



STATE OF CONNECTICUT  
CONNECTICUT SITING COUNCIL

Ten Franklin Square  
New Britain, Connecticut 06051  
Phone: (860) 827-2935  
Fax: (860) 827-2950

April 16, 2004

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

RE: **EM-T-MOBILE-064-040401** - Omnipoint Communications Inc. (T-Mobile) notice of intent to modify an existing telecommunications facility located at 11 Mountain Road, Hartford, Connecticut.

Dear Ms. Farrell:

At a public meeting held on April 15, 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 24, 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, P.E.  
Chairman

PBK/laf

c: Honorable Eddie A. Perez, Mayor, City of Hartford  
Robert A. LaPorte, Chairman of City Plan Com., City of Hartford  
Eric Rabon, Spectrasite Communications  
Michele G. Briggs, Southwestern Bell Mobile Systems LLC



EM-T-MOBILE-064-040401

March 24, 2004

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

100 Filley Street, Bloomfield, CT 06002

860-794-6427 fax 860-692-7159

RECEIVED  
APR 01 2004

CONNECTICUT  
SITING COUNCIL

**RE: Exempt Modification – Existing Wireless Telecommunications Facility  
SpectraSite Tower, 11 Mountain Road, Hartford, Connecticut  
Lat. 41-33-35/Lon. 72-42-29**

Dear Chairman Katz:

Omnipoint Communications, Inc. a.k.a. T-Mobile (formerly Voicestream Wireless Corp.) intends to co-locate antennas on the existing one hundred four (104) foot SpectraSite Tower located at 11 Mountain Road in Hartford. Currently, the facility consists of the Town of West Hartford at the 60' and 75' level, and various Cingular equipment at the 100' and 104' 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 Hartford Chief Operating Officer, Lee Erdmann.

The tower is owned and operated by SpectraSite Communications. The facility consists of a 104' tower, capable of supporting multiple carriers. T-Mobile proposes to install six (6) panel-type antennas at the 87' level on the tower and 3 equipment cabinets within the fenced in compound.

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).

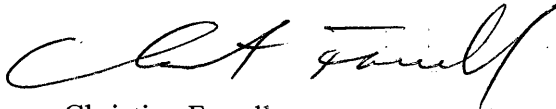
1. The proposed modification will not increase the overall height of the existing tower. T-Mobile's antennas will be mounted with their centerline at the 87' level on the 87' tower. (See Exhibit 1, CD's)
2. The proposed installation of six (6) antennas and three (3) equipment cabinets will not require an extension of the site boundaries. (See Exhibit 1, CD's)
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 7.3008% of the FCC standard. Pursuant to RF Exposure Analysis prepared by Cingular's previous application, the cumulative worst-case RF power density calculation for all current carriers and T-Mobile would be 37.0008% of the applicable FCC standard. A copy of the report is attached. (See Exhibit 2, 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, Cingular, and the Town of West Hartford. (See Exhibit 3)

For the foregoing reasons, T-Mobile respectfully submits that the proposed antenna installation at 11 Mountain Road, Spectrasite Tower in Hartford 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: Hartford Chief Operating Officer, Lee Erdmann

## **Exhibit 1**

# SPECTRASITE - HARTFORD #2

## 289H MOUNTAIN STREET HARTFORD, CT 06120

### CT-11-769B CO-LOCATION

OMIPOINT COMMUNICATIONS, INC.  
A WHOLLY OWNED SUBSIDIARY OF  
LABORERS' UNION LOCAL #1000  
100 FERRY STREET  
BLOOMFIELD, CT 06002  
OFFICE: (860) 682-7100  
FAX: (860) 682-7159

**Dewberry**  
DewberryGoodkind, Inc.  
915 1/2 STREET  
NEW HAVEN, CT 06510  
PHONE: (203) 771-1111  
FAX: (203) 771-2269

*[Signature]*  
APPROVALS

LANDLORD \_\_\_\_\_  
LEASING \_\_\_\_\_  
R.F. \_\_\_\_\_  
ZONING \_\_\_\_\_  
CONSTRUCTION \_\_\_\_\_  
A/E \_\_\_\_\_

DEWBERRY NO: 3757-03  
DRAWN BY: BRC  
CHECKED BY: GAO  
SUBMITTALS  
2 02/20/04 CONSTRUCTION REVISED  
1 02/23/04 CONSTRUCTION FINAL  
0 02/23/04 CONSTRUCTION

THIS DOCUMENT IS THE ORIGINAL, BEST COPY OF THE PROJECT RECORD DRAWING. ANY REVISIONS MUST BE MADE BY THE ORIGINAL DRAWING ENGINEER OR A REGISTERED PROFESSIONAL ENGINEER AND MUST BE APPROVED BY THE ORIGINAL DRAWING ENGINEER. THIS DOCUMENT IS NOT TO BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN CONSENT OF THE ORIGINAL DRAWING ENGINEER. ANY UNAUTHORIZED REUSE OF THIS DOCUMENT IS STRICTLY PROHIBITED.

CT-11-769B  
SPECTRASITE  
HARTFORD #2  
289H MOUNTAIN STREET  
HARTFORD, CT 06120

SHEET TITLE  
TITLE PAGE  
SHEET NUMBER  
T-1

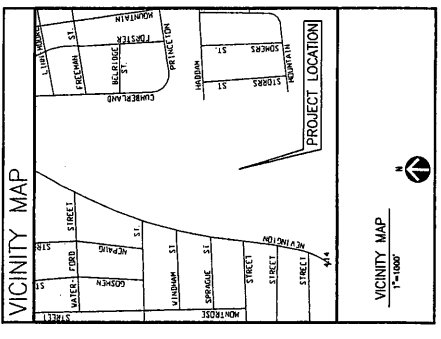
**STRUCTURAL NOTE**

THE CONTRACTOR SHALL CONFIRM THAT A LICENSED CONNECTICUT REGISTERED PROFESSIONAL ENGINEER HAS REVIEWED THE EXISTING TOWER AND ANY REQUIRED IMPROVEMENTS AND REINFORCEMENTS HAVE SUFFICIENT CAPACITY TO SUPPORT ALL EXISTING AND PROPOSED ANTENNAS, SUPPORTS, AND APPURTENANCES AND COMPLETES THE NECESSARY CALCULATIONS AND DRAWINGS. THE CONTRACTOR IS RESPONSIBLE TO CONTROL ANY AND ALL IMPROVEMENTS AND REINFORCEMENTS REQUIRED BY THE STRUCTURAL ENGINEER AND INSURE THAT ALL REINFORCEMENTS ARE INSTALLED IN ACCORDANCE WITH THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ANTENNAS, SUPPORTS, AND APPURTENANCES PROPOSED ON THESE DRAWINGS.

