

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

www.ct.gov/csc

September 6, 2006

Karina Fournier

T-Mobile

30 Cold Springs Road

Rocky Hill, CT 06067

RE: **TS-T-MOBILE-014-060817** - Omnipoint Communications, Inc. request for an order to approve tower sharing at an existing telecommunications facility located at 405 Brushy Plain Road, Branford, Connecticut.

Dear Ms. Fournier:

At a public meeting held August 31, 2006, 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 with the condition that the modifications recommended on page 2 of the structural analysis report sealed by Jaime Reyes, P.E. are performed prior to the antenna installation and that a signed letter from a Professional Engineer is submitted to the Council to certify that the modifications have been properly completed. 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.

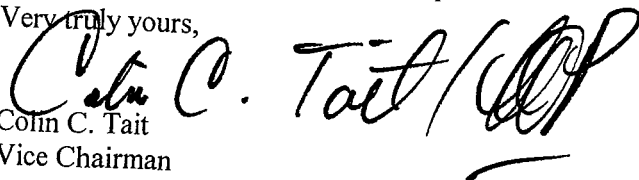
This decision is under the exclusive jurisdiction of the Council. Any additional change to this facility may require an explicit request to this agency pursuant to General Statutes § 16-50aa or notice pursuant to Regulations of Connecticut State Agencies Section 16-50j-73, as applicable. Such request 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 August 17, 2006, including the placement of all necessary equipment and shelters within the tower compound.

Thank you for your attention and cooperation.

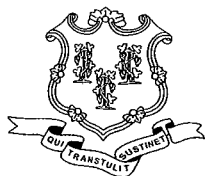
Very truly yours,



Colin C. Tait
Vice Chairman

CCT/MP/laf

- c: The Honorable Cheryl P. Morris, First Selectman, Town of Branford
- Justine K. Gillen, Zoning Enforcement Officer, Town of Branford
- American Tower Corporation
- Christopher B. Fisher, Esq., Cuddy & Feder LLP
- Michele G. Briggs, New Cingular Wireless PCS, LLC
- Kenneth C. Baldwin, Esq., Robinson & Cole LLP



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

E-Mail: siting.council@ct.gov

www.ct.gov/csc

August 22, 2006

The Honorable Cheryl P. Morris
First Selectman
Town of Branford
Town Hall
1019 Main Street
P. O. Box 150
Branford, CT 06405-0150

RE: **TS-T-MOBILE-014-060817** - Omnipoint Communications, Inc. request for an order to approve tower sharing at an existing telecommunications facility located at 405 Brushy Plain Road, Branford, Connecticut.

Dear Ms. Morris:

The Connecticut Siting Council (Council) received this request for tower sharing, pursuant to Connecticut General Statutes § 16-50aa.

The Council will consider this item at the next meeting scheduled for August 31, 2006 at 1:30 p.m. in Hearing Room One, Ten Franklin Square, New Britain, Connecticut.

If you have any questions or comments regarding this proposal, please call me or inform the council by August 30, 2006.

Thank you for your cooperation and consideration.

Very truly yours,

S. Derek Phelps
Executive Director

SDP/ap

Enclosure: Notice of Tower Sharing

c: Justine K. Gillen, Zoning Enforcement Officer, Town of Branford

Branford American Tower

As shown on the enclosed plans prepared by including a site plan and tower elevation of the August 15, 2006, 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 six (6) antennas at the one hundred forty (140) 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 Branford American Tower satisfies the approval criteria set forth in C.G.S. § 16-50aa as follows:

- A. Technical Feasibility 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, with structural modifications, the tower can safely accommodate the proposed T-Mobile antennas. The proposed shared use of this Tower is technically feasible. Further there is sufficient room at the base of the facility, thus the site plan will not have to be altered.
- B. Legal Feasibility Pursuant to C.G.S. § 16-50aa, the Council has been authorized to issue an order approving shared use of the existing Spectrasite Hartford (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. Environmental Feasibility The proposed shared use would have a minimal environmental effect, for the following reasons:

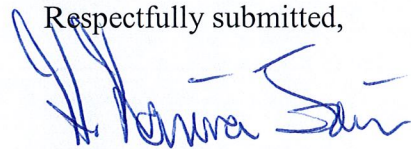
- 1.) The proposed installation would have a de minimis visual impact, and would not cause any significant change or alteration in the physical or environmental characteristics of the existing facility,
 - 2.) The proposed installation by T-Mobile would not increase the height of the tower nor expand the site plan at the Branford American Tower 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 T-Mobile would be approximately 33.7% of the standard. See Radio Frequency Memo dated August 17, 2006, annexed hereto as Exhibit 3.
 - 5.) The proposed shared use of the Branford American Tower 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. Economic Feasibility The Applicant and the tower owner have agreed to share use of the Branford American Tower 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 Branford area through shared use of the Branford American Tower 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

Branford American Tower 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 Branford American Tower.

Respectfully submitted,



Karina Fournier
Zoning Dept.
T-Mobile
30 Cold Spring Road
Rocky Hill, CT 06067
(860) 796-3988

cc: First Selectman, Cheryl P. Morris

Exhibit 1

BRANFORD AMERICAN TOWER

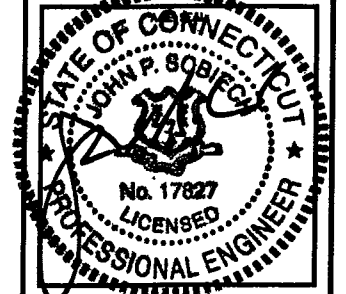
405 BRUSHY PLAIN ROAD
BRANFORD, CT 06405

SITE NUMBER: CTNH102C

SITE TYPE: CO-LOCATE

OMNIPOINT COMMUNICATIONS, INC.
A WHOLLY-OWNED SUBSIDIARY OF T-MOBILE USA, INC.
100 FILLEY STREET
BLOOMFIELD, CT 06002
OFFICE: (860)-892-7100
FAX: (860)-892-7159

CHA
CLOUGH HARBOUR & ASSOCIATES LLP
2130 Blue Plains Highway, Suite 212 - Rocky Hill, CT 06067-2208
Phone: (860) 267-4857 - www.chaengineer.com



APPROVALS

LANDLORD _____

LEASING _____

R.F. _____

ZONING _____

CONSTRUCTION _____

A/E _____

PROJECT NO: 10585-1135

DRAWN BY: PAL

CHECKED BY: FM

SUBMITTALS		
NO.	DATE	DESCRIPTION
1	06/15/06	CONSTRUCTION FINAL
0	06/06/06	CONSTRUCTION

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**CTNH102C
BRANFORD
AMERICAN TOWER**
405 BRUSHY PLAIN ROAD
BRANFORD, CT 06405

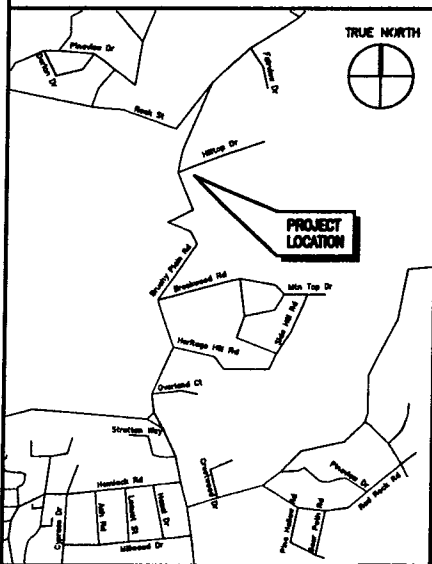
SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1

