

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

Web Site: www.ct.gov/csc

March 18, 2004

Christine Farrell
Real Estate and Zoning
T-Mobile
100 Filley Street
Bloomfield, CT 06002

RE: **EM-T-MOBILE-155-040310** – Omnipoint Communications (T-Mobile) notice of intent to modify an existing telecommunications facility located at 3114 Albany Avenue, West Hartford, Connecticut.

Dear Ms. Farrell:

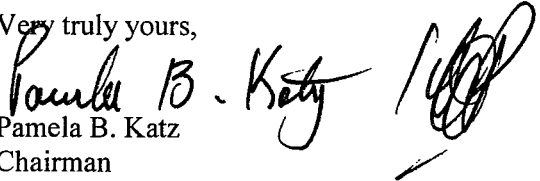
At a public meeting held on March 17, 2004, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated March 10, 2004. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

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

Thank you for your attention and cooperation.

Very truly yours,


Pamela B. Katz
Chairman

PBK/cm

c: Honorable Jonathan Harris, Mayor, Town of West Hartford
Mila Limson, Town Planner, Town of West Hartford
Christopher B. Fisher, Esq., Cuddy & Feder LLP
Michele G. Briggs, Southwestern Bell Mobile Systems, LLC
Boyd E. Arnold, Marlin Towers LLC



EM-T-MOBILE-155-040310

100 Filley Street, Bloomfield, CT 06002
860-794-6427 fax 860-692-7159

March 10, 2004

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

RECEIVED
MAR 10 2004

**CONNECTICUT
SITING COUNCIL**

**RE: Exempt Modification – Existing Wireless Telecommunications Facility
3114 Albany Avenue, West Hartford, Connecticut
Latitude: 41-47-48” / Longitude: 72-47-49”**

Dear Chairman Katz:

Omnipoint Communications, Inc. a.k.a. T-Mobile (formerly Voicestream Wireless Corp.) (“T-Mobile”) intends to co-locate antennas on the existing monopole located at 3114 Albany Avenue in West Hartford. The Siting Council has approved the shared use of this facility by AT&T at the 140’ level, Cingular at the 115’ level and Verizon at the 130’ level.

Please accept this letter as notification pursuant to R.C.S.A §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A §16-50j72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Barry Feldman, Town Manager of West Hartford.

The tower is owned and operated by Marlin Towers LLC (“Marlin”). It’s coordinates are N 41° 47’ 48” and W 72° 47’ 49”. The facility consists of a 346’ guyed lattice tower on a 12.5 acre parcel owned by Marlin.

The proposed modifications will not result in any substantial adverse environmental affect and therefore fall squarely within the activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).

1. The proposed modification will not increase the overall height of the existing tower. T-Mobile’s antennas will be mounted with their centerline at the 160’ level on the 346’ tower. (See Exhibit A, CD’s)
2. The proposed installation of nine (9) antennas (6 proposed and 3 future) and 3 equipment cabinets will not require an extension of the site boundaries. (See Exhibit A, CD’s)

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes the need for transparency and accountability in financial reporting.

2. The second part of the document outlines the various methods and techniques used to collect and analyze data. It highlights the importance of using reliable sources and ensuring the accuracy of the information gathered.

3. The proposed antenna modification will not increase the noise levels at the facility by six decibels or more.
4. The operation of the antennas will not increase radio frequency (RF) power density levels at the facility at or above the Federal Communications Commission (FCC) adopted safety standard. The worst-case RF density calculations for a point at the base of the tower for T-Mobile antennas would be of the FCC standard. Pursuant to RF Exposure Analysis prepared for Cingular the cumulative worst-case RF power density calculation for all current carriers and T-Mobile would be of the applicable FCC standard. A copy of the report is attached. (See Exhibit B, Power Density Calculations)

Also attached, please find an engineer's certification, verifying that the tower can support the antennas and associated equipment of T-Mobile, AT&T, and Cingular. (See Exhibit C)

For the foregoing reasons, T-Mobile respectfully submits that the proposed antenna installation at the Marlin tower constitutes an exempt modification under R.C.S.A § 16-50j-72(b)(2).

Very Truly Yours



Christine Farrell
T-Mobile Real Estate and Zoning

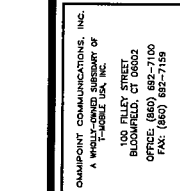
Attachments

Cc: Barry Feldman, Town Manager, West Hartford

Exhibit A

CHAMPPOINT COMMUNICATIONS, INC.
A WHOLLY OWNED SUBSIDIARY OF
T-CABLE, L.P., INC.
150 FALLY STREET
BLOOMFIELD, CT 06002
OFFICE: (860) 882-7100
FAX: (860) 882-7159

Dewberry
Dewberry-Goodkind, Inc.
50 BLM STREET
NEW HAVEN, CT 06511
TEL: (203) 777-7283



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

DWBERRY NO: 3157-02
DRAWN BY: RBC
CHECKED BY: CJD

SUBMITTALS	
0	18/25/24 CONSTRUCTION

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CT-11-765A
MARLIN GUYED
TOWER

3114 ALBANY AVE.
WEST HARTFORD, CT 06117

SHEET TITLE
TITLE PAGE

SHEET NUMBER
T-1

MARLIN GUYED TOWER

3114 ALBANY AVE. WEST HARTFORD, CT 06117

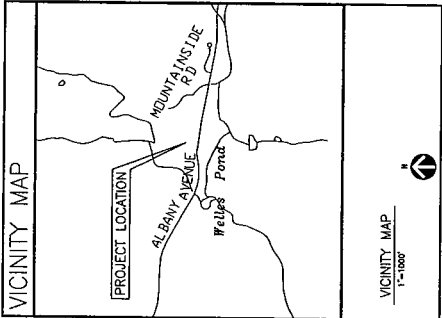
CT-11-765A CO-LOCATION

STRUCTURAL NOTE:
REPRESENTED ON THESE PLANS IS PROPOSED PRE-CONSTRUCTION. THIS PROJECT SHALL BE PERFORMED BY A LICENSED CONNECTICUT PROFESSIONAL STRUCTURAL ENGINEER AND CERTIFICATION IS GIVEN BY THE ENGINEER THAT THE DESIGN AND CONSTRUCTION OF THE TOWER AND PROPOSED ANTENNAS AND APPURTENANCES SUPPORTED THEREON SHALL BE IN ACCORDANCE WITH ALL APPLICABLE DESIGN CRITERIA. NO WORK PROPOSED HEREON SHALL BE PROGRESSED WITHOUT COMPLETION OF THIS CERTIFICATION.

