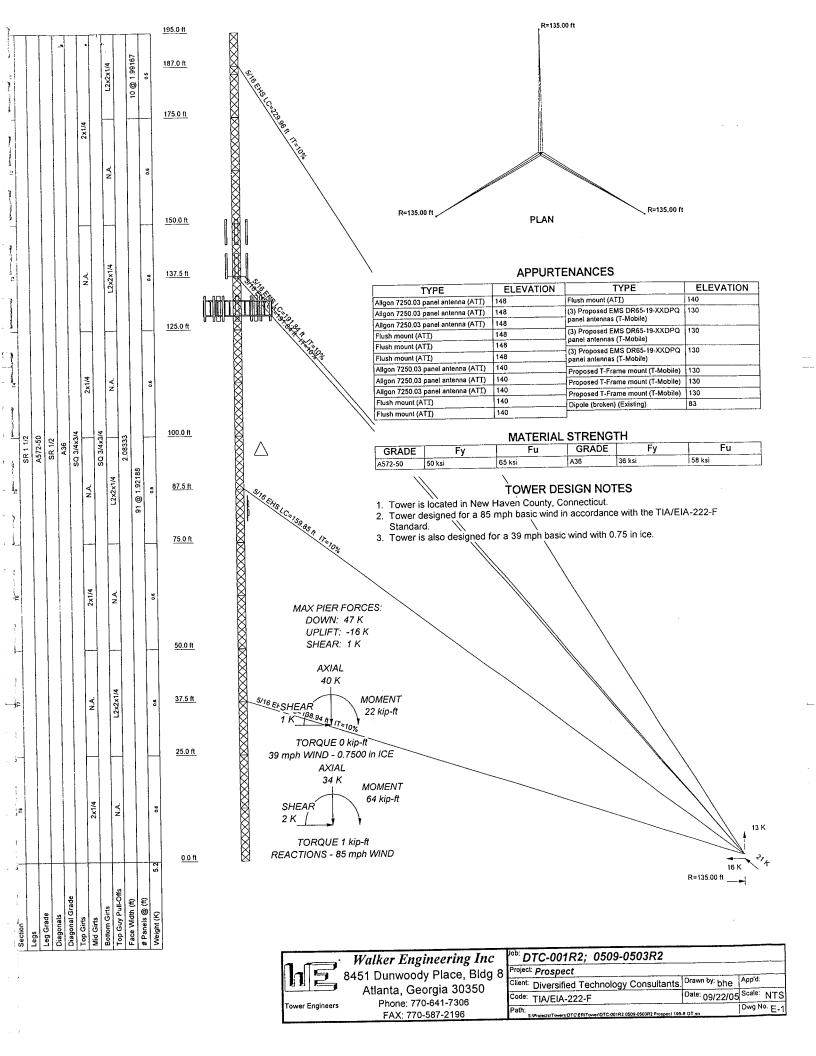
Crist Jim Walker, P.E.

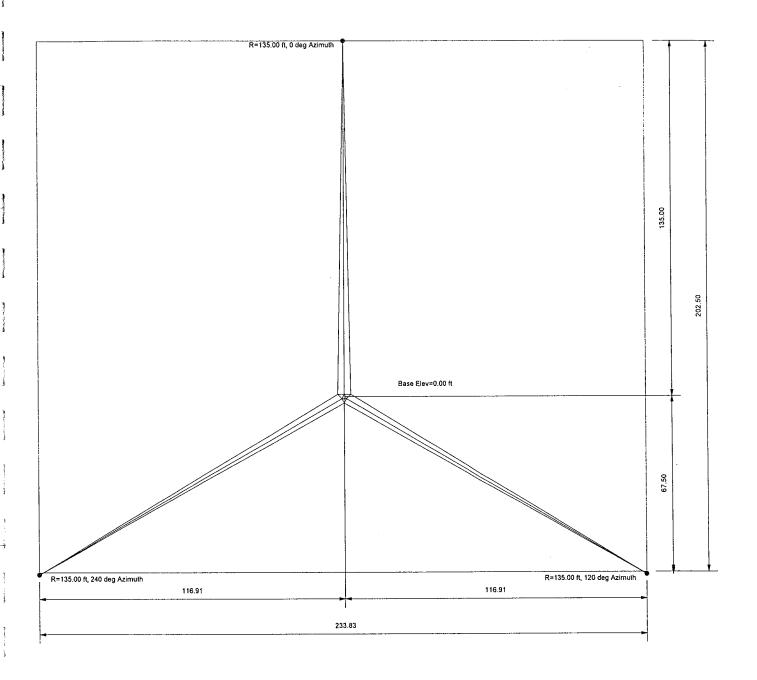
22 Sep. 2005

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² "Combined Stress Index" Ratio of calculated loads verses total allowable loads; should be less than, or equal to, 1.00.

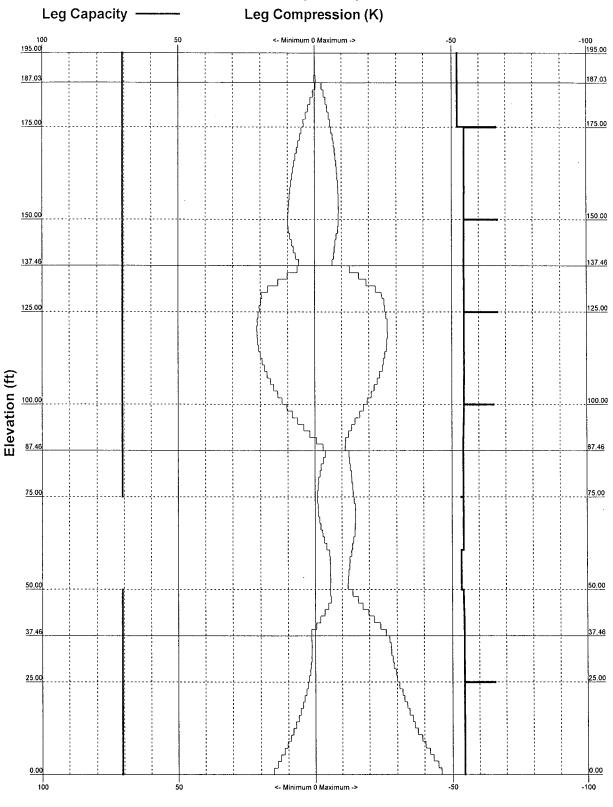
³ Foundation reactions from new guy anchor foundation by Walker Engineering, Drawing S-2, Job No. 0206-225, dated 09/05/02. Geotechnical soils report by Criscuolo Shepard Associates, PC, CSA File No. 2002.906, dated: 08/13/02.

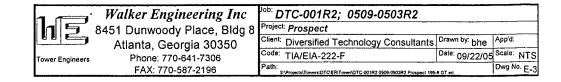




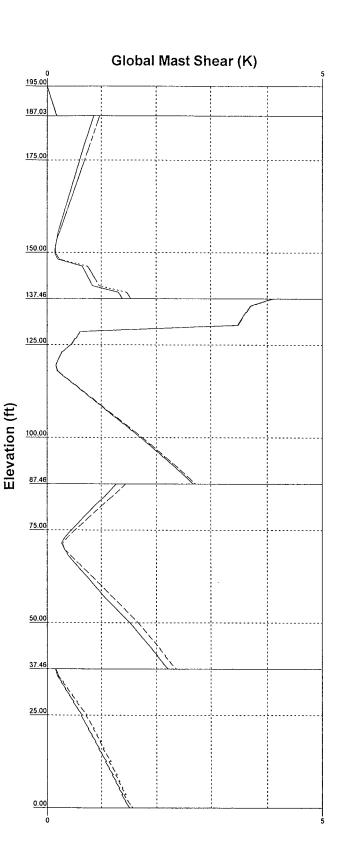
a a a	Walker Engineering Inc	Job: D	TC-001R2; 0509-0503R2	-	
1115	8451 Dunwoody Place, Bldg 8	Project	Prospect		
	Atlanta, Georgia 30350	Client:	Diversified Technology Consultants.	one one	App'd:
Tower Engineers	Phone: 770-641-7306	Code:	TIA/EIA-222-F	09/22/05	
Tonior Engineers	FAX: 770-587-2196	Path: s	Projects/Towers/DTC/ERITower/DTC-001R2 0509-0503R2 Prospect 195	ft GT est	Dwg No. E-2