GENERAL NOTES

- THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK. THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES.
- THE ARCHITECT/ENGINEER HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. THE CONTRACTOR BEARING THE JOB IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.
- THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE PROJECT OWNER'S REPRESENTATIVE OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK. IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL PRIORITIZE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED IN WRITING OTHERWISE.
- THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR AND ALL OTHER MATERIALS AND LABOR DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED HEREIN.
- THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK TO FAMILIARIZE HIMSELF WITH THE FIELD CONDITIONS AND TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL OBTAIN AUTHORIZATION FROM THE PROJECT OWNER'S REPRESENTATIVE TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS / CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S / VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
- THE CONTRACTOR SHALL PROVIDE A FULL SET OF CONSTRUCTION DOCUMENTS AT THE SITE UPDATED WITH THE LATEST REVISIONS AND ADDENDUMS OR CLARIFICATIONS AVAILABLE FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY CONSTRUCTION CONTROL SURVEYS, ESTABLISHING AND MAINTAINING ALL LINES AND GRADES REQUIRED TO CONSTRUCT ALL IMPROVEMENTS AS SHOWN HEREIN.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY.
- THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBS, 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.
- THE CONTRACTOR SHALL KEEP THE GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR BLDGES OF ANY NATURE.
- THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
- THE CONTRACTOR SHALL NOTIFY THE PROJECT OWNER'S REPRESENTATIVE WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DOCUMENTS. THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONFLICT UNLESS CONFLICT IS RESOLVED BY THE LESSEE/LICENSEE REPRESENTATIVE.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
- ALL UNDERGROUND UTILITY INFORMATION WAS DETERMINED FROM SURFACE INVESTIGATIONS AND 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 72-HOURS PRIOR TO ANY EXCAVATION ACTIVITY:
D&D SAFE SYSTEM (MA, ME, NH, RI, VT): 1-888-344-7233
CALL BEFORE YOU DIG (CT): 1-800-822-4486

VICINITY MAP SCALE: 1" = 1,000'



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.

SHEET INDEX

SHT. NO.	DESCRIPTION	REV. NO.
T-1	TITLE SHEET	1
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S-1	STRUCTURAL NOTES, PLANS, SECTIONS & DETAILS	1
E-1	ELECTRICAL NOTES, RISERS & DETAILS	1
E-2	GROUNDING DETAILS	1

PROJECT SUMMARY

SITE NUMBER: CTNH102C

SITE NAME: BRANFORD AMERICAN TOWER

SITE ADDRESS: 405 BRUSHY PLAIN ROAD
BRANFORD, CT 06405

ASSESSOR'S PARCEL NO.: MAP: D02
BLOCK: 3
LOT: 1

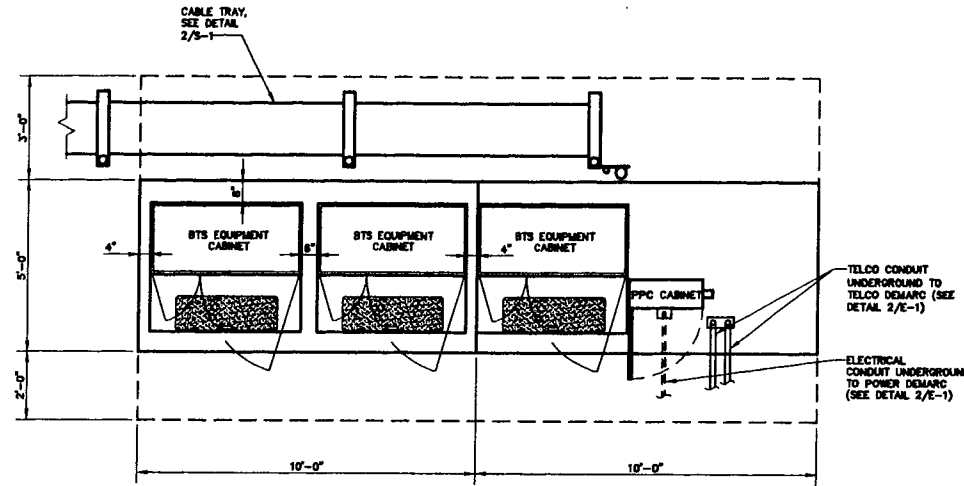
ZONING DISTRICT: R-4

SITE TYPE: CO-LOCATE

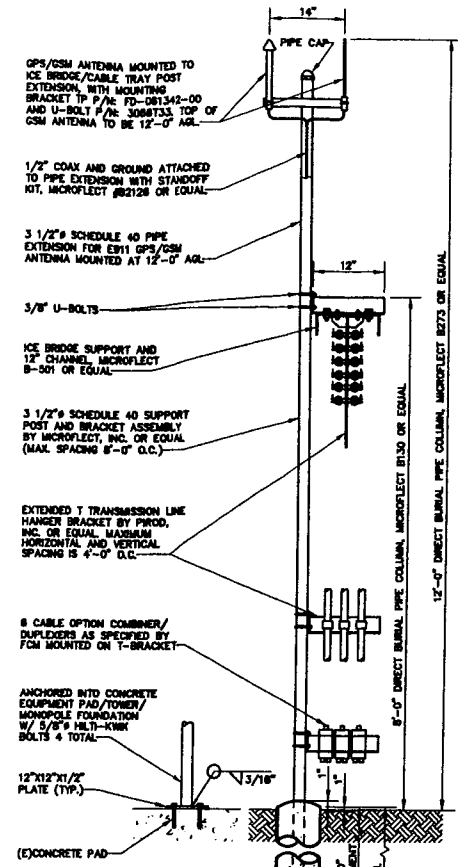
STRUCTURE OWNER: SPECTRASITE AAT
153 NORTHBOROUGH ROAD, SUITE 21
SOUTHBOROUGH, MA 01772
CONTACT: STEVE KINGWELL
PHONE: (781) 928-4874

PROPERTY OWNER: EDWARD & KRISTIN JACONETTE
405 BRUSHY PLAIN ROAD
BRANFORD, CT 06405

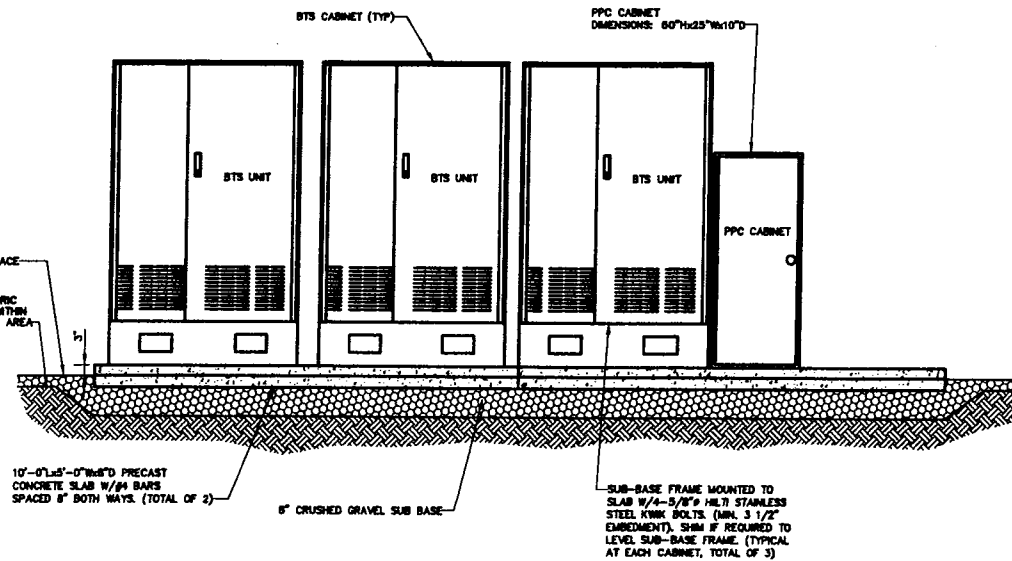
APPLICANT, LESSEE/LICENSEE, PROJECT OWNER: OMNIPOINT COMMUNICATIONS, INC.
100 FILLEY STREET
BLOOMFIELD, CT 06002