PROJECT SUMMARY	
SITE NUMBER:	CT-11-765A
SITE NAME:	MARLIN GUYED TOWER
SITE ADDRESS:	3114 ALBANY AVE. WEST HARTFORD, CT 06117
ASSESSOR'S PARCEL NO.:	MAP# 848-985 J-41 LOT# 985
ZONING DISTRICT:	R-20
CONSTRUCTION TYPE:	CO-LOCATION
STRUCTURE OWNER:	MARLIN TOWER LLC 123 COSTELLO RD NEWINGTON, CT 06111
PROPERTY OWNER:	MARLIN TOWER LLC 123 COSTELLO RD NEWINGTON, CT 06111
APPLICANT:	CHAMPPOINT COMMUNICATIONS, INC. 100 FALLY STREET BLOOMFIELD, CT 06002

THIS DOCUMENT WAS DEVELOPED TO ASSIST IN THE DESIGN AND CONSTRUCTION OF THE TOWER AND ANTENNAS. IT IS NOT TO BE USED FOR ANY OTHER PURPOSES WITHOUT THE EXPRESS WRITTEN PERMISSION OF CHAMPPOINT COMMUNICATIONS, INC. ANY REUSE OR REPRODUCTION OF THIS DOCUMENT IS STRICTLY PROHIBITED.

SHEET INDEX	
SHT. NO.	DESCRIPTION
T-1	TITLE SHEET
A-1	SITE & COMPOUND PLAN AND DETAILS
A-2	ELEVATION & DETAILS
S-1	EQUIPMENT LAYOUT & DETAILS
E-1	ELECTRICAL & GROUNDING AND DETAILS



DO NOT SCALE DRAWINGS
CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE LESSEE REPRESENTATIVE IN WRITING OF DISCREPANCIES. CONTRACTOR SHALL BE RESPONSIBLE FOR SUCH WORK OR BE RESPONSIBLE FOR SAME.

GENERAL NOTES	
1.	THE CONTRACTOR SHALL OBEY ALL NOTICES AND COMPLY WITH ALL ORDINANCES, REGULATIONS AND LOCAL, STATE AND FEDERAL LAWS, RULES AND REGULATIONS. THE CONTRACTOR SHALL CONSULT WITH QUALIFIED SAFETY EXPERTS AND TAKE ALL RECOMMENDED SAFETY PRECAUTIONS TO MINIMIZE THE RISKS ASSOCIATED WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS PRIOR TO STARTING WORK AT THIS LOCATION. FOR SITE INFORMATION, THE SITE CONTACT, JOHN RAUSBY, SHOULD BE CONSULTED.
2.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY CONSTRUCTION CONTROL PERMITS AND APPROVALS FROM THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY, PRIOR TO STARTING WORK AT THIS LOCATION.
3.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PROVISIONS TO PROTECT EXISTING UTILITIES, EXISTING STRUCTURES AND ADJACENT PROPERTIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PROVISIONS TO PROTECT EXISTING UTILITIES, EXISTING STRUCTURES AND ADJACENT PROPERTIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PROVISIONS TO PROTECT EXISTING UTILITIES, EXISTING STRUCTURES AND ADJACENT PROPERTIES.
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CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE LESSEE REPRESENTATIVE IN WRITING OF DISCREPANCIES. CONTRACTOR SHALL BE RESPONSIBLE FOR SUCH WORK OR BE RESPONSIBLE FOR SAME.

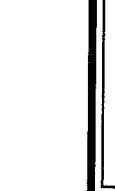
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CHAMPPOINT COMMUNICATIONS, INC.
 A WHOLLY OWNED SUBSIDIARY OF
 SPRINT COMMUNICATIONS, INC.
 100 RALEY STREET
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 OFFICE: (860) 892-7100
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Dewberry
 Dewberry-Goodkind, Inc.
 98 BELL STREET
 HARTFORD, CT 06103
 PHONE: (860) 234-2222
 FAX: (860) 234-2222



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

DEWBERRY NO: 3757-02
 DRAWN BY: _____
 CHECKED BY: _____
 CDD

SUBMITTALS

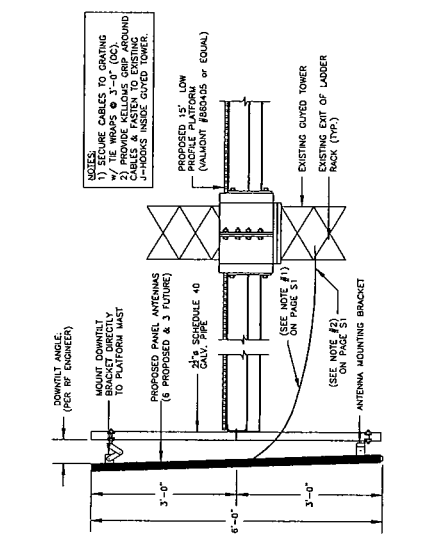
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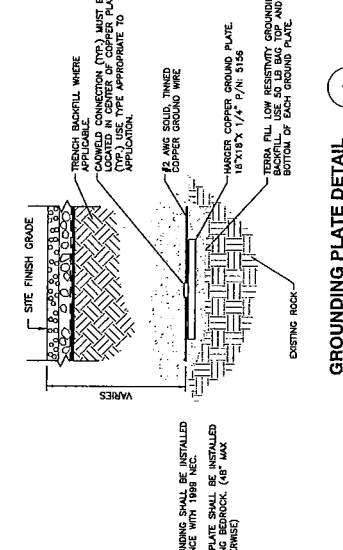
CI-11-765A
 MARLIN GUYED
 TOWER
 314 ALBANY AVE
 WEST HARTFORD, CT 06117

