



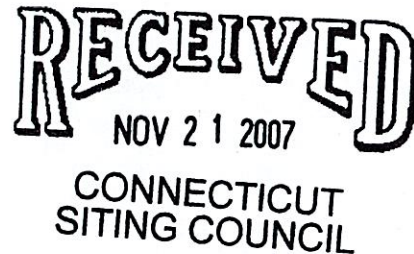
ORIGINAL

35 Griffin Road South
Bloomfield, CT 06002

November 21, 2007

BY HAND

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



EM-T-MOBILE-074-070928 REVISED

RE: **Notice of Exempt Modification**
383 Torrington Road Litchfield, CT
Latitude: 41 45 58.62 / Longitude: 73 10 42.7

Dear Chairman Caruso and Members of the Siting Council:

Omnipoint Communications, Inc. a.k.a. T-Mobile (formerly Voicestream Wireless Corp.) hereby requests an order from the Connecticut Siting Council ("Council") to approve the proposed ("Litchfield"), in Litchfield, CT owned by Sprint.

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. §16-50j-72(b) (2).

Litchfield

The Litchfield facility consists of a one hundred forty (140') foot monopole ("Tower") owned and operated by Sprint. T-Mobile proposes to locate antennas at a centerline mounting height of one hundred eight (108') feet. T-Mobile's equipment will be located within the compound at the base of the tower.

Litchfield

As shown on the enclosed plans prepared by including a site plan and tower elevation of the November 13, 2007, annexed hereto as Exhibit 1, T-Mobile proposes a shared use of the Facility by placing antennas on the tower and equipment needed to provide personal communications services ("PCS") within the existing site plan. T-Mobile will install nine (9) panel antennas at the one hundred eight (108') foot level of the Tower. Three (3) associated unmanned equipment cabinets will be located at the base of the tower.

The proposed modification is structurally feasible. A structural analysis of the tower is attached as Exhibit 2. The structural analysis shows that the tower can safely accommodate the proposed T-Mobile installation.

The planned modifications to this facility fall within the activities explicitly provided for in R.C.S.A. §16-50j-72(b)(2).

1. The proposed modification will not result in any increase in the overall height of the existing structure.
2. The proposed modification will not affect ground-mounted equipment and will not require the extension of the site boundaries.
3. The proposed modification will not increase noise levels at the facility 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 11.829% of the standard. See Radio Frequency Memo annexed hereto as Exhibit 3.

Conclusion

For the foregoing reasons, T-Mobile respectfully submits that the proposed modification to the above referenced telecommunication facility constitute an exempt modification under R.C.S.A §16-50j-72(b)(2).

Respectfully submitted,



H. Karina Fournier
Zoning Department
35 Griffin Road South
Bloomfield, CT 06002

cc: First Selectman, Leo Paul, Jr.
Land Use/Zoning Enforcement Director, Matthew Speck
Property Owner, Angela Bolus

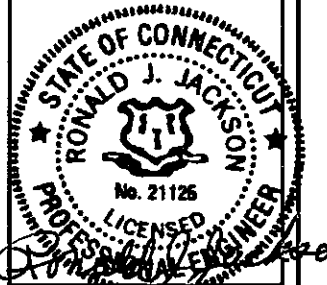
Exhibit 1

LITCHFIELD
383 TORRINGTON ROAD
LITCHFIELD, CT 06759
SITE NO.: CTNH375E
SITE TYPE: MONOPOLE

OMNIPONT COMMUNICATIONS INC.

A WHOLLY-OWNED SUBSIDIARY
 OF T-MOBILE USA, INC.
 35 GRIFFIN ROAD SOUTH
 BLOOMFIELD, CT 06002
 OFFICE: (860)-692-7100
 FAX: (860)-692-7159

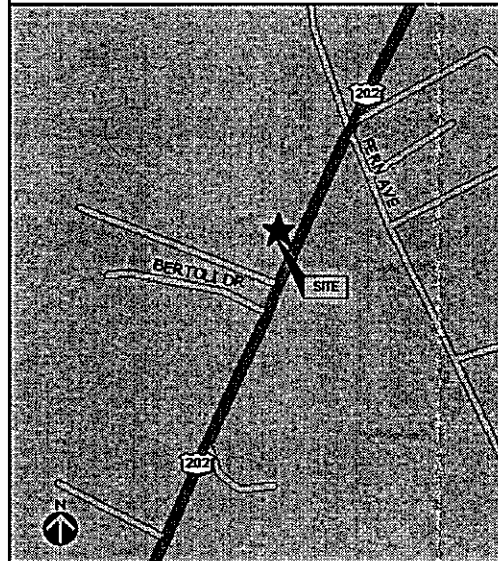
MIXTON
 50 EASTMAN ST.
 SOUTH EASTON, MA 02375
 PHONE: (508) 936-6393
 FAX: (508) 936-6395



GENERAL NOTES

1. 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.
2. THE ARCHITECT/ENGINEER HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. THE CONTRACTOR BIDDING 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.
3. 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 PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED IN WRITING OTHERWISE.
4. 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.
5. THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE SUBMISSION OF BIDS OR PERFORMING WORK TO FAMILIARIZE HIMSELF WITH THE FIELD CONDITIONS AND TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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.
11. 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.
12. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, ETC. DURING CONSTRUCTION. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.
13. THE CONTRACTOR SHALL KEEP THE GENERAL WORK AREA CLEAN 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 SMUDGES OF ANY NATURE.
14. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
15. 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 UNTIL CONFLICT IS RESOLVED BY THE PROJECT OWNER'S REPRESENTATIVE.
16. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
17. ALL UNDERGROUND UTILITY INFORMATION WAS DETERMINED FROM SURFACE INVESTIGATIONS 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: DIG SAFE SYSTEM (MA, ME, NH, RI, VT): 1-888-344-7233 CALL BEFORE YOU DIG (CT): 1-800-922-4455

VICINITY MAP NO SCALE



DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE PROJECT OWNER'S 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	3
A-1	PLAN & NOTES	3
A-2	ELEVATION & DETAILS	3
A-3	DETAILS	3
E-1	ELECTRICAL RISERS, DETAILS & NOTES	3

PROJECT SUMMARY

SITE NUMBER: CTNH375E
 SITE NAME: LITCHFIELD
 SITE ADDRESS: 383 TORRINGTON ROAD
 LITCHFIELD, CT 06759
 ASSESSOR'S PARCEL NO.: MAP: 126, BLOCK: 36, LOT: 91
 DEED BOOK/PAGE: 234/333
 SITE TYPE: MONOPOLE
 PROPERTY OWNER: SPRINT SITES USA
 APPLICANT: OMNIPONT COMMUNICATIONS INC.
 35 GRIFFIN ROAD SOUTH
 BLOOMFIELD, CT 06002

APPROVALS

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

PROJECT NO: 2806.035

DRAWN BY: PT

CHECKED BY: RS

SUBMITTALS

NO.	DATE	DESCRIPTION
3	11/13/07	FINAL CONSTRUCTION
2	10/25/07	ANTENNA HEIGHT REVISED
1	09/25/07	FINAL CONSTRUCTION
0	09/18/07	CONSTRUCTION

THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF OMNIPONT COMMUNICATIONS, INC. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED. IF THIS DRAWING IS NOT 24"x36", IT IS NOT TO SCALE.

SITE
CTNH375E
 LITCHFIELD
 383 TORRINGTON ROAD
 LITCHFIELD, CT 06759

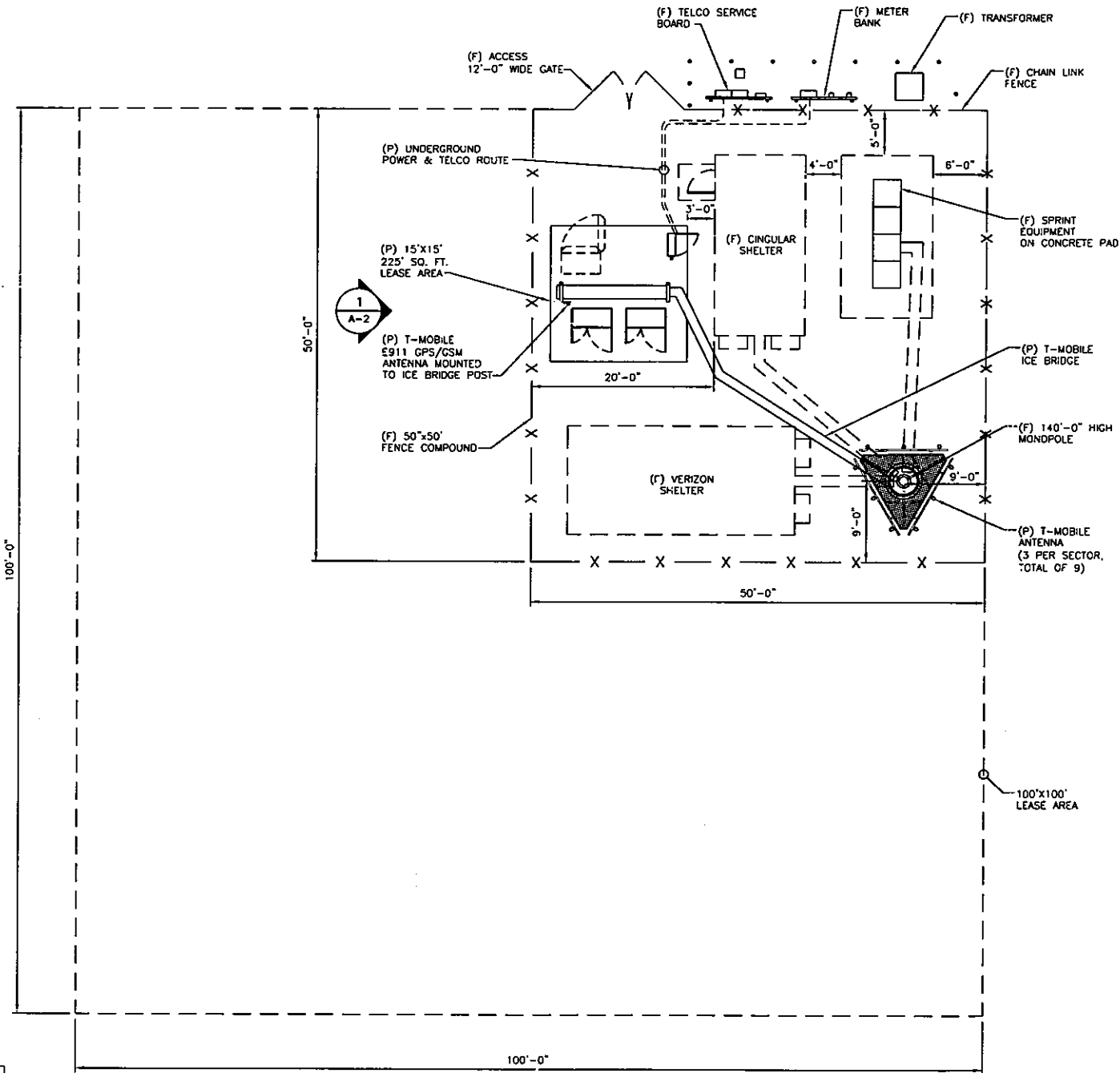
SHEET TITLE
 TITLE SHEET

SHEET NUMBER
 T-1

REFER TO SPRINT PCS DWG
 FOR SITE CT33XC607
 BY DEWBERRY DT. 04/05/07

NOTES:

- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY CONSTRUCTION CONTROL SURVEYS AND MAINTAINING ALL LINES AND GRADES REQUIRED TO CONSTRUCT ALL IMPROVEMENTS SHOWN HEREIN.
- ALL DIMENSIONS SHOWN THUS ± ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS WHICH EFFECT THE CONTRACTORS WORK. CONTRACTOR TO VERIFY ALL DIMENSIONS WITH PROJECT OWNER PRIOR TO CONSTRUCTION.
- NORTH ARROW SHOWN ON PLANS REFERS TO APPROXIMATE TRUE NORTH. CONTRACTOR SHALL RETAIN THE SERVICES OF A PROFESSIONAL SURVEYOR TO VERIFY TRUE NORTH AND PROVIDE AS-BUILT ANTENNA AZIMUTH, ANTENNA MECHANICAL DOWN-TILT AND ANTENNA RADIATION CENTER HEIGHT (AGL) CERTIFICATIONS FOR ANTENNA AZIMUTHS MUST BE WITHIN 3 DEGREES OF THE SPECIFIED SECTOR ORIENTATION ON THE RF BUILD SHEET.
- THE CONTRACTOR AND OR HIS SUB 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.
- ANTENNA INSTALLATION SHALL BE CONDUCTED BY FIELD CREWS EXPERIENCED IN THE ASSEMBLY AND ERECTION OF RADIO ANTENNAS, TRANSMISSION LINES AND SUPPORT STRUCTURES.
- COAXIAL CABLE CONNECTORS AND TRANSMITTER EQUIPMENT SHALL BE PROVIDED BY THE PROJECT OWNER AND IS NOT INCLUDED IN THESE CONSTRUCTION DOCUMENTS. A SCHEDULE OF PROJECT OWNER SUPPLIED MATERIALS IS ATTACHED TO THE BID DOCUMENTS (SEE EXHIBIT 3). ALL OTHER HARDWARE TO BE PROVIDED BY THE CONTRACTOR. CONNECTION HARDWARE SHALL BE STAINLESS STEEL.
- WHEN "PAINT TO MATCH" IS SPECIFIED FOR ANTENNA CONCEALMENT, PAINT PRODUCT FOR ANTENNA RADOME SHALL BE SHERWIN WILLIAMS COROTHANE II. SURFACE PREPARATION AND APPLICATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND PROJECT OWNER'S GUIDELINES.
- COORDINATION, LAYOUT, AND FURNISHING OF CONDUIT, CABLE AND ALL APPURTENANCES REQUIRED FOR PROPER INSTALLATION OF ELECTRICAL AND TELECOMMUNICATION SERVICE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- ALL UTILITY WORK SHALL BE IN ACCORDANCE WITH LOCAL UTILITY COMPANY REQUIREMENTS AND SPECIFICATIONS.
- ALL (E) ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR PIER DRILLING AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW.
- ALL (E) INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF UTILITY COMPANY ENGINEERING.
- THE AREAS OF THE PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE EQUIPMENT, DRIVEWAY OR GRAVEL, SHALL BE GRADED TO A UNIFORM SLOPE, FERTILIZED, SEEDED AND COVERED WITH MULCH UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN SOIL EROSION AND SEDIMENTATION CONTROLS AT ALL TIMES DURING CONSTRUCTION.
- PER FCC MANDATE, ENHANCED EMERGENCY (E911) SERVICE IS REQUIRED TO MEET NATIONWIDE STANDARDS FOR WIRELESS COMMUNICATIONS SYSTEMS. PROJECT OWNER'S IMPLEMENTATION REQUIRES DEPLOYMENT OF EQUIPMENT AND ANTENNAS GENERALLY DEPICTED ON THIS PLAN, ATTACHED TO OR MOUNTED IN CLOSE PROXIMITY TO THE BTS RADIO CABINETS. PROJECT OWNER RESERVES THE RIGHT TO MAKE REASONABLE MODIFICATIONS TO E911 EQUIPMENT AND LOCATION AS TECHNOLOGY EVOLVES TO MEET REQUIRED SPECIFICATIONS.



STRUCTURAL ANALYSIS OF MONOPOLE BY OTHERS

SITE PLAN

SCALE: 1/8"=1'-0"

NORTH



(E)-EXISTING
(F)-FUTURE
(P)-PROPOSED

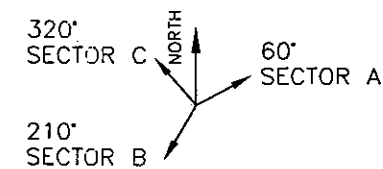
ABBREVIATIONS

ADJ	ADJUSTABLE	NTS	NOT TO SCALE
APPROX	APPROXIMATE	OC	ON CENTER
BTS	BASE TRANSMISSION STATION	OPP	OPPOSITE
C	CONDUIT	(P)	PROPOSED
CMU	CONCRETE MASONRY UNIT	SF	SQUARE FOOT
CONC	CONCRETE	SHT	SHEET
CONT	CONTINUOUS	SIM	SIMILAR
CJ	CONSTRUCTION JOINT	STL	STEEL
DIA	DIAMETER	TOC	TOP OF CONCRETE
DWG	DRAWING	TOM	TOP OF MASONRY
EGB	EQUIPMENT GROUND BAR	TYP	TYPICAL
EA	EACH	VIF	VERIFY IN FIELD
ELEC	ELECTRICAL	UON	UNLESS OTHERWISE NOTED
EL	ELEVATION	WWF	WELDED WIRE FABRIC
EQ	EQUAL	W/	WITH
EQUIP	EQUIPMENT	PCS	PERSONAL COMMUNICATIONS SERVICES
(E)	EXISTING	A-1	ANTENNA MARK NO.
EXT	EXTERIOR	CL	CENTERLINE
FF	FINISHED FLOOR	PL	PLATE
FG	FINISHED GRADE	&	AND
GA	GAUGE	@	AT
GALV	GALVANIZED		
GC	GENERAL CONTRACTOR		
GWB	GYPSONUM WALLBOARD		
LG	LONG		
LNA	LOW NOISE AMPLIFIER		
MAX	MAXIMUM		
MECH	MECHANICAL		
MFR	MANUFACTURER		
MGB	MASTER GROUND BAR		
MIN	MINIMUM		
MTL	METAL		
NIC	NOT IN CONTRACT		

SYMBOLS AND MATERIALS

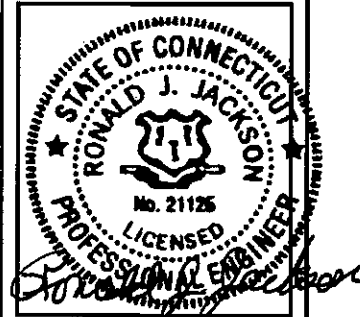
	NEW ANTENNA		GROUT OR PLASTER
	EXISTING ANTENNAS		GWB
	ASPHALT		(E)CONSTRUCTION
	NEW ACCESS EASEMENT		CONCRETE
	CONCRETE		EARTH
	ELECTRIC BOX		GRAVEL
	LIGHT POLE		PLYWOOD
	FND. MONUMENT		SAND
	SPOT ELEVATION		WOOD CONT.
	SET POINT		WOOD BLOCKING
	REVISION		STEEL
	GRID REFERENCE		CENTER LINE
	DETAIL REFERENCE		PROPERTY LINE
	SECTION & DETAILS		STEPPED FOOTING
	WORK ITEM NOTE		MATCH LINE
			WORK POINT
			GROUND WIRE
			COAXIAL CABLE
			CHAIN LINK FENCE
			WATER MAIN

ANTENNA ORIENTATION KEY



OMNIPONT COMMUNICATIONS INC.

A WHOLLY-OWNED SUBSIDIARY
OF T-MOBILE USA, INC.
35 GRIFFIN ROAD SOUTH
BLOOMFIELD, CT 06002
OFFICE: (860)-692-7100
FAX: (860)-692-7159



APPROVALS

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

PROJECT NO: 2806.035

DRAWN BY: PT

CHECKED BY: RS

SUBMITTALS

3	11/13/07	FINAL CONSTRUCTION
2	10/25/07	ANTENNA HEIGHT REVISED
1	09/25/07	FINAL CONSTRUCTION
0	08/18/07	CONSTRUCTION

THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF OMNIPONT COMMUNICATIONS, INC. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED. IF THIS DRAWING IS NOT 24"x36", IT IS NOT TO SCALE.