PROJECT SUMMARY	
SITE NUMBER:	CT-11-769B
SITE NAME:	SPECTRASITE HARTFORD #2
SITE ADDRESS:	289H MOUNTAIN STREET HARTFORD, CT 06120
ASSESSOR'S PARCEL NO.:	MAP#110 BLOCK#001 LOT# 001
DEED:	BOOK#3061 PAGE#0053
ZONING DISTRICT:	R-5
CONSTRUCTION TYPE:	CO-LOCATION
PROPERTY OWNER:	SPECTRASITE COMMUNICATIONS, INC. 100 REGENCY FOREST DRIVE SUITE 400 CARY, N.C. 27511 (919) 488-0112
STRUCTURE OWNER:	SAME
APPLICANT:	OMIPOINT COMMUNICATIONS, INC. 100 FERRY STREET BLOOMFIELD, CT 06002

THIS DOCUMENT WAS DEVELOPED TO REFLECT A SPECIFIC SITE AND ITS SITE CONDITIONS AND IS NOT TO BE USED FOR ANOTHER SITE OR FOR ANY OTHER PROJECT WITHOUT THE WRITTEN CONSENT OF THE ORIGINAL DRAWING ENGINEER. ANY UNAUTHORIZED REUSE OF THIS DOCUMENT IS AT THE SOLE RISK OF THE USER.

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



**DO NOT SCALE DRAWINGS**

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ORIGINAL DRAWING ENGINEER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

**GENERAL NOTES**

1. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LOCAL, STATE AND FEDERAL REQUIREMENTS. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AGENCIES AND LOCAL, STATE AND FEDERAL AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.
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**CHAMPPOINT COMMUNICATIONS, INC.**  
 A WHOLLY-OWNED SUBSIDIARY OF  
 TRUEBLUE USA, INC.  
 100 KELLEY STREET  
 HARTFORD, CT 06102  
 (860) 234-8300  
 FAX: (860) 882-7159

**Dewberry**  
 Dewberry-Goodrich, Inc.  
 51 LARA STREET  
 HARTFORD, CT 06103  
 PHONE: 303.778.2377  
 FAX: 303.778.2377

APPROVALS:

LANDLORD \_\_\_\_\_

LEASING \_\_\_\_\_

ZONING \_\_\_\_\_

CONSTRUCTION \_\_\_\_\_

N/E \_\_\_\_\_

DRAWN BY: RRC

CHECKED BY: DKD

DEWBERRY NO: 3747-Q3

**SUBMITTALS**

2	10/29/04	CONSTRUCTION REVISED
1	10/29/04	CONSTRUCTION FINAL
0	10/22/04	CONSTRUCTION

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CT-11-769B  
 SPECTRASTE  
 HARTFORD 2  
 2891 MOUNTAIN STREET  
 HARTFORD, CT 06120

SHEET TITLE: SITE & COMPOUND PLAN, DETAIL

SHEET NUMBER: A-1

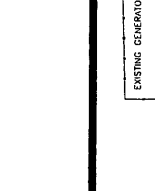
**ABBREVIATIONS**

AU	ADJUSTABLE	SF	SQUARE FOOT
AP	APPROXIMATE	SH	SHIRT
C	CONCRETE	SM	SMALL
CONC	CONCRETE	STL	STEEL
CONC	CONCRETE	TOG	TOP OF CONCRETE
CJ	CONSTRUCTION JOINT	TOP	TOP OF MASONRY
DA	DRAWING	TR	TYPICAL
DEM	DRAINING	W	W/ PIPED IN FIELD
ES	EQUIPMENT FOUNDATION	WHF	WELDED WIRE FABRIC
EA	ELECTRICAL	W	WITH
EL	ELEVATION	BTS	BASE TRANSMISSION
ED	EQUAL	STATION	STATION
EMF	EQUIPMENT	LHA	LOW NOISE AMPLIFIER
(E)	EXTERIOR	PCS	PERSONAL COMMUNICATIONS SERVICES
EXT	EXTERIOR	A-1	ANTENNA MARK ID
FF	FINISHED FLOOR	R	PLATE
FC	FINISHED GRADE	A	AND
GA	GALVANIZED	AT	AT
GC	GENERAL CONTRACTOR		
LG	LONG		
HX	MACHINERY		
MECH	MECHANICAL		
MR	MANUFACTURER		
MS	MASTER SIGNALING BOARD		
MM	MEASUREMENT		
NL	NET		
NET	NET IN CONTACT		
NTS	NOT TO SCALE		
OP	OPPOSITE		

**SYMBOLS AND MATERIALS**

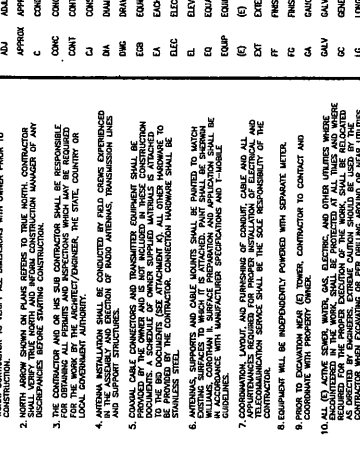
KEY ANTENNA	GRATE OR PLASTER
EXISTING ANTENNAS	CONCRETE
UPFRONT	CERAMIC
KEY ACCESS LAYOUT	CONCRETE
CONCRETE	CONCRETE
ELECTRIC BOX	CONCRETE
LIGHT PULL	CONCRETE
PIPE PENETRATION	CONCRETE
SPOT ELEVATION	CONCRETE
SET POINT	CONCRETE
REVISION	CONCRETE
GRID REFERENCED	CONCRETE
NETAL REFERENCE	CONCRETE
ELEVATION	CONCRETE
SETTINGS & DETAILS	CONCRETE