SHEET TITLE
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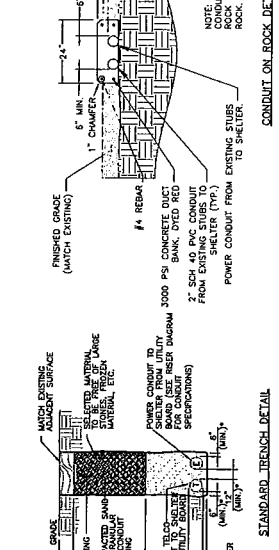
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 A-2



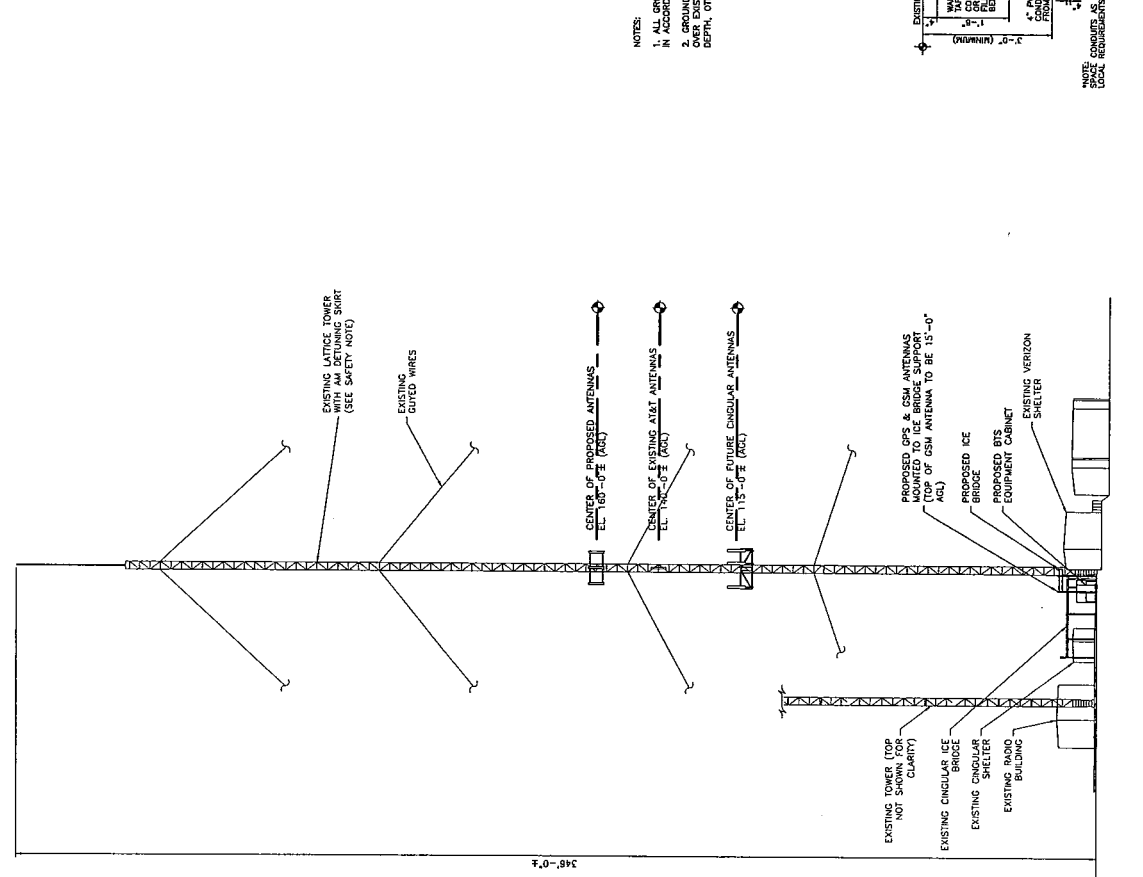
ANTENNA MOUNTING DETAIL
 SCALE: NTS



GROUNDING PLATE DETAIL
 SCALE: NTS



TRENCH DETAIL
 SCALE: NTS

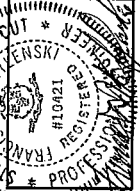


SECTION AT EQUIPMENT PAD
 SCALE: 1\"/>

DAMPPOINT COMMUNICATIONS, INC.
A WHOLLY-OWNED SUBSIDIARY OF
PUBLIC SERVICE, INC.

100 FULLEY STREET
BLOOMFIELD, CT 06102
OFFICE: (860) 652-7100
FAX: (860) 682-7139

Dewberry
Dewberry & Davis LLP
A MEMBER OF THE
DANKO GROUP



APPROVALS

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

DEWBERRY NO: 3757-02
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CHECKED BY: _____
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CT-11-765A
MARLIN GUYED
TOWER

