



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

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

E-Mail: siting.council@ct.gov

www.ct.gov/csc

December 23, 2011

Douglas L. Culp, Real Estate Consultant
New Cingular Wireless PCS, LLC
500 Enterprise Drive
Rocky Hill, CT 06067-3900

RE: **EM-CING-035-111207** - New Cingular Wireless PCS, LLC notice of intent to modify an existing telecommunications facility located at Norton Heights Railroad Station, Darien, Connecticut.

Dear Mr. Culp:

The Connecticut Siting Council (Council) hereby acknowledges your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies with the following conditions:

- Any deviation from the proposed modification as specified in this notice and supporting materials with Council shall render this acknowledgement invalid;
- Any material changes to this modification as proposed shall require the filing of a new notice with the Council;
- Not less than 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
- The validity of this action shall expire one year from the date of this letter; and
- The applicant may file a request for an extension of time beyond the one year deadline provided that such request is submitted to the Council not less than 60 days prior to the expiration;

The proposed modifications including the placement of all necessary equipment and shelters within the tower compound are to be implemented as specified here and in your notice dated December 6, 2011. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Thank you for your attention and cooperation.

Very truly yours,

Linda Roberts
Executive Director

LR/CDM/laf

c: The Honorable Jayme J. Stevenson, First Selectman, Town of Darien
John Crary, Town Administrator, Town of Darien
David J. Keating, Zoning Enforcement Officer, Town of Darien
Robert D. Gray, Program Administrator, 3rd Party Attachments Transmission Proj., Northeast Utilities Service Co.



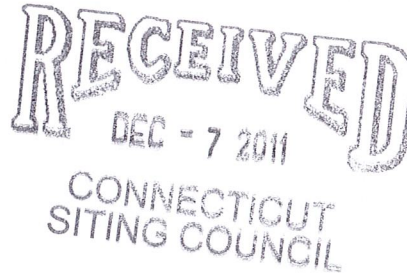


New Cingular Wireless PCS, LLC
500 Enterprise Drive
Rocky Hill, Connecticut 06067-3900
Phone: (860) 463-5511
Fax: (860) 513-7190

Douglas L. Culp
Real Estate Consultant

HAND DELIVERED

December 6, 2011



Ms. Linda Roberts
Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

Re: New Cingular Wireless PCS, LLC notice of intent to modify an existing tele-communications facility located at Norton Heights Railroad Station Darien, CT (owner Northeast Utilites/CL&P)

Dear Ms. Roberts:

In order to accommodate technological changes, implement Uniform Mobile Telecommunications System ("UMTS") and/or Long Term Evolution ("LTE") capabilities, and enhance system performance in the State of Connecticut, New Cingular Wireless PCS, LLC ("AT&T") plans to modify the equipment configurations at many of its existing cell sites. Please accept this letter and attachments as notification, pursuant to R.C.S.A. Section 16-50j-73, of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2). In compliance with R.C.S.A. Section 16-50j-73, a copy of this letter and attachments is being sent to the chief elected official of the municipality in which the affected cell site is located.

UMTS technology offers services to mobile computer and phone users anywhere in the world. Based on the Global System for Mobile ("GSM") communication standard, UMTS is the planned worldwide standard for mobile users. UMTS, fully implemented, gives computer and phone users high-speed access to the Internet as they travel. They have the same capabilities even when they roam, through both terrestrial wireless and satellite transmissions.

LTE is a new high-performance air interface for cellular mobile communications. It is designed to increase the capacity and speed of mobile telephone networks.

Attached is a summary of the planned modifications, including power density calculations reflecting the change in AT&T's operations at the site. Also included is documentation of the structural sufficiency of the tower to accommodate the revised antenna configuration.

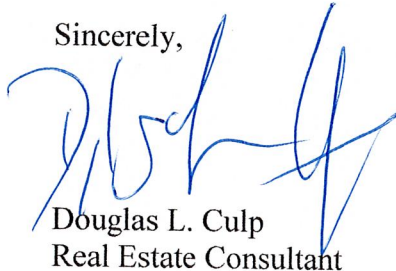
The changes to the facility do not constitute modifications as defined in Connecticut General Statutes ("C.G.S.") Section 16-50i(d) because the general physical characteristics of the facility will not be significantly changed or altered. Rather, the planned changes to the facility fall squarely within those activities explicitly provided for in R.C.S.A. Section 16-50j-72(b)(2).

1. The height of the overall structure will be unaffected.
2. The proposed changes will not extend the site boundaries. There will be no effect on the site compound other than some enlarged equipment pads as may be noted in the attachments.
3. The proposed changes will not increase the noise level at the existing facility by six decibels or more.
4. Radio frequency power density may increase due to use of one or more GSM channel for UMTS transmissions. Moreover, LTE will utilize additional radio frequencies newly-licensed by the FCC for cellular mobile communications. However, the changes will not increase the calculated "worst case" power density for the combined operations at the site to a level at or above the applicable standard for uncontrolled environments as calculated for a mixed frequency site.

For the foregoing reasons, New Cingular Wireless respectfully submits that the proposed changes at the referenced site constitute exempt modifications under R.C.S.A. Section 16-50j-72(b)(2).

Please feel free to call me at (860) 463-5511 with questions concerning this matter. Thank you for your consideration.

Sincerely,



Douglas L. Culp
Real Estate Consultant

Attachments



**Northeast
Utilities System**

107 Selden Street, Berlin, CT 06037

Northeast Utilities Service Company
P.O. Box 270
Hartford, CT 06141-0270
(203) 665-5000

Dec 6, 2011

Mr. Tim Burks
AT&T Wireless.
500 Enterprise Drive
Rocky Hill, CT 06067

RE: AT&T Antenna Site, CT-5011, Norton Heights., Norwalk CT, structure 1182

Dear Mr. Burks:

Based on the structural review letter dated December 1, 2011 provided by Centek Engineering stating that the proposed structural loading has not increased, we have reviewed for acceptance this modification.

Since there are no outstanding structural issues to resolve at this time please contact Mr. Green (860-665-6926) to resolve any lease issues; once the lease amendment is secured you may then contact Mr. Mike McKinnon, DIRECTOR-TRANSMISSION MAINTENANCE & WORK MANAGEMENT, directly (860-665-3839) to begin the construction arrangements.

