T-Mobile
Get more from life®

35 Griffin Road South
Bloomfield, CT 06002

EM-T-MOBILE-052-080514

RECEIVED
MAY 14 2008
CONNECTICUT
SITING COUNCIL

May 14, 2008

BY HAND ORIGINAL

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

RE: **Notice of Exempt Modification**
319 New Britain Avenue Farmington, CT
Latitude:41 44 59 / Longitude:72 52 21

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 ("Farmington PD MP"), in Farmington, CT owned by the Town of Farmington.

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).

Farmington PD MP

The Farmington PD MP facility consists of a one hundred ninety (190') foot monopole ("Tower") owned and operated by the Town of Farmington Police Department. T-Mobile proposes to locate antennas at a centerline mounting height of one hundred sixty (160') feet. T-Mobile's equipment will be located within the compound at the base of the tower.

Farmington PD MP

As shown on the enclosed plans prepared by including a site plan and tower elevation of the April 29, 2008, 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 sixty (160') 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 opinion of the tower is attached as Exhibit 2. The structural opinion states 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 % 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: Town Manager, Kathleen Eagen
Town Planner, Jeffrey Ollendorf

Exhibit 1

FARMINGTON PD MP
319 NEW BRITAIN AVE
FARMINGTON, CT 06032
SITE NO.: CTHA149A
SITE TYPE: COLO

T-MOBILE TECHNICIAN SITE SAFETY NOTES

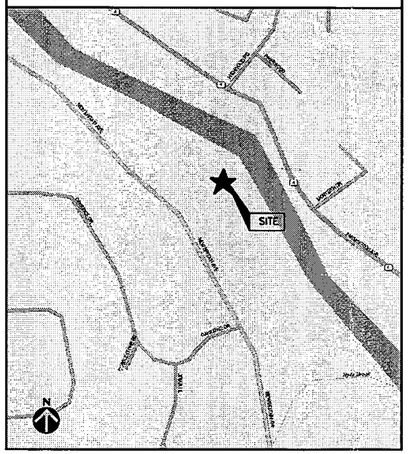
LOCATION	SPECIAL RESTRICTIONS
SECTOR A:	ACCESS NOT PERMITED
SECTOR B:	ACCESS NOT PERMITED
SECTOR C:	ACCESS NOT PERMITED
GPS/LMU:	UNRESTRICTED
RADIO CABINETS:	UNRESTRICTED
PPC DISCONNECT:	UNRESTRICTED
MAIN CIRCUIT D/C:	UNRESTRICTED
NIU/T-1 DEMARC:	UNRESTRICTED
OTHER / SPECIAL:	UNRESTRICTED

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	2
A-1	PLAN & NOTES	2
A-2	ELEVATION & DETAILS	2
A-3	DETAILS	2
E-1	POWER/TELCO RISER, DETAILS & NOTES	2
E-2	GROUNDING RISER DIAGRAM & DETAILS	2
M-1	MECHANICAL PLAN	2

THE FOLLOWING SHEETS ARE USED ONLY FOR FEDERAL REGULATORY COMPLIANCE UNDER FCC AND OSHA STANDARDS. BUILDING CODE LIFE AND SAFETY PROVISIONS ARE NOT APPLICABLE AND THEREFORE THESE SHEETS HAVE BEEN OMITTED FOR STATE/LOCAL PERMITTING AND CONSTRUCTION CONTROL.

EME-1	SAFETY PLAN	0
EME-2	SIGNAGE PLAN	0
EME-3	DATA TABLE	0

PROJECT SUMMARY

SITE NUMBER:	CTHA149A
SITE NAME:	FARMINGTON PD MP
SITE ADDRESS:	319 NEW BRITAIN AVE FARMINGTON, CT 06032
ASSESSOR'S PARCEL NO.:	MAP: 035, BLOCK: 00, LOT: 1-8 DEED BOOK/PAGE: 572/159
SITE TYPE:	COLO
PROPERTY OWNER:	TOWN OF FARMINGTON 1 MONTEITH DRIVE FARMINGTON, CT 06032 TOWN MGR: KATHLEEN EAGEN TEL: (860)-675-2350
APPLICANT:	OMNIPOINT COMMUNICATIONS INC. 35 GRIFFIN ROAD SOUTH BLOOMFIELD, CT 06002

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FAX: (508) 936-6395

STATE OF CONNECTICUT
RONALD J. JACKSON
No. 21125
LICENSED PROFESSIONAL ENGINEER

APPROVALS

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

PROJECT NO: 2806.079

DRAWN BY: JS

CHECKED BY: RS

SUBMITTALS

2	04/29/08	REVISED ELEVATION
1	04/25/08	REVISED BTS CABINETS
0	04/22/08	CONSTRUCTION

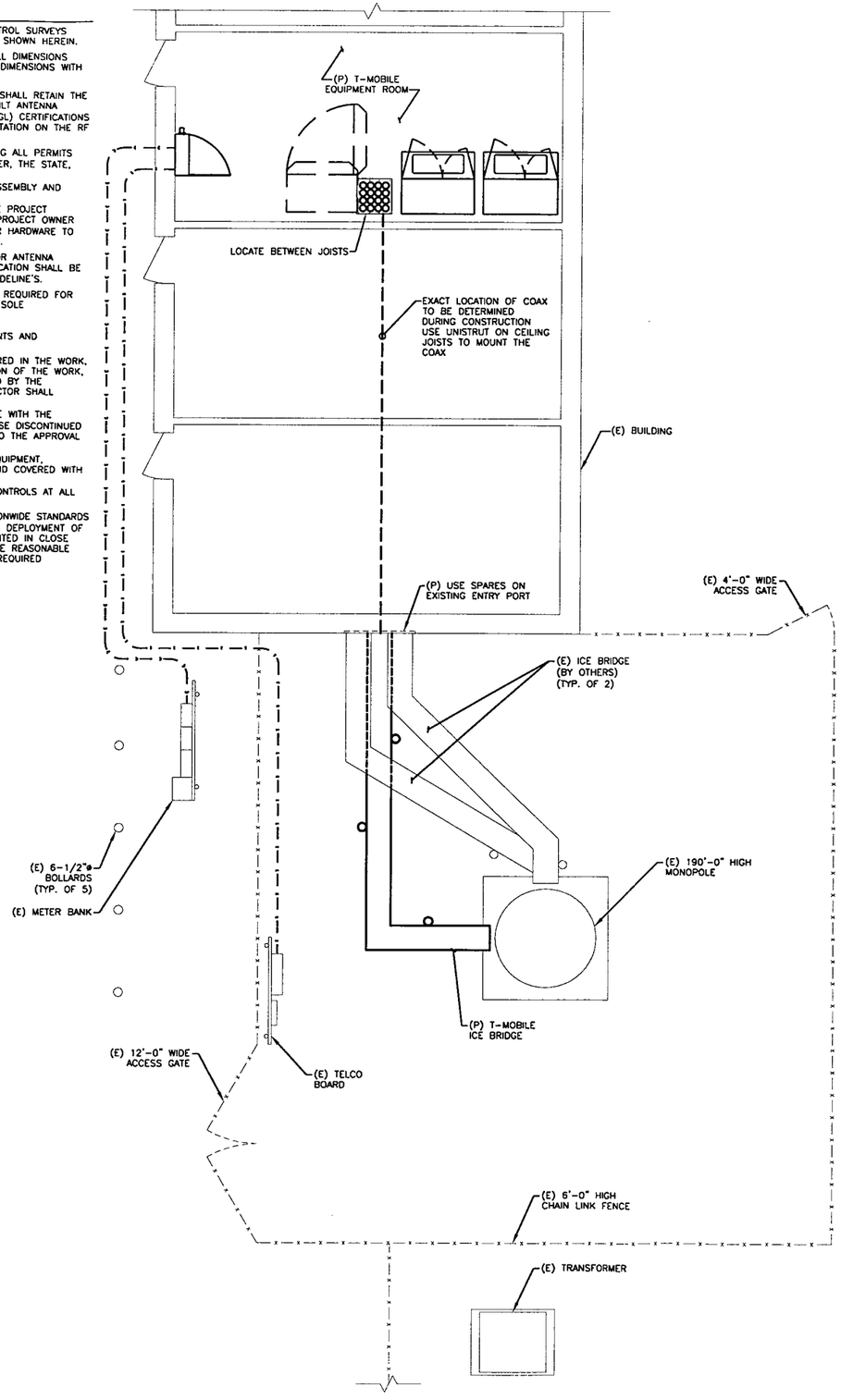
SITE
CTHA149A
FARMINGTON PD MP
319 NEW BRITAIN AVE
FARMINGTON, CT 06032