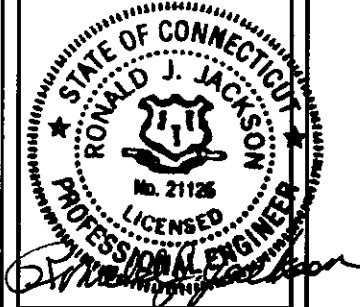
SITE
CTNH375E
LITCHFIELD
383 TORRINGTON ROAD
LITCHFIELD, CT 06759

SHEET TITLE
PLAN
&
NOTES

SHEET NUMBER
A-1

OMNIPONT COMMUNICATIONS INC.
 A WHOLLY-OWNED SUBSIDIARY
 OF T-MOBILE USA, INC.
 35 GRIFFIN ROAD SOUTH
 BLOOMFIELD, CT 06002
 OFFICE: (860)-692-7100
 FAX: (860)-692-7159

MAXTON
 50 EASTMAN ST.
 SOUTH EASTON, MA 02375
 PHONE: (508) 936-6393
 FAX: (508) 936-6395



APPROVALS

LANDLORD _____

LEASING _____

R.F. _____

ZONING _____

CONSTRUCTION _____

A/E _____

PROJECT NO: 2806.035

DRAWN BY: PT

CHECKED BY: RS

SUBMITTALS

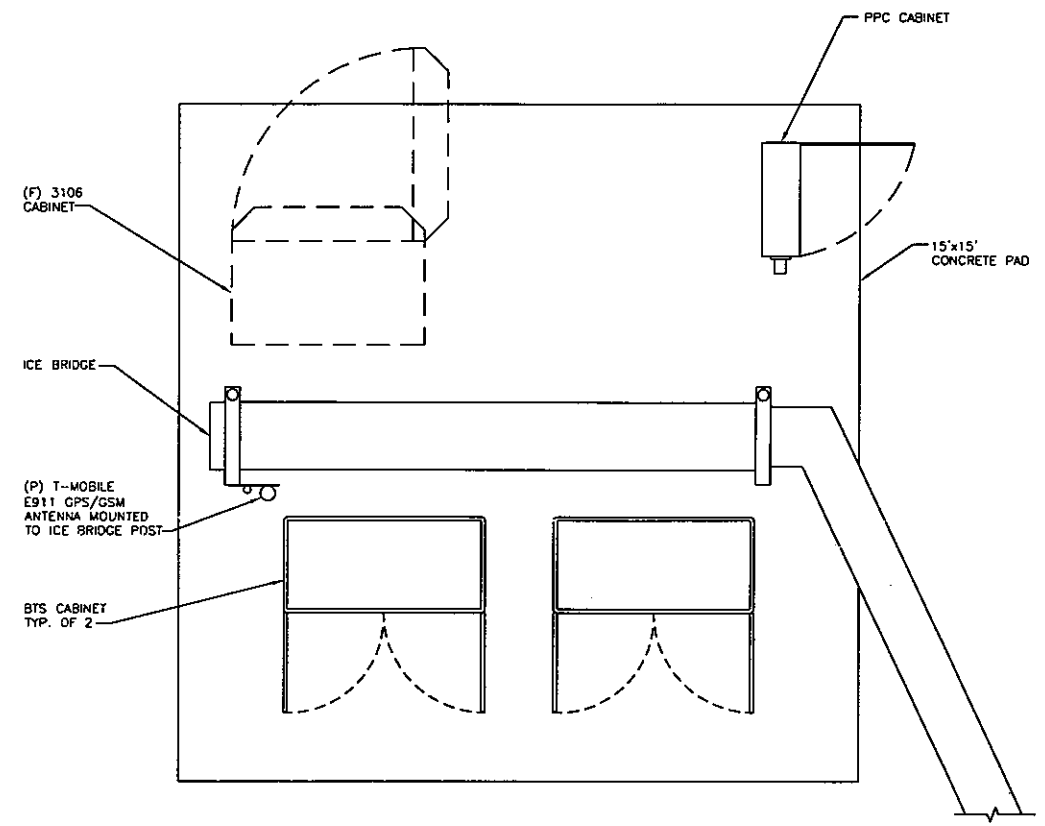
3	11/13/07	FINAL CONSTRUCTION
2	10/25/07	ANTENNA HEIGHT REVISED
1	09/25/07	FINAL CONSTRUCTION
0	09/18/07	CONSTRUCTION

THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF OMNIPONT COMMUNICATIONS, INC. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED. IF THIS DRAWING IS NOT 24"x36", IT IS NOT TO SCALE.

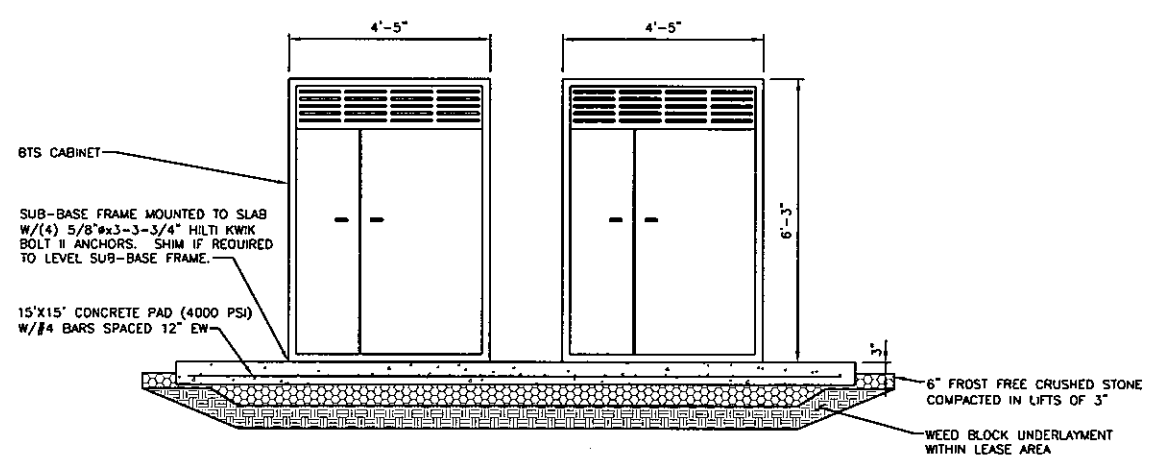
SITE
 CTNH375E
 LITCHFIELD
 383 TORRINGTON ROAD
 LITCHFIELD, CT 06759

SHEET TITLE
 ELEVATION
 &
 DETAILS

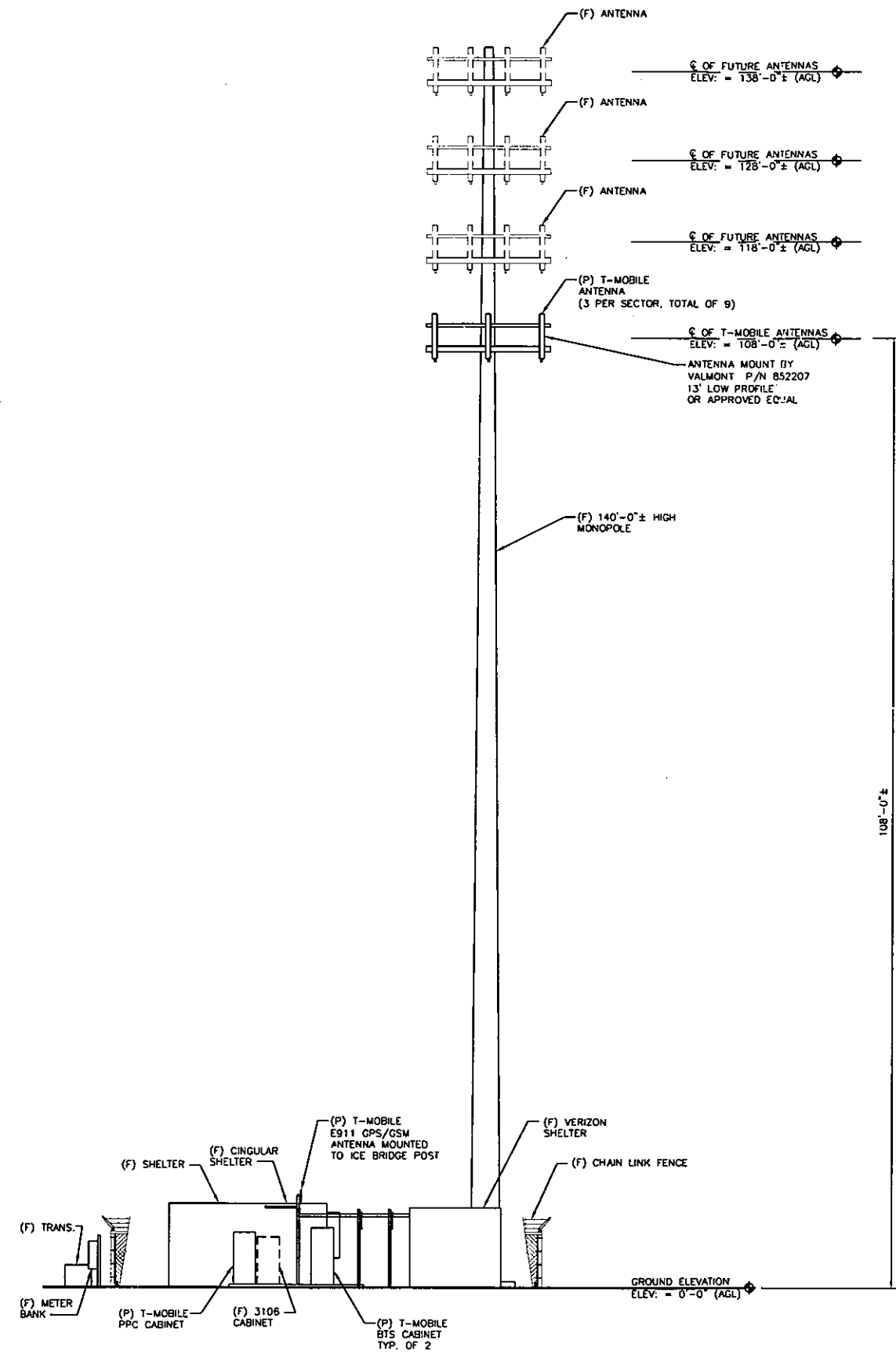
SHEET NUMBER
 A-2



EQUIPMENT LAYOUT
 SCALE: 1/2" = 1'-0" (2)



ELEVATION AT EQUIPMENT PAD
 SCALE: 1/2" = 1'-0" (3)