**ANTENNA ORIENTATION KEY**

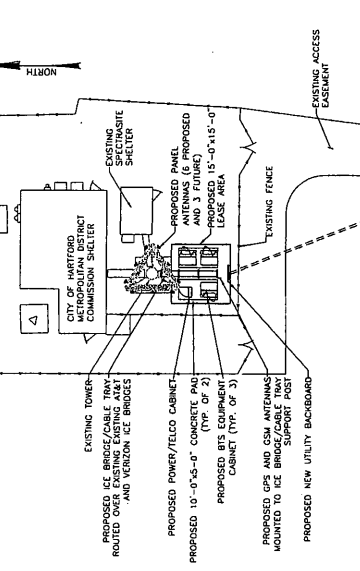


**NOTES:**

- VERIFY ALL DIMENSIONS AND RELATIONS WITH LOCAL UTILITY COMPANIES PRIOR TO CONSTRUCTION.
- NORTH ARROW SHOWN ON PLANS REFERS TO TRUE NORTH. CONTRACTOR SHALL OBTAIN NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE REGULATORY AGENCIES AND LOCAL GOVERNMENT AUTHORITIES.
- THE CONTRACTOR AND HIS SUB CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND APPROVALS WHICH MAY BE REQUIRED BY LOCAL GOVERNMENT AUTHORITIES.
- ANTENNA INSTALLATION SHALL BE CONDUCTED BY FIELD CREW EXPERIENCED IN THE INSTALLATION OF RADIO ANTENNAS, TRANSMISSION LINES AND SUPPORT STRUCTURES.
- CHANNEL CABLE CONNECTORS AND TRANSMITTER EQUIPMENT SHALL BE WELDED TO THE CHANNEL CABLE. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. A SCHEDULE OF WELDING PROCESSES AND WELDING TECHNIQUES SHALL BE PROVIDED TO THE CONTRACTOR FOR APPROVAL. ALL OTHER INFORMATION TO BE PROVIDED TO THE CONTRACTOR SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- ANTENNA SUPPORTS AND CABLE MOUNTS SHALL BE PAINTED TO MATCH THE LOCAL ENVIRONMENT. SURFACE PREPARATION AND APPLICATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND T-MOBILE GUIDELINES.
- COORDINATION, LABELING AND DIMENSIONS OF CONDUIT, CABLE AND ALL TELECOMMUNICATION SERVICES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- EQUIPMENT SHALL BE INDEPENDENTLY APPROVED WITH SEPARATE LISTS. CONTRACTOR TO CONDUCT AND CONFORM WITH PROPERLY OBTAINING PERMITS FROM LOCAL UTILITY COMPANIES.
- FOR ALL (G) ACTIVE WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHICH CROSS THE PROPOSED LOCATION OF THE WORK SHALL BE IDENTIFIED AND PROTECTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM LOCAL UTILITY COMPANIES PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THEIR WORKING CREW.
- ALL (G) ACTIVE WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHICH CROSS THE PROPOSED LOCATION OF THE WORK SHALL BE IDENTIFIED AND PROTECTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM LOCAL UTILITY COMPANIES PRIOR TO CONSTRUCTION.
- THE AREAS OF THE PROPERTY OWNED BY THE CONTRACTOR SHALL NOT BE COVERED, DRAINAGE, FERTILIZER, SEEDS AND COVERED WITH MULCH.
- THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AT ALL TIMES DURING CONSTRUCTION.
- RESURFACING AND PATCHING SHALL BE IN ACCORDANCE WITH LOCAL UTILITY COMPANY REQUIREMENTS.
- PER PER REQUIREMENTS (811) SERVICES IS REQUIRED TO BE OBTAINED PRIOR TO CONSTRUCTION. A SCHEDULE OF SERVICES SHALL BE PROVIDED TO THE CONTRACTOR FOR APPROVAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM LOCAL UTILITY COMPANIES PRIOR TO CONSTRUCTION.
- REPAIR AND RECONSTRUCTION SHALL BE CONDUCTED IN ACCORDANCE WITH LOCAL UTILITY COMPANY REQUIREMENTS.
- ALL DIMENSIONS ARE APPROXIMATE AS ESTIMATED FROM TAX ASSESSOR MAPS.



**PLOT PLAN**  
 SCALE: 1" = 300'-0"  
 DIMENSIONS ARE APPROXIMATE AS ESTIMATED FROM TAX ASSESSOR MAPS



**COMPOUND PLAN**  
 SCALE: 1/32" = 1'-0"  
 GRAPHIC SCALE

PROPOSED UNDERGROUND POWER/TELECABINETS ROUTED OVER EXISTING ANTENNA SHELTER AND VERTICAL ICE BRIDGES.

PROPOSED POWER/TELECABINET (TYP. OF 2).

PROPOSED BIT EQUIPMENT CABINET (TYP. OF 3).

PROPOSED GPE AND CDU ANTENNAS MOUNTED TO ICE BRIDGE/CABLE TRAY SUPPORT POST.

PROPOSED NEW UTILITY BACKBOARD.

PROPOSED UNDERGROUND POWER/TELECABINETS ROUTED OVER EXISTING ANTENNA SHELTER AND VERTICAL ICE BRIDGES (SOURCE FOR UTILITIES TO BE VERIFIED BY UTILITY COMPANY) (PROVIDED BY CONTRACTOR) (SPECIFIED BY UTILITY COMPANY).