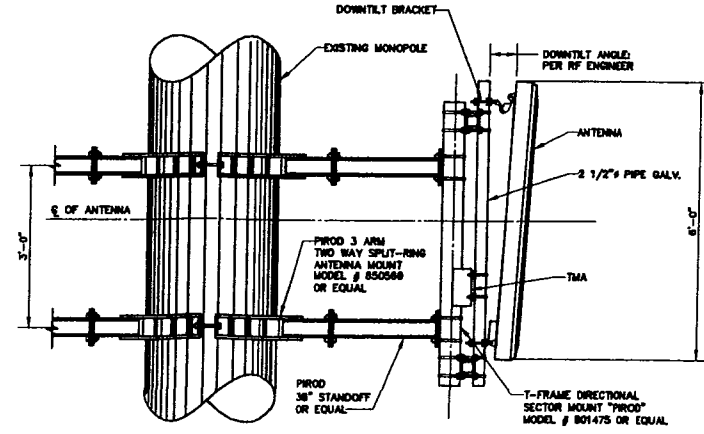
EQUIPMENT SLAB LAYOUT
NO SCALE



PROFILE AT CABLE BRIDGE
NO SCALE



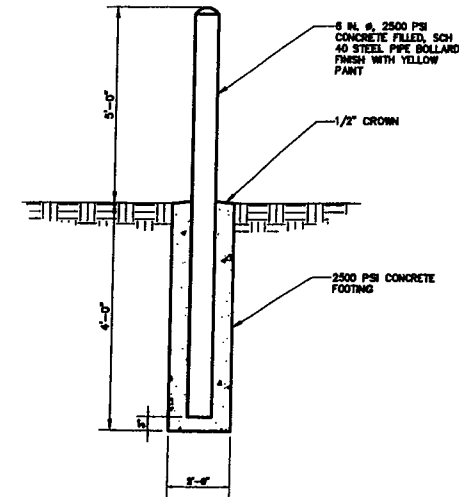
EQUIPMENT SLAB LAYOUT
NO SCALE



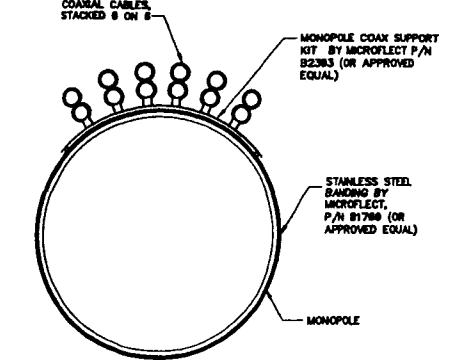
ANTENNA MOUNTING DETAIL
NO SCALE

STRUCTURAL NOTES:

- DESIGN REQUIREMENTS ARE PER STATE BUILDING CODE AND APPLICABLE SUPPLEMENTS, AHS/ASCE7, GA/11A-222-F STRUCTURAL STANDARDS FOR STEEL ANTENNA SUPPORTING STRUCTURES.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO FABRICATION AND ERECTION OF ANY MATERIAL. ANY UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ATTENTION OF THE CONSTRUCTION MANAGER.
- DESIGN AND CONSTRUCTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
- STRUCTURAL AND MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A572 STRUCTURAL STEEL UNLESS OTHERWISE NOTED.
- STEEL PIPE SHALL CONFORM TO ASTM A500 "COLD-FORMED WELDED & SEAMLESS CARBON STEEL STRUCTURAL TUBING", GRADE A, OR ASTM A53 PIPE STEEL, BLACK AND HOT-DIPPED ZINC-COATED WELDED AND SEAMLESS TYPE E OR S, GRADE B. PIPE SIZES INDICATED ARE NOMINAL. ACTUAL OUTSIDE DIAMETER IS LARGER.
- STRUCTURAL CONNECTION BOLTS SHALL BE HIGH STRENGTH BOLTS (BEARING TYPE) AND CONFORM TO ASTM A325 "HIGH STRENGTH BOLTS FOR STRUCTURAL JOINTS, INCLUDING SUITABLE NUTS AND PLAIN HARDENED WASHERS". ALL BOLTS SHALL BE 5/8" DIA UNLESS OTHERWISE NOTED.
- ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS OTHERWISE NOTED.
- ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT-DIP) ON IRON AND STEEL HARDWARE", UNLESS OTHERWISE NOTED.
- FIELD WELDS, DRILL HOLES, SAW CUTS AND ALL DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED WITH AN ORGANIC ZINC REPAIR PAINT COMPLYING WITH REQUIREMENTS OF ASTM A780. GALVANIZING REPAIR PAINT SHALL HAVE 85 PERCENT ZINC BY WEIGHT, ZINC BY DRYING GALVANIZING, GALV. BRIGHT PREPARATION BY CROWN OR EQUAL THICKNESS OF APPLIED GALVANIZING REPAIR PAINT SHALL BE NOT LESS THAN 4 COATS (ALLOW TIME TO DRY BETWEEN COATS) WITH A RESULTING COATING THICKNESS REQUIRED BY ASTM A123 OR A153 AS APPLICABLE.
- CONTRACTOR SHALL COMPLY WITH AISC CODE FOR PROCEDURES, APPEARANCE AND QUALITY OF WELDS, AND FOR METHODS USED IN CORRECTING WELDING. ALL WELDERS AND WELDING PROCESSES SHALL BE QUALIFIED IN ACCORDANCE WITH AISC "STANDARD QUALIFICATION PROCEDURES". ALL WELDING SHALL BE DONE USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND ALL WELDED JOINTS SHALL BE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE 2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION", 8TH EDITION.
- INCORRECTLY FABRICATED, DAMAGED OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE CONSTRUCTION MANAGER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE CONSTRUCTION MANAGER APPROVAL.
- UNISTRUTS SHALL BE FORMED STEEL CHANNEL SHIRT FRAMING AS MANUFACTURED BY UNISTRUT CORP, WAYNE, MI OR EQUAL. SHIRT MEMBERS SHALL BE 1 5/8"X1 5/8"X12GA, UNLESS OTHERWISE NOTED, AND SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.
- EPOXY ANCHOR ASSEMBLY SHALL CONSIST OF 1/2" DIAMETER STAINLESS STEEL ANCHOR ROD WITH NUTS & WASHERS, AN INTERNALLY THREADED INSERT, A SORBEEN TUBE AND A EPOXY ADHESIVE. THE ANCHORING SYSTEM SHALL BE 4-1/4" MIN. EMBEDMENT DEPTH, UNLESS NOTED OTHERWISE.
- EXPANSION BOLTS SHALL CONFORM TO FEDERAL SPECIFICATION FF-S-325, GROUP B, TYPE A, CLASS I H.L.T. KWIK BOLT II OR APPROVED EQUAL. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MINIMUM EMBEDMENT SHALL BE THREE AND ONE HALF (3 1/2) INCHES.
- GRAVEL SUB-BASE AND CONCRETE SHALL BE PLACED AGAINST UNDISTURBED SOIL.
- ALL CONCRETE FOR FENCE AND ICE BRIDGE SUPPORT SHALL BE 3000 PSI AIR ENTRAINED (45-55) NORMAL WEIGHT CONCRETE.
- ALL CAST IN PLACE CONCRETE SHALL BE MIXED AND PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318 AND ACI 301.
- THE FOLLOWING MINIMUM CONCRETE COVER OVER REINFORCING STEEL SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:
CONCRETE CAST AGAINST EARTH ... 3 INCHES.
CONCRETE EXPOSED TO EARTH OR WATER #8 AND LARGER ... 2 INCHES
#6 AND SMALLER ... 1 1/2 INCHES
- ALL EXPOSED EDGES SHALL BE PROVIDED WITH A 3/4"x3/4" CHAMFER UNLESS OTHERWISE NOTED.
- LUMBER SHALL COMPLY WITH THE REQUIREMENTS OF THE AMERICAN INSTITUTE OF WOOD CONSTRUCTION AND THE NATIONAL FOREST PRODUCTS ASSOCIATION'S NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION. ALL LUMBER SHALL BE PRESSURE TREATED AND SHALL BE STRUCTURAL GRADE NO. 2 OR BETTER.