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1

NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY CONSTRUCTION CONTROL SURVEYS AND MAINTAINING ALL LINES AND GRADES REQUIRED TO CONSTRUCT ALL IMPROVEMENTS SHOWN HEREIN.
2. 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.
3. 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.
4. 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.
5. ANTENNA INSTALLATION SHALL BE CONDUCTED BY FIELD CREWS EXPERIENCED IN THE ASSEMBLY AND ERECTION OF RADIO ANTENNAS, TRANSMISSION LINES AND SUPPORT STRUCTURES.
6. 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.
7. 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 GUIDELINE'S.
8. 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.
9. ALL UTILITY WORK SHALL BE IN ACCORDANCE WITH LOCAL UTILITY COMPANY REQUIREMENTS AND SPECIFICATIONS.
10. 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.
11. 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.
12. 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.
13. THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN SOIL EROSION AND SEDIMENTATION CONTROLS AT ALL TIMES DURING CONSTRUCTION.
14. 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.



SITE PLAN

SCALE: 1/4"=1'-0"

(1)

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

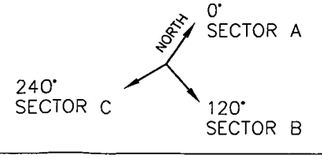
ABBREVIATIONS

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		
(E)	EXISTING	PCS	PERSONAL COMMUNICATIONS SERVICES
EXT	EXTERIOR		
FF	FINISHED FLOOR	A-1	ANTENNA MARK NO.
FG	FINISHED GRADE	℄	CENTERLINE
GA	GAUGE	℄	PLATE
GALV	GALVANIZED	&	AND
GC	GENERAL CONTRACTOR	@	AT
GWB	GYPSUM 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
DET# SH#	DETAIL REFERENCE		PROPERTY LINE
			STEPPED FOOTING
SH D	ELEVATION		MATCH LINE
			WORK POINT
		G	GROUND WIRE
DET# SH#	SECTIONS & DETAILS		COAXIAL CABLE
			CHAIN LINK FENCE
1	WORK ITEM NOTE		WATER MAIN

ANTENNA ORIENTATION KEY



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PHONE: (508) 936-6393
FAX: (508) 936-6395

STATE OF CONNECTICUT
RONALD J. JACKSON
No. 21125
LICENSED PROFESSIONAL ENGINEER

APPROVALS

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

PROJECT NO: 2806.079

DRAWN BY: JS

CHECKED BY: RS

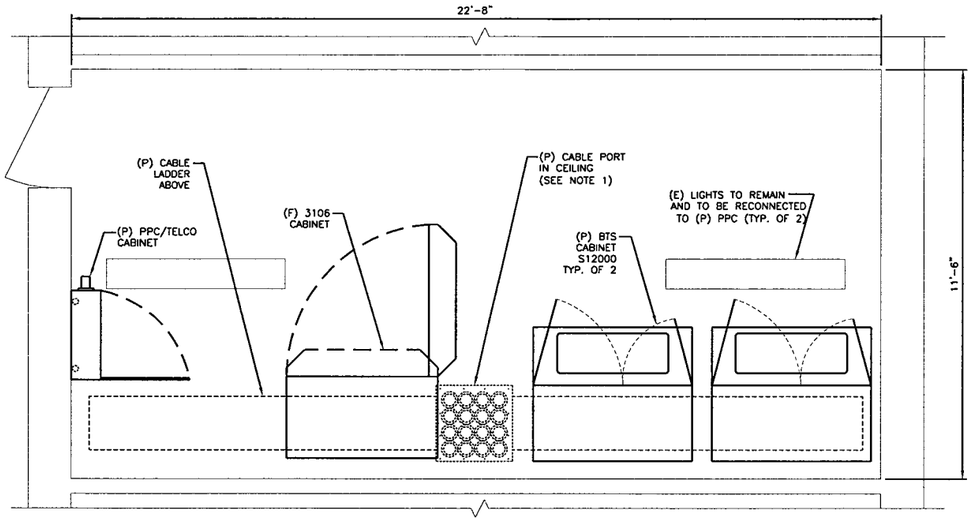
SUBMITTALS

2	04/29/08	REVISED ELEVATION
1	04/25/08	REVISED BTS CABINETS
0	04/22/08	CONSTRUCTION

SITE
CTHA149A
FARMINGTON PD MP
319 NEW BRITAIN AVE
FARMINGTON, CT 06032

SHEET TITLE
PLAN & NOTES

SHEET NUMBER
A-1



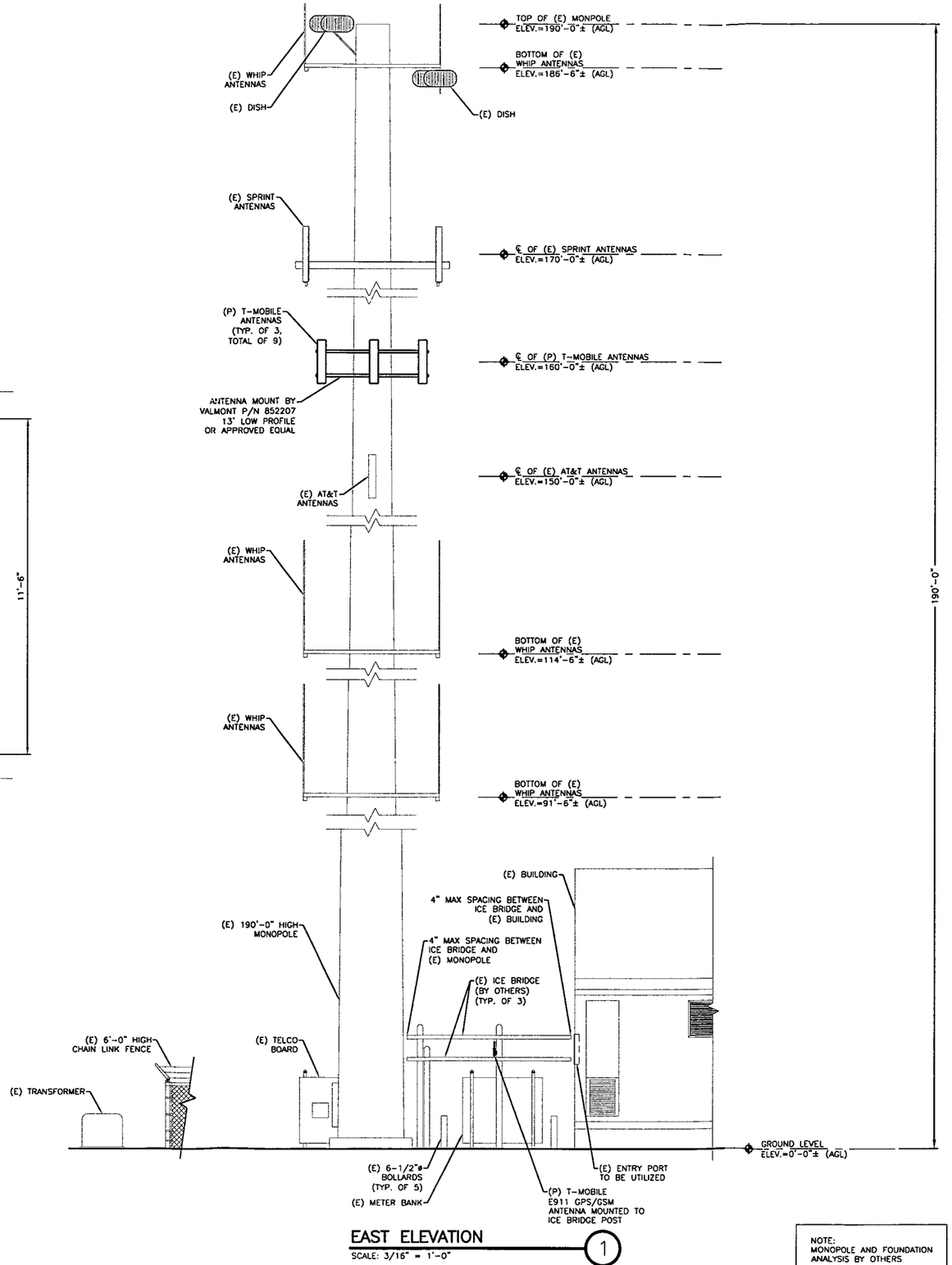
NOTES:

1.) IF EXISTING JOINTS HAVE TO BE CUT, CONSULT THE STRUCTURAL ENGINEER.