TIA/EIA-222-F - 85 mph/39 mph 0.7500 in Ice

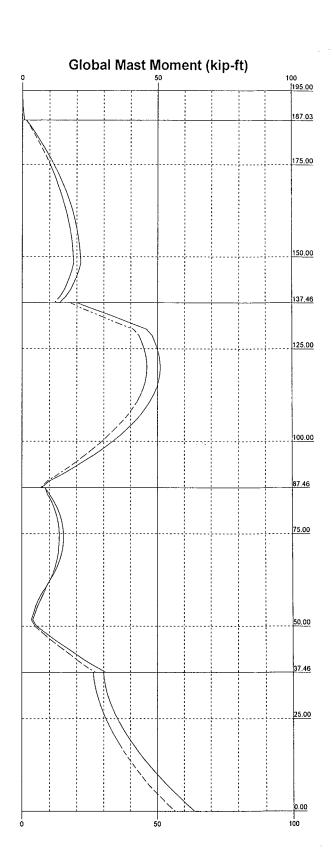




----- Mx ------ Mz



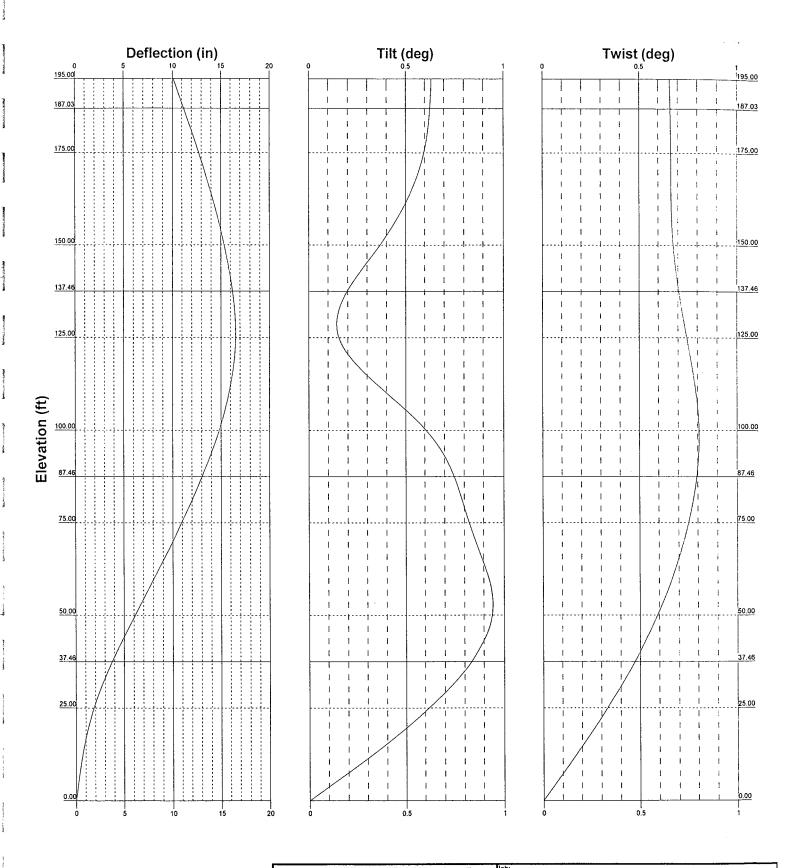
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Walker Engineering Inc 8451 Dunwoody Place, Bldg 8 Atlanta, Georgia 30350 Phone: 770-641-7306 FAX: 770-587-2196

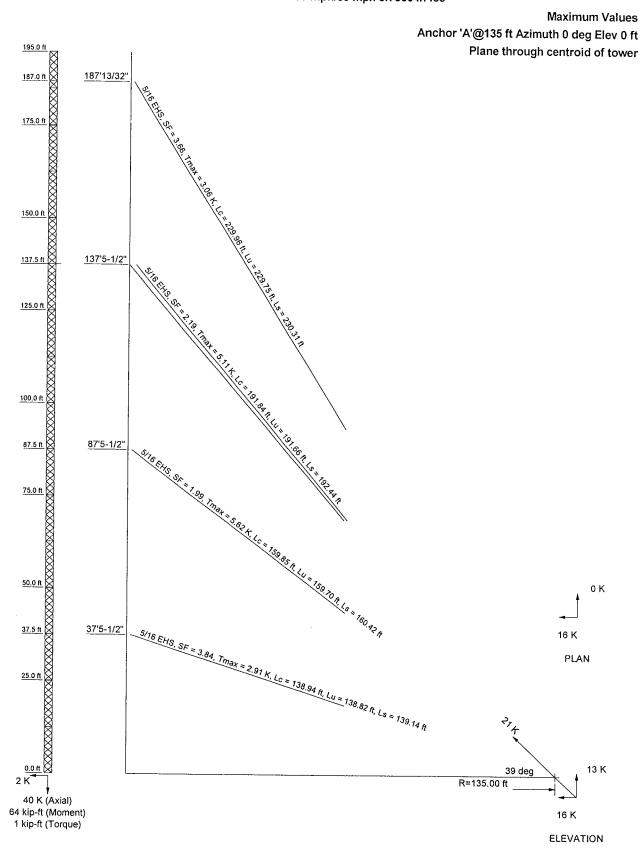
^{Job:} DTC-001R2; 0509-0503R2		
Project: Prospect		
Client: Diversified Technology Consultants.	Drawn by: bhe	App'd:
	Date: 09/22/05	Scale: NTS
Path: 5:Projects\Towers\DTC\ERITower\DTC-001R2 0509-0503R2 Prospect 195	ft GT.eri	Dwg No. E-4

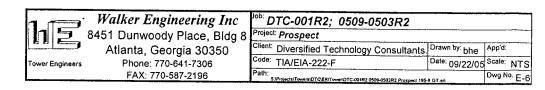


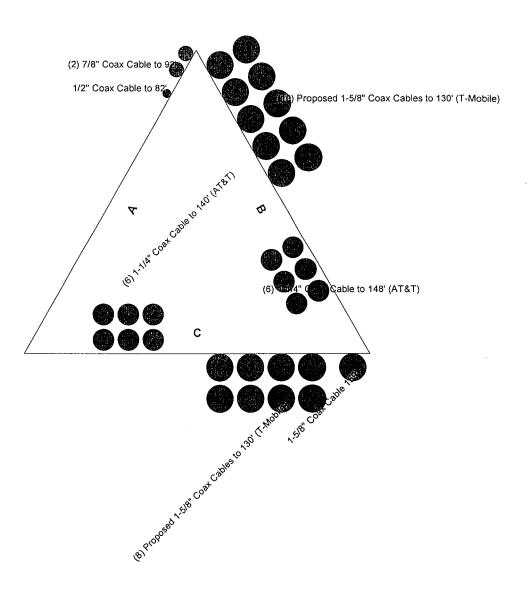
Walker Engineering Inc DTC-001R2; 0509-0503R2 Project: Prospect 8451 Dunwoody Place, Bldg 8 Client: Diversified Technology Consultants. Drawn by: bhe App'd: Atlanta, Georgia 30350 Code: TIA/EIA-222-F Date: 09/22/05 Scale: NTS Phone: 770-641-7306 Tower Engineers Path: FAX: 770-587-2196

Dwg No. E-5

Guy Tensions and Tower Reactions TIA/EIA-222-F - 85 mph/39 mph 0.7500 in Ice



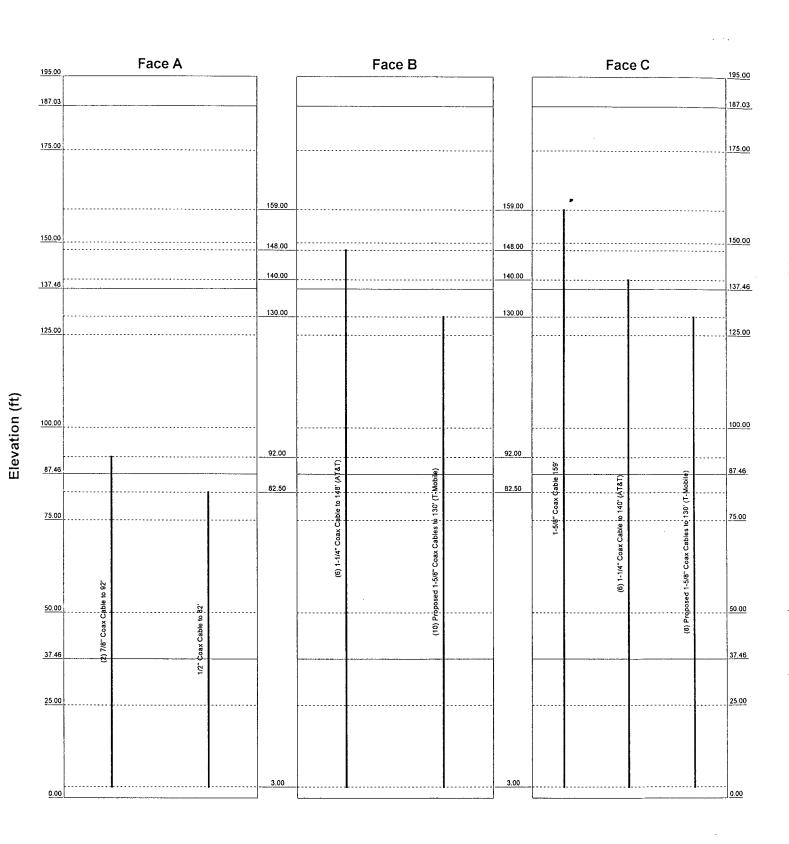




			TC-001R2; 0509-0503R2		
			Prospect		
	Atlanta, Georgia 30350	Client:	Diversified Technology Consultants.	Drawn by: bhe	App'd:
Tower Engineers	Phone: 770-641-7306	Code:	TIA/EIA-222-F	Date: 09/22/05	Scale: NTS
	FAX: 770-587-2196	Path:	Projects\Towers\DTC\ERITower\DTC-001R2 0509-0503R2 Prospect 195	A GT.eri	Dwg No. E-7

