



QC Development

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September 12, 2016

Melanie A. Bachman
Acting Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Notice of Exempt Modification – New Cingular Wireless PCS, LLC (AT&T)
171 Short Beach Road, Branford, CT 06405
N 41-15-46.04
W 72-50-03.94

Dear Ms. Bachman:

AT&T currently maintains twelve (12) antennas at the 120-foot level of the existing 120-foot Self Support Tower at 171 Short Beach Road, Branford, CT. The tower is owned by American Tower. The property is owned by 171 Short Beach Road Realty LLC. AT&T now intends to replace three (3) of its existing Ericsson Remote Radio Units (RRUS-11) with three (3) new RRUS-12s. These RRUs would be installed at the 120-foot level of the tower on the existing low profile platform mount.

This facility was approved by the Connecticut Siting Council, Docket No. 427 on December 13, 2012. This approval included the condition that total facility height may not exceed 123 feet. AT&T's proposed antennas will be mounted at the 120-foot level, such that their tips do not exceed this maximum height. This modification therefore complies with the aforementioned approval.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to James B. Cosgrove, First Selectman for the Town of Branford, as well as the property owner and the tower

owner.

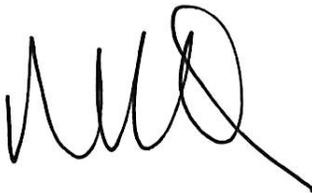
The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).

1. The proposed modifications will not result in an increase in the height of the existing structure.
2. The proposed modifications will not require the extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading.

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

Please feel free to call me at (860) 670-9068 with any questions regarding this matter. Thank you for your consideration.

Sincerely,

A handwritten signature in black ink, appearing to read 'MR', with a large loop at the end.

Mark Roberts
QC Development
Consultant for AT&T

Attachments

cc: James B. Cosgrove - as elected official (via e-mail)
American Tower - as tower owner (via e-mail)
171 Short Beach Road Realty LLC - as property owner

Power Density

Existing Loading on Tower

Carrier	# of Channels	ERP/Ch (W)	Antenna Centerline Height (ft)	Power Density (mW/cm ²)	Freq. Band (MHz ^{**})	Limit S (mW/cm ²)	%MPE
Other Carriers*							5.15%
AT&T GSM	2	492	120	0.0140	880	0.5867	0.46%
AT&T UMTS	2	419	120	0.0119	880	0.5867	0.40%
AT&T UMTS	2	817	120	0.0232	1900	1.0000	0.45%
AT&T LTE	2	1104	120	0.0314	734	0.4893	1.25%
AT&T LTE	2	2203	120	0.0627	1900	1.0000	1.22%
AT&T LTE	2	1791	120	0.0510	2300	1.0000	0.99%
Site Total							9.92%

*Per CSC Records (available upon request, includes calculation formulas)

** If a range of frequencies are used, such as 880-894, enter the lowest value, i.e. 880

Proposed Loading on Tower

Carrier	# of Channels	ERP/Ch (W)	Antenna Centerline Height (ft)	Power Density (mW/cm ²)	Freq. Band (MHz ^{**})	Limit S (mW/cm ²)	%MPE
Other Carriers*							5.15%
AT&T UMTS	2	500	120	0.0277	880	0.5867	0.47%
AT&T UMTS	2	500	120	0.0277	1900	1.0000	0.28%
AT&T LTE	2	1476	120	0.0817	734	0.4893	1.67%
AT&T LTE	2	3664	120	0.2028	1900	1.0000	2.03%
AT&T LTE	2	1285	120	0.0711	2300	1.0000	0.71%
Site Total							10.31%

*Per CSC Records (available upon request, includes calculation formulas)

** If a range of frequencies are used, such as 880-894, enter the lowest value, i.e. 880

Note: Proposed Loading may also include corrections to certain Existing Loading values

PROJECT INFORMATION

SCOPE OF WORK: TELECOMMUNICATIONS FACILITY UPGRADE (LTE BWE & FILTER 2017 UPGRADE):