Sincerely,

Robert Gray
Transmission Line Engineering

ref: Structural Letter 1182 Dec 1 2011.pdf
CT5011 LTE CD REV2 12-05-11.pdf

**NEW CINGULAR WIRELESS PCS, LLC
Equipment Modification**

Norton Heights Railroad Station Darien, CT
Site Number CT5011
Exempt Mod

Tower Owner/Manager: Northeast Utilities (CL&P)

Equipment configuration: Power Mount on Utility Stanchion

Current and/or approved: Three Allgon 7250.03 Panel Antennas @ 85 ft
Six runs 7/8 inch coax to 85 ft
Equipment on concrete pad

Planned Modifications: Retain existing Allgon Antenna's @ 85 ft
Retain all Coax Cabling add six run of 7/8 inch coax to 85 ft
Install three KMW FX-X-CD 65-12-65-14-00T-ST antennas or equivalent @ 85 ft

Power Density:

Worst-case calculations for existing wireless operations at the site, using standard parameters for other carriers, indicate a radio frequency electromagnetic radiation power density, measured at ground level beside the Tower, of approximately 24.1 % of the standard adopted by the FCC. As depicted in the second table below, the total radio frequency electromagnetic radiation power density following proposed modifications would be approximately 29.1 % of the standard.

Existing

Other Users							N/A
AT&T UMTS	85	1900 Band	2	500	0.0498	1.0000	4.98
AT&T UMTS	85	800 Band	1	500	0.0249	0.5867	4.24
AT&T GSM	85	1900 Band	7	427	0.1488	1.0000	14.88
Total							24.1%

* Data for other users are from Siting Council records.

Proposed

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm ²)	Standard Limits (mW/cm ²)	Percent of Limit
Other Users							N/A
AT&T UMTS	85	800 Band	1	500	0.0249	0.5867	4.24
AT&T UMTS	85	1900 Band	2	500	0.0498	1.0000	4.98
AT&T GSM	85	1900 Band	7	427	0.1488	1.0000	14.88
AT&T LTE	85	740 - 746	1	500	0.0249	0.4933	5.04
Total							29.1%

* Data for other users are from Siting Council records.

Structural information:

The attached structural analysis demonstrates that the structure and foundation have adequate structural capacity to accommodate the proposed modifications. (Centek Dec 1, 2011).

December 1, 2011

Mr. Bob Gray
Northeast Utilities
107 Seldon Street
Berlin, CT 06037

Re.: *Antenna Upgrade ~ Structural Compliance Verification*
CL&P 1182
AT&T Site No. CT5011
Norton Heights Railroad Station
Darien, CT 06820

CEN TEK Project No. 11009.CO9

Dear Mr. Gray,

Centek Engineering, Inc. has reviewed the proposed AT&T antenna upgrade at the above referenced site. The purpose of the review was to determine the necessity for the existing installation to be reanalyzed to the latest requirements of Northeast Utility OTRM 059. The existing structure is a lattice transmission tower approximately 90-ft tall with AT&T antennas leg mounted at a rad center elevation of 85-ft +/- AGL. A comparison of the following original design configuration and the proposed configuration was prepared:

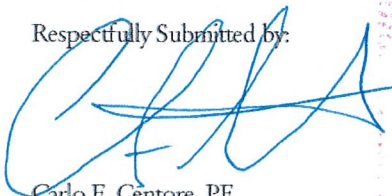
- **AT&T (Design Loading):**
Antennas: Three (3) Allgon 7250.03 panel antennas leg mounted to the existing tower with a RAD center elevation of 85-ft +/- AGL.
Coax: Six (6) 7/8-in dia. coaxial cables routed to the leg of the existing CL&P tower.
- **AT&T (Proposed Loading):**
Antennas: Three (3) KMW FX-X-CD-65-12-65-14-00T-ST panel antennas leg mounted to the existing tower with a RAD center elevation of 85-ft +/- AGL.
Coax: Six (6) 7/8-in dia. coaxial cables routed to the leg of the existing CL&P tower.

Visual verification of the existing antenna mount installation was conducted from grade by Centek personnel on March 24, 2011. All existing antennas will be removed prior to the installation of the new equipment and no change will be made to the existing antenna mounts, coax cable quantity or configuration. Refer to Attachment 1 for a detailed comparative analysis summarized as follows:

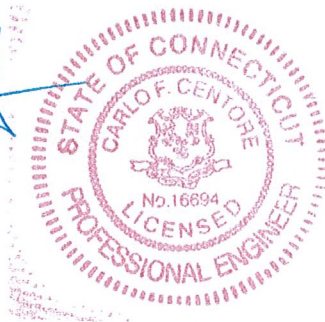
	<u>Design Loading</u>	<u>Proposed Loading</u>	<u>Result</u>
Total Wind Area (sf)	39.5	37.4	PASS
Total Weight (lbs)	321.9	321.6	PASS

In conclusion, it was determined that the proposed loading was less than the original design loading. The tower is structurally adequate to support the proposed loading. If there are any questions regarding this matter, please feel free to call.

Respectfully Submitted by:



Carlo F. Centore, PE
Principal ~ Structural Engineer



Subject: Antenna Upgrade Comparative Analysis
 Job No. 11009.CO9
 CL&P Structure No. 1182
 Carrier Site Ref: CT5011 - Norton Heights
 Location: Norton Heights Railroad Station Darien, CT
 Rev 0: 11/9/11 Prepared by: T.J.L. Checked by: C.F.C.

Existing Loading Condition ⁽¹⁾							
Equipment Model	Properties				Quantity	Total Area (sf)	Total Weight (lbs)
	Height (in)	Width (in)	Depth (in)	Weight (lbs/plf)			
Allgon 7250.03	61.3	6.3	2.2	15.5	3	8.0	46.5
						0.0	0
7/8" ∅ Cable	1020	1.11	1.11	0.54	6	31.5	275.4
						39.5	321.9

1) Based on Four Cables Exposed to the Wind.

Proposed Loading Condition ⁽¹⁾							
Equipment Model	Properties				Quantity	Total Area (sf)	Total Weight (lbs)
	Height (in)	Width (in)	Depth (in)	Weight (lbs/plf)			
FX-X-CD-65-12-65-14-00T-ST	24	11.8	6	15.4	3	5.9	46.2
						0.0	0
7/8" ∅ Cable	1020	1.11	1.11	0.54	6	31.5	275.4
						37.4	321.6

1) Based on Four Cables Exposed to the Wind.