Feedline Distribution Chart 0' - 195'

Round Flat App In Face App Out Face Truss L





Walker Engineering Inc 8451 Dunwoody Place, Bldg 8 Atlanta, Georgia 30350

Allania, Georgia 30330 Phone: 770-641-7306 FAX: 770-587-2196

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Client		Designed by
	Diversified Technology Consultants.	bhe

Tower Input Data

The main tower is a 3x guyed tower with an overall height of 195.00 ft above the ground line.

The base of the tower is set at an elevation of 0.00 ft above the ground line.

The face width of the tower is 2.08 ft at the top and 2.08 ft at the base.

This tower is designed using the TIA/EIA-222-F standard.

The following design criteria apply:

Tower is located in New Haven County, Connecticut.

Basic wind speed of 85 mph.

Nominal ice thickness of 0.7500 in.

Ice density of 56 pcf.

A wind speed of 39 mph is used in combination with ice.

Pressures are calculated at each section.

Safety factor used in guy design is 2.

Stress ratio used in tower member design is 1.333.

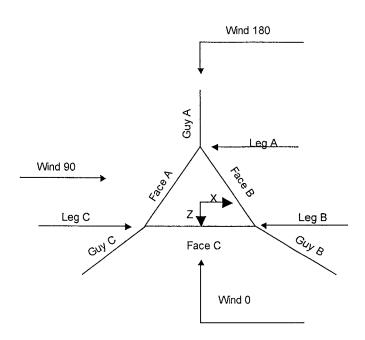
Local bending stresses due to climbing loads, feedline supports, and appurtenance mounts are not considered.

Options

- ✓ Consider Moments Legs
 Consider Moments Horizontals
 Consider Moments Diagonals
 Use Moment Magnification
- √ Use Code Stress Ratios
- ✓ Use Code Safety Factors Guys
 Escalate Ice
 Always Use Max Kz
 Use Special Wind Profile
 Include Bolts In Member Capacity
 Leg Bolts Are At Top Of Section
 Secondary Horizontal Braces Leg
 Use Diamond Inner Bracing (4 Sided)
 Add IBC .6D+W Combination
- √ Distribute Leg Loads As Uniform Assume Legs Pinned Assume Rigid Index Plate
- √ Use Clear Spans For Wind Area
- √ Use Clear Spans For KL/r
- √ Retension Guys To Initial Tension Bypass Mast Stability Checks
- √ Use Azimuth Dish Coefficients
- √ Project Wind Area of Appurt.
- √ Autocalc Torque Arm Areas
- √ SR Members Have Cut Ends
- √ Sort Capacity Reports By Component Triangulate Diamond Inner Bracing
- √ Treat Feedline Bundles As Cylinder
 Use ASCE 10 X-Brace Ly Rules
 Calculate Redundant Bracing Forces
 Ignore Redundant Members in FEA
 SR Leg Bolts Resist Compression
 All Leg Panels Have Same Allowable
 Offset Girt At Foundation
- √ Consider Feedline Torque Include Angle Block Shear Check Poles

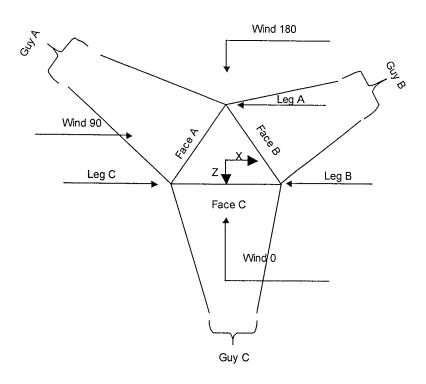
Include Shear-Torsion Interaction Always Use Sub-Critical Flow Use Top Mounted Sockets

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Atlanta, Georgia 30350 Phone: 770-641-7306 FAX: 770-587-2196	Client	Diversified Technology Consultants.	Designed by bhe



Corner & Starmount Guyed Tower

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Atlanta, Georgia 30350 Phone: 770-641-7306 FAX: 770-587-2196	Client	Diversified Technology Consultants.	Designed by bhe



Face Guyed

Tower Section Geometry							
Tower Section	Tower Elevation	Assembly Database	Description	Section Width	Number of	Section Length	
	ft			ft	Sections	ft	
TI	195.00-175.00			2.08	1	20.00	
T2-T8	175.00-0.00			2.08	7	25.00	

Tower Section Geometry (cont'd)								
Tower Section	Tower Elevation	Diagonal Spacing	Bracing Type	Has K Brace End	Has Horizontals	Top Girt Offset	Bottom Girt Offset	
	ft	ft		Panels		in	in	
TI	195.00-175.00	1.99	X Brace	No	No	0.0000	1.0000	
T2-T8	175.00-0.00	1.92	X Brace	No	No	1.0000	0.0000	

WEInc Job DTC-001R2; 0509-0503R2 Page 4 of 16 Walker Engineering Inc 8451 Dunwoody Place, Bldg 8 Atlanta, Georgia 30350 Phone: 770-641-7306 FAX: 770-587-2196 Project Prospect Date 13:48:55 09/22/05 Diversified Technology Consultants. Designed by bhe

Tower Section Geometry (cont'd)							
Tower Elevation ft	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade	
195.00-	Solid Round	1 1/2	A572-50	Solid Round	1/2	A36	
175.00 T2-T8 75.00-0.00	Solid Round	1 1/2	(50 ksi) A572-50 (50 ksi)	Solid Round	1/2	(36 ksi) A36 (36 ksi)	

Tower Section Geometry (cont'd)							
Tower Elevation ft	Top Girt Type	Top Girt Size	Top Girt Grade	Bottom Girt Type	Bottom Girt Size	Bottom Girt Grade	
195.00- 175.00	Flat Bar	SQ 3/4x3/4	A36	Flat Bar	SQ 3/4x3/4	A36	
T2-T8 75.00-0.00	Flat Bar	SQ 3/4x3/4	(36 ksi) A36 (36 ksi)	Flat Bar	SQ 3/4x3/4	(36 ksi) A36 (36 ksi)	

Tower Section Geometry (cont'd)							
Tower Elevation ft	No. of Mid Girts	Mid Girt Type	Mid Girt Size	Mid Girt Grade	Horizontal Type	Horizontal Size	Horizontal Grade
1 195.00-	1	Flat Bar	2x1/4	A36	Solid Round	3014	A36
175.00 T2-T8 75.00-0.00	I	Flat Bar	2x1/4	(36 ksi) A36 (36 ksi)	Solid Round		(36 ksi) A36 (36 ksi)

I ower Section Geometry (cont'd)								
Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A _f	Adjust. Factor A,	Weight Mult.	Stitch Bolt Spacing	Stitch Bolt Spacing
ft	ft²	in					Diagonals in	Horizontals in
TI 195.00- 175.00	0.00	0.0000	A36 (36 ksi)	1	1	Ī	36.0000	36.0000
T2-T8 175.00-0.00	0.00	0.0000	A36 (36 ksi)	l	1	1	36.0000	36.0000

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Tower Section Geometry (cont'd)

		_	K Factors ¹									
Tower Elevation	Calc K Single	Calc K Solid	Legs	X Brace Diags	K Brace Diags	Single Diags	Girts	Horiz.	Sec. Horiz.	Inner Brace		
ft	Angles	Rounds		X Y	Х Ү	X Y	X Y	Х Ү	Х Ү	Х Ү		
TI 195.00- 175.00	No	No	1	1 1	1 1	1 1	1	1 1	l l	1 1		
T2-T8 175.00-0.00	No	No	1	1 1	1 1	1 1	1 I	1 1	1 1	l 1		

Note: K factors are applied to member segment lengths. K-braces without inner supporting members will have the K factor in the out-of-plane direction applied to the overall length.