SITE ADDRESS: 171 SHORT BEACH ROAD
BRANFORD, CT 06405

LATITUDE: 41.262792 N, 41° 15' 46.05" N

LONGITUDE: 72.834420 W, 72° 50' 3.91" W

TYPE OF SITE: MONOPOLE / EQUIPMENT SHELTER

TOWER HEIGHT: 120'-0±

RAD CENTER: 120'-0"±

CURRENT USE: TELECOMMUNICATIONS FACILITY

PROPOSED USE: TELECOMMUNICATIONS FACILITY



SITE NUMBER: CT1283

SITE NAME: BRANFORD SHORT BEACH ROAD

PROJECT: LTE BWE & FILTER 2017 UPGRADE

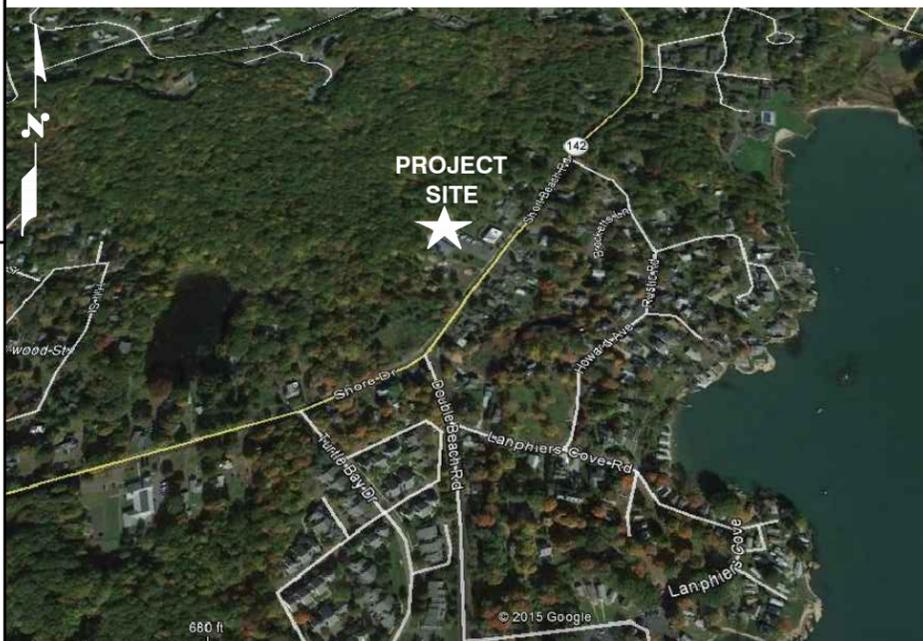
DRAWING INDEX

SHEET NO.	DESCRIPTION	REV.
T-1	TITLE SHEET	1
GN-1	GENERAL NOTES	1
A-1	COMPOUND PLAN	1
A-2	ANTENNA LAYOUTS & ELEVATION	1
A-3	DETAILS	1
RF-1	RF PLUMBING DIAGRAM	1
G-1	GROUNDING DETAILS	1

VICINITY MAP

DIRECTIONS TO SITE:

START OUT GOING NORTHEAST ON ENTERPRISE DR TOWARD CAPITOL BLVD. 0.4 MI. TURN LEFT ONTO CAPITOL BLVD. 0.3 MI. TURN LEFT ONTO WEST ST. 0.3 MI. MERGE ONTO I-91 S VIA THE RAMP ON THE LEFT TOWARD NEW HAVEN. 29.1 MI. MERGE ONTO I-95 S/GOVERNOR JOHN DAVIS LODGE TURNPIKE VIA THE EXIT ON THE LEFT. 4.5 MILES. TAKE EXIT 53 TOWARD SHORT BEACH. 1.1 MILES. TURN SHARP RIGHT ONTO US-1/W MAIN ST. 0.1 MILES. TURN LEFT ONTO 142/SHORT BEACH RD. 1.0 MILES. SITE WILL BE ON THE LEFT.



GENERAL NOTES

1. THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF AT&T. 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.
2. THE FACILITY IS AN UNMANNED PRIVATE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY ACCESSED BY TRAINED TECHNICIANS FOR PERIODIC ROUTINE MAINTENANCE AND THEREFORE DOES NOT REQUIRE ANY WATER OR SANITARY SEWER SERVICE. THE FACILITY IS NOT GOVERNED BY REGULATIONS REQUIRING PUBLIC ACCESS PER ADA REQUIREMENTS.
3. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE AT&T MOBILITY REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

AMERICAN TOWER SITE #: 283422
AMERICAN TOWER SITE NAME: SHORT BEACH BRANFORD

UNDERGROUND SERVICE ALERT

CALL BEFORE YOU DIG
CALL TOLL FREE 1-800-922-4455
OR CALL 811



Hudson Design Group
1600 OSGOOD STREET
BUILDING 20 NORTH, SUITE 3090
N. ANDOVER, MA 01845
TEL: (978) 557-5553
FAX: (978) 336-5586

SAI
27 NORTHWESTERN DR.
SALEM, NH 03079

SITE NUMBER: CT1283
SITE NAME: BRANFORD SHORT BEACH ROAD
ATC SITE # 283422
171 SHORT BEACH ROAD
BRANFORD, CT 06405
NEW HAVEN COUNTY

at&t
500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067

NO.	DATE	REVISIONS	BY	CHK	APP'D
1	08/19/16	ISSUED FOR CONSTRUCTION	RB	AT	EB
A	08/02/16	ISSUED FOR REVIEW	EB	AT	DJC

SCALE: AS SHOWN DESIGNED BY: AT DRAWN BY: EB

AT&T
TITLE SHEET
(LTE BWE & FILTER)

SITE NUMBER	DRAWING NUMBER	REV
CT1283	T-1	1

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 AHJ), THE SITE-SPECIFIC (UL, LPI, OR NFPA) LIGHTING PROTECTION CODE, AND GENERAL COMPLIANCE WITH TELCORDIA 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 GES'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 BTS EQUIPMENT.
5. EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS 2 AWG STRANDED COPPER FOR OUTDOOR BTS.
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 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 AWS 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 GREATER 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 – SAI
 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 LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK 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, APPURTENANCES, AND LABOR 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 (Fy = 36 ksi) UNLESS OTHERWISE NOTED. PIPES SHALL BE ASTM A53 TYPE E (Fy = 36 ksi). ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED. TOUCHUP ALL SCRATCHES AND OTHER MARKS IN THE FIELD AFTER STEEL IS ERECTED USING A COMPATIBLE ZINC RICH PAINT.
16. CONSTRUCTION SHALL COMPLY WITH SPECIFICATIONS AND "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF AT&T SITES."
17. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. 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 AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
19. SINCE THE CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL 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 (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.
 BUILDING CODE: 2003 IBC WITH 2005 CT SUPPLEMENT, + 2009 & 2013 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, FOURTEENTH EDITION;

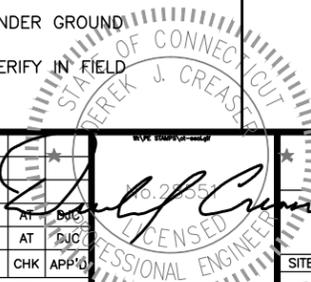
 TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-F,
 STRUCTURAL STANDARDS FOR STEEL

 EQUIPMENT 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

AGL	ABOVE GRADE LEVEL	EQ	EQUAL	REQ	REQUIRED
AWG	AMERICAN WIRE GAUGE	GC	GENERAL CONTRACTOR	RF	RADIO FREQUENCY
BBU	BATTERY BACKUP UNIT	GRC	GALVANIZED RIGID CONDUIT	TBD	TO BE DETERMINED
BTCW	BARE TINNED SOLID COPPER WIRE	MGB	MASTER GROUND BAR	TBR	TO BE REMOVED
BGR	BURIED GROUND RING	MIN	MINIMUM	TBRR	TO BE REMOVED AND REPLACED
BTS	BASE TRANSCEIVER STATION	P	PROPOSED	TYP	TYPICAL
E	EXISTING	NTS	NOT TO SCALE	UG	UNDER GROUND
EGB	EQUIPMENT GROUND BAR	RAD	RADIATION CENTER LINE (ANTENNA)	VIF	VERIFY IN FIELD
EGR	EQUIPMENT GROUND RING	REF	REFERENCE		