2.) SUPPORT COAX ON UNISTRUT ON CEILING JOISTS.

EQUIPMENT ROOM LAYOUT (2)

SCALE: 1/2" = 1'-0"



EAST ELEVATION (1)

SCALE: 3/16" = 1'-0"

NOTE:
MONOPOLE AND FOUNDATION ANALYSIS BY OTHERS

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

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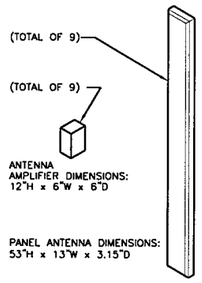
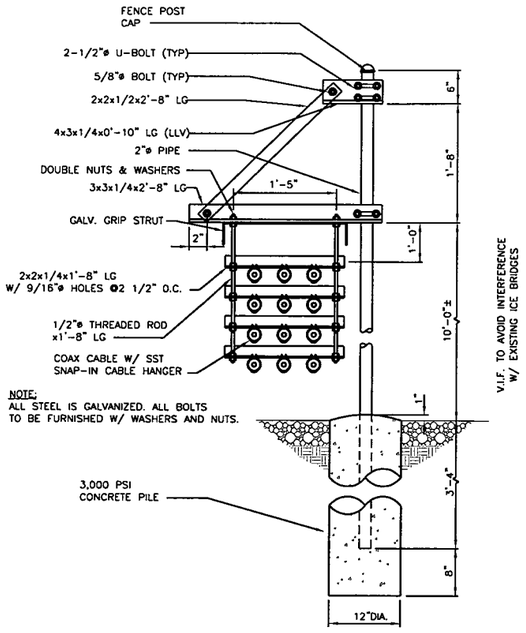
SHEET TITLE
ELEVATION & DETAILS

SHEET NUMBER
A-2



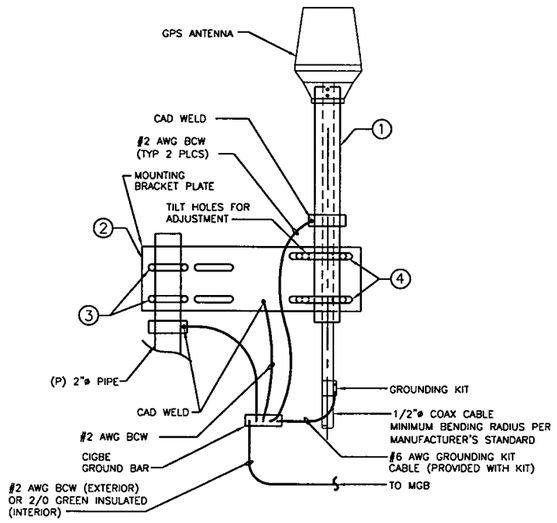
AMPLIFIER & PANEL ANTENNA DETAIL 1

SCALE: N.T.S.



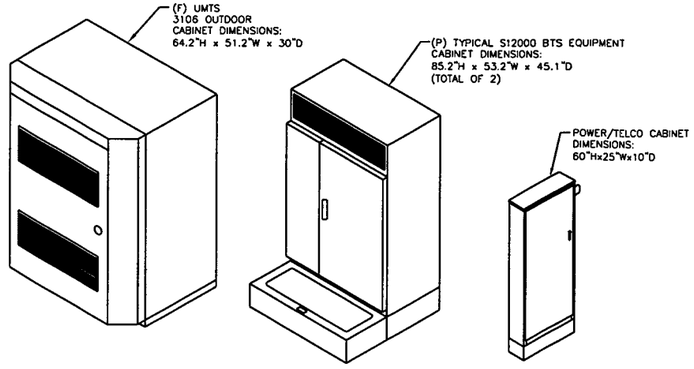
SECTION AT CABLE BRIDGE 2

SCALE: 3/4"=1'-0"



GPS ANTENNA DETAIL 3

SCALE: N.T.S.



BTS EQUIPMENT DETAIL 4

SCALE: N.T.S.

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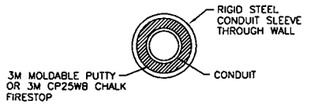
SHEET TITLE
DETAILS

SHEET NUMBER
A-3

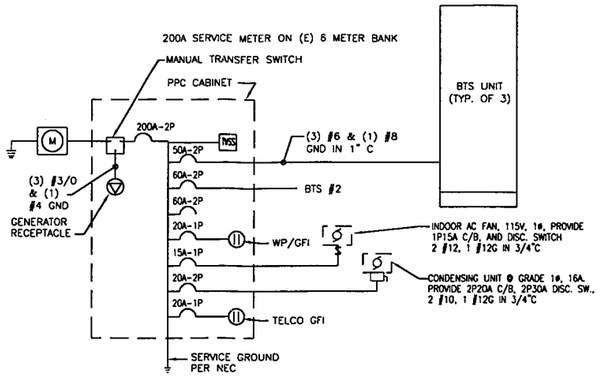


NOTE:

ALL PENETRATIONS THROUGH NON LOAD BEARING WALLS, AND EXTERIOR WALLS TO CONFORM TO UL SYSTEM NUMBER CAJ1155, WL1C54, AND FC1009. TO PROVIDE THE REQUIRED SYSTEM MANUAL FOR DETAILS AND DESCRIPTIONS.

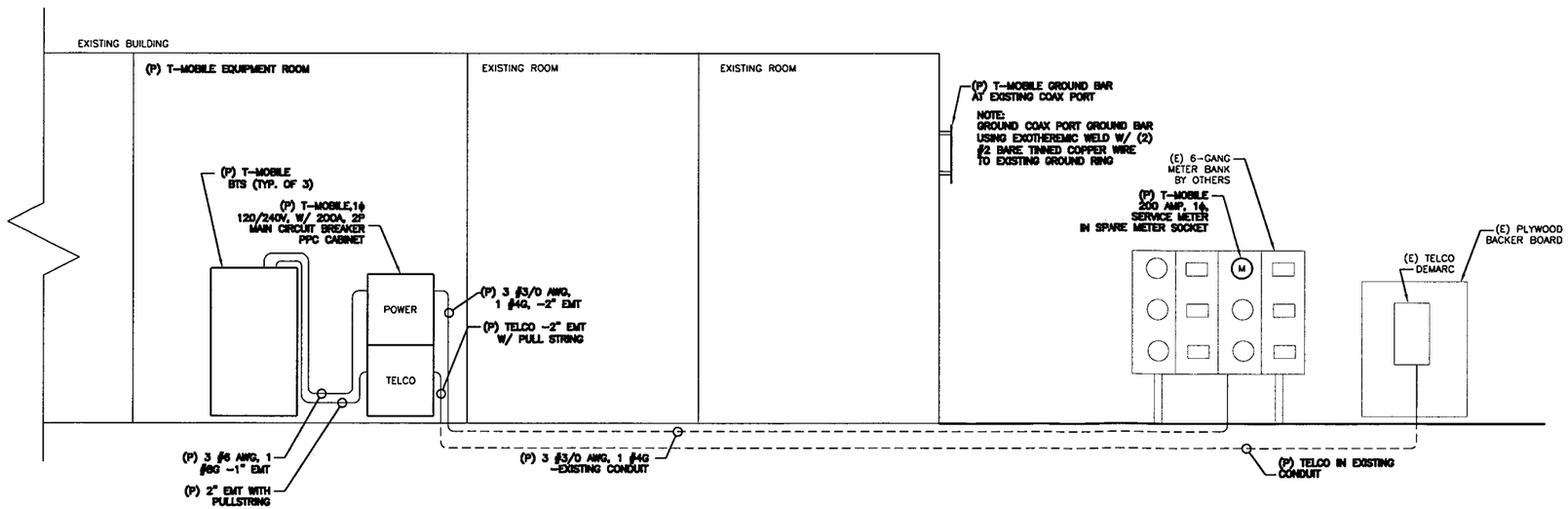
TYPICAL CONDUIT WALL PENETRATION DETAIL 1

SCALE: N.T.S.