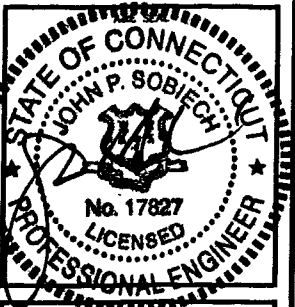
BOLLARD DETAIL
NO SCALE



MONOPOLE CABLE MOUNT
NO SCALE

OMNIPPOINT COMMUNICATIONS, INC.
A WHOLLY-OWNED SUBSIDIARY OF T-MOBILE USA, INC.
100 FILLEY STREET
BLOOMFIELD, CT 06002
OFFICE: (860)-692-7100
FAX: (860)-692-7159

CHA
CLOUGH HARBOUR & ASSOCIATES LLP
2130 Blue Plains Highway, Suite 212 - Reddy Hill, CT 06072-2238
Tel: (860) 287-4887 - www.cloughharbour.com



LANDLORD _____
LEASING _____
R.F. _____
ZONING _____
CONSTRUCTION _____
A/E _____

PROJECT NO: 10585-1135

DRAWN BY: PAL

CHECKED BY: PMP

SUBMITTALS		
NO.	DATE	DESCRIPTION
1	08/15/08	CONSTRUCTION FINAL
0	08/06/08	CONSTRUCTION

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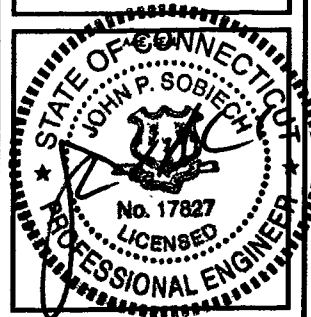
CTNH102C
BRANFORD
AMERICAN TOWER
405 BRUSHY PLAIN ROAD
BRANFORD, CT 06405

SHEET TITLE
STRUCTURAL NOTES, PLANS, SECTIONS & DETAILS

SHEET NUMBER
S-1

OMNIPPOINT COMMUNICATIONS, INC.
 A WHOLLY-OWNED SUBSIDIARY OF T-MOBILE USA, INC.
 100 FILLEY STREET
 BLOOMFIELD, CT 06002
 OFFICE: (860)-692-7100
 FAX: (860)-692-7159

CHA
 CLOWNH HARBOUR & ASSOCIATES LLP
 2130 West Ocean Highway, Suite 212 - Rocky Hill, CT 06067-2338
 Main (860) 257-4827 • www.chaharbour.com



APPROVALS

LANDLORD _____

LEASING _____

R.F. _____

ZONING _____

CONSTRUCTION _____

A/E _____

PROJECT NO: 10585-1135

DRAWN BY: A/JM

CHECKED BY: C/M

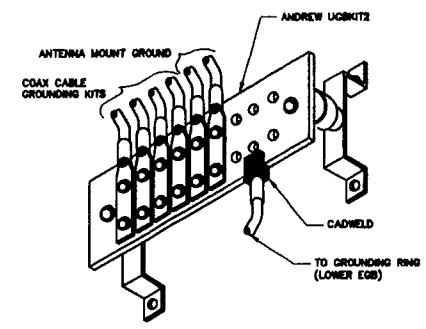
SUBMITTALS		
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0	08/08/08	CONSTRUCTION

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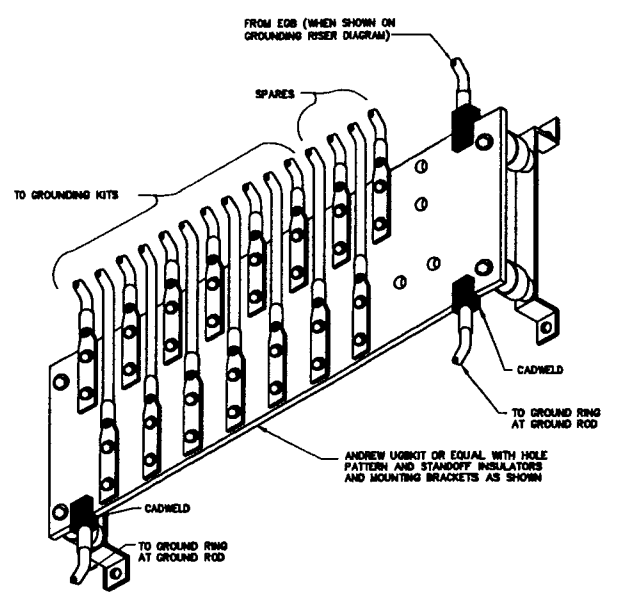
**CTNH102C
 BRANFORD
 AMERICAN TOWER**
 405 BRUSHY PLAIN ROAD
 BRANFORD, CT 06405

SHEET TITLE
**GROUNDING
 DETAILS**

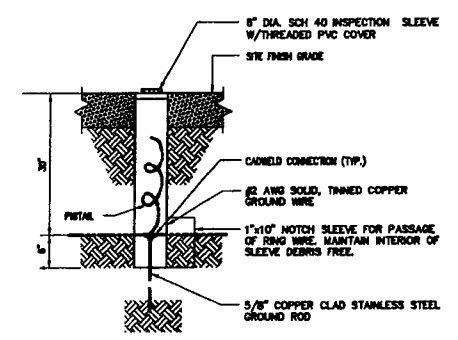
SHEET NUMBER
E-2



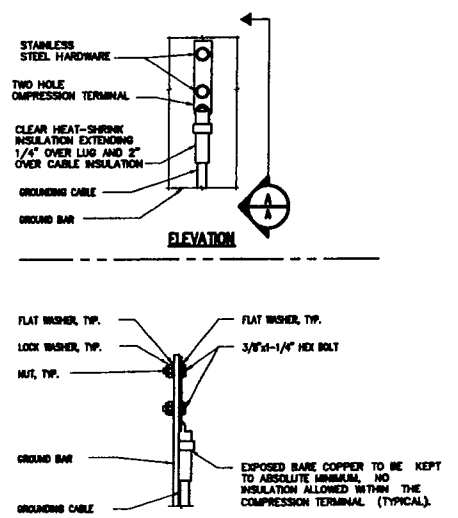
EQUIPMENT GROUND BAR (EGB)
 NO SCALE (1) E-2