PROJECT INFORMATION

SCOPE OF WORK: UNMANNED TELECOMMUNICATIONS FACILITY MODIFICATIONS
 SITE ADDRESS: NOROTON HEIGHTS RAILROAD STATION
 DARIEN, CT 06820
 LATITUDE: 41.06909865 N 41° 4' 8.75" N
 LONGITUDE: -73.48989976 W -73° 29' 56.4" W
 JURISDICTION: NATIONAL, STATE & LOCAL CODES OR ORDINANCES
 CURRENT USE: TELECOMMUNICATIONS FACILITY
 PROPOSED USE: TELECOMMUNICATIONS FACILITY
 NOC#: 866-915-5600



SITE NUMBER: CT5011

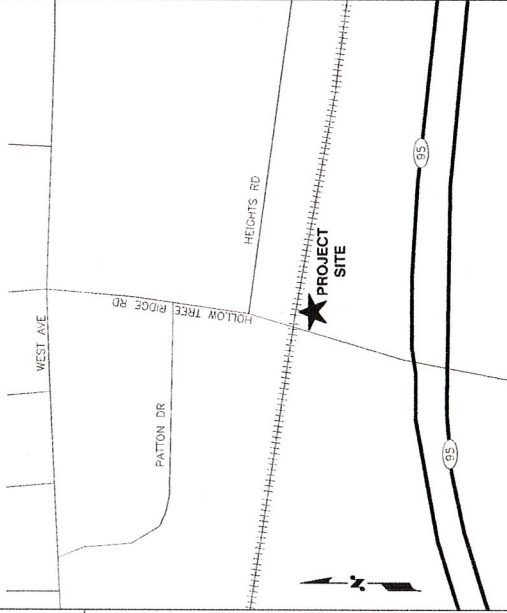
SITE NAME: DARIEN NOROTON HEIGHTS

DRAWING INDEX

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VICINITY MAP

DIRECTION TO SITE:
 HEAD NORTHEAST ON ENTERPRISE DR TOWARD CAPITOL BLVD. 0.4 MILES. TURN LEFT ONTO CAPITOL BLVD. 0.3 MILES. TURN LEFT ONTO WEST ST. 0.3 MILES. MERGE ONTO I-91 S VIA THE RAMP ON THE LEFT TOWARD NEW HAVEN. 29.1 MILES. MERGE ONTO I-95 S/GOVERNOR JOHN DAVIS LODGE BLVD. 0.1 MILES. TURN LEFT ONTO HOLLOW TREE RD. 0.1 MILES. TURN RIGHT ONTO HOLLOW TREE RD. 0.1 MILES. MERGE ONTO HOLLOW TREE RD. 0.3 MILES. END AT CORNER OF HOLLOW TREE RIDGE RD AND HEIGHTS RD, DARIEN, CT 06820



GENERAL NOTES

- THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF AT&T. ANY DUPLICATION OR USE BY ANY OTHER PARTY WITHOUT THE WRITTEN PERMISSION OF AT&T IS PROHIBITED. AT&T ACCEPTS NO LIABILITY FOR ANY ERRORS OR OMISSIONS. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, APPROVALS, AND REGULATORY REQUIREMENTS FOR CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.
- THE FACILITY IS AN UNMANNED PRIVATE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY TO BE ACCESS BY AUTHORIZED PERSONNEL FOR PERIODIC ROUTINE MAINTENANCE AND THEREFORE DOES NOT REQUIRE ANY SPECIAL ACCESS PERMITS OR REGULATORY REQUIREMENTS.
- CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE AT&T REPRESENTATIVE IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

72 HOURS



BEFORE YOU DIG

CALL TOLL FREE 800-922-4455

UNDERGROUND SERVICE ALERT

180 COPPOCK STREET
 SALEM, NH 03078
 TEL: 603.882.2500
 FAX: 603.882.2505

22 KEENAWAY DRIVE
 SALEM, NH 03075

SITE NUMBER: CT5011
SITE NAME: DARIEN NOROTON HEIGHTS
 NOROTON HEIGHTS RAILROAD STATION
 DARIEN, CT 06820
 FAIRFIELD COUNTY

500 ENTERPRISE DRIVE, SUITE 3A
 ROCKY HILL, CT 06067

NO.	DATE	ISSUED FOR	BY	CHK	APP
2	12/05/11	CONSTRUCTION REVISED	RP	HC	DPH
1	03/25/11	ISSUED FOR CONSTRUCTION	AN	DC	DPH
1	02/24/11	ISSUED FOR CONSTRUCTION	JC	DC	DPH

DESIGNED BY: DC
 DRAWN BY: JC

AT&T
 TITLE SHEET
 (LITE)

JOB NUMBER: 5011.01
 DRAWING NUMBER: T-1

REV	2
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GROUNDING NOTES

1. THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM AND LIGHTNING PROTECTION SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC (AS ADOPTED BY THE A.H.U.). THE SITE-SPECIFIC LIGHTNING PROTECTION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE IBC AND THE LIGHTNING PROTECTION CODE (LPC) AND GENERAL COMMENTS WITH TELECOM AND TIA GROUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO THE CONTRACTOR FOR RESOLUTION.
2. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER (E/S)) SHALL BE BONDED TOGETHER AT OR BELOW GRADE. BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
3. THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR NEW GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
4. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BITS EQUIPMENT.
5. EACH BITS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRE. 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BITS 2 AWG STRANDED COPPER FOR OUTDOOR BITS.
6. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
7. APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
8. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
10. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
11. METAL CONDUIT SHALL BE MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH 6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
12. ALL NEW STRUCTURES WITH A FOUNDATION AND/OR FOOTING HAVING 20 FT. OR MORE OF 1/2" IN. OR MORE DIAMETER ELECTRICALLY CONDUCTIVE REINFORCING STEEL MUST HAVE IT BONDED TO THE GROUND RING USING AN EXOTHERMIC WELD CONNECTION USING #2 AWG SOLID BARE TINNED COPPER GROUND WIRE, PER NEC 250.50

GENERAL NOTES

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
 - CONTRACTOR - SA
 - SUBCONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION) OWNER - AT&T MOBILITY
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL APPLICABLE REGULATIONS, ORDINANCES, AND LOCAL CODES. THE BIDDING SUBCONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
4. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, AND SERVICES, AS NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
6. *KITTING LIST SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY CONTRACTOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND KITTING LIST SHALL BE SUPPLIED BY THE SUBCONTRACTOR.
7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
8. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE CONTRACTOR.
9. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR.
10. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS/PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
11. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
13. ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.
14. ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL BE AIR-ENTRAINED AND SHALL HAVE 4000 PSI STRENGTH AT 28 DAYS. ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS.