EXISTING UTILITY POLE CLAMP

EXISTING ANTENNA SHELTER

EXISTING MONOPOLE

PROPOSED VALUANT (OR 13' LOW PROFILE PLATFORM) FUTURE PANEL ANTENNA (TYP. OF 3) SECTOR C 300' TN

PROPOSED PANEL ANTENNA (TYP. OF 6) SECTOR B 180' TN

SECTOR A 60' TN

**ANTENNA PLATFORM DETAIL**  
 SCALE: NTS

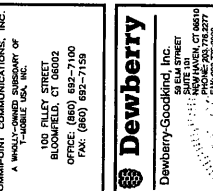
**SPECIAL LANDLORD NOTE:**

ACCESS/ADDRESS: TRUCKING PANEL ANTENNAS ARE DEPOTICALLY INSTALLED ON THE EAST SIDE OF THE PROPERTY. ALL STRUCTURAL, SAFETY, ZONING, APPROVALS, AND PERMITS FOR THE INSTALLATION AND USE OF THESE ANTENNAS OF THIS DESIGN BY OTHER OWNERS IS NOT TO BE CONSIDERED AS A LIABILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM LOCAL UTILITY COMPANIES PRIOR TO CONSTRUCTION.



OMNIPONT COMMUNICATIONS, INC.  
 A WHOLLY OWNED SUBSIDIARY OF  
 SPECTRASTRETECH  
 100 FLETCHER STREET  
 BLOOMFIELD, CT 06002  
 OFFICE: (860) 892-7100  
 FAX: (860) 892-7159

**Dewberry**  
 Dewberry-Goodkind, Inc.  
 89 ELM STREET  
 SUITE 200  
 BLOOMFIELD, CT 06002  
 PHONE: (860) 253-7327  
 FAX: (860) 253-7328



APPROVALS  
 LANDLORD \_\_\_\_\_  
 REF. \_\_\_\_\_  
 ZONING \_\_\_\_\_  
 CONSTRUCTION \_\_\_\_\_  
 A/E \_\_\_\_\_

DRAWN BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_

CONTRACT NO.: \_\_\_\_\_  
 DRAWING NO.: \_\_\_\_\_

PROJECT: \_\_\_\_\_

DATE: \_\_\_\_\_

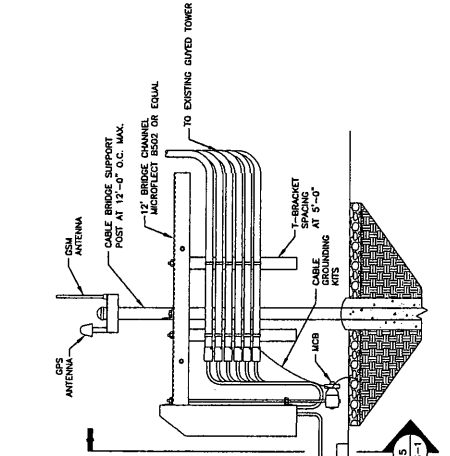
NO.	DATE	DESCRIPTION
1	01/27/04	CONSTRUCTION PERMIT
2	01/29/04	CONSTRUCTION BIDDING
3	02/23/04	CONSTRUCTION

CT-11-7698  
 SPECTRASTRETECH  
 HARTFORD 2  
 290A MOUNTAIN STREET  
 HARTFORD, CT 06120

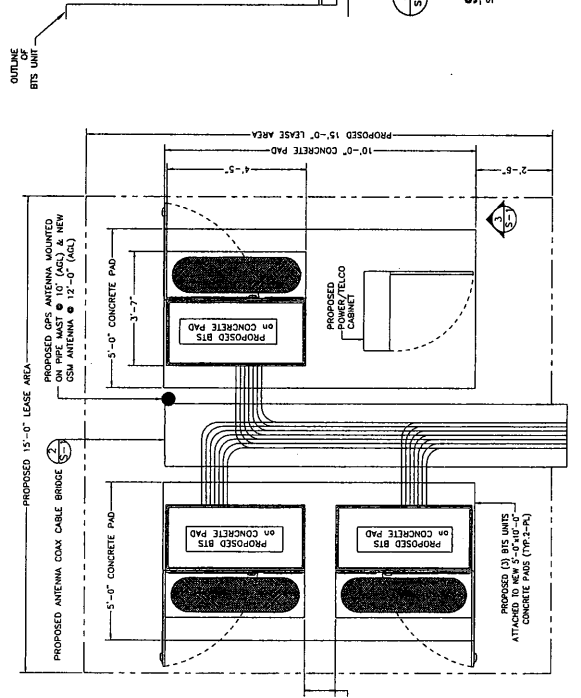
SHEET TITLE  
 PLAN SECTIONS, AND DETAILS  
 SHEET NUMBER  
**S-1**