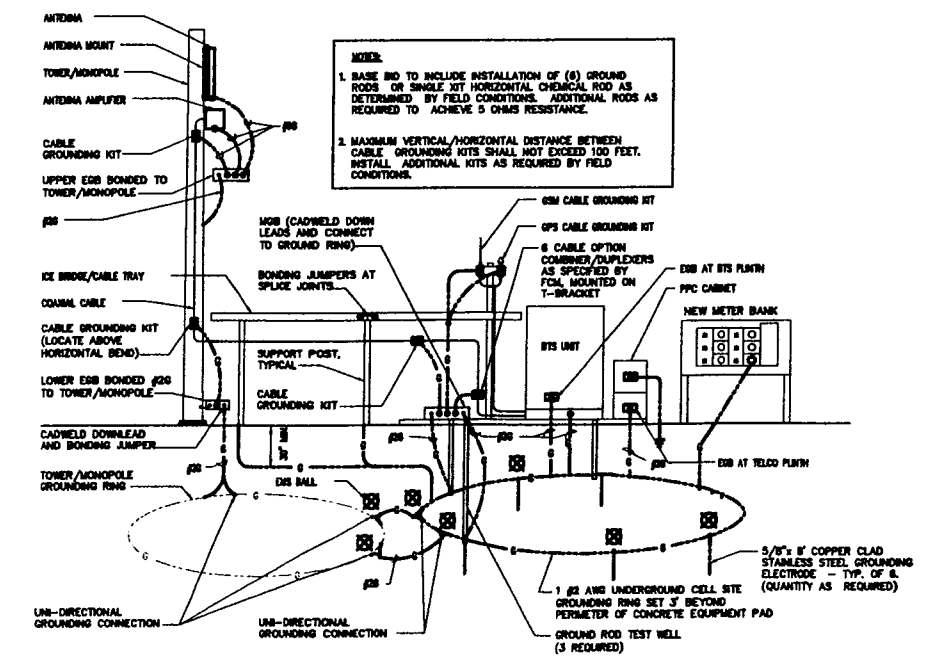
MASTER GROUND BAR (MGB)
 NO SCALE (2) E-2



GROUND ROD TEST WELL DETAIL
 NO SCALE (3) E-2



TYPICAL GROUND BAR CONNECTIONS DETAIL
 NO SCALE (4) E-2



GROUNDING RISER DIAGRAM
 NO SCALE (5) E-2

FILE: S:\104888\CTNH102C\BRANFORD\AMERICAN TOWER\10585-1135.ctb DATE: 8/14/2008 8:00:00 PM PLOTDATE: 8/14/2008 8:28:23 PM USER: JPM, Manager

Exhibit 2



AMERICAN TOWER™
CORPORATION

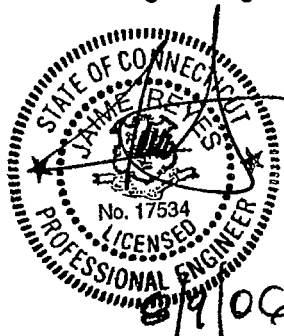
Structural Analysis Report

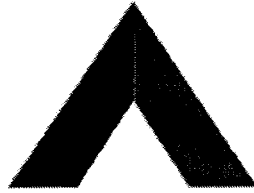
Structure : 150 ft. ITT Meyer monopole
ATC Site Name : Branford CT 6, CT
ATC Site Number : 302484
Proposed Carrier : T-Mobile
Carrier Site Name : Branford American Tower
Carrier Site Number : CTNH102C
County : New Haven
Eng. Number : 26487323
Date : August 9, 2006
Usage : 152.9% (Pole shaft)

Submitted by:
Robert Keith
Project Engineer

American Tower Engineering Services
8505 Freeport Parkway
Suite 135
Irving, TX 75063
Phone: 972-999-8900

Reviewed by:
Jaime Reyes, P.E.
Director of Engineering





AMERICAN TOWER™
CORPORATION

Structural Analysis Report

Structure : 150 ft. ITT Meyer monopole
ATC Site Name : Branford CT 6, CT
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Director of Engineering

American Tower Engineering Services
8505 Freeport Parkway
Suite 135
Irving, TX 75063
Phone: 972-999-8900

Introduction

The purpose of this report is to summarize results of the structural analysis performed on the 150 ft. ITT Meyer monopole located at Branford CT 6, CT, New Haven County (ATC site# 302484). The tower was originally designed by Paul J. Ford and Company (Job# 29297-629, dated Oct 2, 1997) and manufactured by ITT Meyer (Type "B" per AT&T Spec dated April 13, 1984). The pole base has been modified per SpectraSite Modification Drawing CT-0020 M1.

Analysis

The tower was analyzed using Semaan Engineering Solutions, Inc., Software. The analysis assumes that the tower is in good, undamaged, and non-corroded condition. A 5% overstress is allowed in the existing structural members to account for program variances.

Basic Wind Speed: 90.0 mph (Fastest Mile) / 110.0 mph (3-Second Gust)
 Radial Ice: 77.9 mph (Fastest Mile) w/ 1/2" ice
 Code: TIA/EIA-222 Rev F / 2005 Connecticut Supplement to the International Building Code 2003

Antenna Loads

The following antenna loads were used in the tower analysis:

Existing Antennas

Elev. (ft)	Qty	Antennas	Mount	Coax	Carrier
156.0	2	Decibel DB408	Platform w/ Rails	(2) 7/8	Town of Branford
	1	4' Omni		(1) 1 5/8	USA Mobility
	1	GPS		(1) 1/2	Verizon
153.0	6	CSS DUO1417-8686		(9) 1 1/4	Cingular
	6	Clargain TMD1900		-	
113.0	6	Decibel DB844H90E		(3) T-Arm	(6) 1 1/4
	3	DB932DG90E-M		(6) 1 1/4	
93.0	1	10' Dipole	(1) Standoff	(1) 7/8	Town of Branford
15.0	1	Channel Master 1.2 M Dish	Dish Mount	(1) RG6	USA Mobility

Proposed Antennas

Elev. (ft)	Qty	Antennas	Mount	Coax	Carrier
140.0	6	RFS APX16PV-16PVL-E	(3) T-Arm	(12) 1 5/8	T-Mobile
	6	Remec G20057A1 TMA		-	

Install proposed coax on outside of monopole, stacked in two rows 6-on-6.

Results

The existing 150 ft. ITT Meyer monopole with the existing and the proposed antennas is NOT structurally acceptable per TIA/EIA-222 Rev F standards. The following structural members are overstressed:

- Pole shaft from 0' to 115' – 52.9% maximum overstress
- Anchor bolts – 38.0% maximum overstress

The maximum structure usage is: 152.9 % (Pole shaft).

Additional exit and/or entry ports may be required to accommodate the running of the proposed lines to the proposed antennas. These additional ports **may not** be installed without installation drawings providing the location, size and welding requirements of each port.

To ensure compliance with all conditions of this structural analysis, port installation drawings shall be provided by American Tower's Engineering Department under a subsequent project.

Pole Reactions	Original Design Reactions	Current Analysis Reactions	% Of Design
Moment (ft-kips)	3101.5	2526.7	81.5
Shear (kips)	33.0	25.9	78.5

The structure base reactions resulting from this analysis are acceptable when compared to the original reactions.

Modifications

We recommend the following structural modifications:

- Reinforce the pole shaft from 0' to 115'.
- Install additional anchor bolts.

Final design and details of the required modifications will be a separate scope of work under a subsequent project.

Eng. Number 26487323

August 9, 2006

Page 3

Conclusion

Based on the analysis results, the structure does not meet the requirements per TIA/EIA-222 Rev F and 2005 Connecticut Supplement to the 2003 IBC standards. However, the tower and foundation can support the existing and proposed equipment after the modifications listed above are completed.