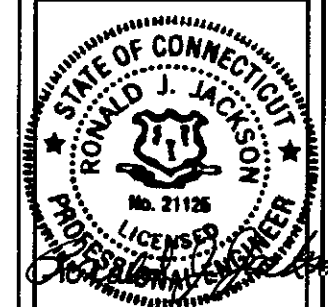
WEST ELEVATION
 SCALE: 1/8" = 1'-0" (1)

NOTE:
 MONOPOLE AND FOUNDATION
 ANALYSIS BY OTHERS

(E)-EXISTING
 (F)-FUTURE
 (P)-PROPOSED

OMNIPONT COMMUNICATIONS INC.
 A WHOLLY-OWNED SUBSIDIARY
 OF T-MOBILE USA, INC.
 35 GRIFFIN ROAD SOUTH
 BLOOMFIELD, CT 06002
 OFFICE: (860)-692-7100
 FAX: (860)-692-7159

MAXTON
 50 EASTMAN ST.
 SOUTH EASTON, MA 02375
 PHONE: (508) 936-6393
 FAX: (508) 936-6395



APPROVALS

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

PROJECT NO: 2806.035
 DRAWN BY: PT
 CHECKED BY: RS

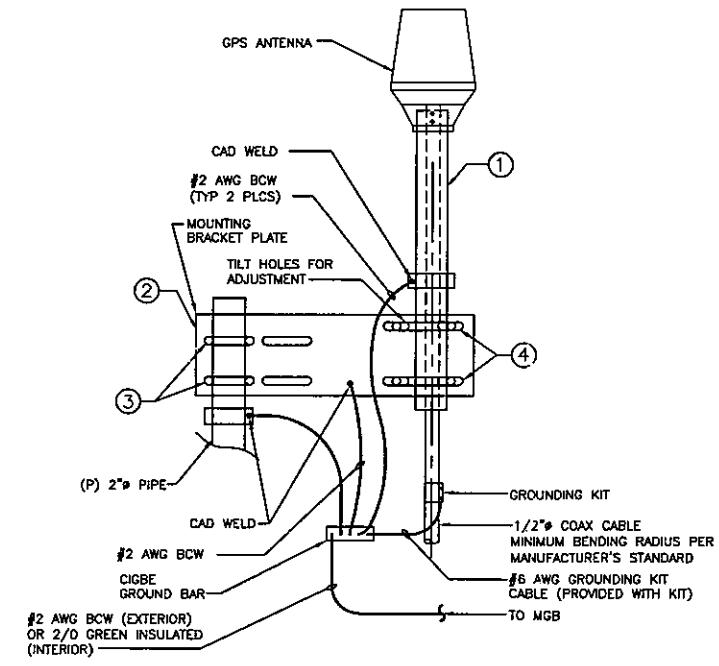
SUBMITTALS	
3	11/13/07 FINAL CONSTRUCTION
2	10/25/07 ANTENNA HEIGHT REVISED
1	09/25/07 FINAL CONSTRUCTION
0	09/18/07 CONSTRUCTION

THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF OMNIPONT COMMUNICATIONS, INC. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED. IF THIS DRAWING IS NOT 24"x36", IT IS NOT TO SCALE.

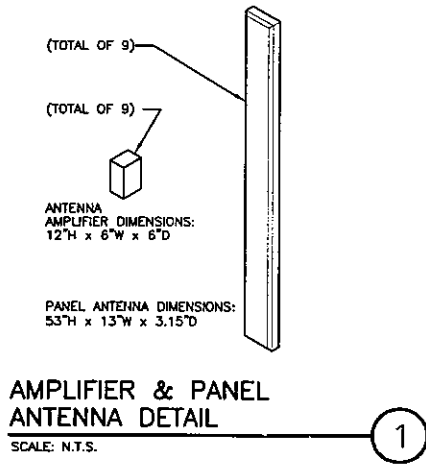
SITE
 CTNH375E
 LITCHFIELD
 383 TORRINGTON ROAD
 LITCHFIELD, CT 06759

SHEET TITLE
 DETAILS

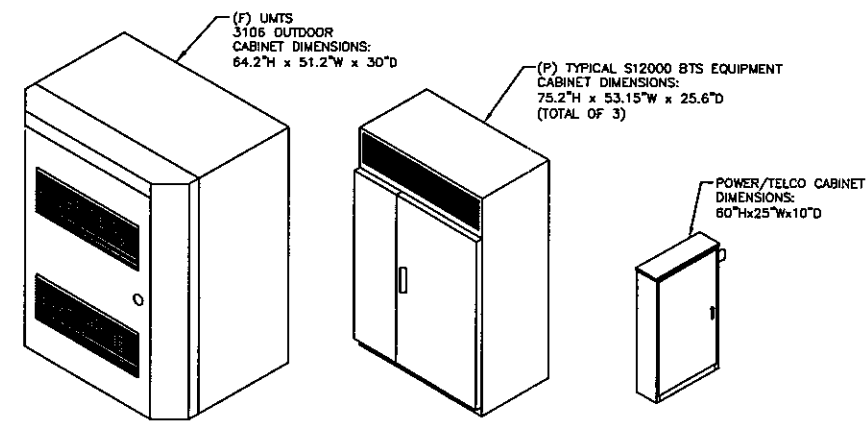
SHEET NUMBER
 A-3



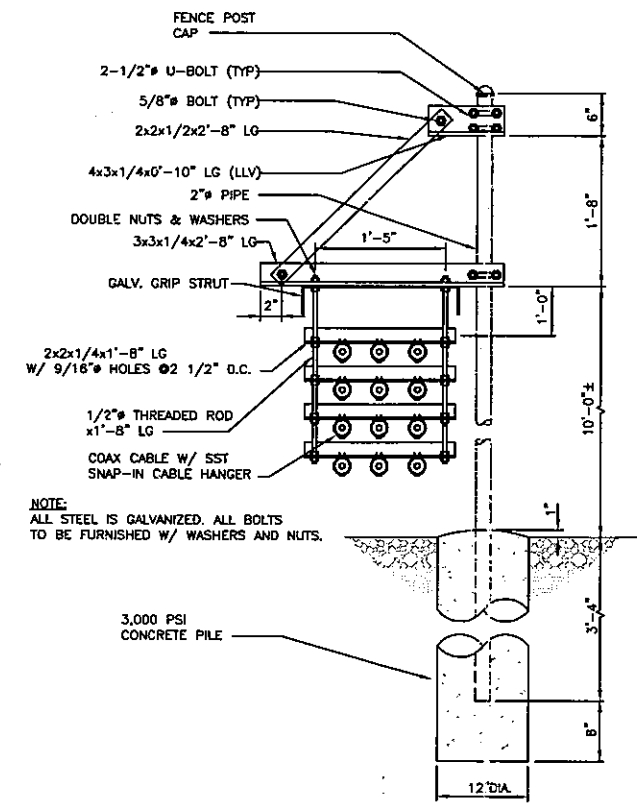
GPS ANTENNA DETAIL
 SCALE: N.T.S.



AMPLIFIER & PANEL ANTENNA DETAIL
 SCALE: N.T.S.

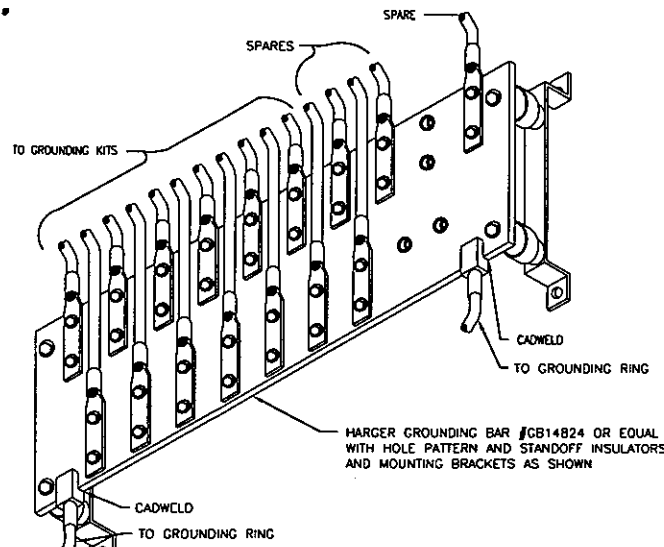


BTS EQUIPMENT DETAIL
 SCALE: N.T.S.

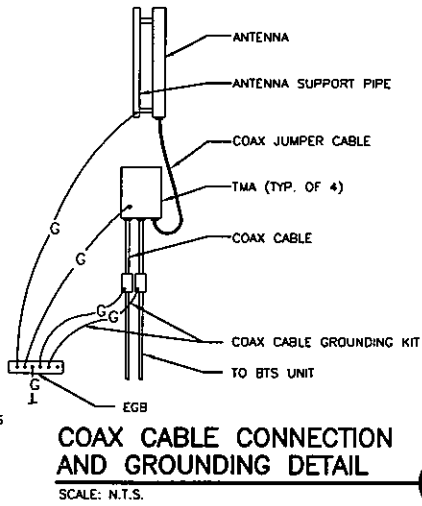


SECTION AT CABLE BRIDGE
 SCALE: 3/4"=1'-0"

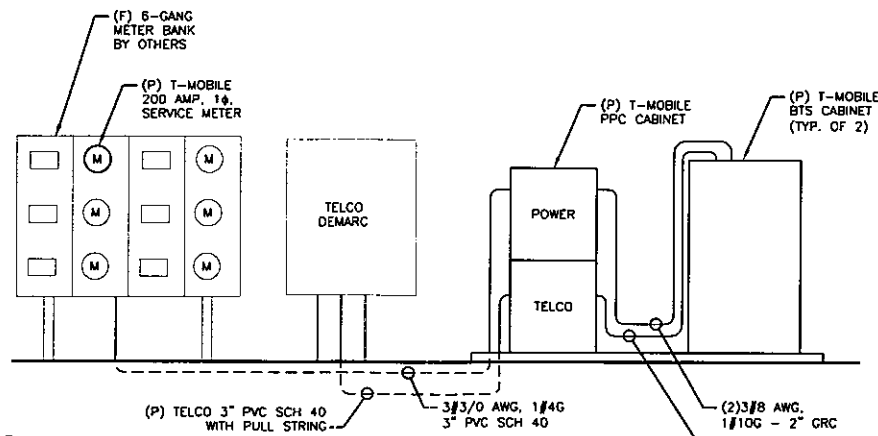
NOTE:
 ALL STEEL IS GALVANIZED. ALL BOLTS TO BE FURNISHED W/ WASHERS AND NUTS.