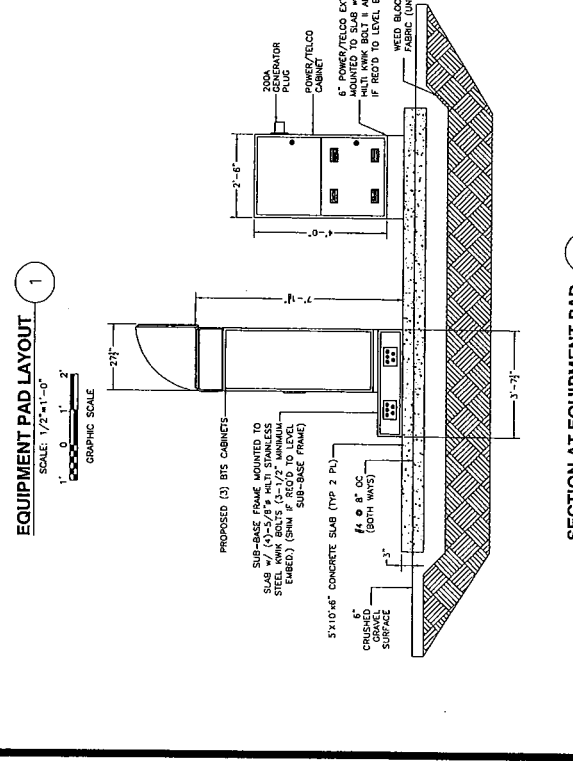
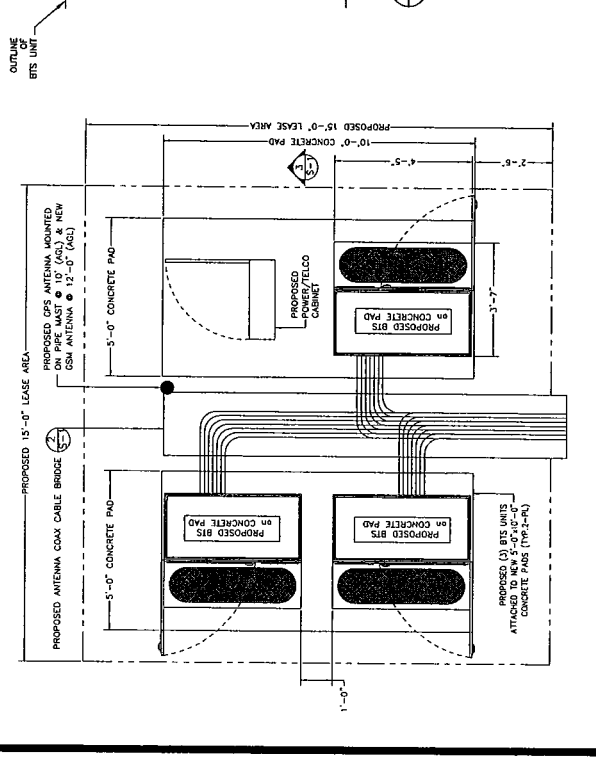
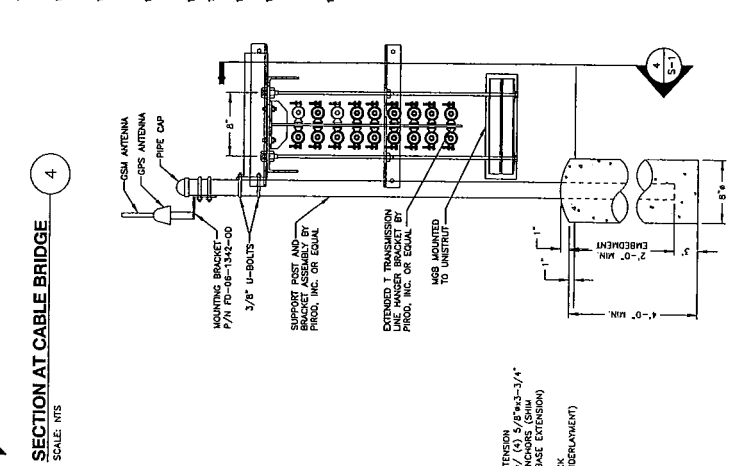
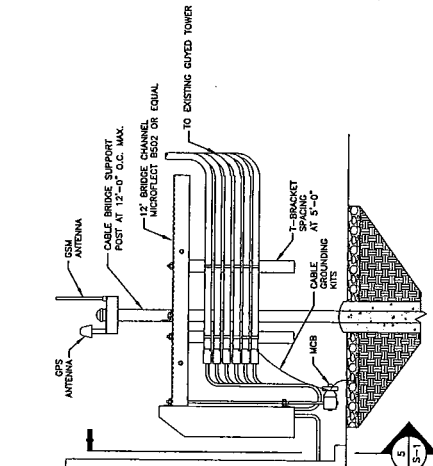
3114 ALBANY AVE.
WEST HARTFORD, CT 06117

PLAN, SECTIONS, AND DETAILS

SHEET NUMBER
S-1

STRUCTURAL NOTES:

- DESIGN REQUIREMENTS ARE PER SITE SURVEY CODE AND APPLICABLE SPECIFICATIONS, AISC/AISEET, EIA/78-222-F STRUCTURAL STANDARDS FOR STEEL ANTENNA SUPPORTING STRUCTURES.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION 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 BUILDINGS' SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
- STRUCTURAL AND MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A58 STRUCTURAL STEEL UNLESS OTHERWISE INDICATED.
- STEEL PIPE SHALL CONFORM TO ASTM A500 "COLD-FORMED WELDED, AND SEAMLESS CARBON STEEL STRUCTURAL TUBING", GRADE A OR ASTM A53 PIPE STEEL BLACK AND HOT-DIPPED ZINC-COATED UNLESS THE E OR S GRADE S PIPE SIZES INDICATED ARE NORMAL. ACTUAL OUTSIDE DIAMETER TO VARIATE.
- STRUCTURAL CONNECTION BOLTS SHALL BE HIGH STRENGTH BOLTS (FORGING TYPE AND CONFORM TO ASTM A325 "HIGH STRENGTH BOLTS FOR STRUCTURAL UNITS, INCLUDING SUITABLE NUTS AND PLAIN HARDENED WASHERS". ALL BOLTS SHALL BE 5/8" DIA UNL.
- ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATING 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 TO ORIGINAL CONDITION. REPAIR SHALL HAVE 85 PERCENT ZINC BY WEIGHT, ZIPP BY DUNCAN GALVANIZING, GALVA-BRIGHT REPAIR PAINT SHALL HAVE 95 PERCENT ZINC BY WEIGHT, ZIPP BY DUNCAN GALVANIZING, GALVA-BRIGHT SHALL BE APPLIED TO ALL REPAIRS. REPAIRS SHALL BE APPROVED BY THE ARCHITECT. GALVANIZED SURFACES SHALL BE PROTECTED WITH AN INHERENTLY THREADED NUTS AND WASHERS SHALL BE GALVANIZED TO MATCH THE GALVANIZED SURFACES. GALVANIZED SURFACES SHALL BE PROTECTED WITH A RUBBERIZING COATING THICKNESS REQUIRED BY ASTM A133 OR A153 AS APPLICABLE.
- CONTRACTOR SHALL COMPLY WITH AWS CODE FOR PROCEDURES, APPEARANCE AND QUALITY OF WELDS AND FOR METHODS USED IN CORRECTING WELDING. ALL WELDERS AND WELDING PROCESSES SHALL BE QUALIFIED TO THE SATISFACTION OF THE CONSTRUCTION MANAGER. WELDING SHALL BE DONE USING STICK ELECTRODES AND WELDING SHALL CONFORM TO AISC AND ALL WELDED FLARE WELDS SHALL BE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION", 3TH EDITION.
- UNLESS OTHERWISE NOTED, ALL REINFORCING MATERIALS OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE CONSTRUCTION MANAGER APPROVAL.
- UNREINFORCED SHALL BE FORMED STEEL CHANNEL, STRUT FRAMING AS MANUFACTURED BY UNISTRUT CORP. AND SHALL BE EQUAL STRENGTH MEMBERS SHALL BE 1 5/8" x 1 5/8" x 12 GA, UNLESS OTHERWISE NOTED.
- EMPTY MEMBERS SHALL BE GALVANIZED AFTER FABRICATION.
- EMBEDMENT SHALL BE 3" MINIMUM FOR ALL STEEL ANCHORS AND WELDED JOINTS. ALL WELDED JOINTS SHALL BE PROTECTED WITH AN INTERNALLY THREADED NUTS AND WASHERS SHALL BE GALVANIZED TO MATCH THE GALVANIZED SURFACES. GALVANIZED SURFACES SHALL BE PROTECTED WITH A RUBBERIZING COATING THICKNESS REQUIRED BY ASTM A133 OR A153 AS APPLICABLE.
- CONCRETE SHALL CONFORM TO FEDERAL SPECIFICATION FF-S-325, GROUP II, TYPE 4, CLASS I, MULTI PORTLAND CEMENT AND OR HY-150 SYSTEMS (AS SPECIFIED IN DWG.) OR ENGINEERS APPROVED EQUAL WITH 4-1/4" MIN. DRAINAGE DEPTH.
- CONCRETE FOR FENCE AND CONCRETE SHALL BE PLACED AGAINST UNDISTURBED SOIL.
- ALL CAST IN PLACE CONCRETE SHALL BE WAKED 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 NOTED OTHERWISE:
CONCRETE EXPOSED TO WIND OR WATER
#4 AND SMALLER = 2 INCHES
#5 AND LARGER = 2 INCHES
- ALL EXPOSED BOLTS SHALL BE PROVIDED WITH A 3/16"x3/4" CHAMFER UNLESS NOTED OTHERWISE.



SECTION AT CABLE BRIDGE
SCALE: NTS

SECTION AT EQUIPMENT PAD
SCALE: 1/2\"/>

CHAMPION COMMUNICATIONS, INC.
A WHOLLY OWNED SUBSIDIARY OF
COMMUNICATIONS INTERNATIONAL, INC.

100 BELLS LANE
BLOOMFIELD, CT 06032
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Dewberry
Dewberry-Goodfield, Inc.
90 BELM STREET
NEW HAVEN, CT 06510
PHONE: (860) 892-7227
FAX: (860) 892-7228

REGISTERED PROFESSIONAL ENGINEER
ELECTRICAL
NO. 110-421
HANS CHRISTIAN ANDERSEN
REGISTERED PROFESSIONAL ENGINEER
ELECTRICAL
NO. 110-421

LANDLORD _____

LEASING _____

R.F. _____

ZONING _____

CONSTRUCTION _____

A/E _____

DEWEYBERY NO: 3757-02

DRAWN BY: RRC

CHECKED BY: CMO

SUBMITTALS

0	10/23/04	CONSTRUCTION
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CT-11-765A
**MARLIN GUYED
TOWER**
314 ALBANY AVE
WEST HARTFORD, CT 06117