**STRUCTURAL NOTES:**

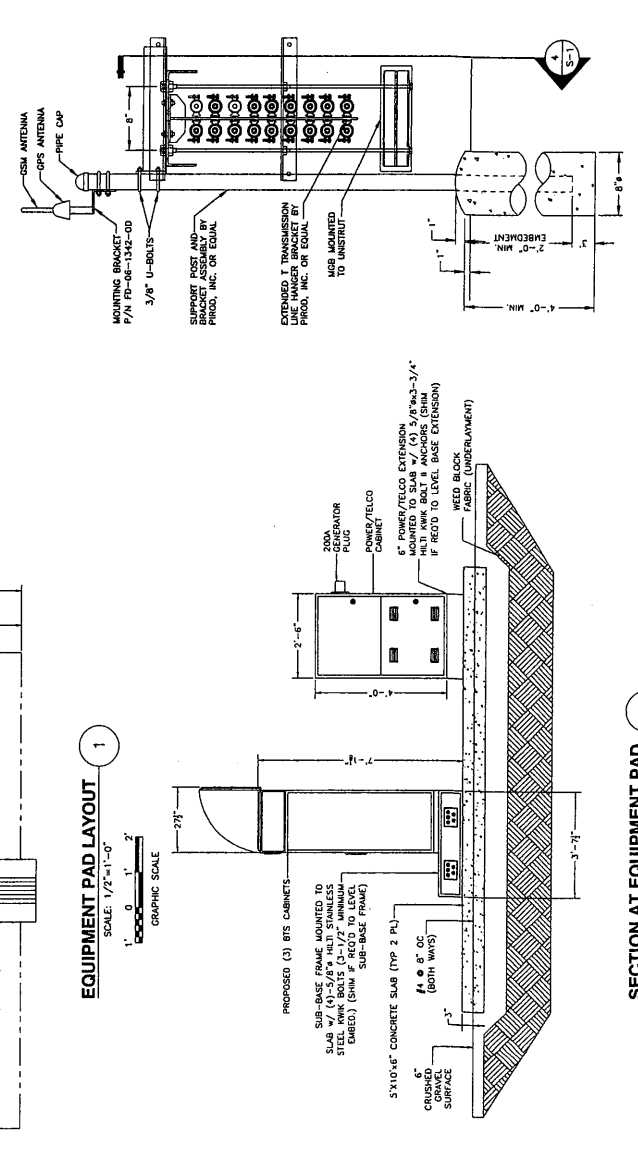
- DESIGN REQUIREMENTS ARE PER STATE BUILDING CODE AND APPLICABLE SPECIFICATIONS, AISC/AISC7, EN/19-222-F STRUCTURAL STANDARDS FOR STEEL ANTENNA SUPPORTING STRUCTURES.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO FABRICATION AND ERECTION OF ANY MATERIAL. ANY UNUSUAL CONDITIONS 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 A36 STRUCTURAL STEEL UNLESS OTHERWISE INDICATED.
- STEEL PIPE SHALL CONFORM TO ASTM A500 "COLD-FORMED, HEAVY WALL, SEAMLESS CARBON STEEL STRUCTURAL TUBING", GRADE A OR ASTM A53 PIPE STEEL, BLACK AND HOT-DIPPED ZINC-COATED (DIPPER), TYPE E OR S, GRADE B. PIPE SIZES INDICATED ARE NOMINAL ACTUAL OUTSIDE DIAMETER IS LARGER.
- STRUCTURAL CONNECTION BOLTS SHALL BE HIGH STRENGTH BOLTS (REGARDING THE AISC CONNECTION 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 A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS OTHERWISE NOTED.
- FIELD WELDS, DRILL HOLES, SAW CUTS AND ALL DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED REPAIR PAINT SHALL HAVE BE PERCENT ZINC BY WEIGHT ZIPP BY DURACAL GALVANIZING, GALVA BRIGHT OR DURACAL GALVANIZING. REPAIR SHALL BE DONE USING EPOXY ELECTRODES AND WELDING SHALL CONFORM TO AISC AND ALL WHERE FILED WELD SHALL HAVE TOUGHNESS TESTS. REPAIR COATINGS SHALL BE DONE WITH A MINIMUM THICKNESS OF 0.005 INCHES PER ASTM A133 AS APPLICABLE.
- CONTRACTOR SHALL COMPLY WITH AISC CODE FOR PROCEDURES, APPEARANCE AND QUALITY OF WELDS AND WELDING METHODS USED IN CORRECTING WELDING. ALL WELDERS AND WELDING PROCESSES SHALL BE QUALIFIED IN ACCORDANCE WITH AISC W-8. WELDING SHALL BE DONE USING EPOXY ELECTRODES AND WELDING SHALL CONFORM TO AISC AND ALL WHERE FILED WELD SHALL HAVE TOUGHNESS TESTS. REPAIR COATINGS SHALL BE DONE WITH A MINIMUM THICKNESS OF 0.005 INCHES PER ASTM A133 AS APPLICABLE.
- INCORRECTLY FABRICATED, DAMAGED OR UNSUBSTITUTED MATERIALS AS CONDITIONS SHALL BE REPORTED TO THE CONSTRUCTION MANAGER PRIOR TO RENEWAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE CONSTRUCTION MANAGER APPROVAL.
- UNISTRUTS SHALL BE FORMED STEEL CHANNEL, STRUT FRAMING AS MANUFACTURED BY UNISTRUT CORP. UNISTRUTS SHALL BE GALVANIZED AFTER FABRICATION AND SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.
- EPOXY ANCHOR ASSEMBLY SHALL CONSIST OF 1/2" DIAMETER EPOXY RESIN SETTING WITH ANCHORS AND WASHERS AN INTERNALLY THREADED INSERT, A SCREEN TUBE AND AN EPOXY ADHESIVE. THE ANCHORING SYSTEM SHALL BE THE MANUFACTURER'S RECOMMENDATIONS. MINIMUM EMBEDMENT SHALL BE THREE AND ONE HALF (3 1/2) INCHES.
- CONCRESSION BOLTS SHALL CONFORM TO FEDERAL SPECIFICATION IT-S-236, GROUP B, TYPE A, CLASS 1, HEAT TREATED. CONCRESSION BOLTS SHALL BE INSTALLED 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 UNISTRUT'S SOAL.
- CONCRETE FOR FENCE AND ICE BRIDGE SUPPORT SHALL BE 3000 PSI AIR ENTRAINED (45 - 85) 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 NOTED OTHERWISE:  
 #2 AND LARGER - 2 INCHES  
 #5 AND SMALLER - 1 1/2 INCHES  
 ALL EXPOSED EDGES SHALL BE PROVIDED WITH A 3/4"x3/4" CHAMFER UNLESS NOTED OTHERWISE.



**SECTION AT CABLE BRIDGE**  
 SCALE: NTS



**SECTION AT EQUIPMENT PAD**  
 SCALE: 1/2"=1'-0"



**SECTION AT CABLE BRIDGE**  
 SCALE: NTS

**EQUIPMENT PAD LAYOUT**  
 SCALE: 1/2"=1'-0"  
 GRAPHIC SCALE

**SECTION AT EQUIPMENT PAD**  
 SCALE: 1/2"=1'-0"

**SECTION AT CABLE BRIDGE**  
 SCALE: NTS



CHAMPPOINT COMMUNICATIONS, INC.  
A WHOLLY-OWNED SUBSIDIARY OF  
FUSION, INC.