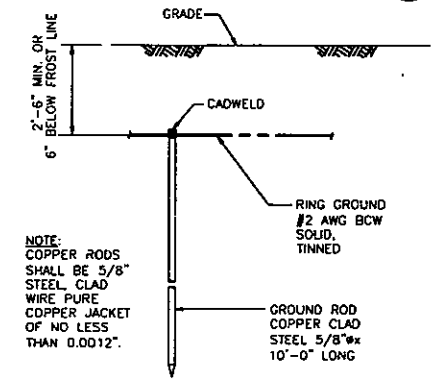
MASTER GND. BAR (MGB)
SCALE: N.T.S.



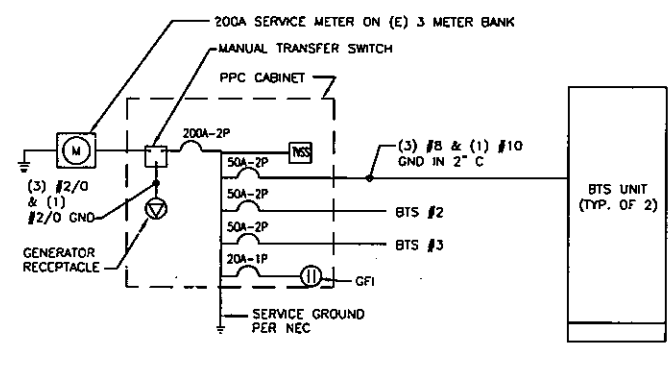
COAX CABLE CONNECTION AND GROUNDING DETAIL
SCALE: N.T.S.



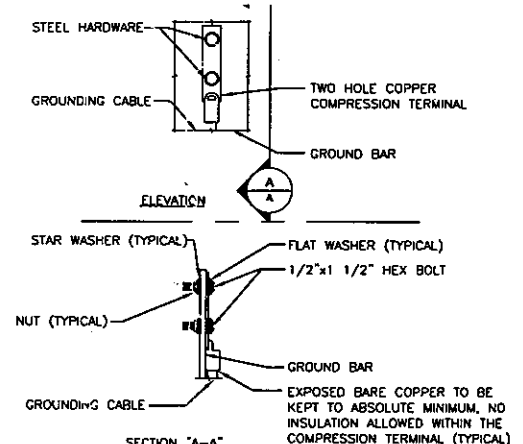
POWER/TELCO RISER DIAGRAM
SCALE: N.T.S.



GROUNDING - STANDARD DETAIL GROUND ROD
SCALE: N.T.S.



ONE LINE DIAGRAM
SCALE: N.T.S.



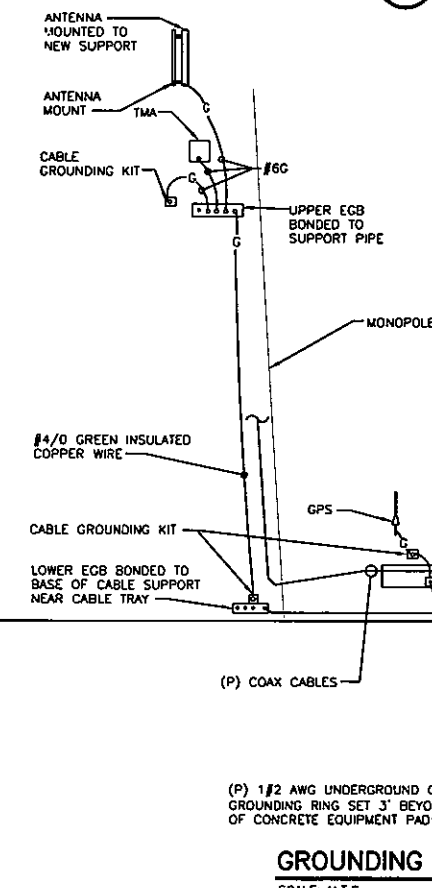
TYPICAL GROUND BAR CONNECTIONS DETAIL
SCALE: N.T.S.

ELECTRICAL LEGEND

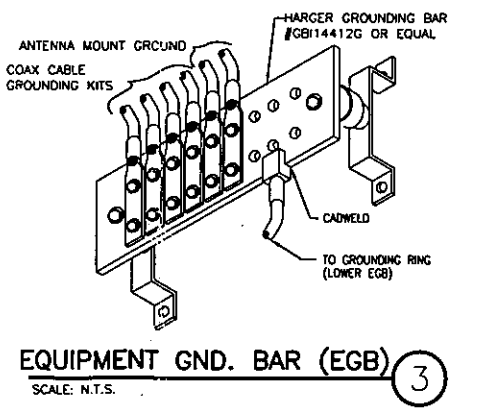
	NEW PANEL BOARD, SURFACE MOUNTED
	EXISTING PANEL BOARD, SURFACE MOUNTED
	DRY TYPE TRANSFORMER
	METER
	CIRCUIT BREAKER
	NON-FUSIBLE DISCONNECT SWITCH, MOUNTED 54" A.F.F.
	FUSIBLE DISCONNECT SWITCH, MOUNTED 54" A.F.F.
	TRANSIENT VOLTAGE SURGE SUPPRESSOR WITH BUILT-IN FUSES, SURFACE MOUNTED
	DUPLEX OUTLET, SURFACE MOUNTED, 20 AMPS, 125 VOLTS, SINGLE PHASE
	JUNCTION BOX, SURFACE MOUNTED 18" A.F.F.
	EXPOSED WIRING
	HOME RUNS, MINIMUM 2#10 + 1#10G IN 3/4" CONDUIT U.O.N.
	A.F.F. ABOVE FINISHED FLOOR
	U.O.N. UNLESS OTHERWISE NOTED
	WP WEATHERPROOF
	GFI GROUND FAULT INTERRUPTER
	A AMPERE
	V VOLT
	KWH KILOWATT - HOUR
	C CONDUIT
	G GROUND
	G GROUND
	MGB MASTER GROUND BAR - MECHANICAL CONNECTION - CADWELD CONNECTION
	EGB EQUIPMENT GROUND BAR - MECHANICAL CONNECTION - CADWELD CONNECTION
	G GROUND COPPER WIRE, SIZE AS NOTED
	EXPOSED WIRING
	COAXIAL CABLE
	5/8"x10' COPPER CLAD STEEL GROUND ROD
	EXOTHERMIC (CADWELD) OR MECHANICAL (COMPRESSION TYPE) CONNECTION
	PPC POWER PROTECTION CABINET

ELECTRICAL AND GROUNDING NOTES

- ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.
- ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER SPECIFICATION REQUIREMENTS.
- THE ELECTRICAL WORK INCLUDES ALL LABOR AND MATERIAL DESCRIBED BY DRAWINGS AND SPECIFICATION INCLUDING INCIDENTAL WORK TO PROVIDE COMPLETE OPERATING AND APPROVED ELECTRICAL SYSTEM.
- GENERAL CONTRACTOR SHALL PAY FEES FOR PERMITS, AND IS RESPONSIBLE FOR OBTAINING SAID PERMITS AND COORDINATION OF INSPECTIONS.
- ELECTRICAL AND TELCO WIRING OUTSIDE A BUILDING AND EXPOSED TO WEATHER SHALL BE IN WATER TIGHT GALVANIZED RIGID STEEL CONDUITS OR SCHEDULE 80 PVC (AS PERMITTED BY CODE) AND WHEFE REQUIRED IN LIQUID TIGHT FLEXIBLE METAL OR NONMETALLIC CONDUITS.
- BURIED CONDUIT SHALL BE SCHEDULE 40 PVC.
- ELECTRICAL WIRING SHALL BE COPPER WITH TYPE XHHW, THWN, OR THIN INSULATION.
- RUN ELECTRICAL CONDUIT OR CABLE BETWEEN ELECTRICAL UTILITY DEMARCATION POINT AND T-MOBILE CELL SITE POWER PEDESTAL AS INDICATED ON THIS DRAWING. PROVIDE FULL LENGTH PULL ROPE. COORDINATE INSTALLATION WITH UTILITY COMPANY.
- RUN TELCO CONDUIT OR CABLE BETWEEN TELEPHONE UTILITY DEMARCATION POINT AND T-MOBILE CELL SITE TELCO CABINET AND BTS CABINET AS INDICATED ON THIS DRAWING. PROVIDE FULL LENGTH PULL ROPE IN INSTALLED TELCO CONDUIT. PROVIDE GREENLEE CONDUIT MEASURING TAPE AT EACH END.
- WHERE CONDUIT BETWEEN BTS AND T-MOBILE CELL SITE POWER PEDESTAL AND BETWEEN BTS AND T-MOBILE CELL SITE TELCO SERVICE CABINET ARE UNDERGROUND USE PVC, SCHEDULE 40 CONDUIT. ABOVE THE GROUND PORTION OF THESE CONDUITS SHALL BE PVC CONDUIT.
- ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE NEMA 3R ENCLOSURE.
- PPC SUPPLIED BY T-MOBILE.
- GROUNDING SHALL COMPLY WITH NEC: ARTICLE 250.
- GROUND COAXIAL CABLE SHIELDS MINIMUM AT BOTH ENDS USING MANUFACTURERS COAX CABLE GROUNDING KITS SUPPLIED BY T-MOBILE.
- USE #6 COPPER STRANDED WIRE WITH GREEN COLOR INSULATION FOR ABOVE GRADE GROUNDING (UNLESS OTHERWISE SPECIFIED) AND #2 SOLID TINNED BARE COPPER WIRE FOR BELOW GRADE GROUNDING AS INDICATED ON THE DRAWING.
- ALL GROUND CONNECTIONS TO BE BIRNBY HYGROUND COMPRESSION TYPE CONNECTORS OR CADWELD EXOTHERMIC WELD. DO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT WITH GALVANIZED STEEL.
- ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE. EXCEPT AS OTHERWISE INDICATED, GROUNDING LEADS SHOULD NEVER BE BENT AT RIGHT ANGLE. ALWAYS MAKE AT LEAST 12" RADIUS BENDS. #6 WIRE CAN BE BENT AT 6" RADIUS WHEN NECESSARY. BOND ANY METAL OBJECTS WITHIN 7 FEET OF T-MOBILE EQUIPMENT OR CABINET TO MASTER GROUND BAR.
- CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS.
- APPLY OXIDE INHIBITING COMPOUND TO ALL COMPRESSION TYPE GROUND CONNECTIONS.
- BOND ANTENNA MOUNTING BRACKETS, COAXIAL CABLE GROUND KITS, AND TMA TO EGB PLACED NEAR THE ANTENNA LOCATION.
- BOND ANTENNA EGB'S AND MGB TO GROUND RING.
- TEST COMPLETED GROUND SYSTEM AND RECORD RESULTS FOR PROJECT CLOSE-OUT DOCUMENTATION. 5 OHMS MINIMUM RESISTANCE REQUIRED.