SHEET TITLE
ELECTRICAL & GROUNDING

SHEET NUMBER
E-1

- ### ELECTRICAL & GROUNDING NOTES
1. 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 APPROVED FOR SPECIFICATION REQUIREMENTS.
 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES AND INSURANCE COMPANIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES AND INSURANCE COMPANIES.
 4. ELECTRICAL WORK SHALL BE DONE BY FEES FOR PERMITS, AND IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES AND INSURANCE COMPANIES.
 5. ELECTRICAL AND TELLCO WIRING OUTSIDE A BUILDING AND EXPOSED TO WEATHER SHALL BE IN WATER TIGHT GALVANIZED RIGID STEEL CONDUITS OR IN LIQUID TIGHT FLEXIBLE METAL OR NONMETALLIC CONDUITS. BURNED CONDUIT SHALL BE SCHEDULE 40 PVC.
 6. ELECTRICAL WIRING SHALL BE COPPER WITH TYPE THHN, THWN, OR THHW INSULATION.
 7. RUN ELECTRICAL CONDUIT OR CABLE BETWEEN ELECTRICAL UTILITY DEMARICATION POINT AND T-MOBILE CELL SITE PFC AS INDICATED ON INSTALLATION WITH UTILITY COMPANY.
 8. RUN TELLCO CONDUIT OR CABLE BETWEEN TELEPHONE UTILITY DEMARICATION POINT AND T-MOBILE CELL SITE TELLCO CABINET AND FULL ROPE IN INSTALLED TELLCO CONDUIT PROVIDE GREEN/BLACK INSULATING TAPE AT EACH END.
 9. WHERE CONDUIT BETWEEN BITS AND T-MOBILE CELL SITE PFC AND BETWEEN BITS AND T-MOBILE CELL SITE TELLCO CABINET IS UNDERGROUND USE PVC SCHEDULE 40 CONDUIT. ASK THE GROUNDING PARTNER OF THESE CONDUITS SHALL BE PVC CONDUIT.
 10. ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE NEMA 3R ENCLOSURE.
 11. PVC SUPPLIED BY T-MOBILE.
 12. GROUNDING SHALL COMPLY WITH NEC ART. 250.
 13. MANUFACTURERS SHALL BE RESPONSIBLE FOR BOTH ENDS USING CORRECT CONDUIT END CAPS. MINIMUM AS SUPPLIED BY T-MOBILE.
 14. USE #8 COPPER STRAINERS WITH PULL RINGS TO PROTECT ABOVE GRADE WIRING (UNLESS OTHERWISE SPECIFIED) AND TO PROTECT ABOVE GRADE COPPER WIRE FOR BELOW GRADE GROUNDING AS INDICATED ON THE DRAWING.
 15. CONNECTIONS TO BE BENCH GROUNDING COMPRESSION TYPE CONNECTIONS OR CABLED CONNECTIONS SHALL NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT WITH GALVANIZED STEEL.
 16. ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH BE BENT AT 90 DEGREE ANGLES. GROUNDING LEADS SHOULD NEVER BE BENT AT 45 DEGREE ANGLES. GROUNDING LEADS SHOULD NEVER BE BENT AT 60 DEGREE ANGLES. GROUNDING LEADS SHOULD NEVER BE BENT AT 75 DEGREE ANGLES. GROUNDING LEADS SHOULD NEVER BE BENT AT 90 DEGREE ANGLES. GROUNDING LEADS SHOULD NEVER BE BENT AT 135 DEGREE ANGLES. GROUNDING LEADS SHOULD NEVER BE BENT AT 180 DEGREE ANGLES. GROUNDING LEADS SHOULD NEVER BE BENT AT 225 DEGREE ANGLES. GROUNDING LEADS SHOULD NEVER BE BENT AT 270 DEGREE ANGLES. GROUNDING LEADS SHOULD NEVER BE BENT AT 315 DEGREE ANGLES. GROUNDING LEADS SHOULD NEVER BE BENT AT 360 DEGREE ANGLES.
 17. CONNECTIONS TO GROUND BARS SHALL BE MADE WITH THE WIRE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS.
 18. APPLY OXIDE INHIBITING COMPOUND TO ALL COMPRESSION TYPE GROUND CONNECTIONS.
 19. BOND ANTENNA WIRING BRACKETS, COAXIAL CABLE GROUND KITS, AND JAMA TO EGG PLACED NEAR THE ANTENNA LOCATION.
 20. BOND ANTENNA EGGS AND MGB TO GROUND RING.
 21. TEST COMPLETED GROUND SYSTEM AND RECORD RESULTS FOR PROJECT CLOSE-OUT DOCUMENTATION. 5 OHMS MINIMUM RESISTANCE REQUIRED.
 22. THIS SITE CONTAINS AN EXTENSIVE BURIED GROUNDING SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING ALL BURIED GROUNDING SYSTEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING ALL BURIED GROUNDING SYSTEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING ALL BURIED GROUNDING SYSTEMS.
 23. ALL GROUNDING TO BE INSTALLED AT THIS SITE SHALL BE APPROVED BY JOHN RAMSEY OF MARLIN TOWERS, LLC PRIOR TO INSTALLATION.
 24. SHELFER GROUND RING SHALL BE INSTALLED BY MARLIN TOWERS, LLC PRIOR TO START OF CONSTRUCTION TO COORDINATE INSTALLATION SCHEDULE.
 25. TOWER WORK SHALL BE DONE BY LICENSED APPROVED TOWER TOWERS, LLC FOR INFORMATION ON APPROVED TOWER CHECK.
 26. ANY DAMAGE TO EXISTING GROUNDING SYSTEM SHALL BE IMMEDIATELY REPORTED TO JOHN RAMSEY OF MARLIN TOWERS, LLC AND REPAIRED PER THE SPECIFICATIONS AT NO ADDITIONAL COST.