ONE LINE DIAGRAM 2

SCALE: N.T.S.



POWER/TELCO RISER DIAGRAM 3

SCALE: N.T.S.

ELECTRICAL LEGEND

▬	NEW PANEL BOARD, SURFACE MOUNTED
▨	EXISTING PANEL BOARD, SURFACE MOUNTED
T	DRY TYPE TRANSFORMER
M	METER
	CIRCUIT BREAKER
	NON-FUSIBLE DISCONNECT SWITCH, MOUNTED 54" A.F.F.
	FUSIBLE DISCONNECT SWITCH, MOUNTED 54"A.F.F.
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR WITH BUILT-IN FUSES, SURFACE MOUNTED
	DUPLEX OUTLET, SURFACE MOUNTED, 20 AMPS, 125 VOLTS, SINGLE PHASE
J	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
GRC	GALVANIZED RIGID CONDUIT
G	GROUND
⏚	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 STAINLESS STEEL GROUND ROD
	*EXOTHERMIC (CADWELD) OR ○ MECHANICAL (COMPRESSION TYPE) CONNECTION
PPC	POWER PROTECTION CABINET
⊠	OMNI-DIRECTIONAL ELECTRONIC MARKER SYSTEM (EMS) BALL

ELECTRICAL AND 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 PROCURED PER SPECIFICATION REQUIREMENTS.
3. THE ELECTRICAL WORK INCLUDES ALL LABOR AND MATERIAL DESCRIBED BY DRAWINGS AND SPECIFICATION INCLUDING INCIDENTAL 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 OR SCHEDULE 80 PVC (AS PERMITTED BY CODE) AND WHERE REQUIRED IN LIQUID TIGHT FLEXIBLE METAL OR NONMETALLIC CONDUITS.
6. BURIED CONDUIT SHALL BE SCHEDULE 40 PVC.
7. ELECTRICAL WIRING SHALL BE COPPER WITH TYPE XHHW, THWN, OR THHN INSULATION.
8. RUN ELECTRICAL CONDUIT OR CABLE BETWEEN ELECTRICAL UTILITY DEMARCATION POINT AND PROJECT OWNER CELL SITE PPC AS INDICATED ON THIS DRAWING. PROVIDE FULL LENGTH PULL ROPE. COORDINATE INSTALLATION WITH UTILITY COMPANY.
9. RUN TELCO CONDUIT OR CABLE BETWEEN TELEPHONE UTILITY DEMARCATION POINT AND PROJECT OWNER 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.
10. WHERE CONDUIT BETWEEN BTS AND PROJECT OWNER CELL SITE PPC AND BETWEEN BTS AND PROJECT OWNER CELL SITE TELCO SERVICE CABINET ARE UNDERGROUND USE PVC, SCHEDULE 40 CONDUIT. ABOVE THE GROUND PORTION OF THESE CONDUITS SHALL BE PVC CONDUIT.
11. ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE NEMA 3R ENCLOSURE.
12. PPC SUPPLIED BY PROJECT OWNER.
13. GROUNDING SHALL COMPLY WITH NEC ART. 250. ADDITIONALLY, GROUNDING, BONDING AND LIGHTNING PROTECTION SHALL BE DONE IN ACCORDANCE WITH "T-MOBILE BTS SITE GROUNDING STANDARDS".
14. GROUND COAXIAL CABLE SHIELDS MINIMUM AT BOTH ENDS USING MANUFACTURERS COAX CABLE GROUNDING KITS SUPPLIED BY PROJECT OWNER.
15. 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.
16. ALL GROUND CONNECTIONS TO BE BURNDY HYGROUND COMPRESSION TYPE CONNECTORS OR CADWELD EXOTHERMIC WELD. DO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT WITH GALVANIZED STEEL.
17. 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 6 FEET OF PROJECT OWNER EQUIPMENT OR CABINET TO MASTER GROUND BAR OR GROUNDING RING.
18. CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS.
19. APPLY OXIDE INHIBITING COMPOUND TO ALL COMPRESSION TYPE GROUND CONNECTIONS.
20. CONTRACTOR SHALL PROVIDE AND INSTALL OMNI DIRECTIONAL ELECTRONIC MARKER SYSTEM (EMS) BALLS OVER EACH GROUND ROD AND BONDING POINT BETWEEN EXISTING TOWER/ MONOPOLE GROUNDING RING AND EQUIPMENT GROUNDING RING.
21. CONTRACTOR SHALL TEST COMPLETED GROUND SYSTEM AND RECORD RESULTS FOR PROJECT CLOSE-OUT DOCUMENTATION. 5 OHMNS OR LESS RESISTANCE REQUIRED.
22. CONTRACTOR SHALL CONDUCT ANTENNA, COAX, AND LNA RETURN-LOSS AND DISTANCE- TO-FAULT MEASUREMENTS (SWEEP TESTS) AND RECORD RESULTS FOR PROJECT CLOSE OUT.

OMNIPOINT COMMUNICATIONS INC.
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FAX: (508) 936-6395

STATE OF CONNECTICUT * TRICHUR A. VENKATARAMAN * No. 22948 * LICENSED PROFESSIONAL ENGINEER

APPROVALS

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

PROJECT NO: 2806.079

DRAWN BY: MS

CHECKED BY: RS

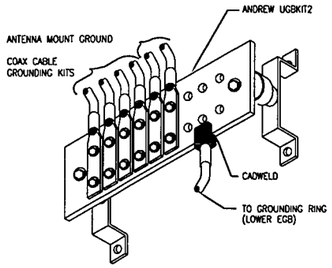
SUBMITTALS

2	04/29/08	REVISED ELEVATION
1	04/25/08	REVISED BTS CABINETS
0	04/22/08	CONSTRUCTION

SITE
CTHA149A
FARMINGTON PD MP
319 NEW BRITAIN AVE
FARMINGTON, CT 06032

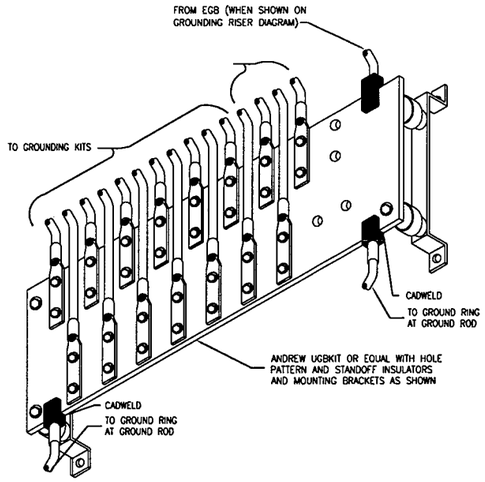
SHEET TITLE
POWER/TELCO RISER DETAILS & NOTES