100 FULLY STREET  
BLOOMING  
OFFICE (860) 632-7100  
FAX (860) 632-7159

**Dewberry**  
Dewberry-Goodkind, Inc.  
90 SOUTH STREET  
HARTFORD, CT 06103  
PHONE (860) 725-1200  
FAX (860) 725-2277

APPROVALS  
*[Signature]*

LANDLORD \_\_\_\_\_  
LEASING \_\_\_\_\_  
R.F. \_\_\_\_\_  
ZONING \_\_\_\_\_  
CONSTRUCTION \_\_\_\_\_  
A/E \_\_\_\_\_

DEWBERRY NO: 3757-03  
RUC \_\_\_\_\_  
DRAWN BY: DKO  
CHECKED BY: \_\_\_\_\_

**SUBMITTALS**

1	03/29/04	CONSTRUCTION REVIEWED
1	03/29/04	CONSTRUCTION PERM.
1	02/23/04	CONSTRUCTION

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CT-11-7698B  
SPECTRASITE  
HARTFORD 2  
288 MOUNTAIN STREET  
HARTFORD, CT 06107

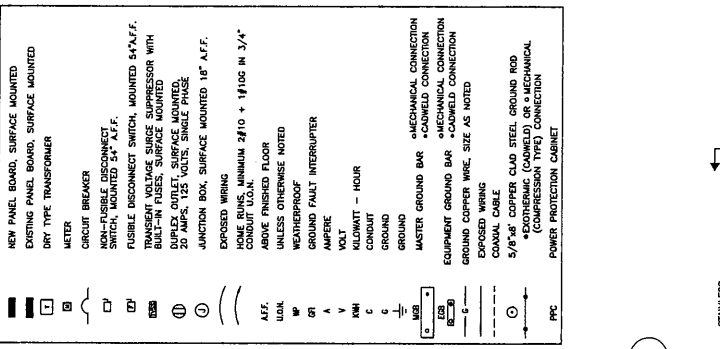
SHEET TITLE  
ELECTRICAL & GROUNDING

SHEET NUMBER  
**E-1**

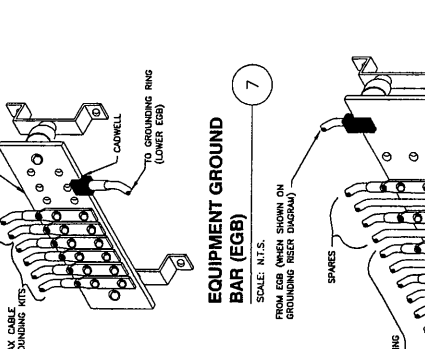
**ELECTRICAL & GROUNDING NOTES**

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 FULLY APPROVED OR LISTED AND PROCURED PER SPECIFICATION REQUIREMENTS.
3. ALL ELECTRICAL WORK INCLUDES ALL LABOR AND MATERIAL WORK TO PROVIDE COMPLETE OPERATING AND APPROVED ELECTRICAL SYSTEM.
4. GENERAL CONTRACTOR SHALL PAY FEES FOR PERMITS, AND IS RESPONSIBLE FOR OBTAINING SAID PERMITS AND COORDINATION OF INSPECTIONS.
5. ELECTRICAL AND TELCO WIRING OUTSIDE A BUILDING AND EXPOSED TO WEATHER SHALL BE IN WATER TIGHT GALVANIZED RIGID STEEL CONDUITS. ALL WIRING SHALL BE IN LIQUID TIGHT FLEXIBLE METAL OR NONMETALLIC CONDUITS.
6. BURIED CONDUIT SHALL BE SCHEDULE 40 PVC.
7. ELECTRICAL WIRING SHALL BE TYPE XHHW, THHN, THWN, OR THMS/ALUMINUM SHALL BE COPPER WITH TYPE XHHW, THHN, OR THMS/ALUMINUM CONDUIT OR CABLE BETWEEN ELECTRICAL EQUIPMENT DEMARICATION POINT AND T-MOBILE CELL SITE PFC AS INDICATED ON INSTALLATION WITH VULCANIZING PULL ROPE COORDINATE WITH VULCANIZING PULL ROPE.
8. RUN TELCO CONDUIT OR CABLE BETWEEN TELEPHONE TRUNK DEMARICATION POINT AND T-MOBILE CELL SITE TELCO CABINET AND PULL ROPE IN UNIDIRECTIONAL TELCO CONDUIT PROVIDE FULL LENGTH MEASURING TAPE AT EACH END. CONDUIT SHALL BE GALVANIZED.
9. WHERE CONDUIT BETWEEN BITS AND T-MOBILE CELL SITE PFC AND BETWEEN USE AND T-MOBILE CELL SITE TELCO SERVICE CABINET ARE UNDERGROUND CONDUITS SHALL BE PVC CONDUIT.
10. ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE NEW 3R ENCLOSURE.
11. PVC SUPPLIED BY T-MOBILE.
12. GROUNDING SHALL COMPLY WITH NEC ART. 250.
13. UNIDIRECTIONAL CONDUIT SHALL BE MINIMUM AT BOTH ENDS USING GALVANIZED RIGID STEEL CONDUIT OR T-MOBILE SUPPLIED BY T-MOBILE.
14. USE #6 COPPER UNLESS OTHERWISE SPECIFIED AND #2 SOLID THINWALL BARE COPPER WIRE FOR BELOW GRADE GROUNDING AS INDICATED ON THE DRAWINGS.
15. ALL GROUNDING CONNECTIONS TO BE BRASSY BRASS/BRASS COPPER TYPE CONDUCTORS OR GALVANIZED STEEL. GALVANIZED STEEL WELD DO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT WITH GALVANIZED STEEL.
16. ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH. ALL GROUNDING CONDUCTORS SHALL BE MADE AT LEAST 12" RADIUS BENDS AS WERE CAN BE BENT AT 90° RADIUS WHEN NECESSARY. BOND ANY METAL OBJECTS TO GROUNDING SYSTEM THROUGH EQUIPMENT OR CABINET TO MASTER GROUND BAR OR GROUNDING RING.
17. CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS. CONNECTIONS.
18. BOND ANTENNA MOUNTING BRACKETS, COAXIAL CABLE GROUND KITS, AND ALUM TO ESB PLACED NEAR THE ANTENNA LOCATION.
19. BOND ANTENNA ESB'S AND AIRS TO GROUND RING.
20. TEST COMPLETED GROUND SYSTEM AND RECORD RESULTS FOR PROJECT CLOSE-OUT DOCUMENTATION. 5 OHMS MAXIMUM RESISTANCE REQUIRED.