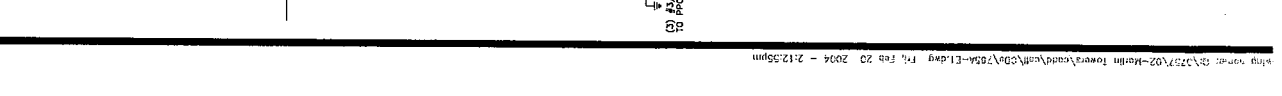
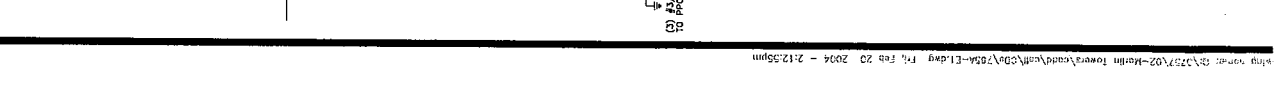
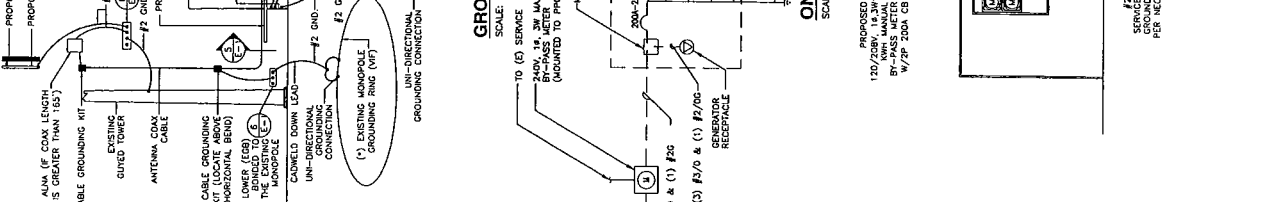
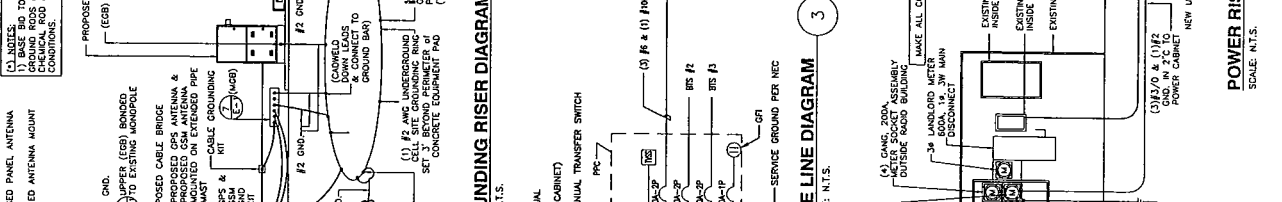
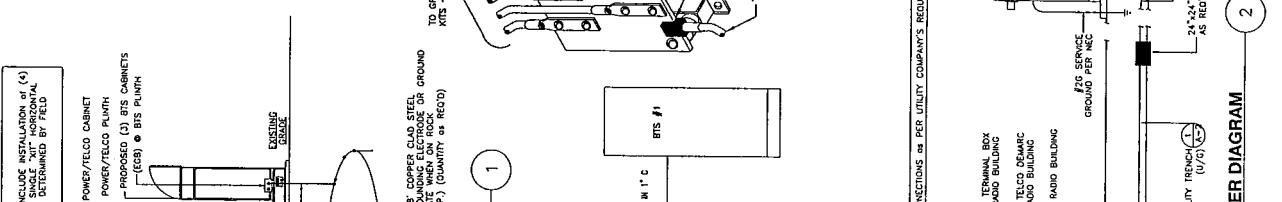
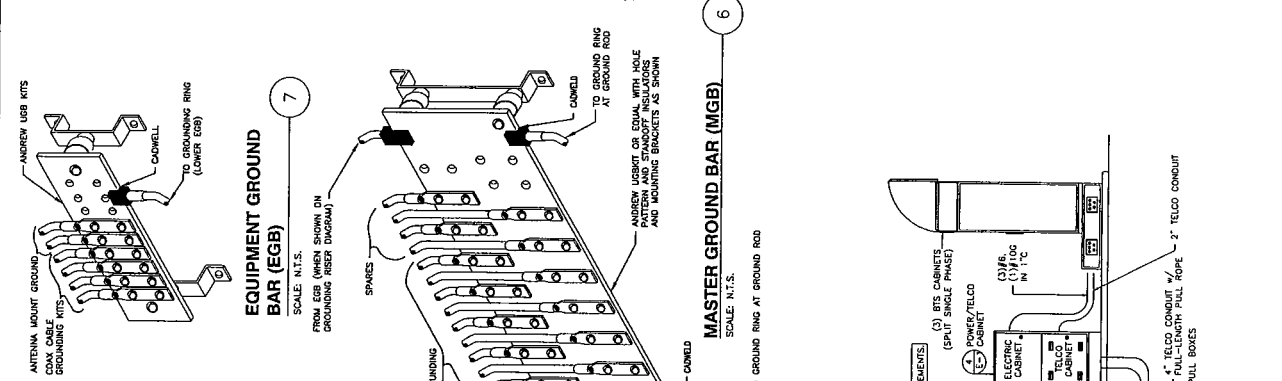
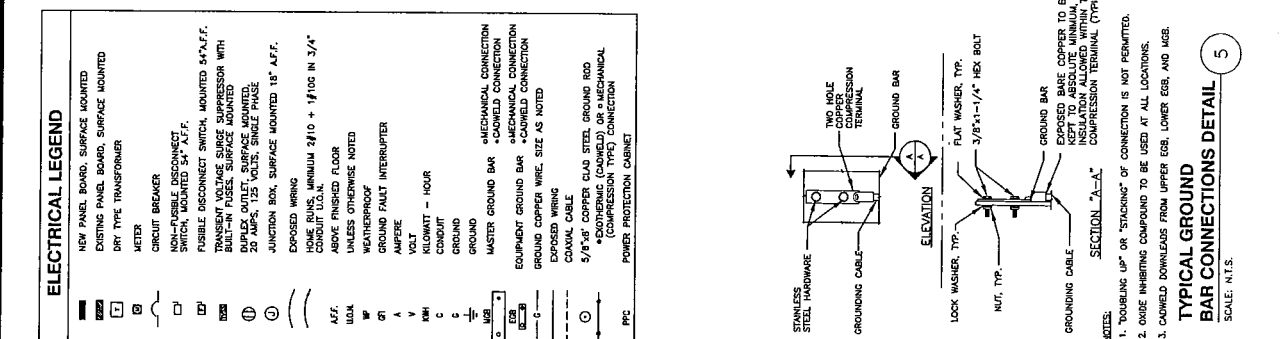


Exhibit B



PAUL J. FORD AND COMPANY
STRUCTURAL ENGINEERS
250 East Broad Street • Suite 500 • Columbus, Ohio 43215

RECEIVED

MAR 9 2004

DEWBERRY-GOODKIND, INC.

March 8, 2004

Dewberry
59 Elm Street
New Haven, CT 06510

Mr. Chris Daddi, P.E.