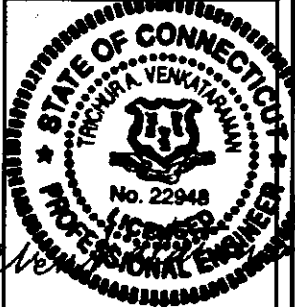
GROUNDING RISER DIAGRAM
SCALE: N.T.S.



EQUIPMENT GND. BAR (EGB)
SCALE: N.T.S.

OMNIPONT COMMUNICATIONS INC.
A WHOLLY-OWNED SUBSIDIARY OF T-MOBILE USA, INC.
35 GRIFFIN ROAD SOUTH
BLOOMFIELD, CT 06002
OFFICE: (860)-692-7100
FAX: (860)-692-7159

MAXTON
50 EASTMAN ST.
SOUTH EASTON, MA 02375
PHONE: (508) 936-6393
FAX: (508) 936-6395



APPROVALS

LANDLORD _____

LEASING _____

R.F. _____

ZONING _____

CONSTRUCTION _____

A/E _____

PROJECT NO: 2806.035

DRAWN BY: PT

CHECKED BY: RS

SUBMITTALS

3	11/13/07	FINAL CONSTRUCTION
2	10/25/07	ANTENNA HEIGHT REVISD
1	09/25/07	FINAL CONSTRUCTION
0	09/18/07	CONSTRUCTION

THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF OMNIPONT COMMUNICATIONS, INC. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED. IF THIS DRAWING IS NOT 24"x36", IT IS NOT TO SCALE.

SITE
CTNH375E
LITCHFIELD
383 TORRINGTON ROAD
LITCHFIELD, CT 06759

SHEET TITLE
**ELECTRICAL RISERS,
DETAILS
& NOTES**

SHEET NUMBER
E-1

Exhibit 2

**Sprint PCS
Structure & Foundation
Design Calculations
140' Monopole
Site: Litchfield/CT33XC607
EEI Job #: 14854-E01**

MATERIAL REQ. PER ASSEMBLY

QTY	DWG.	PK. NO.	DESCRIPTION
1	1		SHAFT ASSY. (DWS) 44 1/2 U.S.
1	2		SHAFT ASSY. (HORSE) 92 3/8 U.S.
1	3		SHAFT ASSY. (CORN) 57 1/2 U.S.
1	4		TOP & 3/8" ACCESS PORT CORN PL
1	5		HARDWARE AS FOLLOWS:
2	6	R11097	8" x 12" HARDSHOLE COVER PL.
2	7	R11097	8" x 12" HARDSHOLE COVER PL.
2	8	S114789	REMOVABLE COVER PLATE
2	9	25-40000-4	25-40000-4 15/16" X 1 3/8" X 1/2" X 1/8" STAINLESS STEEL W/ LOCKWASHERS
2	10	51000	25-40000-4 15/16" X 1 3/8" X 1/2" X 1/8" STAINLESS STEEL W/ LOCKWASHERS
1	11	25-40000-4	25-40000-4 15/16" X 1 3/8" X 1/2" X 1/8" STAINLESS STEEL W/ LOCKWASHERS
1	12	25-40000-4	25-40000-4 15/16" X 1 3/8" X 1/2" X 1/8" STAINLESS STEEL W/ LOCKWASHERS
1	13	25-40000-4	25-40000-4 15/16" X 1 3/8" X 1/2" X 1/8" STAINLESS STEEL W/ LOCKWASHERS
1	14	25-40000-4	25-40000-4 15/16" X 1 3/8" X 1/2" X 1/8" STAINLESS STEEL W/ LOCKWASHERS
1	15	25-40000-4	25-40000-4 15/16" X 1 3/8" X 1/2" X 1/8" STAINLESS STEEL W/ LOCKWASHERS
1	16	25-40000-4	25-40000-4 15/16" X 1 3/8" X 1/2" X 1/8" STAINLESS STEEL W/ LOCKWASHERS
1	17	25-40000-4	25-40000-4 15/16" X 1 3/8" X 1/2" X 1/8" STAINLESS STEEL W/ LOCKWASHERS
1	18	25-40000-4	25-40000-4 15/16" X 1 3/8" X 1/2" X 1/8" STAINLESS STEEL W/ LOCKWASHERS
1	19	25-40000-4	25-40000-4 15/16" X 1 3/8" X 1/2" X 1/8" STAINLESS STEEL W/ LOCKWASHERS

GENERAL NOTES:

1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

2. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE NOTED.

3. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE NOTED.

4. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE NOTED.

5. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE NOTED.

6. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE NOTED.

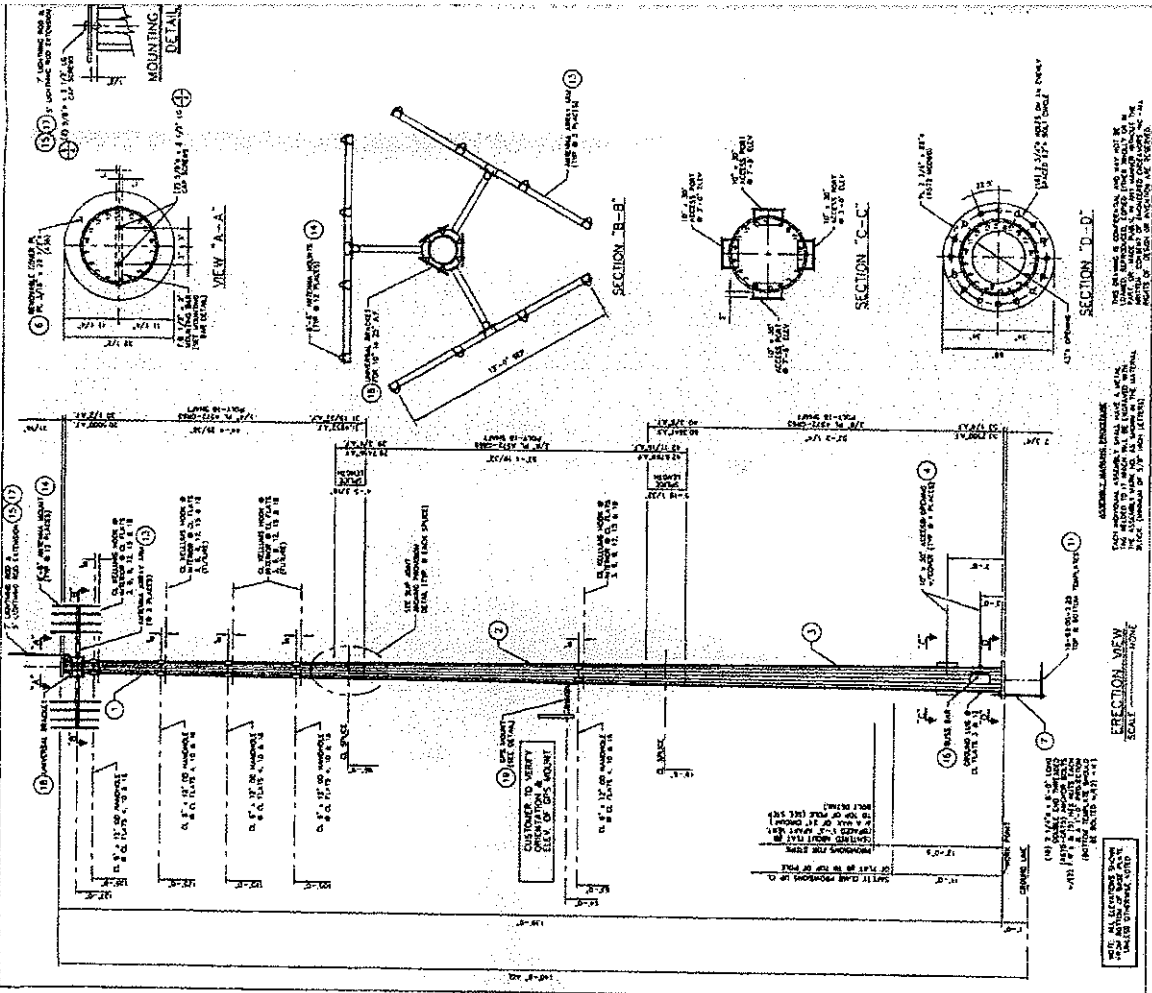
7. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE NOTED.

8. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE NOTED.

9. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE NOTED.

10. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE NOTED.