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 BUILDING 20 NORTH, SUITE 3090
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 TEL: (978) 557-5553
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SAI
 27 NORTHWESTERN DR.
 SALEM, NH 03079

SITE NUMBER: CT1283
SITE NAME: BRANFORD SHORT BEACH ROAD
ATC SITE # 283422
 171 SHORT BEACH ROAD
 BRANFORD, CT 06405
 NEW HAVEN COUNTY

at&t
 500 ENTERPRISE DRIVE, SUITE 3A
 ROCKY HILL, CT 06067

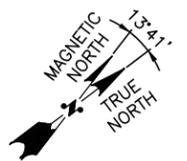
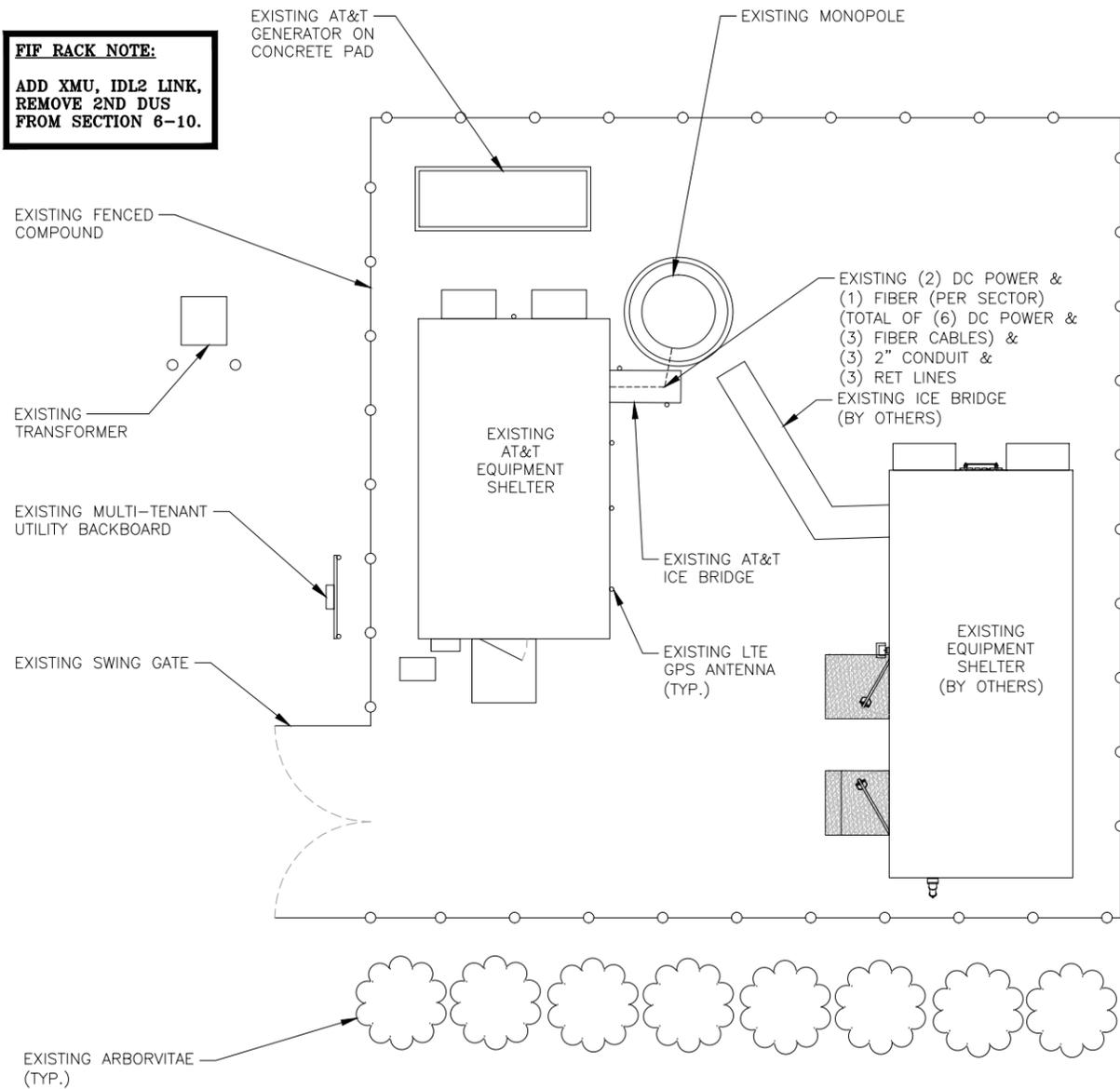
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A	08/02/16	ISSUED FOR REVIEW	EB	AT	DJC
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: AT	DRAWN BY: EB		

AT&T
GENERAL NOTES
(LTE BWE & FILTER)

SITE NUMBER	DRAWING NUMBER	REV
CT1283	GN-1	1

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

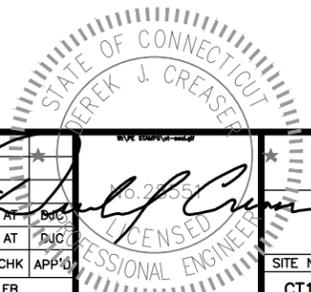
NOTE:
ALL ANTENNAS AND RRHS TO BE INSTALLED IN ACCORDANCE WITH STRUCTURAL ANALYSIS PROVIDED BY AMERICAN TOWER AND FINAL RF DATA SHEET.