Re: Existing 346-ft. Guyed Tower
Located in West Hartford, Hartford, CT (Marlin CT-11-765A)
PJF Project #34803-061R1; Dewberry #3757-02

Dear Chris:

Paul J. Ford and Company understands that Omnipoint proposes to collocate on the above referenced tower. Paul J. Ford and Company was supplied with the original tower and foundation design drawings by PiRod, Inc. dated 8-4-2000 (PiRod #A117361). The tower was originally designed as an initial 346' tower extendable to a future height of 670'. The tower has never been extended and remains at the initial height of 346'. The tower was designed for an 80 mph basic wind velocity (69 mph with 1/2" ice) for the following antenna loading:

670' to 723'	TFU-30GTH-RD-TV w/ 6" line
630' to 650'	3-Bay FM w/ radomes w/ 3 1/8" line
600', 575', 550', 525', 500', 475', 450', 425'	(1) PD220 w/ 6' sidearm w/ 1 5/8" line
335', 310'	(3) PD220 w/ (3) 6' sidearms w/ (3) 1 5/8" line
311' to 346'	3-Bay FM w/ radomes w/ 3 1/8" line 1-Bay FM w/ radome w/ 3 1/8" line (4) PD220 w/ (3) 6' sidearms w/ (4) 7/8" line
250', 230', 210', 190', 170', 150'	(12) ALP9212N w/ T-frame mounts w/ (12) 1 5/8" line (2) Scala PR-950 w/ (2) 7/8" line

For this structural review, we were provided with antenna information regarding the proposed antennas and an inventory of the existing antennas. Based on information provided, it is our understanding that the following antenna loading is to be considered for this structural review:

COLUMBUS, OHIO
(614) 221-6679
Fax (614) 448-4105

ATLANTA, GEORGIA •
(404) 266-2407
Fax (404) 869-4608

ORLANDO, FLORIDA
(407) 898-9039
Fax (407) 897-3662

• www.pjfweb.com •

March 8, 2004
Page 2 of 2

Dewberry

Attn Mr. Chris Daddi, P.E.

Re: Existing 346-ft. Guyed Tower
Located in West Hartford, Hartford County, CT (Marlin CT-11-765A)
PJF Project #34803-061R1; Dewberry #3757-02

311' to 346'	3-Bay Fm
285'	ACS #16P4(38)052501 Ch #39
265'	DB420B
235'	Scala PR-450U
201'	DB420B
165'	Shively 6810 (1-Bay FM)
160'	Proposed Omnipoint (9) EMS DR65-19-XXDPQ w/ (36) 1 5/8" on 15' low profile platform
145'	AT&T, (3) panel antennas, exact model number unknown
130'	Verizon, (8) Allgon 7129.16 panel antennas
115'	Cingular (12) CSS DUO-1417-8686-40 w/ (12) TMA's and (12) 1 5/8" lines on 15' PiRod low profile platform

For this structural review we have compared design wind areas with wind areas from the existing and proposed antennas. Based on our comparison we have concluded that the existing and proposed antenna wind area will not exceed the wind areas from the original design.

By inspection, we do not believe that a complete structural analysis of this structure is required at this time. The existing tower and foundation system should have sufficient capacity to support proposed loading while maintaining the original design wind and ice requirements.

If you have any questions or concerns regarding the review of this tower structure, please feel free to contact us at (614) 221-6679.

Sincerely,

PAUL J. FORD AND COMPANY

Kirk R. Hall, P.E.
Project Manager

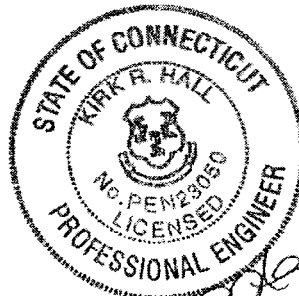


Exhibit C

Technical Memo

To: Christine Farrell
From: Sumit Nahar - Radio Frequency Engineer
cc: Jason Overbey
Subject: Power Density Report for CT11765A
Date: February 26, 2004

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 3114 Albany Ave., West Hartford, 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 two sectors, with 1 antennas per sector.
- 3) The model number of the antennas are APX15PV-15PV-2
- 4) The antenna center line height is 160 ft.
- 5) The maximum transmit power from any sector is 1719.17 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 3114 Albany Ave., West Hartford, CT, is 0.0159 mW/cm². This value represents 1.59% 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 82.46%. The combined Power Density for the site is 84.05% of the M.P.E. standard.

New England Market



Connecticut

Worst Case Power Density

Site:	CT11765A
Site Address:	3114 Albany Ave.
Town:	West Hartford
Tower Height:	400 ft.
Tower Style:	Guyed Tower
Base Station TX output	20 W
Number of channels	8
Antenna Model	APX15PV-15PV-2
Cable Size	1 5/8 in.
Cable Length	180 ft.
Antenna Height	160.0 ft.
Ground Reflection	1.6
Frequency	1935.0 MHz
Jumper & Connector loss	4.50 dB
Antenna Gain	16.9 dBi
Cable Loss per foot	0.0116 dB
Total Cable Loss	2.0880 dB
Total Attenuation	6.5880 dB
Total EIRP per Channel (In Watts)	53.32 dBm 214.90 W
Total EIRP per Sector (In Watts)	62.35 dBm 1719.17 W
nsg	10.3120
Power Density (S) =	0.015904 mW/cm²
T-Mobile Worst Case % MPE =	1.5904%
Equation Used :	$S = \frac{(1000 (grf)^2 (Power)^* 10^{(nsg/10)})}{4 \pi (R)^2}$
<small>Office of Engineering and Technology (OET) Bulletin 65, Edition 97-01, August 1997</small>	

Co-Location Total	
Carrier	% of Standard
Existing	77.4000 %
Cingular	5.0600 %
Total Excluding T-Mobile	82.4600 %
T-Mobile	1.5904
Total % MPE for Site	84.0504%

Miscellaneous



100 Filley Street, Bloomfield, CT 06002
860-794-6427 fax 860-692-7159

Barry Feldman
Town Manager
Town of West Hartford
50 South Main Street
West Hartford, CT 06117

RE: **Exempt Modification – Existing Wireless Telecommunications Facility
3114 Albany Ave., West Hartford, Connecticut**

Dear Mr. Feldman:

Omnipoint Communications, Inc. a.k.a. T-Mobile (formerly Voicestream Wireless Corp.) intends to co-locate antennas on the existing monopole located at 3114 Albany Ave. in West Hartford. Attached, please find a copy of our application to the CT Siting Council.

If you have any questions or concerns, please feel free to call me at 860-794-6427, or the CT Siting Council.

Very Truly Yours

Christine Farrell
T-Mobile Real Estate and Zoning

Attachments-Application

Cc: CSC