SHEET NUMBER
E-1



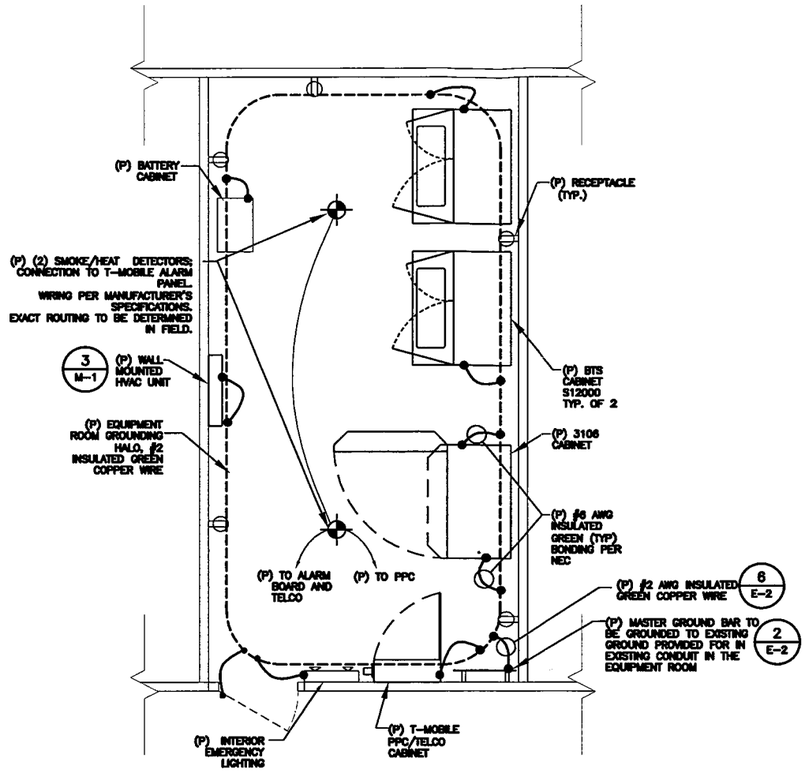
EQUIPMENT GROUND BAR (EGB) 1

SCALE: N.T.S.



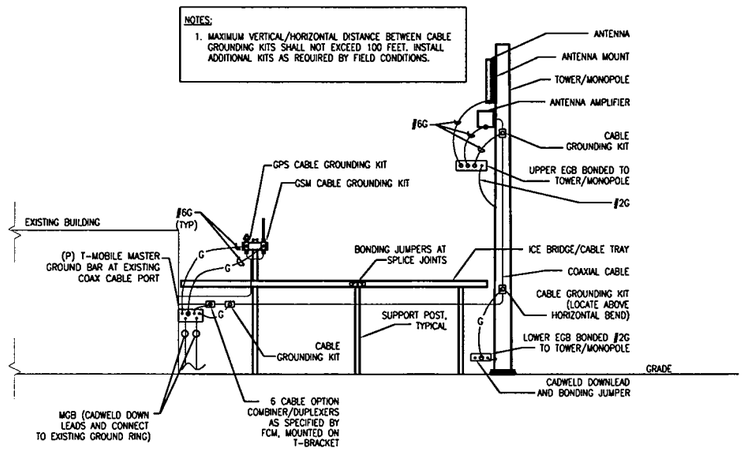
MASTER GROUND BAR (MGB) 2

SCALE: N.T.S.



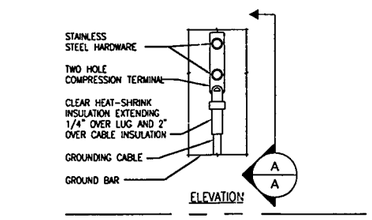
EQUIPMENT ROOM GROUNDING HALO 3

SCALE: N.T.S.



GROUNDING RISER DIAGRAM 4

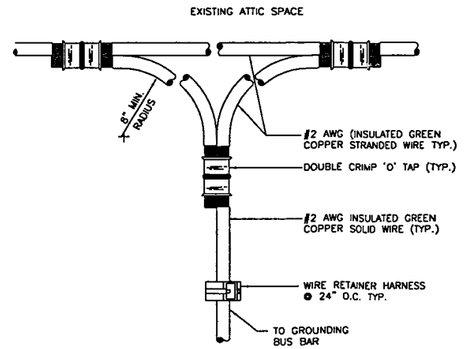
SCALE: N.T.S.



NOTES:
1. "DOUBLING UP" OR "STACKING" OF CONNECTION IS NOT PERMITTED.
2. OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.
3. CADWELL DOWNLEADS FROM UPPER EGB, LOWER EGB AND MGB.

TYPICAL GROUND BAR CONNECTIONS DETAIL 5

SCALE: N.T.S.



TYPICAL HALO GROUND CORNER DETAIL 6

SCALE: N.T.S.

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STATE OF CONNECTICUT * TRICHUR A VENKATARAMAN * No. 22948 * LICENSED PROFESSIONAL ENGINEER

APPROVALS

LANDLORD _____
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PROJECT NO: 2806.079

DRAWN BY: MS

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SITE
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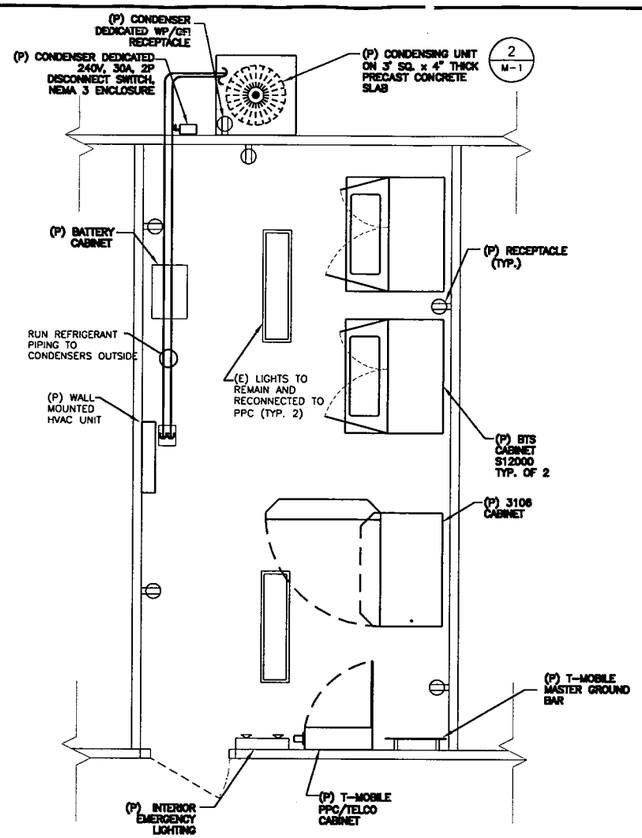
FARMINGTON, CT 06032

SHEET TITLE
GROUNDING RISER DIAGRAM & DETAILS

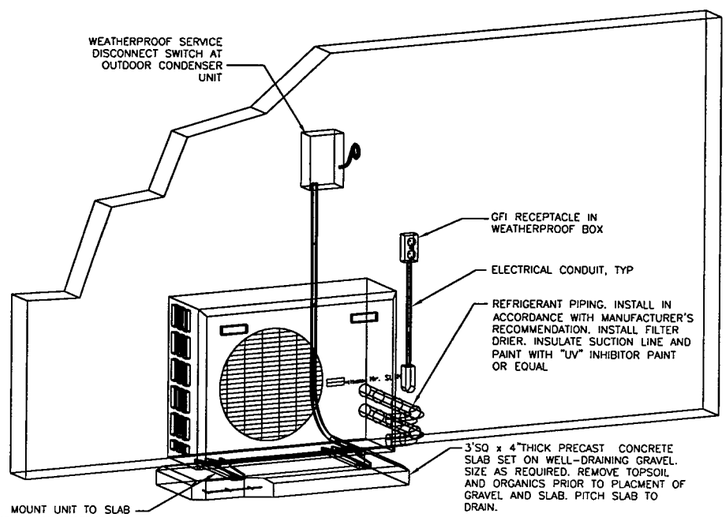
SHEET NUMBER
E-2



MECHANICAL PLAN

SCALE: N.T.S.

1



CONDENSING UNIT LAYOUT

SCALE: N.T.S.