Tower Section Geometry (cont'd)

Tower Elevation ft	Leg		Diagoi	nal	Top G	irt	Botton	ı Girt	Mid Girt		Long Horizontal		Short Horizontal	
	Net Width Deduct in	U	Net Width Deduct in	Ū	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T1 195.00- 175.00 T2-T8	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75 0.75	0.0000	0.75 0.75	0.0000	0.75
175.00-0.00	0.0000	0.73	0.0000	0.73	0.0000	0.73	0.0000	0.73	0.0000	0.73	0.0000	0.73	0.0000	0.75

Guy Data

Guy Elevation	Guy Grade		Guy Size	Initial Tension	%	Guy Modulus	Guy Weight	L_u	Anchor Radius	Anchor Azimuth Adj.	Anchor Elevation	End Fitting Efficiency
ft				K		ksi	plf	ft	ft	ó	ft	~ %
187.033	EHS	A	5/16	1.12	10%	21000	0.205	229.76	135.00	0.0000	0.00	100%
		В	5/16	1.12	10%	21000	0.205	229.76	135.00	0.0000	0.00	100%
		С	5/16	1.12	10%	21000	0.205	229.76	135.00	0.0000	0.00	100%
137.458	EHS	Α	5/16	1.12	10%	21000	0.205	191.67	135.00	0.0000	0.00	100%
		В	5/16	1.12	10%	21000	0.205	191.67	135.00	0.0000	0.00	100%
		C	5/16	1.12	10%	21000	0.205	191.67	135.00	0.0000	0.00	100%
87.4583	EHS	Α	5/16	1.12	10%	21000	0.205	159.71	135.00	0.0000	0.00	100%
		В	5/16	1.12	10%	21000	0.205	159.71	135.00	0.0000	0.00	100%
		C	5/16	1.12	10%	21000	0.205	159.71	135.00	0.0000	0.00	100%
37.4583	EHS	Α	5/16	1.12	10%	21000	0.205	138.82	135.00	0.0000	0.00	100%
		В	5/16	1.12	10%	21000	0.205	138.82	135.00	0.0000	0.00	100%
		C	5/16	1.12	10%	21000	0.205	138.82	135.00	0.0000	0.00	100%

Guy Data(cont'd)

Walker Engineering Inc 8451 Dunwoody Place, Bldg 8 Atlanta, Georgia 30350 Phone: 770-641-7306 FAX: 770-587-2196

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	Diversified Technology Consultants.	bhe

Guy Elevation ft	Mount Type	Torque-Arm Spread	Torque-Arm Leg Angle	Torque-Arm Style	Torque-Arm Grade	Torque-Arm Type	Torque-Arm Size
187.033	Corner	JI					
137.458	Torque Arm	4.17	0.0000	Channel	A36 (36 ksi)	Channel	C10x15.3
87.4583	Corner				(20 101)		
37.4583	Corner						

Guy Data (cont'd)

Guy Elevation ft	Diagonal Grade	Diagonal Type	Upper Diagonal Size	Lower Diagonal Size	Is Strap.	Pull-Off Grade	Pull-Off Type	Pull-Off Size
187.03	A36 (36 ksi)	Solid Round			No	A36 (36 ksi)	Single Angle	L2x2x1/4
137.46	A36 (36 ksi)	Solid Round			No	A36 (36 ksi)	Single Angle	L2x2x1/4
87.46	A36 (36 ksi)	Solid Round			No	A36 (36 ksi)	Single Angle	L2x2x1/4
37.46	A36 (36 ksi)	Solid Round			No	A36 (36 ksi)	Single Angle	L2x2x1/4

Guy Data (cont'd)

Guy Elevation	Cable Weight	Cable Weight	Cable Weight	Cable Weight	Tower Intercept	Tower Intercept	Tower Intercept	Tower Intercept
	Ā	B	Č	Ď	A	B	C	D .
ft	K	K	K	K	ft	ft	ft	ft
187.033	0.05	0.05	0.05		4.75	4.75	4.75	
					3.8 sec/pulse	3.8 sec/pulse	3.8 sec/pulse	
137.458	0.04	0.04	0.04		3.32	3.32	3.32	
					3.1 sec/pulse	3.1 sec/pulse	3.1 sec/pulse	
87.4583	0.03	0.03	0.03		2.32	2.32	2.32	
					2.6 sec/pulse	2.6 sec/pulse	2.6 sec/pulse	
37.4583	0.03	0.03	0.03		1.76	1.76	1.76	
					2.3 sec/pulse	2.3 sec/pulse	2.3 sec/pulse	

Guy Data (cont'd)

			Torque Arm		Pul	l Off	Diagonal	
Guy Elevation ft	Calc K Single Angles	Calc K Solid Rounds	K _x	K _y	K _x	K_{ν}	K _x	К,
187.033	No	No			1	1	i I	I
137.458	No	No	1	1	1	1	1	1
87.4583	No	No			1	I	1	1
37.4583	No	No			1	1	1	1

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Guy Data (cont'd)

		Torqi	ue-Arm			Pu	ll Off			Diag	gonal	
Guy Elevation ft	Bolt Size in	Number	Net Width Deduct in	U	Bolt Size in	Number	Net Width Deduct in	U	Bolt Size in	Number	Net Width Deduct in	U
187.033	0.6250 A325N	0	0.0000	0.75	0.6250 A325N	0	0.0000	0.75	0.6250 A325N	0	0.0000	0.75
137.458	0.6250 A325N	0	0.0000	0.75	0.6250 A325N	0	0.0000	0.75	0.6250 A325N	0	0.0000	0.75
87.4583	0.6250 A325N	0	0.0000	0.75	0.6250 A325N	0	0.0000	0.75	0.6250 A325N	0	0.0000	0.75
37.4583	0.6250 A325N	0	0.0000	0.75	0.6250 A325N	0	0.0000	0.75	0.6250 A325N	0	0.0000	0.75

Guy Pressures

Guy	Guy	2	q_z	q_z	Ice
Elevation	Location			Ice	Thickness
ft		ft	psf	psf	in
187.033	Α	93.52	25	5	0.7500
	В	93.52	25	5	0.7500
	C	93.52	25	5	0.7500
137.458	Α	68.73	23	5	0.7500
	В	68.73	23	5	0.7500
	С	68.73	23	5	0.7500
87.4583	Α	43.73	20	4	0.7500
	В	43.73	20	4	0.7500
	С	43.73	20	4	0.7500
37.4583	Α	18.73	18	4	0.7500
	В	18.73	18	4	0.7500
	С	18.73	18	4	0.7500

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Face or Leg	Allow Shield	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight plf
1-5/8" Coax	C	Yes	Ar (CfAe)	159.00 - 3.00	0.0000	-0.45	1	1	0.2500	1.9800		0.92
Cable 159'												
1-1/4" Coax	В	Yes	Ar (CfAe)	148.00 - 3.00	-2.0000	0.2	6	3	0.2500	1.5500		0.66
Cable to 148' (AT&T)												
1-1/4" Coax	С	Yes	Ar (CfAe)	140.00 - 3.00	-2.0000	0.2	6	3	0.2500	1.5500		0.66
Cable to 140'												
(AT&T)												
7/8" Coax	Α	Yes	Ar (CfAe)	92.00 - 3.00	0.0000	0.45	2	2	0.2500	1.0900		0.33
Cable to 92'												
1/2" Coax	Α	Yes	Ar (CfAe)	82.50 - 3.00	0.0000	0.35	I	1	0.2500	0.6300		0.15
Cable to 82'												
Proposed 1-	В	Yes	Ar (CfAe)	130.00 - 3.00	0.0000	-0.25	10	5	0.2500	1.9800		0.82
5/8" Coax												
Cables to 130'												
(T-Mobile)												

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Description	Face or Leg	Allow Shield	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight plf
Proposed 1- 5/8" Coax Cables to 130' (T-Mobile)	C	Yes	Ar (CfAe)	130.00 - 3.00	0.0000	-0.2	8	4	0.2500	1.9800		0.82