If you have any questions or require additional information, please call 972-999-8900.

Standard Conditions

All engineering services are performed on the basis that the information used is current and correct. This information may consist of, but is not necessary limited, to:

- Information supplied by the client regarding the structure itself, the antenna and feed line loading on the structure and its components, or other relevant information.

- Information from drawings in the possession of American Tower Corporation, or generated by field inspections or measurements of the structure.

It is the responsibility of the client to ensure that the information provided to ATC Engineering Services and used in the performance of our engineering services is correct and complete. In the absence of information to the contrary, we assume that all structures were constructed in accordance with the drawings and specifications and are in an un-corroded condition and have not deteriorated; and we, therefore, assume that their capacity has not significantly changed from the "as new" condition.

All services will be performed to the codes specified by the client, and we do not imply to meet any other codes or requirements unless explicitly agreed in writing. If wind and ice loads or other relevant parameters are to be different from the minimum values recommended by the codes, the client shall specify the exact requirement. In the absence of information to the contrary, all work will be performed in accordance with the latest relevant revision of ANSI/EIA-222.

All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. ATC Engineering Services is not responsible for the conclusions, opinions and recommendations made by others based on the information we supply.

Job Information	
Pole :	302484
Code:	TIA/EIA-222 Rev F
Description :	150 ft. ITT Meyer monopole
Client :	T-Mobile
Location :	Branford CT 6, CT
Shape :	12 Sides
Base Elev (ft):	0.00
Height :	150.00 (ft)
Taper:	0.156705(in/ft)

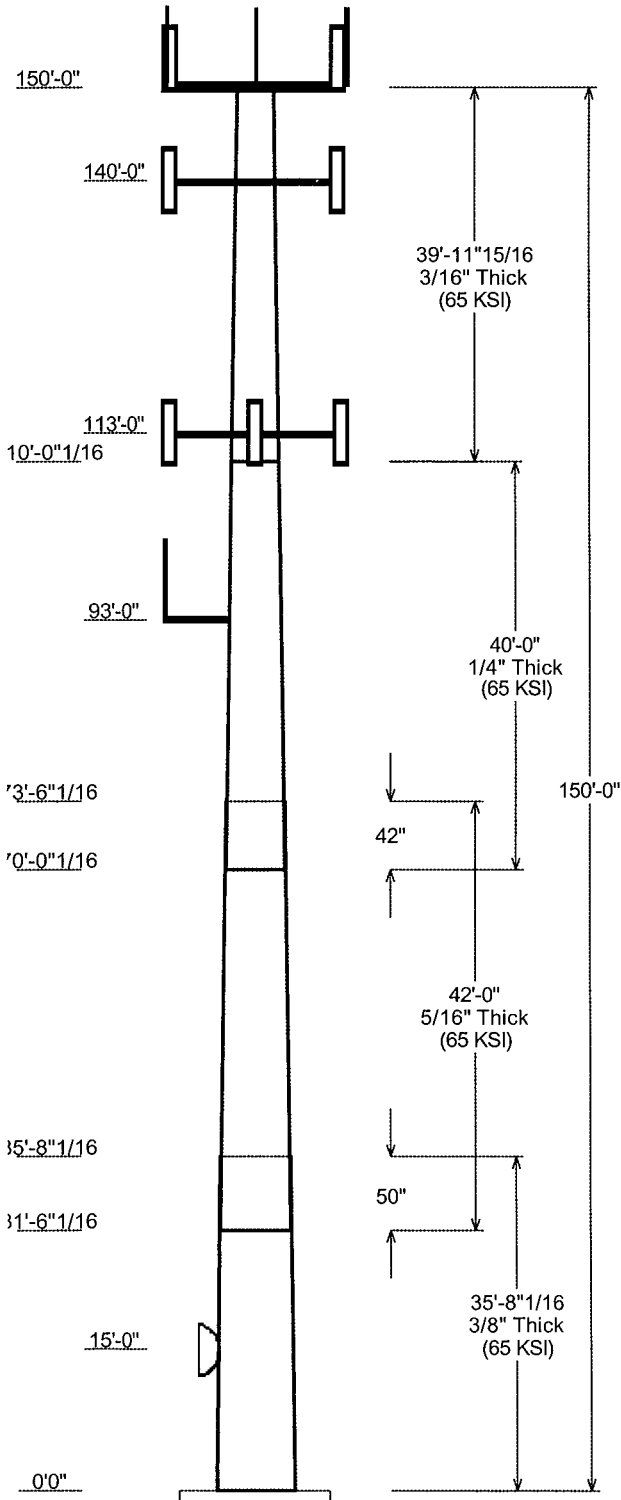
Sections Properties							
Shaft Section	Length (ft)	Diameter (in)		Thick (in)	Joint Type	Overlap Length (in)	Steel Taper Grade (ksi)
		Across Top	Flats Bottom				
1	35.670	31.79	37.38	0.375		0.000	0.156705 65
2	42.000	26.48	33.06	0.313	Slip Joint	50.000	0.156705 65
3	40.000	21.26	27.53	0.250	Slip Joint	42.000	0.156705 65
4	39.997	15.00	21.26	0.188	Butt Joint	0.000	0.156705 65

Discrete Appurtenance			
Attach Elev (ft)	Force Elev (ft)	Qty	Description
150.000	154.710	2	Decibel DB408
150.000	150.000	6	Cleargain TMD1900
150.000	153.000	6	CSS DUO1417-8686
150.000	156.000	1	GPS
150.000	156.000	1	4' Omni
150.000	150.000	1	Platform w/ Rails
140.000	140.000	3	T-Arm
140.000	140.000	6	Remec G20057A1 TMA
140.000	140.000	6	RFS APX16PV-16PVL-E
113.000	113.000	3	T-Arm
113.000	113.000	3	DB932DG90E-M
113.000	113.000	6	Decibel DB844H90E
93.000	93.000	1	Standoff
93.000	97.710	1	10' Dipole
15.000	15.000	1	Channel Master 1.2 M Dish