15. ALL STRUCTURAL STEEL WORK SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS. ALL STRUCTURAL STEEL SHALL BE ASTM A36 (F_y = 36 ksi) UNLESS OTHERWISE NOTED. ALL WELDS SHALL BE MADE IN ACCORDANCE WITH AISC SPECIFICATIONS. WELDS TO WEATHER SHALL BE HOT DIPPED GALVANIZED. TOUCH UP STEEL EXPLOSIVES AND OTHER MARKS IN THE FIELD AFTER STEEL IS ERECTED USING A COMPATIBLE ZINC RICH PAINT.
 16. CONSTRUCTION SHALL COMPLY WITH LIMITS SPECIFICATIONS AND "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF AIR&T MOBILITY SITES".
 17. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND LOCATIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS. ANY DISCREPANCIES OF SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
 18. THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AFTER HOURS TO AVOID MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER HOURS.
 19. SINCE THE CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC INTERFERENCE. ALL WORK SHALL BE COMPLETED PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO EXCESSIVE RF EXPOSURE MONITORS ARE ADVISED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.
 20. APPLICABLE BUILDING CODES:
 - SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (A.H.U.) FOR THE LOCATION. THE EDITION OF THE A.H.U. ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL BE THE DESIGNATION OF THE DESIGNATION OF THE DESIGNATION OF THE BUILDING CODE: 2003 IBC WITH 2005 CT SUPPLEMENT & 2009 CT AMENDMENTS
 - ELECTRICAL CODE: REFER TO ELECTRICAL DRAWINGS
 - LIGHTNING CODE: REFER TO ELECTRICAL DRAWINGS
- SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:
- AMERICAN CONCRETE INSTITUTE (ACI) 318: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE;
 - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)
 - MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION;
 - TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-F, STRUCTURAL STANDARDS FOR STEEL
 - ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES, REFER TO ELECTRICAL DRAWINGS FOR SPECIFIC ELECTRICAL STANDARDS.
- FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

ABBREVIATIONS

ACI	AGL	AWG	BCN	BITS	EG	ESR	G.C.	MGB	MIN	PROPOSED	N.T.S.	REF	RF	TBD	TBR	TBRR	TYP	RADIO FREQUENCY	
	ABOVE GRADE LEVEL	AMERICAN WIRE GAUGE	BARE COPPER WIRE	BASE TRANSMITTER STATION	EQUIPMENT GROUND	EQUIPMENT GROUND RING	GENERAL CONTRACTOR	MASTER GROUND BUS	MINIMUM	NEW	NOT TO SCALE	REFERENCE	REQUIRED						
				EXISTING EXISTING															TO BE DETERMINED
																			TO BE REMOVED AND REPLACED
																			TYPICAL

500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067

SITE NUMBER: CT5011
SITE NAME: DARIEN NOROTON HEIGHTS
NOROTON HEIGHTS RAILROAD STATION
DARIEN, CT 06820
FAIRFIELD COUNTY

22 KEEMAYON DRIVE
SALEM, NH 03079

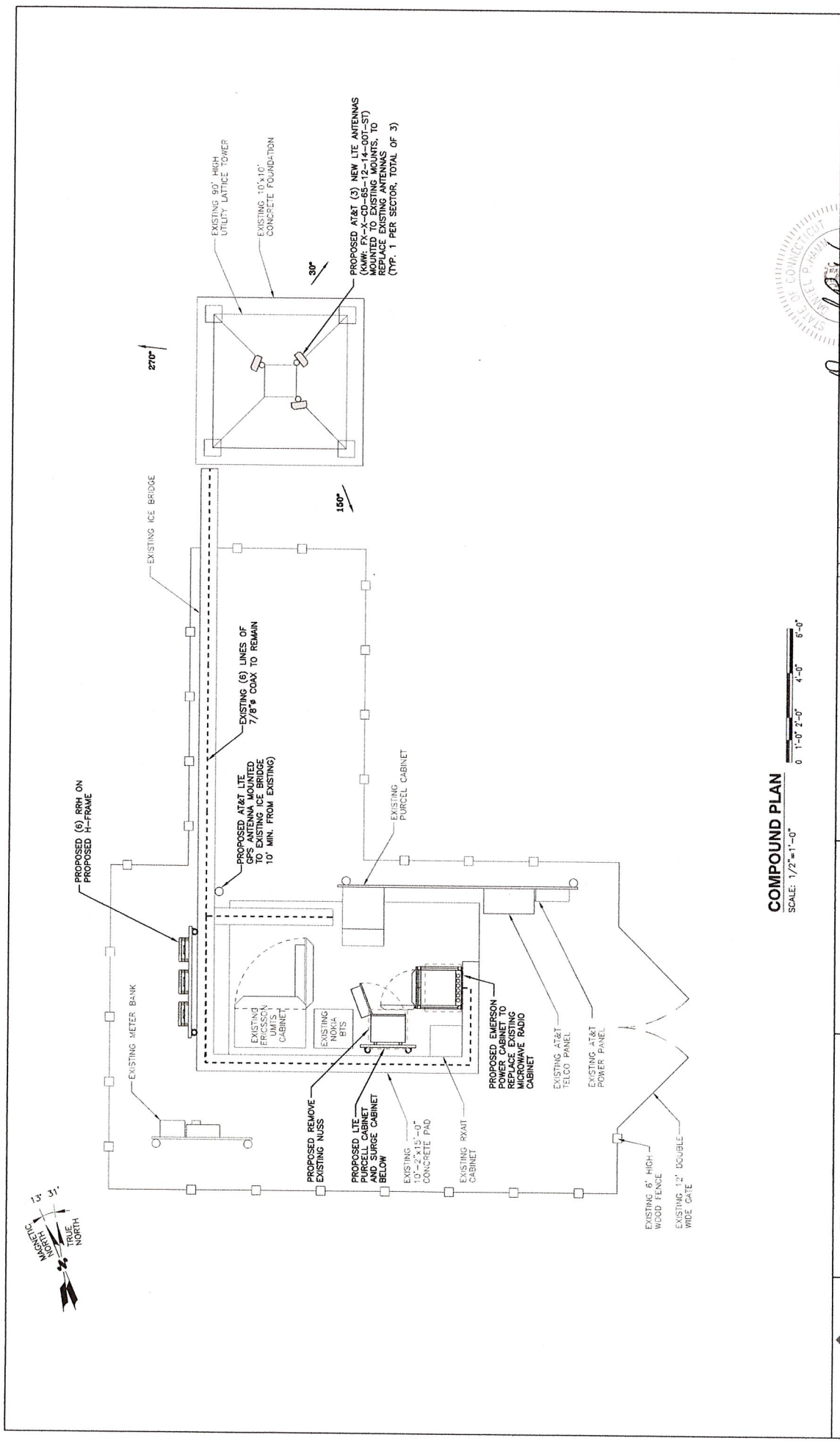
1400 GOSWOLD STREET
MILWAUKEE, WI 53217
TEL: 414.353.3333
FAX: 414.353.3333