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation	Face	A_R	A_F	C _A A _A In Face	C _A A _A Out Face	Weight
Section	ft		ft²	ft^2	In Face ft ²	ft²	K
TI	195.00-175.00	A	0.000	0.000	0.000	0.000	0.00
		В	0.000	0.000	0.000	0.000	0.00
		С	0.000	0.000	0.000	0.000	0.00
T2	175.00-150.00	Α	0.000	0.000	0.000	0.000	0.00
		В	0.000	0.000	0.000	0.000	0.00
		C	1.485	0.000	0.000	0.000	0.01
T3	150.00-125.00	Α	0.000	0.000	0.000	0.000	0.00
		В	15.341	0.000	0.000	0.000	0.13
		С	14.857	0.000	0.000	0.000	0.12
T4	125.00-100.00	Α	0.000	0.000	0.000	0.000	0.00
		В	34.895	0.000	0.000	0.000	0.30
		С	34.556	0.000	0.000	0.000	0.29
T5	100.00-75.00	Α	3.482	0.000	0.000	0.000	0.01
		В	34.895	0.000	0.000	0.000	0.30
		С	34.556	0.000	0.000	0.000	0.29
T6	75.00-50.00	Α	5.854	0.000	0.000	0.000	0.02
		В	34.895	0.000	0.000	0.000	0.30
		С	34.556	0.000	0.000	0.000	0.29
T7	50.00-25.00	Α	5.854	0.000	0.000	0.000	0.02
		В	34.895	0.000	0.000	0.000	0.30
		C	34.556	0.000	0.000	0.000	0.29
T8	25.00-0.00	A	5.152	0.000	0.000	0.000	0.02
		В	30.707	0.000	0.000	0.000	0.27
		Ċ	30.409	0.000	0.000	0.000	0.25

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower	Tower	Face	Ice	A_R	A_F	C _A A _A In Face	C ₄ A ₄ Out Face	Weight
Section	Elevation ft	or Leg	Thickness in	ft²	ft^2	in race ft²	Oui Face fr	K
TI	195.00-175.00	A	0.750	0.000	0.000	0.000	0.000	0.00
		В		0.000	0.000	0.000	0.000	0.00
		С		0.000	0.000	0.000	0.000	0.00
T2	175.00-150.00	Α	0.750	0.000	0.000	0.000	0.000	0.00
		В		0.000	0.000	0.000	0.000	0.00
		С		2.610	0.000	0.000	0.000	0.03
T3	150.00-125.00	Α	0.750	0.000	0.000	0.000	0.000	0.00
		В		7.296	11.545	0.000	0.000	0.37
		С		12.512	7.969	0.000	0.000	0.35
T4	125.00-100.00	Α	0.750	0.000	0.000	0.000	0.000	0.00
		В		13.604	27.541	0.000	0.000	0.85
		С		20.854	23.077	0.000	0.000	0.83
T5	100.00-75.00	Α	0.750	5.000	1.898	0.000	0.000	0.07
		В		13.604	27.541	0.000	0.000	0.85

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Tower Section	Tower Elevation	Face or	Ice Thickness	A_R	A_F	C _A A _A In Face	C _A A _A Out Face	Weight
ft		Leg	in	ft^2 ft^2 ft^2		ft²	К	
		С		20.854	23.077	0.000	0.000	0.83
T6	75.00-50.00	Α	0.750	9.833	2,792	0.000	0.000	0.12
		В		13.604	27.541	0.000	0.000	0.85
		С		20.854	23.077	0.000	0.000	0.83
T7	50.00-25.00	Α	0.750	9.833	2.792	0.000	0.000	0.12
		В		13.604	27.541	0.000	0.000	0.85
		С		20.854	23.077	0.000	0.000	0.83
T8	25.00-0.00	Α	0.750	8.653	2.457	0.000	0.000	0.10
		В		11.972	24.236	0.000	0.000	0.75
		С		18.352	20.307	0.000	0.000	0.73

Feed Line Shielding

Section	Elevation	Face	A_R	A_R	A_F	A_F
				Ice		Ice
	ft		ft²	ft²	ft²	ft^2
T1	195.00-175.00	A	0.000	0.000	0.000	0.000
		В	0.000	0.000	0.000	0.000
		C	0.000	0.000	0.000	0.000
T2	175.00-150.00	Α	0.000	0.000	0.000	0.000
		В	0.000	0.000	0.000	0.000
		C	0.094	0.641	0.017	0.057
T3	150.00-125.00	Α	0.000	0.000	0.000	0.000
		В	0.800	4.398	0.152	0.388
		C	0.812	4.861	0.154	0.429
T4	125.00-100.00	Α	0.000	0.000	0.000	0.000
		В	1.860	9.744	0.354	0.860
		С	1.860	10.383	0.354	0.916
T5	100.00-75.00	Α	0.214	1.694	0.041	0.149
		B C	1.860	9.744	0.354	0.860
		C	1.860	10.383	0.354	0.916
T6	75.00-50.00	Α	0.359	3.100	0.068	0.274
		В	1.860	9.744	0.354	0.860
		C	1.860	10.383	0.354	0.916
T7	50.00-25.00	Α	0.359	3.100	0.068	0.274
		В	1.860	9.744	0.354	0.860
		С	1.860	10.383	0.354	0.916
T8	25.00-0.00	Α	0.316	2.728	0.060	0.241
		В	1.637	8.574	0.311	0.757
		C	1.637	9.137	0.311	0.806

Feed Line Center of Pressure

Section	Elevation	CP_{X}	CP_Z	CP_X	CP_Z
				Ice	Ice
	ft	in	in	in	in
Tl	195.00-175.00	0.0000	0.0000	0.0000	0.0000
T2	175.00-150.00	0.5019	0.3661	0.2736	0.1996
T3	150.00-125.00	2.0943	1.2458	0.9207	0.5464
T4	125.00-100.00	2.7725	0.5563	1.2544	0.2655
T5	100.00-75.00	2.6407	0.0965	1.1931	0.1413
T6	75.00-50.00	2.5495	-0.1860	1.1254	-0.0535

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Section	Elevation	CP_X	CP_Z	CP_X	CP_Z
				Ice	Ice
	ft	in	in	in	in
T7	50.00-25.00	2.5495	-0.1860	1.1254	-0.0535
Т8	25.00-0.00	2.4509	-0.1788	1.0516	-0.0500

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral	Azimuth Adjustment	Placement		C _A A _A Front	C _A A _A Side	Weight
			Vert ft ft ft	۰	ft		ft²	ft²	К
Allgon 7250.03 panel antenna	A	From Leg	2.00	0.0000	148.00	No Ice	4.00	1.87	0.02
(AT&T)			0.00			1/2" Ice	4.39	2.33	0.04
			0.00			l" Ice	4.78	2.70	0.06
Allgon 7250.03 panel antenna	В	From Leg	2.00	0.0000	148.00	No Ice	4.00	1.87	0.02
(AT&T)			0.00			1/2" Ice	4.39	2.33	0.04
			0.00			l" Ice	4.78	2.70	0.06
Allgon 7250.03 panel antenna	С	From Leg	2.00	0.0000	148.00	No Ice	4.00	1.87	0.02
(AT&T)			0.00			1/2" Ice	4.39	2.33	0.04
			0.00			l" Ice	4.78	2.70	0.06
Flush mount	Α	From Leg	1.00	0.0000	148.00	No Ice	1.76	1.76	0.05
(AT&T)			0.00			1/2" Ice	2.08	2.08	0.07
			0.00			I" Ice	2.40	2.40	0.09
Flush mount	В	From Leg	1.00	0.0000	148.00	No Ice	1.76	1.76	0.05
(AT&T)			0.00			1/2" Ice	2.08	2.08	0.07
			0.00			1" Ice	2.40	2.40	0.09
Flush mount	C	From Leg	1.00	0.0000	148.00	No Ice	1.76	1.76	0.05
(AT&T)			0.00			1/2" Ice	2.08	2.08	0.07
			0.00			l" Ice	2.40	2.40	0.09
Allgon 7250.03 panel antenna	Α	From Leg	2.00	0.0000	140.00	No Ice	4.00	1.87	0.02
(AT&T)			0.00			1/2" Ice	4.39	2.33	0.04
			0.00			l" Ice	4.78	2.70	0.06
Allgon 7250.03 panel antenna	В	From Leg	2.00	0.0000	140.00	No Ice	4.00	1.87	0.02
(AT&T)			0.00			1/2" Ice	4.39	2.33	0.04
			0.00			1" Ice	4.78	2.70	0.06
Allgon 7250.03 panel antenna	С	From Leg	2.00	0.0000	140.00	No Ice	4.00	1.87	0.02
(AT&T)			0.00			1/2" Ice	4.39	2.33	0.04
			0.00			l" Ice	4.78	2.70	0.06
Flush mount	Α	From Leg	1.00	0.0000	140.00	No Ice	1.76	1.76	0.05
(AT&T)			0.00			1/2" Ice	2.08	2.08	0.07
			0.00			l" Ice	2.40	2.40	0.09
Flush mount	В	From Leg	1.00	0.0000	140.00	No Ice	1.76	1.76	0.05
(AT&T)			0.00			1/2" Ice	2.08	2.08	0.07
			0.00			I" Ice	2.40	2.40	0.09
Flush mount	C	From Leg	1.00	0.0000	140.00	No Ice	1.76	1.76	0.05
(AT&T)			0.00			1/2" Ice	2.08	2.08	0.07
			0.00			l" Ice	2.40	2.40	0.09
Dipole (broken)	В	From Leg	1.00	0.0000	83.00	No Ice	2.50	0.00	0.01
(Existing)			0.00			1/2" Ice	4.00	0.00	0.04
			0.00			I" Ice	5.50	0.00	0.07
(3) Proposed EMS DR65-19-	Α	From Leg	4.00	0.0000	130.00	No Ice	8.40	3.53	0.03
XXDPQ panel antennas			0.00			1/2" Ice	8.95	3.97	0.07
(T-Mobile)			0.00			1" Ice	9.51	4.41	0.12
(3) Proposed EMS DR65-19-	В	From Leg	4.00	0.0000	130.00	No Ice	8.40	3.53	0.03
XXDPQ panel antennas			0.00			1/2" Ice	8.95	3.97	0.07