2

HVAC EQUIPMENT SCHEDULE

AIR HANDLER:	
MANUFACTURER:	MITSUBISHI ELECTRIC
COOLING (BTU/HR):	12,500
NOMINAL TONS:	1
AIR HANDLER MODEL:	PK12FK
AIR HANDLER SYMBOL:	AHU-1
VOLTAGE:	208/115/1
CONDENSER:	
MANUFACTURER:	MITSUBISHI ELECTRIC
COOLING (BTU/HR):	12,500
NOMINAL TONS:	1
CONDENSER MODEL:	PU12EK
CONDENSER SYMBOL:	CU-1
VOLTAGE:	208/115/1
CONDENSATE PUMP:	
VENDOR:	MITSUBISHI ELECTRIC
PUMP MODEL:	SI1730-115
PUMP SYMBOL:	CP-1

EQUIPMENT NOTES:

AIR CONDITIONING SYSTEM (AC/ACCU): SPLIT SYSTEM, "MITSUBISHI", PK12FK DUCTLESS INDOOR UNIT (AC)

MODEL PK12FK, RATED AT 12,500 BTUH TOTAL COOLING CAPACITY, 350 CFM SUPPLY AIR , 115V-1ø, WITH INTELLIGENT REMOTE CONTROLLER, LOW AMBIANT OPERATION, AND CONDENSATE PUMP WITH A CAPACITY OF 1.45 GPH, AT 16.4 FT OF HEAD, COMPLETE WITH INTEGRAL FLOAT SWITCH, MOTOR ASSEMBLY AND RESERVOIR, 115-1ø.

RUN A 1" PVC CONDENSATE LINE FROM THE INDOOR UNIT (AC) AS MANUFACTURER'S INSTRUCTIONS AND LOCAL CODES REQUIRE AND CONNECT TO NEAREST DRAINAGE SYSTEM IN BUILDING.

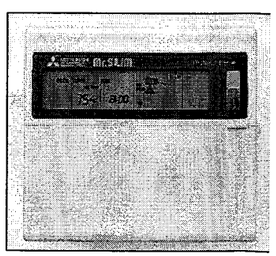
PROVIDE SUPPORTS AS REQUIRED AND INSTALL AC UNIT AS SHOWN ON DRAWINGS.

AIR COOLED CONDENSING UNIT (ACCU), LOCATED ON SIDE OF BUILDING, ON PRECAST PAD, MODEL PU12EK, 208V-1ø. PROVIDE PRE-CHARGED PRE-INSULATED REFRIGERANT LINE SETS (CONNECTING THE INDOOR AND OUTDOOR UNITS) IN PROPER LENGTHS FOR APPLICATION (SEE SPECIFICATIONS).

INDOOR WALL UNIT

SCALE: NTS

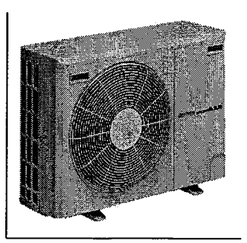
3



REMOTE CONTROLLER

SCALE: NTS

4



OUTDOOR CONDENSING UNIT

SCALE: NTS

5

Part 1 - General

1.01 System Description
The air conditioning system shall be a Mitsubishi Electric PK split system series. The system shall consist of a slim silhouette, compact wall mounted evaporator section with wired control. System model number PK12FK. These system model numbers include the PU series horizontal discharge, single phase outdoor unit.

1.02 Quality Assurance

A. The units shall be listed by Electrical Laboratories (ETL) and bear the ETL label.
B. All wiring shall be in accordance with the National Electrical Code (N.E.C.).
C. The units shall be rated in accordance with ARI Standard 210 and bear the ARI label.
D. The units shall be manufactured in a facility registered to ISO 9001 and ISO14001 which is a set of standards applying to environmental protection set by the International Standard Organization (ISO).
E. A full charge of R-22 for 100 feet of refrigerant tubing shall be provided in the condensing unit.
F. A dry air holding charge shall be provided in the evaporator.
G. System efficiency shall meet or exceed 10.0 SEER.

1.03 Delivery, Storage and Handling
A. Unit shall be stored and handled according to the manufacturer's recommendation.
B. The wired controller shall be shipped inside the carton with the indoor unit and able to withstand 105° F storage temperatures and 95% relative humidity.

Part 2 - Warranty

2.01 The units shall have a manufacturer's warranty for a period of one (1) year from date of installation. The compressor shall have a warranty of six (6) years from date of installation. If, during this period, any part should fail to function properly due to defects in workmanship or material, it shall be replaced or repaired at the discretion of the manufacturer. This warranty does not include labor.
2.02 Manufacturer shall have fifteen years experience in the U.S. market.

Part 3 - Performance

3.01 Each system shall perform in accordance to the ratings shown in the table below.
3.02 Performance shall be based on 67° FWB, 80° FDB for the indoor unit and 95°FDB,75°FWB for the outdoor unit.

Part 4 - Products

4.01 Indoor Unit.
A. General:
The indoor unit shall be factory assembled, wired and run tested. Contained within the unit shall be all factory wiring, piping, control circuit board and fan motor. The unit shall have a self-diagnostic function, 3-minute time delay mechanism, an auto restart function, and a test run switch. Indoor unit and refrigerant pipes will be charged with dry air instead of R22 before shipment from the factory.
B. Unit Cabinet:
1. The casing shall have a white finish.
2. Multi directional drain and refrigerant piping offering four (4) directions for refrigerant piping and two (2) directions for draining shall be standard.
3. There shall be a separate back plate which secures the unit firmly to the wall.
C. Fan:
1. The evaporator fan shall be an assembly with a line-flow fan direct driven by a single motor.
2. The fan shall be statically and dynamically balanced and run on a motor with permanently lubricated bearings.
3. A manual adjustable guide vane shall be provided with the ability to change the airflow from side to side(left or right).
4. A motorized air sweep flow louver shall provide an automatic change in airflow by directing the air up and down to provide for uniform air distribution.
5. The indoor fan shall consist of two (2) speeds, High and Low.
D. Filter:
1. Return air shall be filtered by means of an easily removable washable filter.
E. Coil:
1. The evaporator coil shall be of nonferrous construction with smooth plate fins on copper tubing.
2. The tubing shall have inner grooves for high efficiency heat exchange.
3. All tube joints shall be brazed with phoscopper or silver alloy.
4. The coils shall be pressure tested at the factory.
5. A condensate pan and drain shall be provided under the coil.
F. Electrical:
1. The unit electrical power shall be 115 volts, 1 phase, 60 hertz.
2. The system shall be capable of satisfactory operation within voltage limits of 103 volts to 127 volts.
3. The indoor unit shall not have any supplemental electrical heat elements.
G. Control:
1. This unit shall have a wired controller to perform input functions necessary to operate the system.
2. The controller shall consist of an On-Off switch, Cool/Dry-Fan selector, Thermostat setting, Timer Mode, High-Low fan speed, Auto Vane selector, Test Run switching and Check Mode switching.
3. Temperature changes shall be by 2°F increments with a range of 65 ~ 87°F.
4. The control system shall consist of two (2) microprocessors interconnected by a single non-polar two wire cable.
5. Wiring shall run direct from the indoor unit to the controller with no splices.
6. Manufacturer shall provide 2 conductor 18 Ga. stranded wire for connection to remote controller.
7. The microprocessor located in the indoor unit shall have the capability of sensing return air temperature and indoor coil temperature, receiving and processing commands from the wired controller, providing emergency operation and controlling the outdoor unit.
8. Normal operation of the remote controller provides individual system control in which one remote controller and one indoor unit are installed in the same room.
9. The controller shall have the capability of controlling up to a maximum of fifty (50) systems at a maximum developed control cable distance of 1,650 feet.
10. The control voltage from the controller to the indoor unit shall be 12 volts, DC.
11. The control voltage between the indoor unit and the outdoor unit shall be 12 volts, DC.
12. The system shall be capable of automatic restart when power is restored after power interruption.
13. The system shall include self-diagnostics including total hours of compressor run time.
14. The microprocessor within the wall mounted remote controller shall provide automatic cooling, display set point and room temperature, 24 hour on/off timer so that automatic operation function display, check mode for memory of most recent problem.
15. Control system shall control the continued operation of the air sweep louvers, as well as provide on/off and system/mode function switching.
16. The controller shall have the capability to provide sequential starting with up to fifty seconds delay.
17. Two remote controllers can be used to control one unit.