COMPOUND PLAN
22x34 SCALE: 3/16"=1'-0"
11x17 SCALE: 3/32"=1'-0"

1
A-1

0 2'-8" 5'-4" 10'-8" 16'-0"



Hudson Design Group

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BUILDING 20 NORTH, SUITE 309D
N. ANDOVER, MA 01845

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SAI

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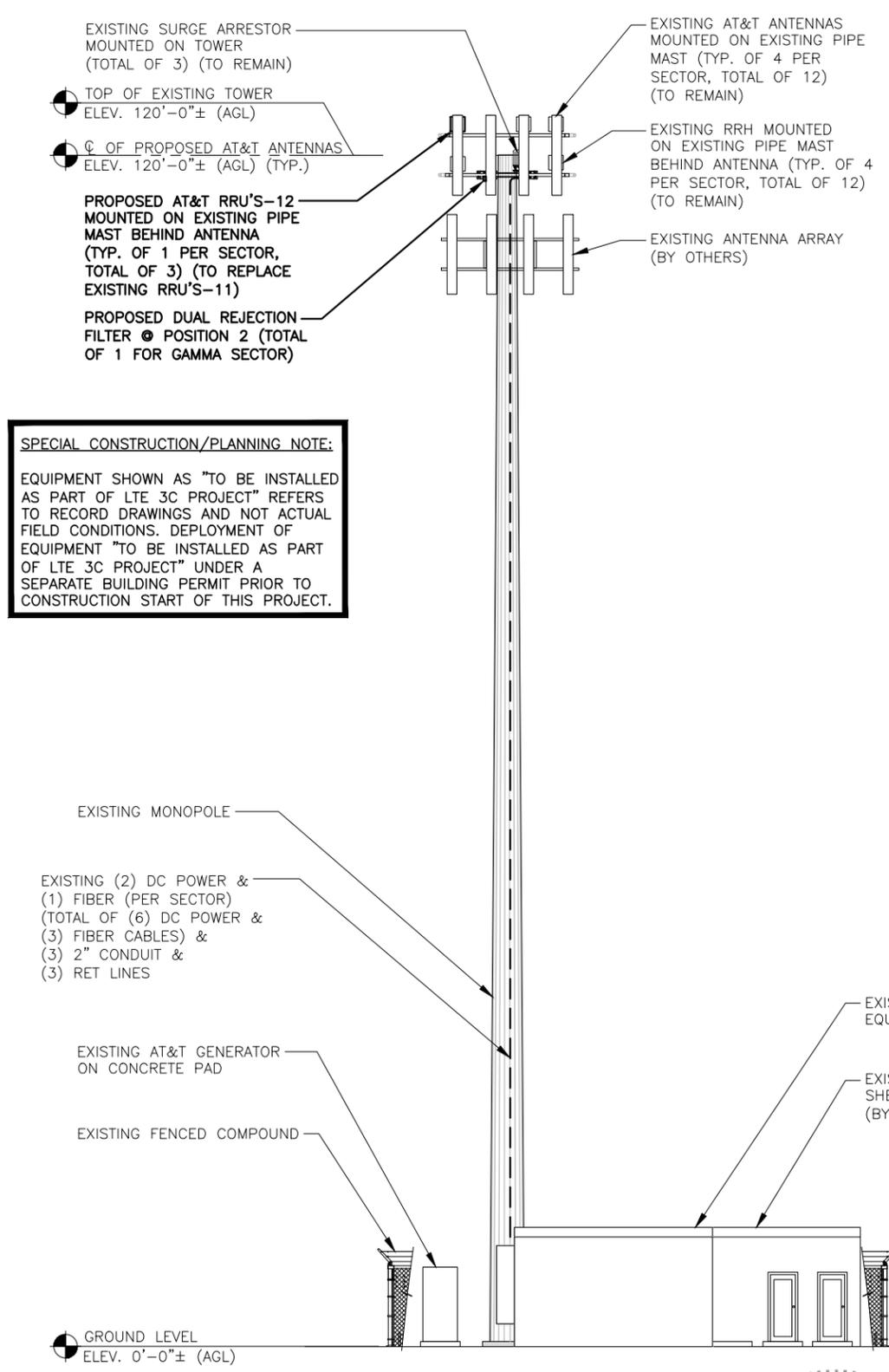
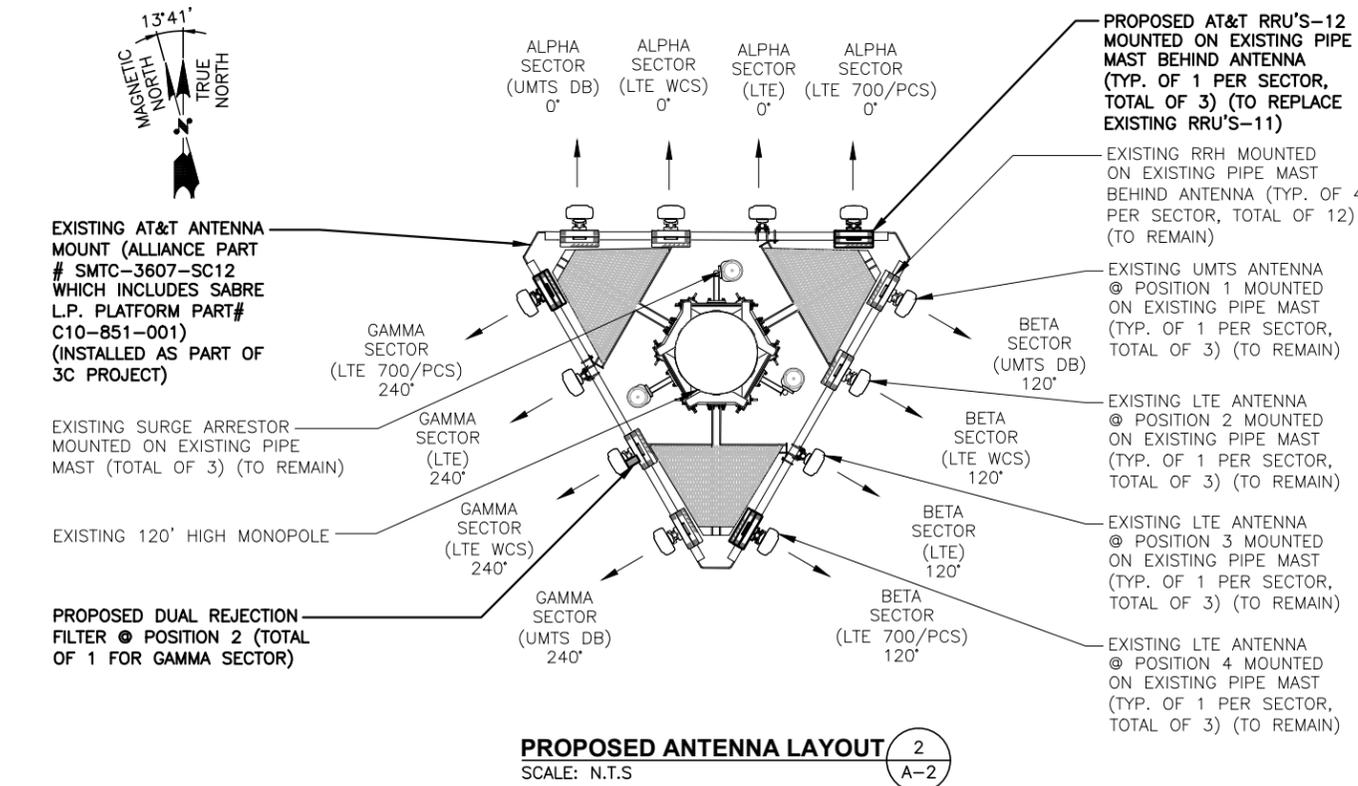
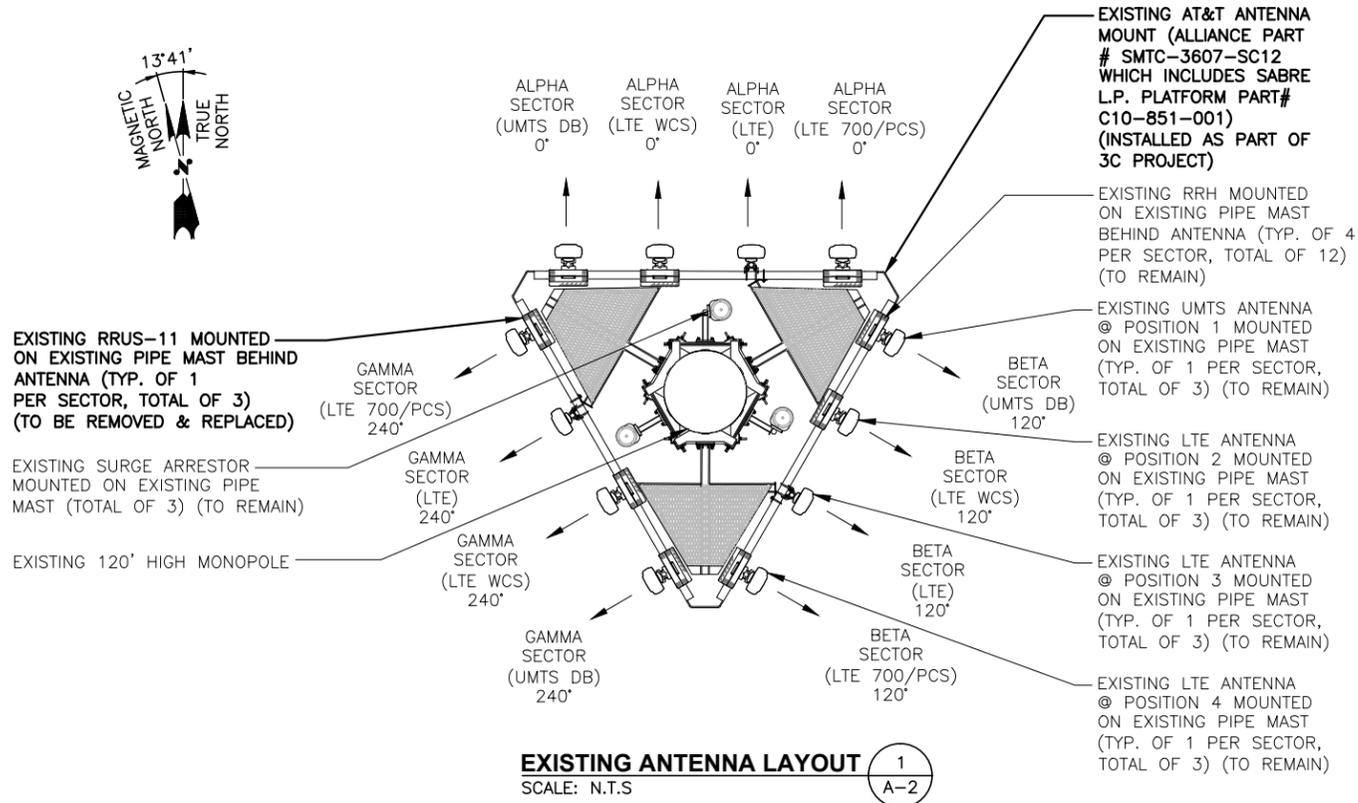
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AT&T