ENGINEERED ENDAVOR'S INCORPORATED	
140 MONROE	
SPRINT PCS	
LITCHFIELD COUNTY, VT	
DATE:	11/18/68
PROJECT NO:	160-100-01
DRAWN BY:	CSS/S/785





ENGINEERED ENDEAVORS INCORPORATED
The Experienced Point of View

Customer: SPRINT PCS
Description: 140' MONOPOLE
EEI Job Number: 14854-0



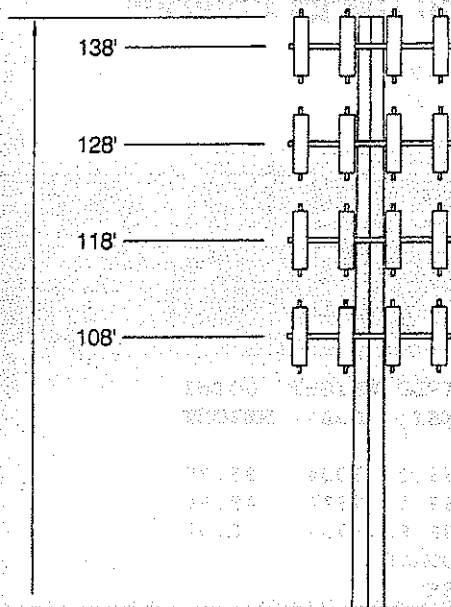
SITE INFORMATION

Location: LITCHFIELD,
LITCHFIELD COUNTY, CT
Site Name: LITCHFIELD
Site Number: CT33XC607

DESIGN INFORMATION

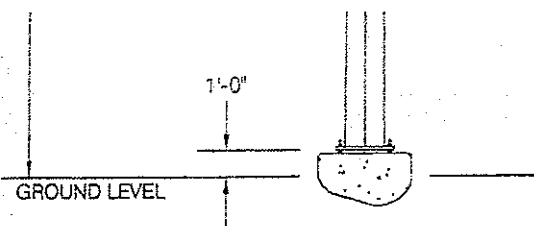
Designed By: P. SCHWARTZ
Design Date: 04 / 13 / 2007
Status: REVISION 0

ANTENNA LOADING



- (12) 48" x 10" x 6" PANEL ANTENNAS MOUNTED ON A 12' T-ARM ARRAY AT 138' (CELLCO PARTNERSHIP - FUTURE)
- (12) 96" x 12" x 6" PANEL ANTENNAS MOUNTED ON A 12' T-ARM ARRAY AT 128' (SPRINT PCS)
- (12) 48" x 10" x 6" PANEL ANTENNAS MOUNTED ON A 12' T-ARM ARRAY AT 118' (CINGULAR - FUTURE)
- (12) 48" x 10" x 6" PANEL ANTENNAS MOUNTED ON A 12' T-ARM ARRAY AT 108' (FUTURE)
- (1) GPS ANTENNA MOUNTED AT 65' (SPRINT PCS)

DESIGN CRITERIA



ENGINEERED ENDEAVORS, INC.

7610 Jenther Drive • Mentor, Ohio 44060-4872
Phone: (440) 918-1101 • Phone: (888) 270-3855
Fax: (440) 918-1108 • www.engend.com

APPURTENANCES

DESCRIPTION	NUM.	ELEV.	Kz	< WITHOUT ICE >			< WITH ICE >			Ca FACTOR
				AREA	WGT	Ca	AREA	WGT	Ca	
8'x1' PANEL ANTENNAS	12	127	1.470	8.00	50	1.4300	8.76	112	1.4200	0.96
4'x10in PANEL ANTENN	12	137	1.502	3.33	25	1.4000	3.74	54	1.4000	1.01
T-ARM W/12' SEPARATI	3	137	1.502	5.00	400	0.7000	6.00	600	0.7000	1.00
4'x10in PANEL ANTENN	12	117	1.436	3.33	25	1.4000	3.74	54	1.4000	1.01
T-ARM W/12' SEPARATI	3	117	1.436	5.00	400	2.0000	6.00	600	2.0000	1.00
4'x10in PANEL ANTENN	12	107	1.399	3.33	25	1.4000	3.74	54	1.4000	1.01
T-ARM W/12' SEPARATI	3	107	1.399	5.00	400	0.7000	6.00	600	0.7000	1.00
T-ARM W/12' SEPARATI	3	127	1.470	5.00	400	0.7000	6.00	600	0.7000	1.00
GPS	1	64	1.208	2.00	25	0.8000	2.26	45	0.8000	1.00

LOAD CASE 2

BASIC LOADING

DEAD LOAD FACTOR 1.00 WIND PSF REDUCTION 1.00 RADIAL ICE 0.00 IN.

WIND VELOCITY 90 BOTTOM 20.91 PSF TOP 31.47 PSF
 MAX BASE ROTATION 0.00 DEG

APPLIED APPURTENANCE FORCES

	ELEVATION FT	WEIGHT KIPS	WIND KIPS
8'x1' PANEL ANTENNAS	127.00	0.600	6.788
4'x10in PANEL ANTENNAS	137.00	0.300	2.974
T-ARM W/12' SEPARATION	137.00	1.200	0.553
4'x10in PANEL ANTENNAS	117.00	0.300	2.843
T-ARM W/12' SEPARATION	117.00	1.200	1.509
4'x10in PANEL ANTENNAS	107.00	0.300	2.771
T-ARM W/12' SEPARATION	107.00	1.200	0.515
T-ARM W/12' SEPARATION	127.00	1.200	0.541
GPS	64.00	0.025	0.068

TUBE PROPERTIES		MEMBER FORCES		STRESSES			STRESS	TOTAL		
ELEV	DIAM	WALL	SHEAR	BENDING	AXIAL	AXIAL	BEND.	ALLOW RATIOS	DEFL	TILT
FT	IN	IN	K	K-FT	K	KSI	KSI	KSI	IN	DEG

36.00	44.38	0.3750	26.07	2021.02	18.69	0.36	42.88	48.56	0.89	5.6	1.49
24.00	47.34	0.3750	26.96	2344.41	20.94	0.38	43.66	47.80	0.92	2.4	0.97
12.00	50.29	0.3750	27.79	2677.82	23.21	0.39	44.11	47.13	0.94	0.6	0.47
0.00	53.25	0.3750	29.19	3021.64	26.86	0.43	44.35	46.53	0.96	0.0	0.00

REACTION COMPONENTS (KIPS AND FT-KIPS)

TRANSVERSE	VERTICAL	WIND	MOMENT ABOUT	MOMENT ABOUT	MOMENT ABOUT
SHEAR	FORCE	SHEAR	TRANSVERSE	VERTICAL	WIND AXIS
0.000	26.862	-29.193	3021.636	0.000	0.000

DATE: 01/11/2019

SUMMARY TABLE

ELEV	STRESS RATIO	AXIAL	BENDING	LOADING
139.00	0.00	0.05	0.0	3 BASIC LOADING PLUS ICE
137.00	0.01	1.54	0.1	2 BASIC LOADING
127.00	0.09	1.54	40.4	2 BASIC LOADING
117.00	0.30	3.26	161.5	2 BASIC LOADING
107.00	0.53	5.08	333.9	2 BASIC LOADING
96.75	0.76	7.16	552.9	2 BASIC LOADING
84.00	0.61	9.04	836.7	2 BASIC LOADING
74.00	0.68	10.69	1068.1	2 BASIC LOADING
64.00	0.74	12.26	1307.3	2 BASIC LOADING
49.50	0.84	18.69	1669.2	2 BASIC LOADING
36.00	0.89	18.69	2021.0	2 BASIC LOADING
24.00	0.92	20.94	2344.4	2 BASIC LOADING
12.00	0.94	23.21	2677.8	2 BASIC LOADING
0.00	0.96	26.86	3021.6	2 BASIC LOADING

MAXIMUM SUPPORT MOMENT K-FT 3021.64
 CORRESPONDING AXIAL FORCE KIPS 26.86
 CORRESPONDING SHEAR FORCE KIPS 29.19



**ENGINEERED
ENDEAVORS
INCORPORATED**

The Experienced Point of View



DESIGN CALCULATIONS FOR A DRILLED PIER FOUNDATION

SPRINT PCS 140' MONOPOLE

April 17, 2007

7610 Jenther Drive • Mentor, Ohio 44060-4872
Phone: (440) 918-1101 • Phone: (888) 270-3855
Fax: (440) 918-1108 • www.engend.com

ULTIMATE STRENGTH DESIGN OF FOOTING

CONCRETE, psi 3000
 STEEL, KSI 60

SHEAR IN FOOTING

1. CASE I - DEAD LOAD, TWO-WAY SHEAR

$$U = 1.4 \cdot D$$

Ultimate Vertical Load, kips 775.97
 Ultimate Pressure, ksf 1.29

 Ultimate shear V, kips 659.30
 Design shear V_n , kips 2547.57

O.K.

2. CASE II - WIND LOAD, ONE-WAY SHEAR

$$U = 0.9 \cdot D + 1.6 \cdot W$$

Ultimate Moment, kip-ft 5208.32
 Ultimate Vertical Load, kips 498.84
 Eccentricity, ft 10.44
 Ultimate Pressure, ksf $q_{ult} = 7.50$
 Dist. from edge to critical sect., ft 6.25
 Pressure distance ft $c = 5.43$
 Pressure @ critical section, ksf 0.00

 Ultimate Shear, kips 498.84
 Design Shear, kips 821.26

O.K.

FLEXURE STRENGTH DESIGN

Ultimate Moment, kip-ft
 Case I 1212.45
 Case II 3462.39 $q_1 = 0.00$

 $R_n = 174.5$
 $r = 0.00301$
 $r_{min} = 0.00180$
 $A_1 = 26.59$
 $\# = 8$
 $A_b, in^2 = 0.79$
 33.66
 36.00
 28.44
 0.00322
 193.45

Design Moment, kip-ft 3839.03

 Horizontal Spacing, in $shor = 8.23$
 TOP
 Min. Steel Area, sq.in 15.88
 Min. Number of Bars 20.10
 Actual Number of Bars 23.00
 Top Steel Area, sq.in 18.17
 Horizontal Spacing, in $shor = 13.09$

Bending about the diagonal

No.	Angle, deg phi	Coord., in c1	Edge Dist., in di	No.	Angle, deg phi	Coord., in c1	Edge Dist., in di
1	0	37.50	21.90	7	180	-37.50	96.90
2	30	32.48	26.92	8	210	-32.48	91.87
3	60	18.75	40.65	9	240	-18.75	78.15
4	90	0.00	59.40	10	270	0.00	59.40
5	120	-18.75	78.15	11	300	18.75	40.65
6	150	-32.48	91.87	12	330	32.48	26.92

Location of neutral axis $c=$, in 26.92
 Compression zone, $a=$ 22.88

No.	e	Force kips
1	0.000559773	36.93
2		
12		
Concrete, kips		1335.14
Total compression		1372.08

No.	e	Force kips
2	0.0000	0.01
3	0.0015	119.74
4	0.0036	161.95
5	0.0057	161.95
6	0.0072	161.95
7	0.0078	161.95
8	0.0072	161.95
9	0.0057	161.95
10	0.0036	161.95
11	0.0015	119.74
12	0.0000	0.01
Total tension, kips		1373.15