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Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert	Azimuth Adjustment	Placement		C _A A _A Front	C _A A _A Side	Weight
			ft ft ft	٥	ft		ft²	ft^2	K
(T-Mobile)			0.00			l" Ice	9.51	4.41	0.12
(3) Proposed EMS DR65-19-	С	From Leg	4.00	0.0000	130.00	No Ice	8.40	3.53	0.03
XXDPO panel antennas		J	0.00			1/2" Ice	8.95	3.97	0.07
(T-Mobile)			0.00			l" Ice	9.51	4.41	0.12
Proposed T-Frame mount	Α	From Leg	4.00	0.0000	130.00	No Ice	12.20	12.20	0.36
(T-Mobile)		Č	0.00			1/2" Ice	17.60	17.60	0.49
,			0.00			l" Ice	23.00	23.00	0.62
Proposed T-Frame mount	В	From Leg	4.00	0.0000	130.00	No Ice	12.20	12.20	0.36
(T-Mobile)		Ü	0.00			1/2" Ice	17.60	17.60	0.49
,			0.00			l" Ice	23.00	23.00	0.62
Proposed T-Frame mount	С	From Leg	4.00	0.0000	130.00	No Ice	12.20	12.20	0.36
(T-Mobile)			0.00		3.00	1/2" Ice	17.60	17.60	0.49
,			0.00			l" Ice	23.00	23.00	0.62

Load Combinations

Comb.	Description
No.	
1	Dead Only
2	Dead+Wind 0 deg - No Ice+Guy
3	Dead+Wind 30 deg - No Ice+Guy
4	Dead+Wind 60 deg - No Ice+Guy
5	Dead+Wind 90 deg - No Ice+Guy
6	Dead+Wind 120 deg - No Ice+Guy
7	Dead+Wind 150 deg - No Ice+Guy
8	Dead+Wind 180 deg - No Ice+Guy
9	Dead+Wind 210 deg - No Ice+Guy
10	Dead+Wind 240 deg - No Ice+Guy
11	Dead+Wind 270 deg - No Ice+Guy
12	Dead+Wind 300 deg - No Ice+Guy
13	Dead+Wind 330 deg - No Ice+Guy
14	Dead+Ice+Guy
15	Dead+Wind 0 deg+Ice+Guy
16	Dead+Wind 30 deg+Ice+Guy
17	Dead+Wind 60 deg+Ice+Guy
18	Dead+Wind 90 deg+Ice+Guy
19	Dead+Wind 120 deg+Ice+Guy
20	Dead+Wind 150 deg+Ice+Guy
21	Dead+Wind 180 deg+Ice+Guy
22	Dead+Wind 210 deg+Ice+Guy
23	Dead+Wind 240 deg+Ice+Guy
24	Dead+Wind 270 deg+Ice+Guy
25	Dead+Wind 300 deg+Ice+Guy
26	Dead+Wind 330 deg+Ice+Guy

Maximum Reactions

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Location	Condition	Gov.	Vertical	Horizontal, X	Horizontal, Z
		Load	K	K	K
		Comb.			
Leg C	Max. Vert	10	46.71	0.97	-0.38
	$Max. H_x$	10	46.71	0.97	-0.38
	Max. H _z	5	-14.00	-0.56	0.28
	Min. Vert	4	-15.87	-0.73	0.21
	$Min. H_x$	4	-15.87	-0.73	0.21
	Min. Hz	10	46.71	0.97	-0.38
Leg B	Max. Vert	6	47.02	-0.82	-0.64
	Max. H_x	11	-14.03	0.57	0.28
	Max. H _z	13	-14.03	0.40	0.58
	Min. Vert	12	-16.01	0.56	0.51
	Min. H _x	6	47.02	-0.82	-0.64
	Min. H _z	7	40.45	-0.59	-0.72
Leg A	Max. Vert	2	46.72	0.30	1.03
•	Max. H _x	13	40.28	0.33	0.87
	Max. Hz	2	46.72	0.30	1.03
	Min. Vert	8	-15.87	-0.33	-0.74
	Min. H _x	8	-15.87	-0.33	-0.74
	Min. Hz	8	-15.87	-0.33	-0.74
Guy C @ 135 ft	Max. Vert	10	-0.69	-0.45	0.26
Elev 0 ft					
Azimuth 240 deg					
· ·	$Max. H_x$	10	-0.69	-0.45	0.26
	Max. H _z	3	-13.14	-13.98	8.31
	Min. Vert	5	-13.17	-14.23	7.97
	$Min. H_x$	5	-13.17	-14.23	7.97
	Min. Hz	10	-0.69	-0.45	0.26
Guy B @ 135 ft	Max. Vert	6	-0.69	0.45	0.26
Elev 0 ft					
Azimuth 120 deg					
Ū	Max. H _x	11	-13.16	14.22	7.97
	Max, H _z	13	-13.16	14.01	8.34
	Min. Vert	13	-13.16	14.01	8.34
	Min. H _x	6	-0.69	0.45	0.26
	Min. Hz	6	-0.69	0.45	0.26
Guy A @ 135 ft	Max. Vert	2	- 0.69	0.00	-0.52
Elev 0 ft					
Azimuth 0 deg					
	Max. H _x	24	- 4.96	0.43	-6.67
	Max. Hz	2	-0.69	0.00	-0.52
	Min. Vert	7	-13.17	-0.22	-16.31
	Min, H _x	18	-4.97	-0.44	-6.70
	Min. H _z	7	-13.17	-0.22	-16.31
		•			

Tower Mast Reaction Summary

Load Combination	Vertical	Shear _x	Shear _z	Overturning Moment, M _x	Overturning Moment, M _z	Torque
	K	K	К	kip-ft	kip-ft	kip-ft
Dead Only	20.94	-0.01	-0.00	-0.01	0.01	0.00
Dead+Wind 0 deg - No Ice+Guy	33.88	-0.01	-1.53	-63.92	0.12	1.10
Dead+Wind 30 deg - No Ice+Guy	32.02	0.72	-1.29	-53.14	-20.44	1.02
Dead+Wind 60 deg - No Ice+Guy	28.68	1.26	-0.73	-22.67	-39.90	0.63
Dead+Wind 90 deg - No Ice+Guy	32.09	1.47	0.01	9.15	-56.73	-0.01

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Load Combination	Vertical	Shear _x	Shear:	Overturning Moment, M _r	Overturning Moment, M-	Torque
	K	K	K	kip-ft	kip-ft	kip-ft
Dead+Wind 120 deg - No	33.94	1.32	0.77	32.21	-55.78	-0.53
Ice+Guy						
Dead+Wind 150 deg - No	32.09	0.75	1.28	44.55	-36.27	-0.92
Ice+Guy						
Dead+Wind 180 deg - No	28.68	-0.01	1.46	45.88	-0.31	-1.19
Ice+Guy						
Dead+Wind 210 deg - No	32.01	-0.76	1.28	44.26	35.79	-1.02
Ice+Guy						
Dead+Wind 240 deg - No	33.87	-1.33	0.76	31.85	55.41	-0.58
lce+Guy						
Dead+Wind 270 deg - No	32.04	-1.49	0.01	8.81	56.57	0.00
Ice+Guy						
Dead+Wind 300 deg - No	28.69	-1.28	-0.73	-23.07	39.97	0.56
Ice+Guy						
Dead+Wind 330 deg - No	32.05	-0.74	-1.29	-53.39	20.66	0.92
Ice+Guy						
Dead+lce+Guy	37.76	-0.02	0.00	-0.04	0.03	0.00
Dead+Wind 0 deg+Ice+Guy	39.44	-0.02	-0.69	-22.13	0.11	0.20
Dead+Wind 30 deg+Ice+Guy	39.75	0.30	-0.54	-17.36	-10.26	0.25
Dead+Wind 60 deg+lce+Guy	40.05	0.51	-0.31	-9.79	-17.02	0.11
Dead+Wind 90 deg+Ice+Guy	39.75	0.61	-0.01	-0.20	-20.25	-0.06
Dead+Wind 120 deg+Ice+Guy	39.45	0.58	0.35	11.09	-19.23	-0.09
Dead+Wind 150 deg+Ice+Guy	39.75	0.28	0.55	17.62	-9.97	-0.09
Dead+Wind 180 deg+Ice+Guy	40.04	-0.02	0.62	19.61	-0.06	-0.19
Dead+Wind 210 deg+Ice+Guy	39.74	- 0.33	0.55	17.53	9.86	-0.25
Dead+Wind 240 deg+Ice+Guy	39.43	-0.62	0.35	10.93	19.18	-0.11
Dead+Wind 270 deg+Ice+Guy	39.74	-0.65	-0.01	-0.38	20.29	0.06
Dead+Wind 300 deg+Ice+Guy	40.04	-0.56	-0.31	-9.93	17.15	0.08
Dead+Wind 330 deg+Ice+Guy	39.74	-0.35	-0.54	-17.44	10.45	0.09