COMPOUND PLAN
(LTE BWE & FILTER)

SITE NUMBER	DRAWING NUMBER	REV
CT1283	A-1	1



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

NOTE:
ALL ANTENNAS AND RRHS TO BE INSTALLED IN ACCORDANCE WITH STRUCTURAL ANALYSIS PROVIDED BY AMERICAN TOWER AND FINAL RF DATA SHEET.

SPECIAL CONSTRUCTION/PLANNING NOTE:
EQUIPMENT SHOWN AS "TO BE INSTALLED AS PART OF LTE 3C PROJECT" REFERS TO RECORD DRAWINGS AND NOT ACTUAL FIELD CONDITIONS. DEPLOYMENT OF EQUIPMENT "TO BE INSTALLED AS PART OF LTE 3C PROJECT" UNDER A SEPARATE BUILDING PERMIT PRIOR TO CONSTRUCTION START OF THIS PROJECT.

Hudson Design Group
1600 OSGOOD STREET
BUILDING 20 NORTH, SUITE 309D
N. ANDOVER, MA 01845
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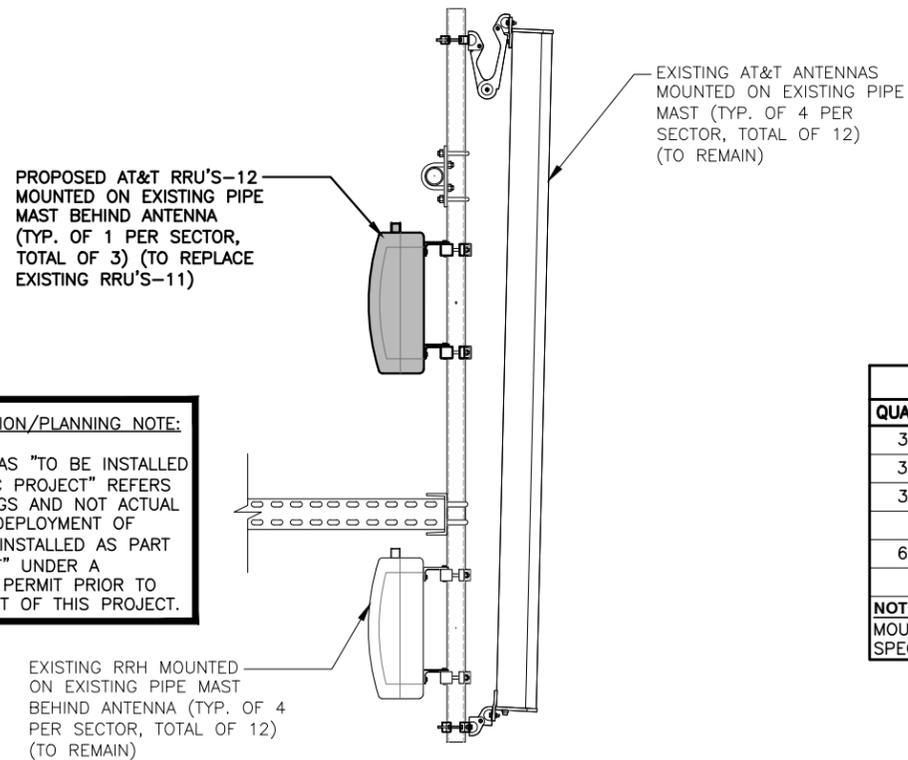
AT&T
ANTENNA LAYOUTS & ELEVATION
(LTE BWE & FILTER)

SITE NUMBER	DRAWING NUMBER	REV
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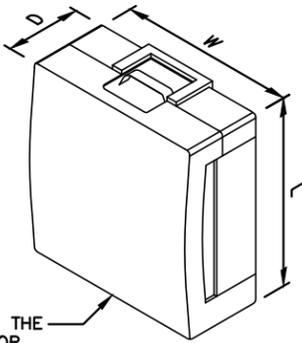
EXISTING ANTENNA SCHEDULE			
SECTOR	MAKE	MODEL#	SIZE (INCHES)
ALPHA:	ANDREW	SBNH-1D6565C	96.4X11.9X7.1
	CCI	HPA-65R-BUU-H8-K	92.4X14.8X7.4
	ANDREW	SBNH-1D6565C	96.4X11.9X7.1
BETA:	ANDREW	SBNH-1D6565C	96.4X11.9X7.1
	CCI	HPA-65R-BUU-H8-K	92.4X14.8X7.4
	ANDREW	SBNH-1D6565C	96.4X11.9X7.1
GAMMA:	ANDREW	SBNH-1D6565C	96.4X11.9X7.1
	CCI	HPA-65R-BUU-H8-K	92.4X14.8X7.4
	ANDREW	SBNH-1D6565C	96.4X11.9X7.1



SPECIAL CONSTRUCTION/PLANNING NOTE:
EQUIPMENT SHOWN AS "TO BE INSTALLED AS PART OF LTE 3C PROJECT" REFERS TO RECORD DRAWINGS AND NOT ACTUAL FIELD CONDITIONS. DEPLOYMENT OF EQUIPMENT "TO BE INSTALLED AS PART OF LTE 3C PROJECT" UNDER A SEPARATE BUILDING PERMIT PRIOR TO CONSTRUCTION START OF THIS PROJECT.

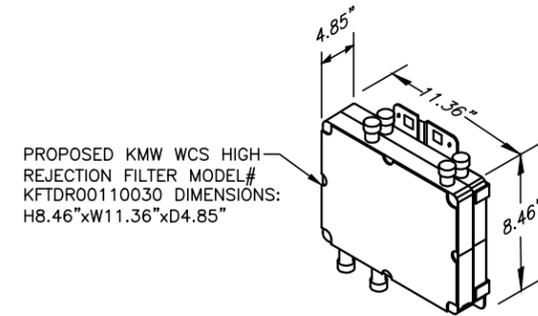
RRU CHART				
QUANTITY	MODEL	L	W	D
3(E)	RRUS-11	19.7"	17.0"	7.2"
3(P)	RRUS-12	20.4"	18.5"	7.5"
3(E)	RRUS-32	27.2"	12.1"	7.0"
-	RRUS-E2	20.4"	18.5"	7.5"
6(E)	RRUW	23.6"	13.8"	6.7"
-	LTE-A2	16.4"	15.2"	3.4"

NOTE:
MOUNT PER MANUFACTURER'S SPECIFICATIONS



PROPOSED RRU REFER TO THE FINAL RFDS AND CHART FOR QUANTITY, MODEL AND DIMENSIONS

NOTE:
MOUNT PER MANUFACTURER'S SPECIFICATIONS.



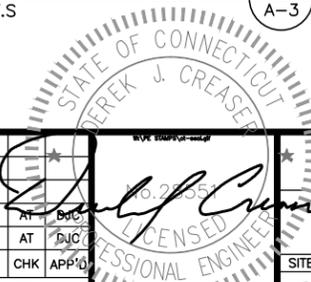
PROPOSED KMW WCS HIGH REJECTION FILTER MODEL# KFTDR00110030 DIMENSIONS: H8.46"xW11.36"xD4.85"

NOTE:
MOUNT PER MANUFACTURER'S SPECIFICATIONS.