AT&T
GENERAL NOTES
(LITE)

NO.	DATE	REVISIONS	BY	CHK	APP'D
2	12/02/11	CONSTRUCTION REVISED	RP	HC	DPH
1	02/21/11	ISSUED FOR CONSTRUCTION	AM	DC	DPH
0	02/29/11	ISSUED FOR CONSTRUCTION	AM	DC	DPH

SCALE: AS SHOWN DESIGNED BY: DC DRAWN BY: 46

5011.01
GN-1
2



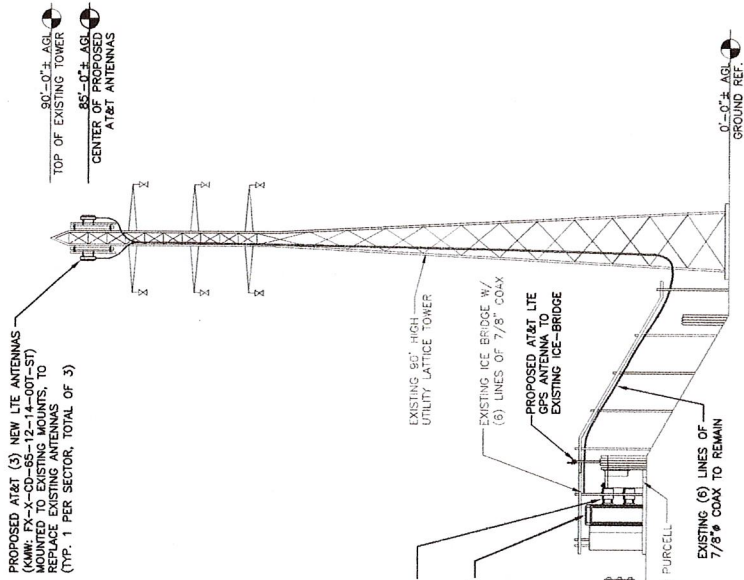
COMPOUND PLAN
SCALE: 1/2" = 1'-0"



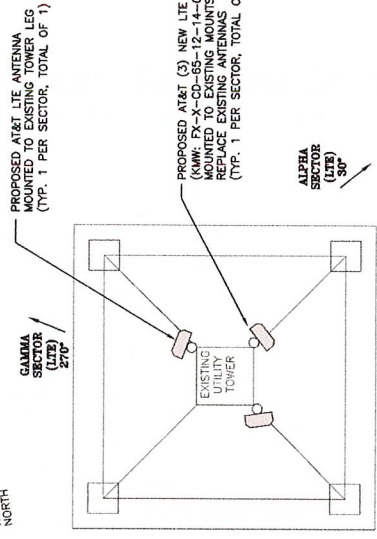
 HUDSON DESIGN GROUP 1400 COLCLOUGHER BLVD SUITE 200 NORTH SUITE 2-101 WINDSOR, CT 06095 TEL: 878-55-2000 FAX: 878-55-2000		 22 KEEMAYDIN DRIVE SALEM, NH 03079		SITE NUMBER: CT5011 SITE NAME: DARLEN NOROTON HEIGHTS NOROTON HEIGHTS RAILROAD STATION DARLEN, CT 06820 FAIRFIELD COUNTY		 500 ENTERPRISE DRIVE, SUITE 3A ROCKY HILL, CT 06067		AT&T COMPOUND PLAN (LIE)				
NO.	DATE	BY	CHK	APP'D	SCALE	AS SHOWN	DESIGNED BY:	DC	DRAWN BY:	JD		
0	02/24/11	ISSUED FOR CONSTRUCTION	US	DC	DC	DC	DC	DC	DC	DC		
1	02/24/11	ISSUED FOR CONSTRUCTION	US	DC	DC	DC	DC	DC	DC	DC		
2	12/05/11	CONSTRUCTION REVISED	RP	HC	DPH	DPH	DPH	DPH	DPH	DPH		
PROPOSED AT&T (3) NEW LTE ANTENNAS (M/W: FX-X-CD-65-12-14-00T-S) MOUNTED TO EXISTING MOUNTS, TO REPLACE EXISTING ANTENNAS (TYP. 1 PER SECTOR, TOTAL OF 3)												
REV										5011.01	A-1	2

NOTE:
 AN ANALYSIS FOR THE CAPACITY OF THE EXISTING PROPOSED EQUIPMENT SHALL BE DETERMINED PRIOR TO CONSTRUCTION.

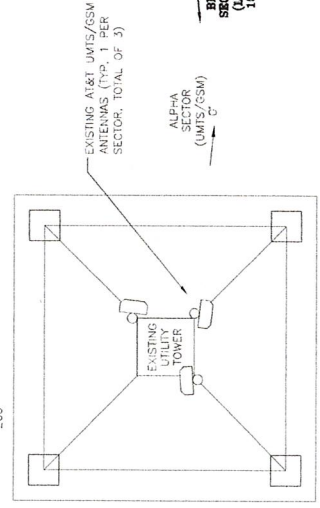
NOTE:
 REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.