Solution Summary

	Sur	n of Applied Forces	5		Sum of Reaction	ıs	
Load	PX	PY	PZ	PX	PΥ	PZ	% Error
Comb.	K	K	K	·K	K	K	
l	0.00	-10.80	0.00	0.00	10.80	0.00	0.001%
2	-0.03	-10.88	-15.40	0.03	10.88	15.40	0.026%
3	7.67	-10.80	-13.29	-7.67	10.80	13.29	0.021%
4	13.32	-10.72	-7.65	-13.32	10.72	7.66	0.016%
5	15.40	-10.80	0.03	-15.40	10.80	-0.03	0.021%
6	13.38	-10.88	7.73	-13.38	10.88	-7.72	0.026%
7	7.72	-10.80	13.32	-7.72	10.80	-13.32	0.021%
8	0.03	-10.72	15.36	-0.03	10.72	-15.36	0.018%
9	-7.67	-10.80	13.29	7.67	10.80	-13.29	0.021%
10	-13.35	-10.88	7.68	13.35	10.88	-7.67	0.026%
11	-15.40	-10.80	-0.03	15.40	10.80	0.03	0.020%
12	-13.35	-10.72	-7.71	13.35	10.72	7.71	0.013%
13	-7.72	-10.80	-13.32	7.73	10.80	13.32	0.020%
14	0.00	-24.85	0.00	0.00	24.85	-0.00	0.003%
15	-0.01	-24.95	-6.62	0.01	24.95	6.62	0.005%
16	3.26	-24.85	-5.64	-3.26	24.85	5.64	0.005%
17	5.60	-24.75	-3.22	-5.60	24.75	3.22	0.004%
18	6.54	-24.85	0.01	-6.54	24.85	-0.01	0.004%
19	5.75	-24.95	3.32	-5.75	24.95	-3.32	0.006%
20	3.28	-24.85	5.66	-3.28	24.85	-5.66	0.004%
21	0.01	-24.75	6.46	-0.01	24.75	-6.46	0.004%
22	-3.26	-24.85	5.64	3.26	24.85	-5.64	0.005%
23	-5.74	-24.95	3.30	5.74	24.95	-3.30	0.005%

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	Sur	n of Applied Forces	•		Sum of Reaction.	2	
Load	PX	PY	PZ	PX	PY	PZ	% Error
Comb.	K	K	K	K	К	K	
24	-6.54	-24.85	-0.01	6.54	24.85	0.01	0.005%
25	-5.61	-24.75	-3.24	5.61	24.75	3.24	0.004%
26	-3.28	-24.85	-5.66	3.28	24.85	5.66	0.004%

Non-Linear Convergence Results

Load	Converged?	Number	Displacement	Force
Combination		of Cycles	Tolerance	Tolerance
1	Yes	7	0.00000001	0.00006177
2	Yes	42	0.00014356	0.00008230
3	Yes	42	0.00012766	0.00006868
4	Yes	23	0.00012758	0.00010460
5	Yes	42	0.00012692	0.00006833
6	Yes	42	0.00014351	0.00008218
7	Yes	42	0.00012668	0.00006821
8	Yes	23	0.00014197	0.00010663
9	Yes	42	0.00012760	0.00006864
10	Yes	42	0.00014352	0.00008230
11	Yes	42	0.00012682	0.00006818
12	Yes	22	0.00012097	0.00013138
13	Yes	42	0.00012663	0.00006810
14	Yes	6	0.0000001	0.00003179
15	Yes	28	0.0000001	0.00004689
16	Yes	28	0.00000001	0.00003116
17	Yes	23	10000000.0	0.00004270
18	Yes	29	0.0000001	0.00002454
19	Yes	28	0.0000001	0.00004924
20	Yes	29	0.00000001	0.00002458
21	Yes	23	0.00000001	0.00004255
22	Yes	28	0.00000001	0.00003026
23	Yes	28	0.00000001	0.00004560
24	Yes	28	0.00000001	0.00003096
25	Yes	23	0.00000001	0.00004264
26	Yes	29	0.0000001	0.00002360

Maximum Tower Deflections - Design Wind

Section No.	Elevation	Horz. Deflection	Gov. Load	Tilt	Twist
	ft	in	Comb.	o	0
TI	195 - 175	10.094	6	0.6378	0.6588
T2	175 - 150	12.746	6	0.5966	0.6658
T3	150 - 125	15.347	6	0.3685	0.6760
T4	125 - 100	16.539	6	0.1570	0.7448
T5	100 - 75	14.807	6	0.6083	0.8073
Т6	75 - 50	10.923	6	0.8267	0.7507
T7	50 - 25	6.144	6	0.9391	0.5906
Т8	25 - 0	1.838	6	0.6201	0.3342

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Critical Deflections and Radius of Curvature - Design Wind

Elevation	Appurtenance	Gov.	Deflection	Tilt	Twist	Radius of
		Load				Curvature
ft		Comb.	in	0	•	ft
187.03	Guy	6	11.183	0.6256	0.6624	6803
148.00	Aligon 7250.03 panel antenna	6	15.513	0.3299	0.6793	6193
140.00	Aligon 7250.03 panel antenna	6	16.088	0.2119	0.6973	3691
137.46	Guy	6	16.232	0.2050	0.7044	3262
130.00	(3) Proposed EMS DR65-19-	6	16.505	0.1800	0.7278	2433
	XXDPQ panel antennas					
87.46	Guy	6	13.042	0.7688	0.7944	5124
83.00	Dipole (broken)	6	12.317	0.7924	0.7819	6106
37.46	Guy	6	3.753	0.8374	0.4739	4053