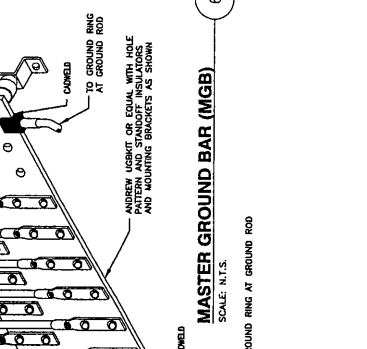
**ELECTRICAL LEGEND**



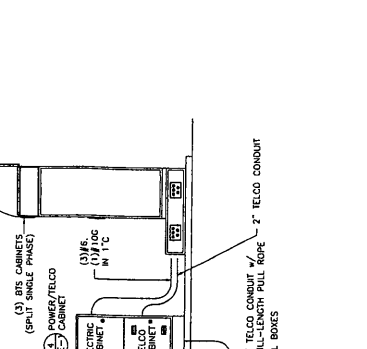
**GROUNDING RISER DIAGRAM**



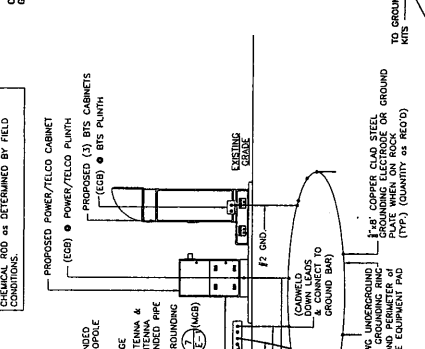
**ONE LINE DIAGRAM**



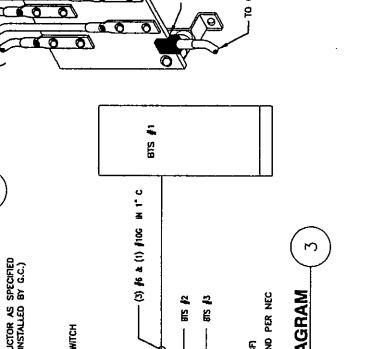
**POWER RISER DIAGRAM**



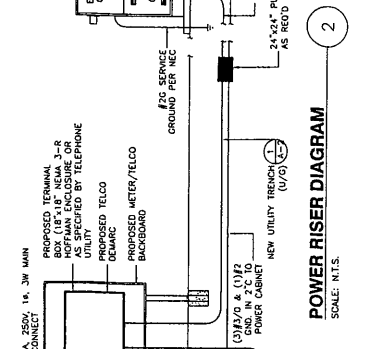
**EQUIPMENT GROUND BAR (EGB)**



**MASTER GROUND BAR (MGB)**



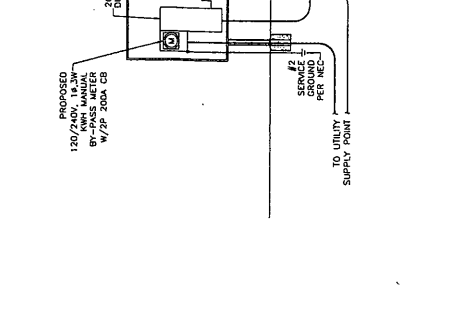
**TYPICAL GROUND BAR CONNECTIONS DETAIL**



**ELECTRICAL & GROUNDING NOTES**

1. "DOUBLE UP" OR "STACKING" OF CONNECTION IS NOT PERMITTED.
2. OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.
3. GALVANIZED DOWNLEADS FROM UPPER ESB, LOWER ESB, AND MGB.

**TYPICAL GROUND BAR CONNECTIONS DETAIL**



## **Exhibit 2**

## New England Market



Connecticut

### Worst Case Power Density

<b>Site:</b>	<b>CT11769B</b>
<b>Site Address:</b>	<b>Mountain Rd</b>
<b>Town:</b>	<b>Hartford</b>
<b>Tower Height:</b>	<b>118 ft.</b>
<b>Tower Style:</b>	<b>Monopole</b>
<b>Base Station TX output</b>	<b>20 W</b>
<b>Number of channels</b>	<b>8</b>
<b>Antenna Model</b>	<b>EMS DR65-18-02DPL2Q</b>
<b>Cable Size</b>	<b>1 5/8 in.</b>
<b>Cable Length</b>	<b>125 ft.</b>
<b>Antenna Height</b>	<b>87.0 ft.</b>
<b>Ground Reflection</b>	<b>1.6</b>
<b>Frequency</b>	<b>1935.0 MHz</b>
<b>Jumper &amp; Connector loss</b>	<b>4.50 dB</b>
<b>Antenna Gain</b>	<b>17.3 dBi</b>
<b>Cable Loss per foot</b>	<b>0.0116 dB</b>
<b>Total Cable Loss</b>	<b>1.4500 dB</b>
<b>Total Attenuation</b>	<b>5.9500 dB</b>
<b>Total EIRP per Channel</b>	<b>54.36 dBm</b>
<b>(In Watts)</b>	<b>272.92 W</b>
<b>Total EIRP per Sector</b>	<b>63.39 dBm</b>
<b>(In Watts)</b>	<b>2183.33 W</b>
<b>nsg</b>	<b>11.3500</b>
<b>Power Density (S) =</b>	<b>0.073008 mW/cm<sup>2</sup></b>
<b>T-Mobile Worst Case % MPE =</b>	<b>7.3008%</b>
<i>Equation Used:</i>	$S = \frac{(1000)(grf)^2(Power)*10^{(nsg/10)}}{4\pi(R)^2}$
	<i>Office of Engineering and Technology (OET) Bulletin 65, Edition 97-01, August 1997</i>