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

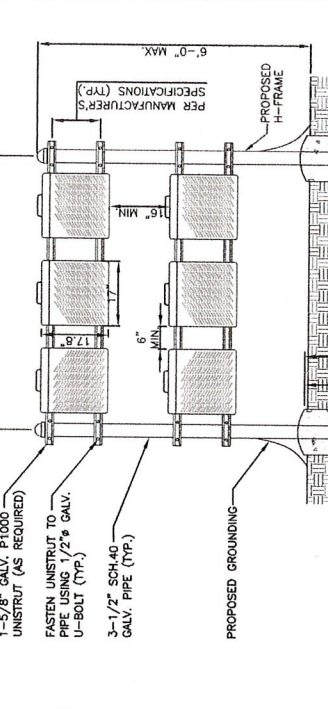
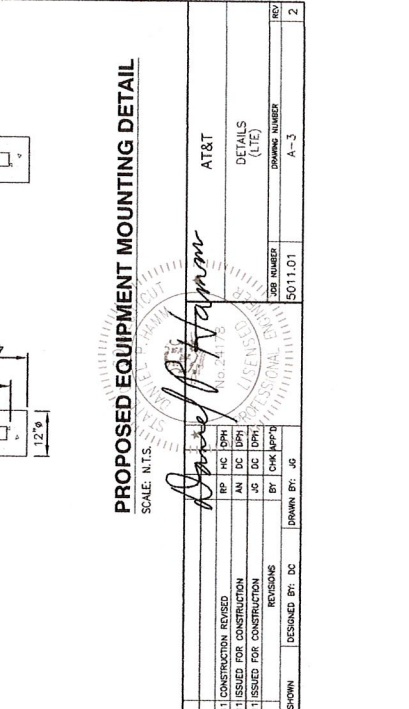
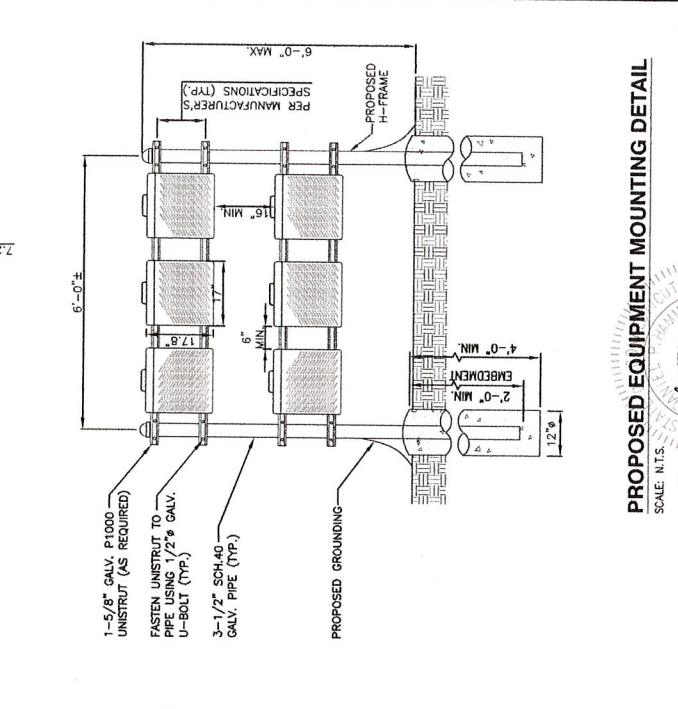
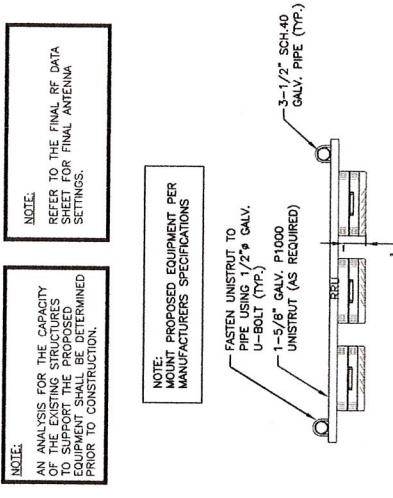
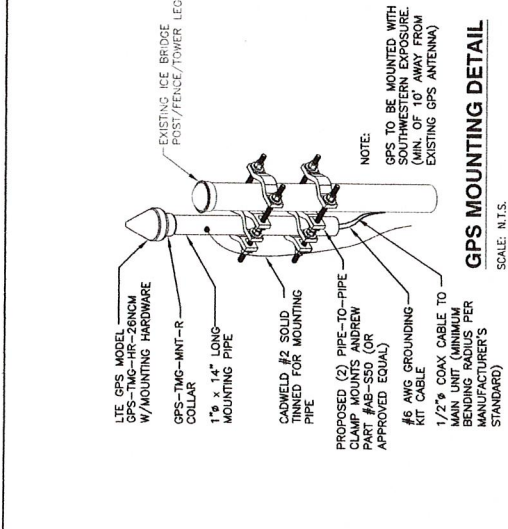


PROPOSED LTE ANTENNA PLAN VIEW
 SCALE: N.T.S.



EXISTING UMTS/GSM ANTENNA PLAN VIEW
 SCALE: N.T.S.

 1800 CROCODOR STREET WASHINGTON, MA 01890 TEL: (978) 535-5559 FAX: (978) 535-5558		 22 KEEMAYDIN DRIVE SALEM, NH 03079		 500 ENTERPRISE DRIVE, SUITE 3A ROCKY HILL, CT 06867	
SITE NUMBER: CT5011 SITE NAME: DARLEN NOROTON HEIGHTS NOROTON HEIGHTS RAILROAD STATION DARLEN, CT 06820 FAIRFIELD COUNTY		AT&T ANTENNA LAYOUT AND ELEVATION (LTE)		DRAWN BY: JC CHECKED BY: DC DESIGNED BY: DC SCALE: AS SHOWN	
NO. DATE REVISIONS 0 02/24/11 ISSUED FOR CONSTRUCTION 1 02/25/11 ISSUED FOR CONSTRUCTION 2 12/09/11 CONSTRUCTION REVISED		NO. DATE REVISIONS 0 02/24/11 ISSUED FOR CONSTRUCTION 1 02/25/11 ISSUED FOR CONSTRUCTION 2 12/09/11 CONSTRUCTION REVISED		JOB NO. 101101 DRAWING NO. A-2 SHEET NO. 2	