Moment due to compression

Rebars	Force kips	Mom. Arm. in	Moment k-ft
1	36.93	37.50	115.42
2	0.00	32.48	0.00
12	0.00	32.48	0.00
Concrete	1335.14	51.77	5759.99
Total in compressor			5875.41

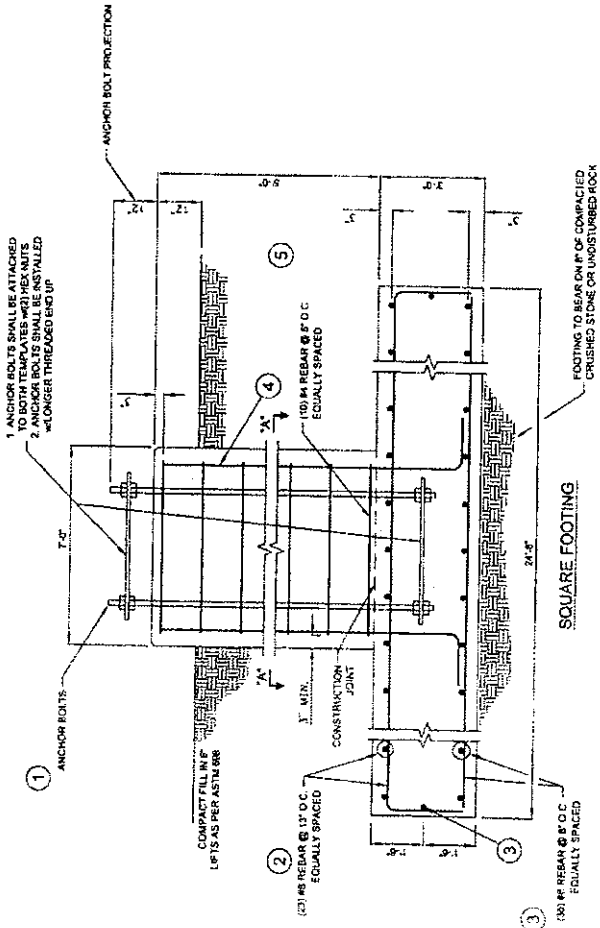
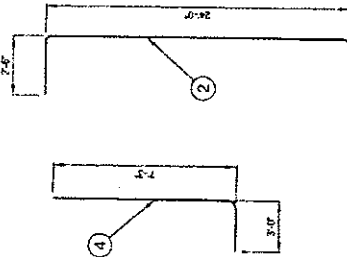
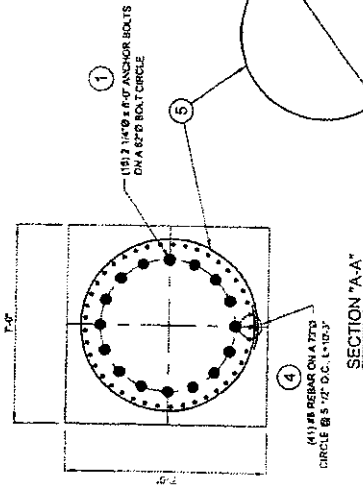
Moment due to tension

Rebars	Force kips	Mom. Arm. in	Moment k-ft
3	119.74	18.75	-187.10
4	161.95	18.75	-253.05
5	161.95	0.00	0.00
6	161.95	-18.75	253.05
7	161.95	-37.50	506.09
8	161.95	-32.48	438.29
9	161.95	-18.75	253.05
10	161.95	0.00	0.00
11	119.74	18.75	-187.10
Total in tension			823.24

Design Moment, kip-ft 6028.78

Pedestal Design Moment, kip-ft **5498.85**

FOUNDATION LOADING	
MOMENT	3021.6 1b-ft
SHEAR	70.7 1b-ft
AXIAL	28.9 1b-ft

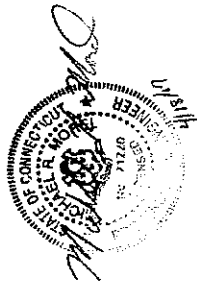


MATERIAL LIST	
ITEM	DESCRIPTION
1	2 1/4" x 8'-0" (ASTM A193-GR 7) ANCHOR BOLTS
2	#4 REBAR x 26'-0" (ASTM A615-GR 60)
3	#4 REBAR x 24'-0" (ASTM A615-GR 60)
4	#4 REBAR x 10'-3" (ASTM A615-GR 60)
5	#4 REBAR x 21'-0" (ASTM A615-GR 60)

VOL. CONCRETE @ 1500 LB/CY (TYPE II CEMENT)	75.6 yd ³
STEEL (ASTM A615-GR 60)	11500 lb

GENERAL NOTES:

- FOUNDATION DESIGN IS BASED ON THE FOLLOWING ASSUMPTIONS: SOIL TYPE IS CLASSIFIED AS PER THE SOIL REPORT BY DR. CHARLES W. HALL, P.E., CONSULTING GEOLOGIST, 1400 WEST 11TH AVENUE, DENVER, CO 80202.
- FOUNDATION DESIGN IS BASED ON THE ASSUMPTION THAT THE SOIL IS UNIFORM IN ALL DIRECTIONS AS SHOWN IN THE SOIL REPORT. THE ACTUAL SOIL CONDITIONS SHOULD BE NOTIFIED IN WRITING TO THE ENGINEER PRIOR TO CONSTRUCTION.
- SOIL REPORT SHOULD BE CONSULTED PRIOR TO CONSTRUCTION. STEEL CORROSION OR SALINITY METHODS SHOULD BE USED TO DETERMINE SOIL CORROSION OR SALINITY. THE CORROSION RISK SHOULD BE ASSESSED AND APPROPRIATE PROTECTION SHOULD BE PROVIDED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES.
- FOUNDATION DESIGN SHALL BE IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES.
- SPECIAL INSPECTION OF REINFORCEMENT, ANCHOR BOLT INSTALLATION, AND CONCRETE SHALL BE REQUIRED PRIOR TO PLACEMENT.
- REINFORCEMENT SHALL BE PLACED AS SHOWN IN THE DRAWINGS. REINFORCEMENT SHALL BE ASSEMBLED USING STEEL WIRE TYING. WELDING IS NOT PERMITTED. MAXIMUM SPACING LENGTH FOR REBAR SHALL BE 18" FOR #4 REBAR AND 24" FOR #5 REBAR AND LARGER. ALL REBAR SHALL BE SPACED WITH NO MORE THAN 50% OF SPACERS IN ONE PLACE.
- CONCRETE CURING AND PROTECTION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES.
- CONCRETE COMPRESSIVE STRENGTH - 4000 PSI AT 28 DAYS. USE TYPE I CEMENT UNLESS OTHERWISE SPECIFIED.
- CONCRETE SHALL BE PLACED IN A BUMP OF 7" LIFT FOR DRILLED PILE AND 3" LIFT FOR MAT FOUNDATION.
- FOR DRILLED PILES ONLY, THE ENTIRE LENGTH OF ANCHOR BOLTS SHALL BE WELDED TO THE REINFORCEMENT. ALL CONCRETE SHALL BE VIBRATED.
- ANCHOR BOLTS ARE TO BE INSTALLED PRIOR TO CONCRETE PLACEMENT. THE CONTRACTOR SHOULD CONSULT THE SITE PLAN AND GEOTECHNICAL REPORT FOR ANY SPECIAL REQUIREMENTS.



ENGINEERED ENDEAVORS INCORPORATED
The Experience You Can Rely On

7510 Newberry Drive, Meriden, CT 06060-1877
Ph: (440) 918-1100 • Fx: (860) 270-1855
Fx: (440) 918-1108 • www.eeng.com

SPRINT PCS

140'-0" MONOPOLE

LITCHFIELD CT33XC607

LITCHFIELD, LITCHFIELD COUNTY, CT

SCALE: N.T.S.	PROJECT NO: 14854
SHEET 1 OF 1	DRAWING NO: 14854-S-14010

REV.	DESCRIPTION	DATE	BY	CHK.
0	COMPLETED DRAWING	6/17/07	B.F.	

Exhibit 3

Technical Memo

To: Karina Fournier
From: Alex Murillo - Radio Frequency Engineer
cc: Jason Overbey
Subject: Power Density Report for CTNH375E
Date: November 6, 2007

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 383 Torrington Rd, Litchfield, 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 APXV18-209014-C.
- 4) The antenna center line height is 108 ft.
- 5) The maximum transmit power from any sector is 1653.94 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 383 Torrington Rd, Litchfield, CT, is 0.03488 mW/cm². This value represents 3.488% of the Maximum Permissible Exposure (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 8.341%. The combined Power Density for the site is 11.829% of the M.P.E. standard.

New England Market



Worst Case Power Density

Site:	CTNH375E
Site Address:	383 Torrington Rd
Town:	Litchfield
Tower Height:	140 ft.
Tower Style:	Monopole
Base Station TX output	20 W
Number of channels	8
Antenna Model	APXV18-209014-C
Cable Size	1 5/8
Cable Length	160 ft.
Antenna Height	108.0 ft.
Ground Reflection	1.6
Frequency	1945.0 MHz
Jumper & Connector loss	4.50 dB
Antenna Gain	16.5 dBi
Cable Loss per foot	0.0116 dB
Total Cable Loss	1.8560 dB
Total Attenuation	6.3560 dB
Total EIRP per Channel	53.15 dBm
(In Watts)	206.74 W
Total EIRP per Sector	62.19 dBm
(In Watts)	1653.94 W
nsg	10.1440
Power Density (S) =	0.034877 mW/cm^2
T-Mobile Worst Case % MPE =	3.4877%
Equation Used :	$S = \frac{(1000)(gff)^2 (Power) \cdot 10^{(nsg/10)}}{4\pi (R)^2}$
<small>Office of Engineering and Technology (OET) Bulletin 65, Edition 97-01, August 1997</small>	

Co-Location Total	
Carrier	% of Standard
Sprint PCS	8.3410 %
Total Excluding T-Mobile	8.3410 %
T-Mobile	3.4877
Total % MPE for Site	11.8287%