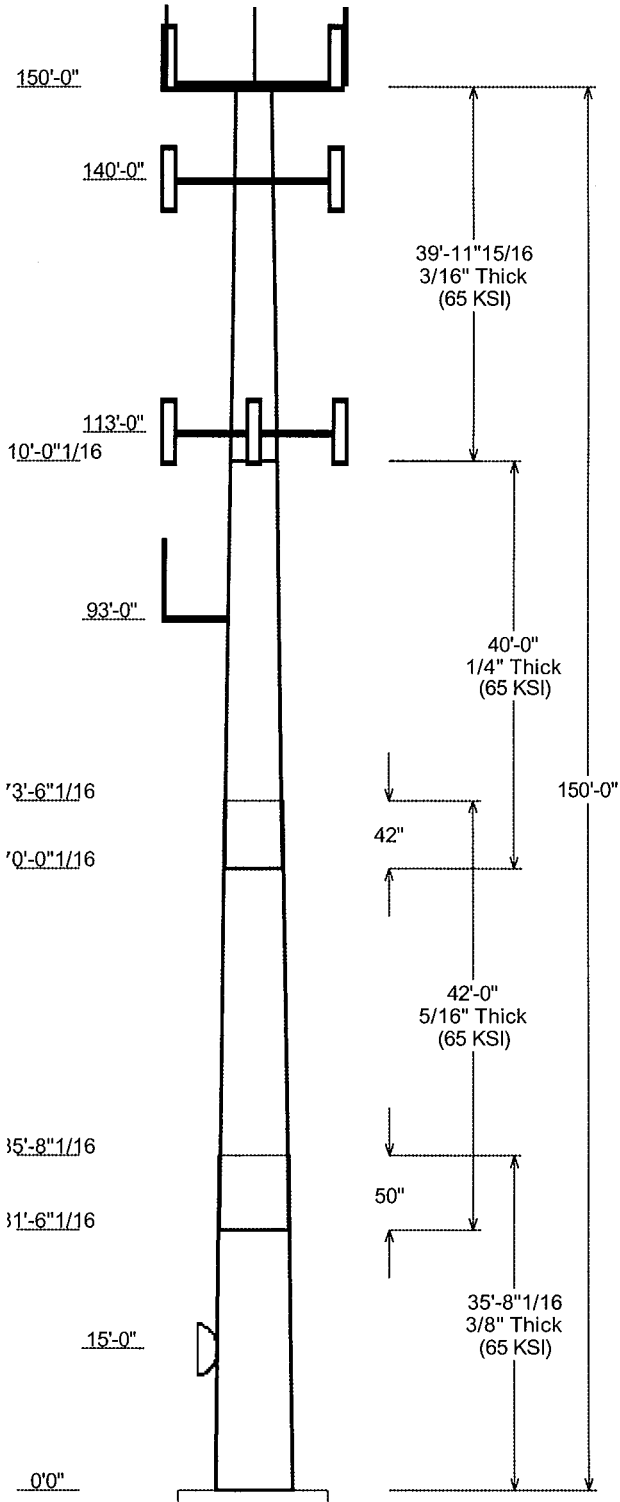
Linear Appurtenance			
Elev (ft) From	To	Description	Exposed To Wind
0.000	15.000	RG6	No
0.000	93.000	7/8" Coax	No
0.000	113.0	1 1/4" Coax	No
0.000	140.0	1 5/8" Coax	Yes
0.000	150.0	1 1/4" Coax	No
0.000	150.0	1 5/8" Coax	No
0.000	150.0	1/2" Coax	No
0.000	150.0	7/8" Coax	No

Load Cases	
No Ice	90.00 mph Wind with No Ice
Ice	77.94 mph Wind with Ice
Twist/Sway	50.00 mph Wind with No Ice

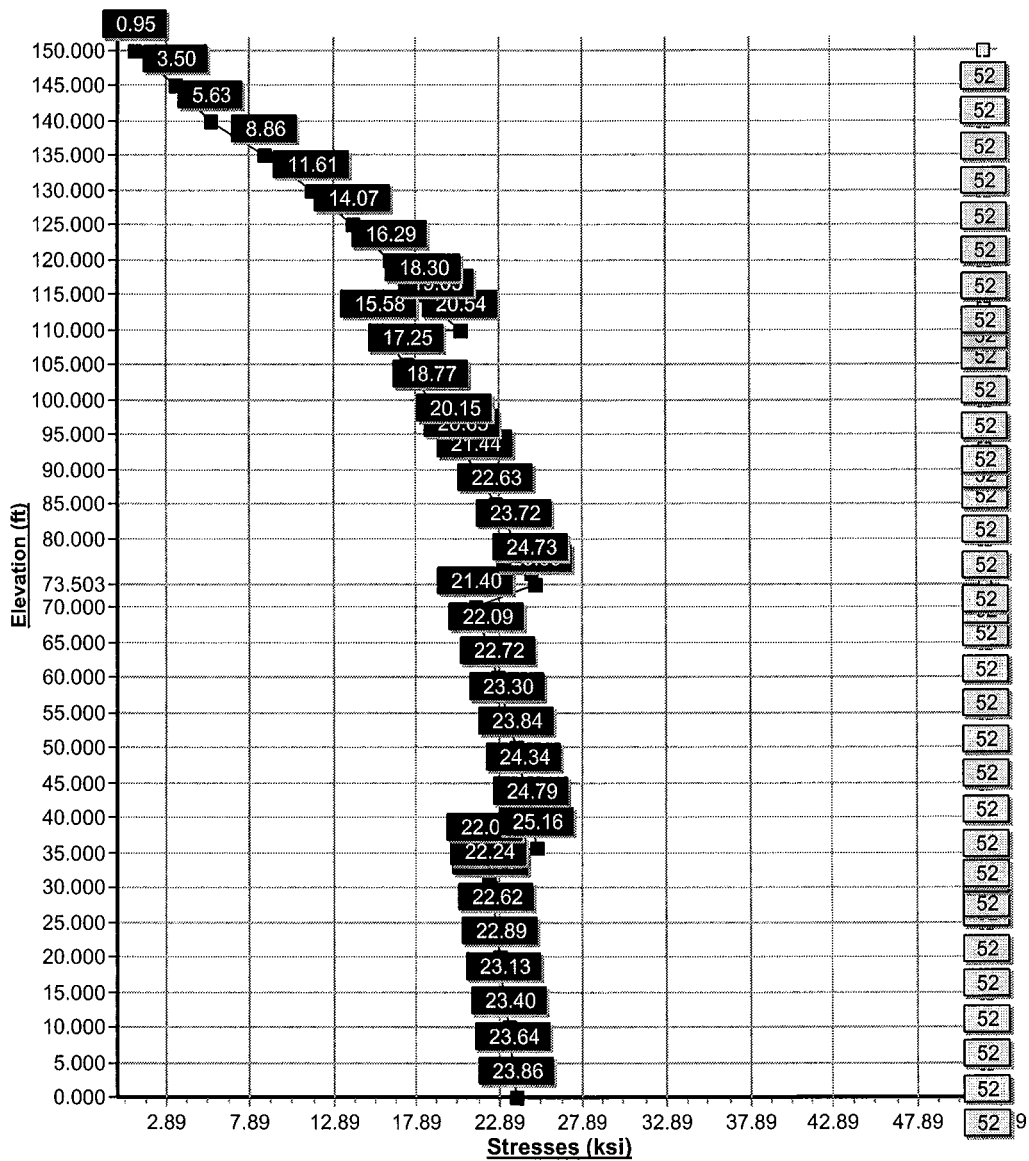
Reactions			
Load Case	Moment (Kip-ft)	Shear (Kips)	Axial (Kips)
No Ice	2526.69	25.88	21.80
Ice	2310.18	22.35	29.49
Twist/Sway	785.94	7.99	21.89



Dish Deflections			
Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)
Twist/Sway	15.00	0.666	0.423



Load Case : Twist/Sway
Max Stress 48.4% at 35.7ft



Height: 150.0 (ft)
 Shape: 12 Sides
 Base Dia: 37.38 (in)
 Top Dia: 15.00 (in)
 Taper: 0.155702 (in/ft)

Base Elev: 0.000 (ft)



Load Case: Ice

77.94 mph Wind with ice

30 Iterations

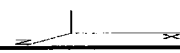
Qual Response Factor: 1.65
 Dead Load Factor: 1.00
 Wind Load Factor: 1.00