PROPOSED RRU MOUNTING DETAIL 1
22x34 SCALE: 1"=1'-0"
11x17 SCALE: 1/2"=1'-0" A-3

PROPOSED RRH DETAIL 2
SCALE: N.T.S. A-3

PROPOSED DUAL REJECTION FILTER DETAIL 3
SCALE: N.T.S. A-3



Hudson Design Group
1600 OSGOOD STREET
BUILDING 20 NORTH, SUITE 3090
N. ANDOVER, MA 01845
TEL: (978) 557-5553
FAX: (978) 336-5586

SAI
27 NORTHWESTERN DR.
SALEM, NH 03079

SITE NUMBER: CT1283
SITE NAME: BRANFORD SHORT BEACH ROAD
ATC SITE # 283422
171 SHORT BEACH ROAD
BRANFORD, CT 06405
NEW HAVEN COUNTY

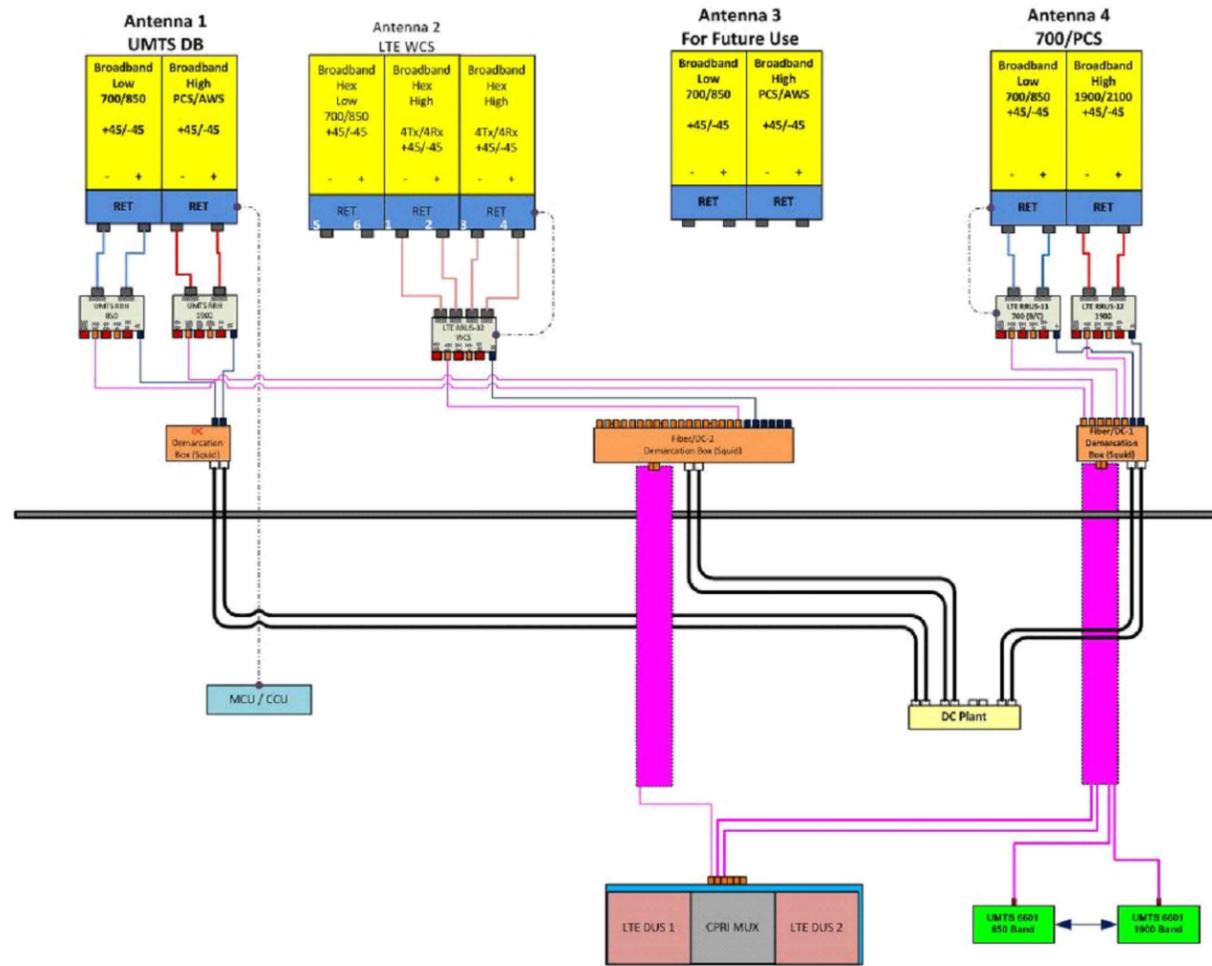
at&t
500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067