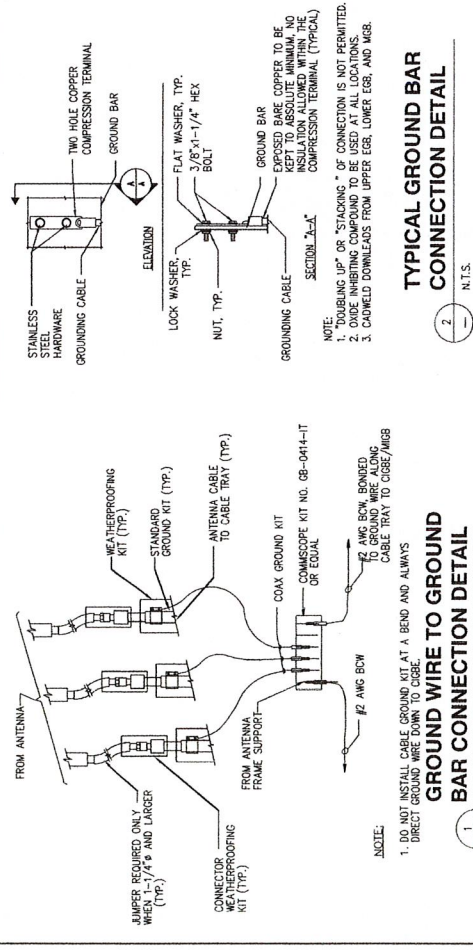
NOTES:

- REFER TO RF CONFIG & SECTOR SCHEMATICS FOR MODEL TYPE & QUANTITY REQUIRED PER SECTOR

PROPOSED LTE ANTENNA DETAIL
SCALE: N.T.S.

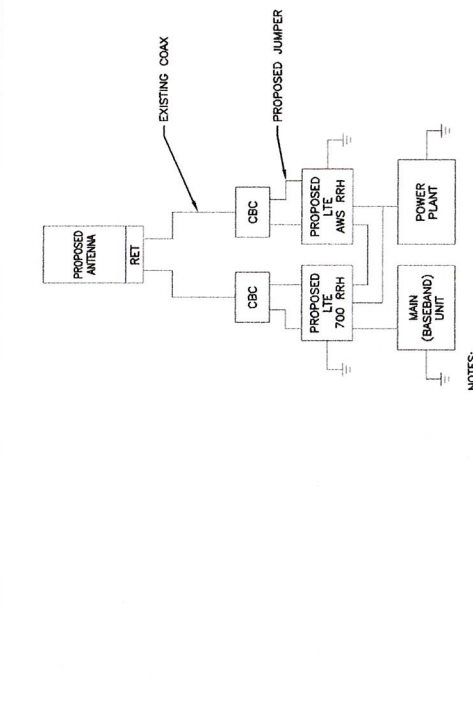
DATE: 02/28/2013
REVISIONS: AS SHOWN
DESIGNED BY: DC
DRAWN BY: JG
JOB NUMBER: 5011.01
DRAWING NUMBER: A-3

AT&T
DETAILS (LIE)
500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067



TYPICAL GROUND BAR CONNECTION DETAIL

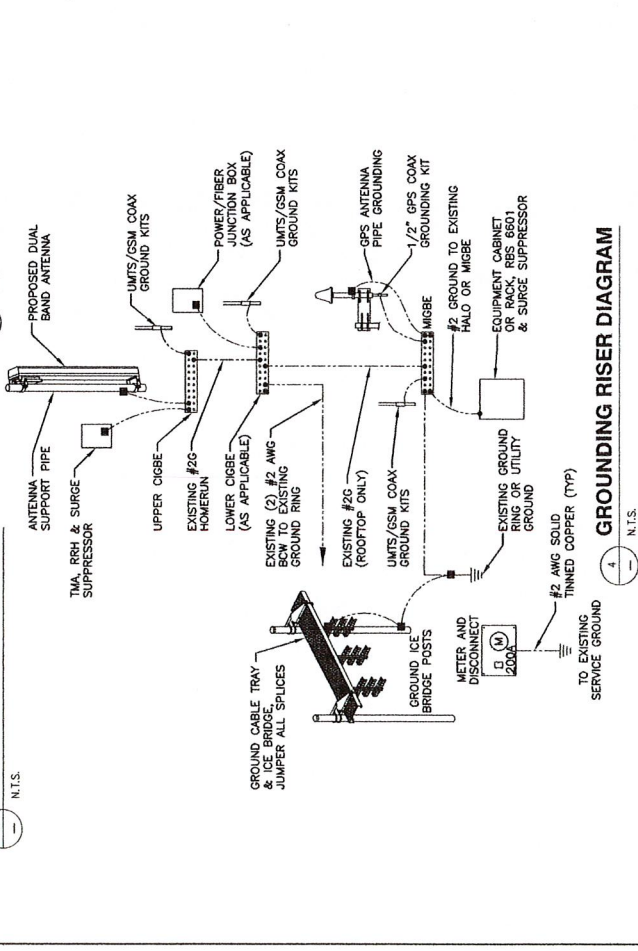
2 - N.T.S.



NOTES:
1. CONTRACTOR TO CONFIRM ALL PARTS.
2. INSTALL ALL EQUIPMENT TO MANUFACTURER'S SPECIFICATIONS

PLUMBING DIAGRAM

3 - N.T.S.

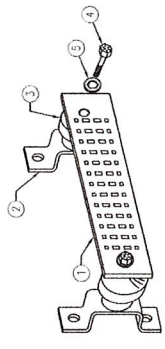


GROUNDING RISER DIAGRAM

4 - N.T.S.

WIRELESS SOLUTIONS INC.

NO.	REQ.	PART NO.	DESCRIPTION
1	1	HLCB-0420-IS	SOLID GND. BAR (20"x4"x1/4")
2	2	---	WALL MTG. BRKT.
3	2	---	INSULATORS
4	4	---	5/8"-11x1" H.H.C.S.
5	4	---	5/8 LOCKWASHER



GROUND BAR - DETAIL

5 - N.T.S.

EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.

SECTION "2" - SURGE PRODUCERS
CABLE ENTRY PORTS (HATCH PLATES) (#2)
GENERATOR FRAMEWORK (IF AVAILABLE) (#2)
TELECOM GROUND BAR
COMMERCIAL POWER COMMON NEUTRAL/GROUND BOND (#2)
-48V POWER SUPPLY RETURN BAR (#2)
RECTIFIER FRAMES.