Section Capacity Table

Section	Elevation	Component	Size	Critical	P	$SF*P_{allow}$	%	Pass
No.	ft	Туре		Element	K	K	Capacity	Fail
TI	195 - 175	Leg	1 1/2	1	-6.08	51.99	12.6	Pass
T2	175 - 150	Leg	1 1/2	73	- 8.96	54.52	17.5	Pass
T3	150 - 125	Leg	1 1/2	169	-24.63	54.52	58.9	Pass
T4	125 - 100	Leg	1 1/2	265	-26.70	54.52	51.3	Pass
T5	100 - 75	Leg	1 1/2	362	-18.78	54.41	35.8	Pass
Т6	75 - 50	Leg	1 1/2	458	-14.85	54.22	28.9	Pass
T7	50 - 25	Leg	1 1/2	554	-30.04	54.43	57.8	Pass
T8	25 - 0	Leg	1 1/2	650	-44.83	54.51	85.7	Pass
T1	195 - 175	Diagonal	1/2	46	-0.44	2.31	19.0	Pass
T2	175 - 150	Diagonal	1/2	166	-0.29	2.55	11.4	Pass
T3	150 - 125	Diagonal	1/2	220	-1.79	2.55	70.0	Pass
T4	125 - 100	Diagonal	1/2	277	-0.81	2.55	31.9	Pass
T5	100 - 75	Diagonal	1/2	415	-1.17	2.55	45.9	Pass
Т6	75 - 50	Diagonal	1/2	472	-0.96	2.55	37.7	Pass
T7	50 - 25	Diagonal	1/2	610	-1.28	2.55	50.0	Pass
T8	25 - 0	Diagonal	1/2	664	-1.22	2.55	47.8	Pass
TI	195 - 175	Top Girt	SQ 3/4x3/4	4	0.00	16.20	0.0	Pass
T2	175 - 150	Top Girt	SQ 3/4x3/4	77	0.03	16.20	0.2	Pass
T3	150 - 125	Top Girt	SQ 3/4x3/4	174	0.07	16.20	0.4	Pass
T4	125 - 100	Top Girt	SQ 3/4x3/4	268	0.19	16.20	1.2	Pass
T5	100 - 75	Top Girt	SQ 3/4x3/4	366	0.22	16.20	1.3	Pass
T6	75 - 50	Top Girt	SQ 3/4x3/4	462	0.12	16.20	0.8	Pass
T7	50 - 25	Top Girt	SQ 3/4x3/4	558	0.12	16.20	0.7	Pass
T8	25 - 0	Top Girt	SQ 3/4x3/4	653	0.13	16.20	0.8	Pass
T1	195 - 175	Bottom Girt	SQ 3/4x3/4	9	0.11	16.20	0.7	Pass
T2	175 - 150	Bottom Girt	SQ 3/4x3/4	81	0.06	16.20	0.4	Pass
T3	150 - 125	Bottom Girt	SQ 3/4x3/4	177	0.24	16.20	1.5	Pass
T4	125 - 100	Bottom Girt	SQ 3/4x3/4	273	0.11	16.20	0.7	Pass
T5	100 - 75	Bottom Girt	SQ 3/4x3/4	369	0.13	16.20	0.8	Pass
Т6	75 - 50	Bottom Girt	SQ 3/4x3/4	465	0.11	16.20	0.7	Pass
T7	50 - 25	Bottom Girt	SQ 3/4x3/4	561	0.16	16.20	1.0	Pass
T8	25 - 0	Bottom Girt	SQ 3/4x3/4	655	0.00	0.00	0.0	Pass
TI	195 - 175	Mid Girt	2x1/4	12	0.07	14.40	0.5	Pass
T2	175 - 150	Mid Girt	2x1/4	83	-0.05	0.94	4.8	Pass
T4	125 - 100	Mid Girt	2x1/4	276	-0.13	0.94	13.7	Pass
Т6	75 - 50	Mid Girt	2x1/4	468	0.22	14.40	1.5	Pass
Т8	25 - 0	Mid Girt	2x1/4	660	-0.11	0.94	12.0	Pass
Tl	195 - 175	Guy A@187.033	5/16	750	3.06	5.60	54.7	Pass
T3	150 - 125	Guy A@137.458	5/16	759	5.11	5.60	91.3	Pass

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Section	Elevation	Component	Size	Critical	P	SF*Pallow	%	Pass
No.	ft	Туре		Element	K	K	Capacity	Fail
T5	100 - 75	Guy A@87.4583	5/16	765	5.62	5.60	100.3	Fail X
T7	50 - 25	Guy A@37.4583	5/16	768	2.91	5.60	52.0	Pass
Tl	195 - 175	Guy B@187.033	5/16	749	3.05	5.60	54.5	Pass
T3	150 - 125	Guy B@137.458	5/16	756	5.11	5.60	91.2	Pass
T5	100 - 75	Guy B@87.4583	5/16	764	5.62	5.60	100.4	Fail 🗶
T7	50 - 25	Guy B@37.4583	5/16	767	2.91	5.60	52.0	Pass
T1	195 - 175	Guy C@187.033	5/16	745	3.06	5.60	54.7	Pass
T3	150 - 125	Guy C@137.458	5/16	752	5.06	5.60	90.3	Pass
T5	100 - 75	Guy C@87.4583	5/16	763	5.62	5.60	100.3	Fail 🗶
T7	50 - 25	Guy C@37.4583	5/16	766	2.91	5.60	52.0	Pass
TI	195 - 175	Top Guy Pull- Off@187.033	L2x2x1/4	746	0.99	27.01	3.7	Pass
T3	150 - 125	Top Guy Pull- Off@137.458	L2x2x1/4	180	-2.66	21.78	12.2	Pass
T5	100 - 75	Top Guy Pull- Off@87.4583	L2x2x1/4	372	2.40	27.01	8.9	Pass
T7	50 - 25	Top Guy Pull- Off@37.4583	L2x2x1/4	563	1.02	20.26	5.1	Pass
T3	150 - 125	Torque Arm Top@137.458	C10x15.3	762	-1.88	101.74	24.6	Pass
		10р66137.130					Summary	
						Leg (T8)	85.7	Pass
						Diagonal (T3)	70.0	Pass
						Top Girt (T5)	1.3	Pass
						Bottom Girt (T3)	1.5	Pass
						Mid Girt (T4)	13.7	Pass
						Guy A (T5)	100.3	Fail 🗶
						Guy B (T5)	100.4	Fail X
						Guy C (T5)	100.3	Fail X
						Top Guy	12.2	Pass
						Pull-Off	12.2	r ass
						(T3) Torque Arm	24.6	Pass
						Top (T3) RATING =	100.4	Fail X

Exhibit 3



T-Mobile USA Inc.

100 Filley St, Bloomfield, CT 06002-1853

Phone: (860) 692-7100 Fax: (860) 692-7159

Technical Memo

To: Christine Farrell

From: Farid Marbouh - Radio Frequency Engineer

cc: Jason Overbey

Subject: Power Density Report for CTNH302A

Date: September 9, 2005

1. Introduction:

This report is the result of an Electromagnetic Field Intensities (EMF - Power Densities) study for the T-Mobile PCS antenna installation on a Guyed Tower at 151 Waterbury Road, Prospect, CT. This study incorporates the most conservative consideration for determining the practical combined worst case power density levels that would be theoretically encountered from locations surrounding the transmitting location.

2. Discussion:

The following assumptions were used in the calculations:

- 1) The emissions from T-Mobile transmitters are in the 1935-1945 MHz frequency band.
- 2) The antenna array consists of three sectors, with 3 antennas per sector.
- 3) The model number for each antenna is APX16PV-16PV-2.
- 4) The antenna center line height is 130 ft.
- 5) The maximum transmit power from any sector is 2291.5 Watts Effective Radiated Power (EiRP) assuming 8 channels per sector.
- 6) All the antennas are simultaneously transmitting and receiving, 24 hours a day.
- 7) Power levels emitting from the antennas are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. This is rarely the case, and if so, is never continuous.
- 8) The average ground level of the studied area does not change significantly with respect to the transmitting location

Equations given in "FCC OET Bulletin 65, Edition 97-01" were then used with the above information to perform the calculations.

3. Conclusion:

Based on the above worst case assumptions, the power density calculation from the T-Mobile PCS antenna installation on a Guyed Tower at 151 Waterbury Road, Prospect, CT, is 0.0327 mW/cm^2. This value represents 3.27% of the Maximum Permissible Exposure (MPE) standard of 1 milliwatt per square centimeter (mW/cm^2) set forth in the FCC/ANSI/IEEE C95.1-1991. Furthermore, the proposed antenna location for T-Mobile will not interfere with existing public safety communications, AM or FM radio broadcasts, TV, Police Communications, HAM Radio communications or any other signals in the area.

The combined Power Density from other carriers is 0.02%. The combined Power Density for the site is 3.29% of the M.P.E. standard.

New England Market	70 N/-1:1-
Connecticut	· · · Mobile ·
Worst Case Power Density	The state of the s
Site:	CTNH302A
Site Address:	151 Waterbury Road
Town:	Prospect
Tower Height:	150 ft.
Tower Style:	Guyed Tower
Base Station TX output	20 W
Number of channels	8
Antenna Model	APX16PV-16PV-2
Cable Size	1 5/8 in.
Cable Length	150 ft.
Antenna Height	130.0 ft.
Ground Reflection	1.6
Frequency	1935.0 MHz
Jumper & Connector loss	4.50 dB
Antenna Gain	17.8 dBi
Cable Loss per foot	0.0116 dB
Total Cable Loss	1.7400 dB
Total Attenuation	6.2400 dB
Total EIRP per Channel	54.57 dBm
(In Watts)	286.44 W
Total EIRP per Sector	63.60 dBm
(In Watts)	2291.50 W
nsg	11.5600
Power Density (S) =	0.032696 mW/cm^2
T-Mobile Worst Case % MPE =	3.2696%
S= $\frac{(1000)(grf)^2(Power)^*10^{(nsg10)}}{4\pi(R)^2}$	
Office of Engineering and Technology (OE	T) Bulletin 65, Edition 97-01, August 1997

Co-Locatio	n Total	
Carrier	% of Standard	
Verizon		
Cingular		
Sprint PCS		
AT&T Wireless	0.0200 %	
Nextel		
Total Excluding T-Mobile	0.0200 %	
T-Mobile	3.2696	
Total % MPE for Site	3.2896%	