4.02 Outdoor Unit

A. General: The outdoor unit is designed specifically for use with PK series indoor units. These units are equipped with a circuit board that interfaces to the PK indoor unit and perform all functions necessary for operation. The unit must have a powder coated finish. The outdoor unit shall be completely factory assembled, piped and wired. Each unit must be run tested at the factory.
B. Unit Cabinet:
1. The casing shall be fabricated of galvanized steel, banderized and finished with a powder coated baked enamel.
C. Fan:
1. The unit shall be furnished with either one or two direct drive propeller type fans.
2. The motor shall have inherent protection, be permanently lubricated bearings.
3. The fan motor shall be mounted for quiet operation.
4. The fan shall be provided with a raised guard to prevent contact with moving parts.
5. The outdoor unit shall have a horizontal discharge airflow.
D. Coil:
1. The condenser coil shall be of nonferrous construction with lanced or corrugated plate fins on copper tubing.
2. The coil shall be protected with an integral metal guard.
3. Refrigerant flow from the condenser shall be controlled by means of a metering orifice.
E. Compressor:
1. The compressor shall be a high performance rotary.
2. A crankcase heater shall be factory mounted on the outside of the compressor.
3. The outdoor unit shall have an accumulator.
4. The compressor will be equipped with an internal thermal overload.
5. The compressor shall be a high performance rotary.
6. A crankcase heater shall be factory mounted on the outside of the compressor.
7. The outdoor unit shall have an accumulator.
8. The compressor will be equipped with an internal thermal overload.
9. The outdoor unit shall have a high pressure safety switch.
10. The outdoor unit must have the ability to operate with a maximum height difference of 164 feet and have refrigerant tubing length of 164 feet between indoor and outdoor units without the need for line size changes, traps or additional oil (130 feet maximum for PK12 and PK18).
11. The compressor shall be mounted to avoid the transmission of vibration.
12. The outdoor unit shall be capable of operating at 0°F ambient temperature w/o additional low ambient controls
F. Electrical:
1. The unit electrical power shall be 208/230 volts, 1 phase, 60 hertz.
2. The unit shall be capable of satisfactory operation within voltage limits of 198 volts to 253 volts.
3. The outdoor unit shall be controlled by the microprocessor located in the indoor unit.
4. The control voltage between the indoor unit and the outdoor unit shall be 12 volts, DC.

OMNIPOINT COMMUNICATIONS INC.
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STATE OF CONNECTICUT * TRICHUR A. VENKATARAMAN * No. 22948 * LICENSED PROFESSIONAL ENGINEER

APPROVALS

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

PROJECT NO: 2806.079
DRAWN BY: PT
CHECKED BY: RS

SUBMITTALS

2	04/29/08	REVISED ELEVATION
1	04/25/08	REVISED BTS CABINETS
0	04/22/08	CONSTRUCTION

SITE
CTHA149A
FARMINGTON PD MP
319 NEW BRITAIN AVE
FARMINGTON, CT 06032

SHEET TITLE
MECHANICAL PLAN

SHEET NUMBER
M-1

Exhibit 2

BAY STATE
DESIGN

May 8, 2008

Mr. Gordon Govalet
Maxton Technology, Inc.
50 Eastman Street
South Easton, MA 02375

Reg: CTHA149A
T-Mobile Facility at Farmington, CT
BSD Job No.: 2806.079

Dear Mr. Govalet,

As per your request, Bay State Design (BSD) engineers have reviewed the structural analysis prepared by URS Corporation. The analysis accounts for the antennas from various carriers including the proposed T-Mobile antennas. Based on our review, the existing monopole can support the loads from the proposed T-Mobile antennas.

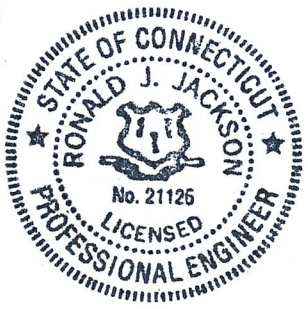
The monopole is designed for TIA/EIA222F.

If you have any questions, please contact our office.

Sincerely yours,

BAY STATE DESIGN, INC.

Ronald J. Jackson, P.E.
President



Bay State Design, Inc. 70 Tower Office Park, Woburn, MA 01801 TEL: (781) 932-2467 FAX: (781) 932-9771
Architects • Engineers

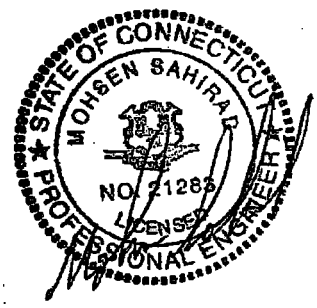
DETAILED STRUCTURAL ANALYSIS AND EVALUATION OF 190' EXISTING MONOPOLE FOR NEW ANTENNA ARRANGEMENT

Farmington Police Department
New Britain Avenue
Farmington, Connecticut
AT&T Site No.: CT- 404

prepared for

AT&T

AT&T WIRELESS PCS
12 OMEGA DRIVE, 2ND FLOOR
STAMFORD, CT 06902
TEL. 203-602-7029



prepared by

URS

URS CORPORATION
795 BROOK STREET, BUILDING 5
ROCKY HILL, CT 06067
TEL. 860-529-8882

F300002224.20

March 13, 2002

Introduction:

A structural analysis of this 190' communications monopole was performed by URS Corporation AES (URS) for AT&T Wireless. The monopole is located on New Britain Avenue in Farmington, Connecticut.

The structure is self-supporting and was manufactured by Pirod Inc. drawing no. 157375-B approved November 7, 2001 including its foundation.

This analysis was conducted to evaluate twist (rotation), sway (deflection), and stress on the monopole. The analysis was also used to find the effect of the forces to the foundation resulting from the antenna arrangement listed below.

The antenna inventory obtained:		Antenna Centerline Elevation
(2) TDF7220 and (1) 4' Grid dish with 5' arms and (3) 7/8" coax cable within the monopole	Existing	@ 190' elevation
(1) TDF6711 and (1) TDF6712 with 5' arms and (2) 1/2" coax cable within the monopole	Existing	@ 185' elevation
(1) TDD7260 and (1) 4' Grid dish with 5' arms and (2) 7/8" coax cable within the monopole	Existing	@ 180' elevation
(12) DB980F90E-M antenna with low profile platform and (12) 1-5/8" coax cable within the monopole	Sprint	@ 170' elevation
(12) RR90-17-XXXP antenna with low profile platform and (24) 1-5/8" coax cable within the monopole	Voicestream	@ 160' elevation
(6) Allgon 7250.03 antenna with (3) T-Arm and (12) 1-5/8" coax cable within the monopole	AT&T (Proposed)	@ 150' elevation
(12) DAPA 48000 antenna with low profile platform and (12) 1-5/8" coax cable within the monopole	Future	@ 140' elevation
(3) TDD7260 with 5' arms and (3) 1/2" coax cable within the monopole	Existing	@ 113' elevation
(3) TDB6400 with 5' arms and (3) 1/2" coax cable within the monopole	Existing	@ 90' elevation

Note: 1. **This analysis is based on the assumption that all carrier antenna cables are to be placed within the monopole unless otherwise noted. Porthole may be required. Installation of porthole shall be done per manufacturer suggestion.**

2. **Physical verification may be required to ensure that adequate space is available inside the monopole.**

Structural Analysis:

Methodology:

The structural analysis was done in accordance with TIA/EIA-222-F June 1996, Structural Standard for Steel Antenna Towers and Antenna Supporting Structures, the American Institute of Steel Construction (AISC) and the Manual of Steel Construction; Allowable Stress Design (ASD).

The analysis was conducted using ERI Tower 2.0. Two load conditions were evaluated as shown below which were compared to allowable stresses according to AISC and TIA/EIA. The two load combinations were investigated in ERI Tower 2.0 to determine the stress, sway and rotation.

Load Condition 1 = 85 mph Wind Load (without ice) + Tower Dead Load
Load Condition 2 = 0.75 Wind Load (with ice) + Ice Load + Tower Dead Load

The TIA/EIA standard permits one-third increase in allowable stresses for towers and monopoles less than 700 feet tall. For purposes of this analysis, allowable stresses of the monopole members were increased by one-third in computing the load capacity.