Applied Segment Forces Summary

Seg Elev (ft)	Lateral Fx (lb)	Axial Fy (lb)	Tension Fz (lb-ft)	Moment Mx (lb-ft)
150.00	0.000000	0.000000	0.000000	0.000000
148.00	0.000000	0.000000	0.000000	0.000000
146.00	0.000000	0.000000	0.000000	0.000000
144.00	0.000000	0.000000	0.000000	0.000000
142.00	0.000000	0.000000	0.000000	0.000000
140.00	0.000000	0.000000	0.000000	0.000000
138.00	0.000000	0.000000	0.000000	0.000000
136.00	0.000000	0.000000	0.000000	0.000000
134.00	0.000000	0.000000	0.000000	0.000000
132.00	0.000000	0.000000	0.000000	0.000000
130.00	0.000000	0.000000	0.000000	0.000000
128.00	0.000000	0.000000	0.000000	0.000000
126.00	0.000000	0.000000	0.000000	0.000000
124.00	0.000000	0.000000	0.000000	0.000000
122.00	0.000000	0.000000	0.000000	0.000000
120.00	0.000000	0.000000	0.000000	0.000000
118.00	0.000000	0.000000	0.000000	0.000000
116.00	0.000000	0.000000	0.000000	0.000000
114.00	0.000000	0.000000	0.000000	0.000000
112.00	0.000000	0.000000	0.000000	0.000000
110.00	0.000000	0.000000	0.000000	0.000000
108.00	0.000000	0.000000	0.000000	0.000000
106.00	0.000000	0.000000	0.000000	0.000000
104.00	0.000000	0.000000	0.000000	0.000000
102.00	0.000000	0.000000	0.000000	0.000000
100.00	0.000000	0.000000	0.000000	0.000000
98.00	0.000000	0.000000	0.000000	0.000000
96.00	0.000000	0.000000	0.000000	0.000000
94.00	0.000000	0.000000	0.000000	0.000000
92.00	0.000000	0.000000	0.000000	0.000000
90.00	0.000000	0.000000	0.000000	0.000000
88.00	0.000000	0.000000	0.000000	0.000000
86.00	0.000000	0.000000	0.000000	0.000000
84.00	0.000000	0.000000	0.000000	0.000000
82.00	0.000000	0.000000	0.000000	0.000000
80.00	0.000000	0.000000	0.000000	0.000000
78.00	0.000000	0.000000	0.000000	0.000000
76.00	0.000000	0.000000	0.000000	0.000000
74.00	0.000000	0.000000	0.000000	0.000000
72.00	0.000000	0.000000	0.000000	0.000000
70.00	0.000000	0.000000	0.000000	0.000000
68.00	0.000000	0.000000	0.000000	0.000000
66.00	0.000000	0.000000	0.000000	0.000000
64.00	0.000000	0.000000	0.000000	0.000000
62.00	0.000000	0.000000	0.000000	0.000000
60.00	0.000000	0.000000	0.000000	0.000000
58.00	0.000000	0.000000	0.000000	0.000000
56.00	0.000000	0.000000	0.000000	0.000000
54.00	0.000000	0.000000	0.000000	0.000000
52.00	0.000000	0.000000	0.000000	0.000000
50.00	0.000000	0.000000	0.000000	0.000000
48.00	0.000000	0.000000	0.000000	0.000000
46.00	0.000000	0.000000	0.000000	0.000000
44.00	0.000000	0.000000	0.000000	0.000000
42.00	0.000000	0.000000	0.000000	0.000000
40.00	0.000000	0.000000	0.000000	0.000000
38.00	0.000000	0.000000	0.000000	0.000000
36.00	0.000000	0.000000	0.000000	0.000000
34.00	0.000000	0.000000	0.000000	0.000000
32.00	0.000000	0.000000	0.000000	0.000000
30.00	0.000000	0.000000	0.000000	0.000000
28.00	0.000000	0.000000	0.000000	0.000000
26.00	0.000000	0.000000	0.000000	0.000000
24.00	0.000000	0.000000	0.000000	0.000000
22.00	0.000000	0.000000	0.000000	0.000000
20.00	0.000000	0.000000	0.000000	0.000000
18.00	0.000000	0.000000	0.000000	0.000000
16.00	0.000000	0.000000	0.000000	0.000000
14.00	0.000000	0.000000	0.000000	0.000000
12.00	0.000000	0.000000	0.000000	0.000000
10.00	0.000000	0.000000	0.000000	0.000000
8.00	0.000000	0.000000	0.000000	0.000000
6.00	0.000000	0.000000	0.000000	0.000000
4.00	0.000000	0.000000	0.000000	0.000000
2.00	0.000000	0.000000	0.000000	0.000000
0.00	0.000000	0.000000	0.000000	0.000000
Totals:	0.000000	0.000000	0.000000	0.000000

Height: 150.0 (ft)
 Shape: 12 Sides
 Base Dia: 37.38 (in)
 Top Dia: 15.00 (in)
 Spacing: 0.155705 (in/ft)

Base Elev: 0.000 (ft)



Analysis Summary

Load Case	Shear FX (kPa)	Shear FZ (kPa)	Reactions Axial FY (kPa)	Moment Mx (ft-kPa)	Moment My (ft-kPa)	Moment Mz (ft-kPa)	Combined Stress (ksi)	Allowable Stress (ksi)	Elev (ft)	Stress Ratio
No Ice	0.00	0.00	21.25	0.00	0.00	0.00	22.21	22.00	25.00	1.009
Wind/Sway	0.00	0.00	21.25	0.00	0.00	700.92	22.78	22.00	25.00	0.484

Additional Steel Summary

Elev (ft)	Elev (ft)	Len (ft)	Butt Weld Spacing (in)	Weld Size (in)	Fu (ksi)	Moment (ft-kPa)	Upper Terminal Weld Len (in)	Lower Terminal Weld Len (in)	Moment (ft-kPa)	Upper Terminal Weld Len (in)	Lower Terminal Weld Len (in)	Weld Len (in)	Max Stress (ksi)	Stress Ratio
0.00	0.00	0.00	0.00	0.000	0	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.0	0.0

Exhibit 3

Technical Memo

To: Karina Fournier
From: Farid Marbough - Radio Frequency Engineer
cc: Jason Overbey
Subject: Power Density Report for CTNH102C
Date: August 17, 2006

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 Monopole at 405 Brushy Plain Rd, Branford, 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 2 antennas per sector.
- 3) The model number for each antenna is RFS-APX16PV-16PVL-E.
- 4) The antenna center line height is 140 ft.
- 5) The maximum transmit power from any sector is 2353.53 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 Monopole at 405 Brushy Plain Rd, Branford, CT, is 0.02634 mW/cm². This value represents 2.634% of the Maximum Permissible Emission (MPE) standard of 1 milliwatt per square centimeter (mW/cm²) 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 31.06%. The combined Power Density for the site is 33.694% of the M.P.E. standard.

New England Market



Connecticut

Worst Case Power Density

Site:	CTNH102C
Site Address:	405 Brushy Plain Rd
Town:	Branford
Tower Height:	150 ft.
Tower Style:	Monopole
Base Station TX output	20 W
Number of channels	8
Antenna Model	RFS-APX16PV-16PVL-E
Cable Size	1 5/8 in.
Cable Length	140 ft.
Antenna Height	140.0 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	1.6240 dB
Total Attenuation	6.1240 dB
Total EIRP per Channel (In Watts)	54.69 dBm 294.19 W
Total EIRP per Sector (In Watts)	63.72 dBm 2353.53 W
nsg	11.6760
Power Density (S) =	0.026344 mW/cm^2
T-Mobile Worst Case % MPE =	2.6344%

Equation Used :

$$S = \frac{(1000(\text{grf})^2 (\text{Power}) * 10^{(\text{nsg}/10)})}{4 \pi (R)^2}$$

Office of Engineering and Technology (OET) Bulletin 65, Edition 97-01, August 1997

Co-Location Total

Carrier	% of Standard
Verizon	11.0200 %
Cingular	7.1000 %
Town Police Department	2.7500 %
Pagenet	10.1900 %
Total Excluding T-Mobile	31.0600 %
T-Mobile	2.6344
Total % MPE for Site	33.6944%