### Co-Location Total

<b>Carrier</b>	<b>% of Standard</b>
Verizon	
Cingular	13.3400 %
Sprint PCS	
AT&T Wireless	
Nextel	
Town of West Hartford	16.3600 %
<b>Total Excluding T-Mobile</b>	<b>29.7000 %</b>
T-Mobile	7.3008
<b>Total % MPE for Site</b>	<b>37.0008%</b>

## Technical Memo

To: Christine Farrell  
From: Sumit Nahar - Radio Frequency Engineer  
cc: Jason Overbey  
Subject: Power Density Report for CT11769B  
Date: March 31, 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 Monopole at Mountain Rd, 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 three sectors, with 3 antennas per sector.
- 3) The model number for each antenna is EMS DR65-18-02DPL2Q.
- 4) The antenna center line height is 87 ft.
- 5) The maximum transmit power from any sector is 2183.33 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 Mountain Rd, Hartford, CT, is 0.07301 mW/cm<sup>2</sup>. This value represents 7.301% of the Maximum Permissible Emission (MPE) standard of 1 milliwatt per square centimeter (mW/cm<sup>2</sup>) 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 29.7%. The combined Power Density for the site is 37.001% of the M.P.E. standard.

## **Exhibit 3**

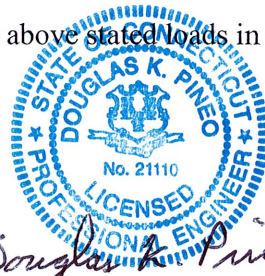
Level 1 Structural Evaluation <sup>1</sup>	
Site Number & Name	CT-0017 Hrfr - South
Site Address	11 Mountain Road Hartford, CT 06101
Tower Description	104 ft Monopole
Standards & Codes <sup>2</sup>	ANSI/TIA/EIA-222-F (1996) 80 mph (Hartford County) w/ 1/2" radial ice
	1996 BOCA National Building Code 80 mph 1/2" radial ice

**Table 1: Existing and Proposed Antenna Configuration**

HEIGHT (ft)	ANTENNA MODEL & MOUNT TYPE	CARRIER	COAX SIZE	[I]/[O] <sup>a</sup>	STATUS
109 107.5 102	(2) 10' whip (1) 3' Yagi (12) CSS DUO4-8670 on Platform w/Handrails	Arch Wireless Arch Wireless Cingular	(4) 1-5/8" (1) 1/2" (12) 7/8"	I	Existing
87	<b>(6) EMS RR90-17-02DP on T-Arm Mounts</b>	<b>T-Mobile</b>	<b>(12) 1-5/8"</b>	<b>O</b>	<b>Proposed</b>
75	(1) SCALA AP8-850/105N Flush Mounted	TOWN OF WEST HARTFORD	(1) 1/2"	O	Existing
60	(1) SCALA AP8-850/105N Flush Mounted	TOWN OF WEST HARTFORD	(1) 1/2"	O	Existing

<sup>a</sup> [I]/[O] denotes coax installed inside or outside the monopole, respectively.

The subject tower and foundation *are adequate* to support the above stated loads in conformance with specified requirements. <sup>3</sup>



*Douglas K. Pineo*

MAR 02 2004

Analysis prepared by:  
Brenton S. Lockamy, P.E.  
Project Engineer  
(919) 466-5536

Douglas K. Pineo, P.E.  
Senior Design Engineer

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Connecticut.

<sup>1</sup> The existing and proposed loads of *Table 1* are compared to the original tower design loads or previous analysis.

<sup>2</sup> The design wind criteria are compared to the current code requirements.

<sup>3</sup> The tower should be re-evaluated as future loads are added or if actual loads are found different from those mentioned in *Table 1*.

## **Miscellaneous**



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

Lee Erdmann  
Chief Operating Officer  
City of Hartford  
550 Main Street  
Hartford, CT 06103

**RE: Exempt Modification – Existing Wireless Telecommunications Facility  
11 Mountain Road, Hartford, Connecticut**

Dear Mr. Erdmann:

Omnipoint Communications, Inc. a.k.a. T-Mobile (formerly Voicestream Wireless Corp.) intends to co-locate antennas on the existing monopole located at 11 Mountain Hill Road in 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.

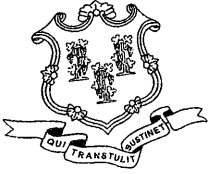
Very Truly Yours

Christine Farrell  
T-Mobile Real Estate and Zoning

Attachments-Application

Cc: CSC





# 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](mailto:siting.council@po.state.ct.us)  
Web Site: [www.ct.gov/csc](http://www.ct.gov/csc)

April 2, 2004

Honorable Eddie A. Perez  
Mayor  
City of Hartford  
550 Main Street  
Hartford, CT 06103

RE: **EM-T-MOBILE-064-040401** – Omnipoint Communications Inc., notice of intent to modify an existing telecommunications facility located at 11 Mountain Road, Hartford, Connecticut.

Dear Mayor Perez:

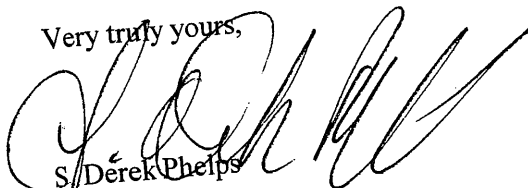
The Connecticut Siting Council (Council) received this request to modify an existing telecommunications facility, pursuant to Regulations of Connecticut State Agencies Section 16-50j-72.

The Council will consider this item at the next meeting scheduled for April 15, 2004 at 1:30 p.m. in Hearing Room One, Ten Franklin Square, New Britain, Connecticut.

Please call me or inform the Council if you have any questions or comments regarding this proposal.

Thank you for your cooperation and consideration.

Very truly yours,



S/Derek Phelps  
Executive Director

SDP/cm

Enclosure: Notice of Intent

c: Robert A. LaPorte, Chairman of City Planning Committee., City of Hartford  
Lee C. Erdmann, Chief Operating Officer, City of Hartford