Evaluation of Monopole:

Combined axial and bending stresses on the monopole structure were evaluated to compare with allowable stresses in accordance with AISC. In all cases, calculated stresses under the proposed loading were less than allowable stresses.

Analysis Results:

Our analysis determined that the monopole will support the proposed new antenna arrangements under the analysis criteria outlined on the previous page. No further analysis was conducted on the foundation since our results were below the original design.

Our analysis for the proposed new antenna arrangement and load condition is provided in Appendix A.

Limitations/Assumptions:

This report is based on the following:

1. Tower inventory as listed in this report.
2. Tower is properly installed and maintained.
3. All members were as specified in the original design Documents and are in good condition.
4. All required members are in place.
5. All bolts are in place and are properly tightened.
6. Tower is in plumb condition.
7. All members are galvanized.
8. All tower members were properly designed, detailed, fabricated, and installed and have been properly maintained since erection.
9. Foundations were properly constructed to support original design loads as specified in the original design Documents.
10. All co-axial cable is installed within the monopole, except as noted.

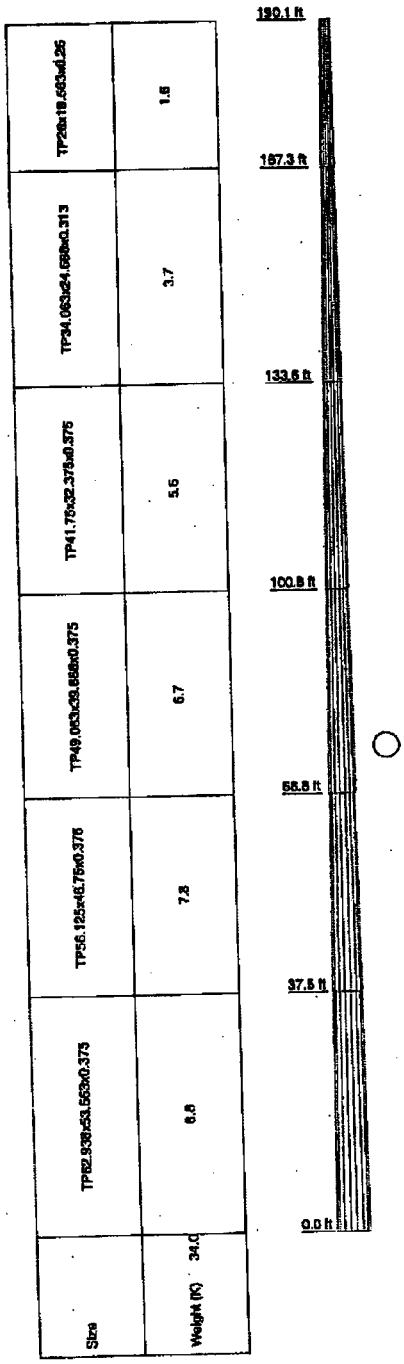
URS is not responsible for any modifications completed prior to or hereafter, which URS is not or was not directly involved. Modifications include but are not limited to:

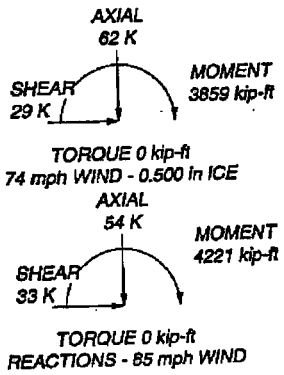
1. Adding or relocating antennas and platform

URS hereby states that this document represents the entire report and that it assumes no liability for any factual changes that may occur after the date of this report. All representations, recommendations, and conclusions are based upon information contained and set forth herein. If you are aware of any information which conflicts with that which is contained herein, or you are aware of any defects arising from original design, material, fabrication, or erection deficiencies, you should disregard this report and immediately contact URS. URS disclaims all liability for any representation, recommendation, or conclusion not expressly stated herein.

APPENDIX A

Calculations





DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
(2) TDF7220	190	Low profile platform	160
23-ARM CLAMP-ON (5')	190	RR90-17-XXXP	160
N-PIPE 2"x50"	190	Allgon 7250.03	150
4' Grid Dish	190	(3) T-Arm	150
(2) Yagi	185	(12) DAPA 48000	140
23-ARM CLAMP-ON (2')	185	Low profile platform	140
N-PIPE 2"x50"	185	(3) TDD7280	113
23-ARM CLAMP-ON (5')	180	23-ARM CLAMP-ON (5')	113
N-PIPE 2"x50"	180	N-PIPE 2"x50"	113
TDD7280	180	(3) TDB8400	90
4' Grid Dish	180	23-ARM CLAMP-ON (5')	90
DB980F80E-M	170	N-PIPE 2"x50"	90
Low profile platform	170		

TOWER DESIGN NOTES

1. Tower designed for a 85 mph basic wind in accordance with the TIA/EIA-222-F Standard.
2. Tower is also designed for a 74 mph basic wind with 0.50 in ice.
3. Deflections are based upon a 50 mph wind.
4. Connections use galvanized A325 bolts, nuts and locking
5. devices. Installation per TIA/EIA-222-F and AISC Specifications.
6. Tower members are "hot dipped" galvanized in accordance
7. with ASTM A123 and ASTM A153 Standards.
8. TOWER RATING: 92.7%

URS CORPORATION
795 Brook Street, Building 5
Rocky Hill, Connecticut 06067
Phone: (860) 529-8882
FAX: (860) 529-5566

Job: Farmington Police Department			
Project: F300002224.20 /F12			
Client: AT&T	Drawn by: Robert M. Niemiec	App'd:	
Code: TIA/EIA-222-F	Date: 03/13/02	Scale:	
Path: P:\Telecom\F12\Farmington.eri		Dwg N	

Exhibit 3

T-Mobile USA Inc.
100 Filley St, Bloomfield, CT 06002-1853
Phone: (860) 692-7100
Fax: (860) 692-7159

Technical Memo

To: Karina Fournier
From: Scott Heffernan - Radio Frequency Engineer
cc: Jason Overbey
Subject: Power Density Report for CTHA149A
Date: May 14, 2008

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 319 New Britain Ave, Farmington, 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 160 ft.
5) The maximum transmit power from any sector is 1908.23 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 319 New Britain Ave, Farmington, CT, is 0.01765 mW/cm^2. This value represents 1.765% of the Maximum Permissible Exposure (MPE) standard of 1 milliwatt per square centimeter (mW/cm^2) set forth in the FCC/ANSI/IEEE C95.1-1991. Furthermore, the proposed antenna location for T-Mobile will not interfere with existing public safety communications, AM or FM radio broadcasts, TV, Police Communications, HAM Radio communications or any other signals in the area.

The combined power density for all carriers at this site is **25.1933%** of the FCC allowable limit.

New England Market

Worst Case Power Density

Site:	**CTHA149A**
Site Address:	**319 New Britain Ave**
Town:	**Farmington**
Tower Height:	**190 ft.**
Tower Style:	**Monopole**
Base Station TX output	25 W
Number of channels	8
Antenna Model	APXV18-209014-C
Cable Size	1 5/8
Cable Length	190 ft.
Antenna Height	160.0 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	2.2040 dB
Total Attenuation	6.7040 dB
Total EIRP per Channel	53.78 dBm
(In Watts)	238.53 W
Total EIRP per Sector	62.81 dBm
(In Watts)	1908.23 W
nsg	9.7960
Power Density (S) =	**0.017653 mW/cm^2**
T-Mobile Worst Case % MPE =	**1.7653%**

Equation Used :

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

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

Other Carrier Information	
AT&T GSM (150 feet)	3.64%
AT&T UMTS (150 feet)	1.36%
Sprint (1950 MHz CDMA)	3.60%
Town Antenna 1 (810.24 MHz 2 Channels - 191.83 feet)	2.43%
Town Antenna 2 (810.24 MHz 2 Channels - 191.83 feet)	2.49%
Emergency Services (933.18 MHz 4 Channels - 120 feet))	3.14%
Public Works Dept (153.24 MHz 2Channels - 100.4 feet)	6.77%

Total Site MPE %: 25.1933%