SECTION "A" - SURGE ABSORBERS
INTERIOR GROUND RING (#2)
EXTERNAL EARTH GROUND FIELD (BURIED GROUND RING) (#2)
METALLIC COLD WATER PIPE (IF AVAILABLE) (#2)
BUILDING STEEL (IF AVAILABLE) (#2)

Hudson Design Group
1000 S. MAIN ST. SUITE 2101
N. ANDOVER, MA 01854
TEL: (978) 535-6333
FAX: (978) 535-5586

SIAD communications

SITE NUMBER: CT15011
SITE NAME: DARIEN NOROTON HEIGHTS
NOROTON HEIGHTS RAILROAD STATION
DARIEN, CT 06820
FAIRFIELD COUNTY

500 ENTERPRISE DRIV, SUITE 3A
ROCKY HILL, CT 06867

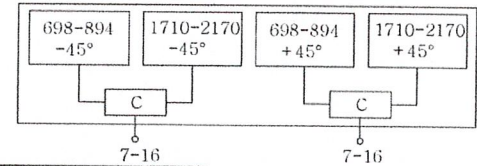
AT&T
PLUMBING DIAGRAM & DETAILS
(LIE)
JOB NUMBER: 5011.01
DRAWN BY: JG
DESIGNED BY: DC
SCALE: AS SHOWN
REVISIONS:
NO. DATE BY: CHK: APP: Q:
1 02/24/11 ISSUED FOR CONSTRUCTION
2 12/09/11 CONSTRUCTION REVISED
3 02/24/11 ISSUED FOR CONSTRUCTION

2 foot Panel Antenna Fixed Electrical Tilt with Integrated Diplexer FX-X-CD-65-12-65-14-00T-ST

698~894MHz, X-pol., H65°/ V33°
1710~2170MHz, X-pol., H60°/ V18°

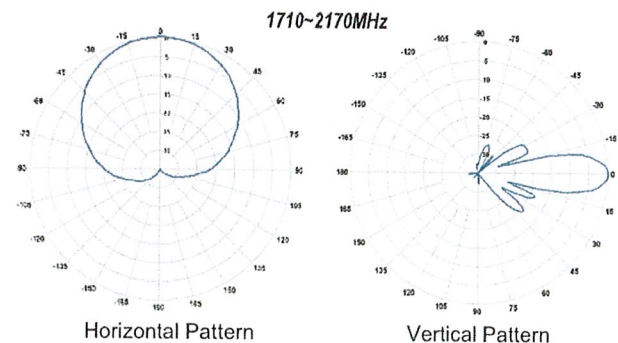
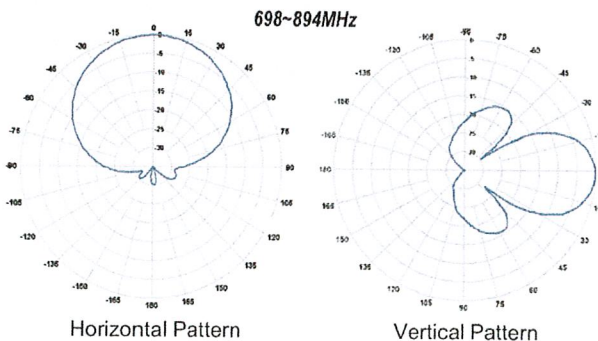
● Electrical Specification

Product Number		FX-X-CD-65-12-65-14-00T-ST			
Frequency Band		698~894MHz		1710~2170MHz	
Frequency Range		698~824MHz	824~894MHz	1710~1990MHz	1920~2170MHz
3dB Beam-Width	Horizontal	65°	62°	55°	55°
	Vertical	35.0°	32.0°	19.0°	17.0°
Gain (dBi / dBd)		12.7 / 10.6	12.4 / 10.3	14.0 / 11.9	13.5 / 11.4
Fixed Electrical Down Tilt		0°			
Front-to-Back Ratio		≥ 25dB		≥ 27dB	
Polarization Type		Dual, Slant ±45°		Dual, Slant ±45°	
Cross -Polar Discrimination	Boresight	≥ 15dB		≥ 15dB	
	±60°	≥ 8dB		≥ 8dB	
Input Maximum CW Power		500W		300W	
Impedance		50Ω		50Ω	
VSWR (Return Loss)		≤ 1.5:1 (≥ 14dB)		≤ 1.5:1 (≥ 14dB)	
Isolation	Between Ports	≥ 30dB		≥ 30dB	
	Between Bands	≥ 35dB (698~894MHz // 1710~2170MHz)			
Passive Intermodulation, IM3		≤ -150dBc (@2x43dBm)			



● Mechanical Specification

Dimension (Length x Width x Depth)	622mm x 300mm x 150mm (24.0" x 11.8" x 6.0")
Weight without Clamp	7.0kg (15.4lbs)
Max. Wind Speed	60m/s (150mph)
Wind Load (@100mph), Front / Side / Rear	280.8N / 138.1N / 280.8N (63.1lbf / 31.1lbf / 63.1lbf)
Connector (Type / Position)	2 x 7/16" DIN(Female) / Bottom



• Specifications are subject to change without notice. October 21st, 2011



New Cingular Wireless PCS, LLC
500 Enterprise Drive
Rocky Hill, Connecticut 06067-3900
Phone: (860) 463-5511
Fax: (860) 513-7190

Douglas L. Culp
Real Estate Consultant

December 6, 2011

Honorable Jayme Stevenson
First Selectman, Town of Darien
Darien Town Hall
2 Renshaw Road, Room 202
Darien, CT 06820

Re: Telecommunications Facility – Norton Heights Railroad Station Darien, CT

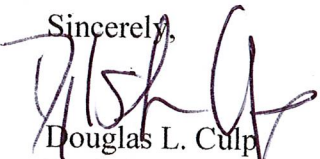
Dear Selectman Stevenson:

In order to accommodate technological changes, implement Uniform Mobile Telecommunications System (“UMTS”) and Long Term Evolution (“LTE”) capabilities, and enhance system performance in the State of Connecticut, New Cingular Wireless PCS, LLC (“AT&T”) will be changing its equipment configuration at certain cell sites.

As required by Regulations of Connecticut State Agencies (“R.C.S.A.”) Section 16-50j-73, the Connecticut Siting Council has been notified of the changes and will review AT&T’s proposal. Please accept this letter as notification under Section 16-50j-73 of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2).

The accompanying letter to the Siting Council fully describes Cingular’s proposal for the referenced cell site. However, if you have any questions or require any further information on our plans or the Siting Council’s procedures; please call me at (860) 463-5511 or Ms. Linda Roberts, Executive Director, Connecticut Siting Council at (860) 827-2935.

Sincerely,



Douglas L. Culp
Real Estate Consultant

Enclosure