NO.	DATE	REVISIONS	BY	CHK	APP'D
1	08/19/16	ISSUED FOR CONSTRUCTION	RB	AT	EB
A	08/02/16	ISSUED FOR REVIEW	EB	AT	DJC

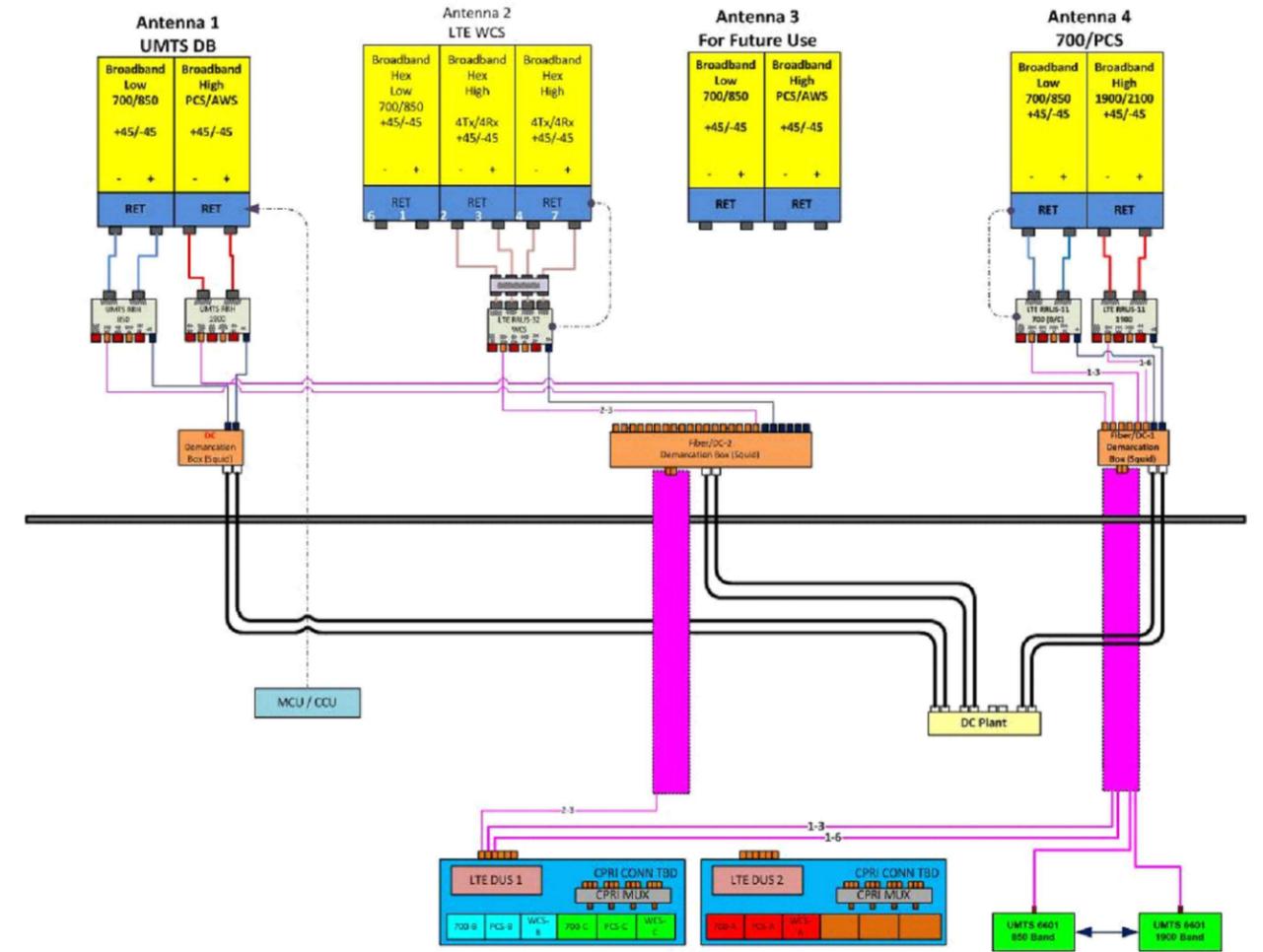
SCALE: AS SHOWN DESIGNED BY: AT DRAWN BY: EB

AT&T
DETAILS
(LTE BWE & FILTER)

SITE NUMBER	DRAWING NUMBER	REV
CT1283	A-3	1



ALPHA/BETA SECTOR



GAMMA SECTOR

RF PLUMBING DIAGRAM 1
SCALE: N.T.S. RF-1

NOTE:
1. CONTRACTOR TO CONFIRM ALL PARTS.
2. INSTALL ALL EQUIPMENT TO MANUFACTURER'S RECOMMENDATIONS

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



1600 OSGOOD STREET
BUILDING 20 NORTH, SUITE 309D
N. ANDOVER, MA 01845
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FAX: (978) 336-5586



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SALEM, NH 03079

SITE NUMBER: CT1283
SITE NAME: BRANFORD SHORT BEACH ROAD
ATC SITE # 283422
171 SHORT BEACH ROAD
BRANFORD, CT 06405
NEW HAVEN COUNTY

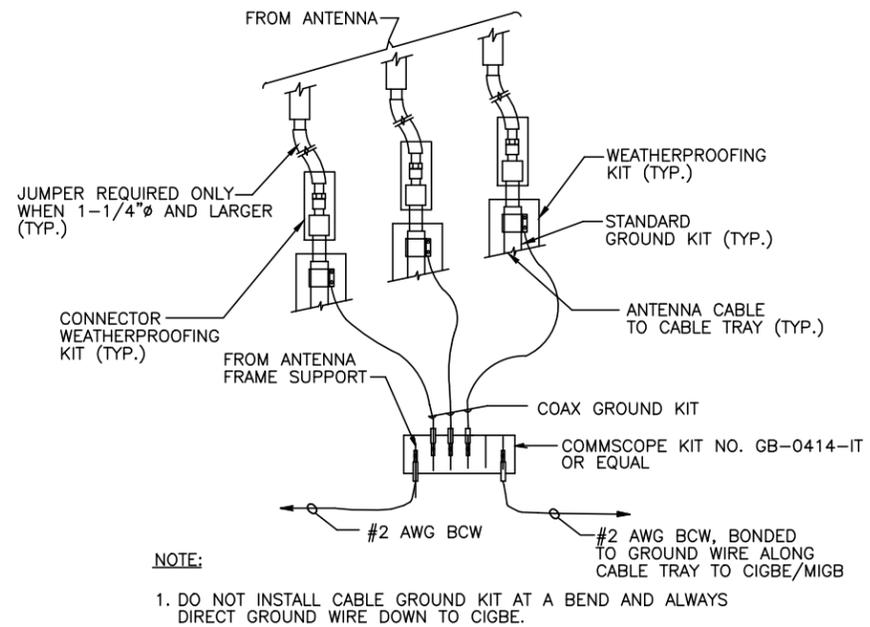


500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067

1	08/19/16	ISSUED FOR CONSTRUCTION	RB	AT	EB
A	08/02/16	ISSUED FOR REVIEW	EB	AT	DJC
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: AT	DRAWN BY: EB		



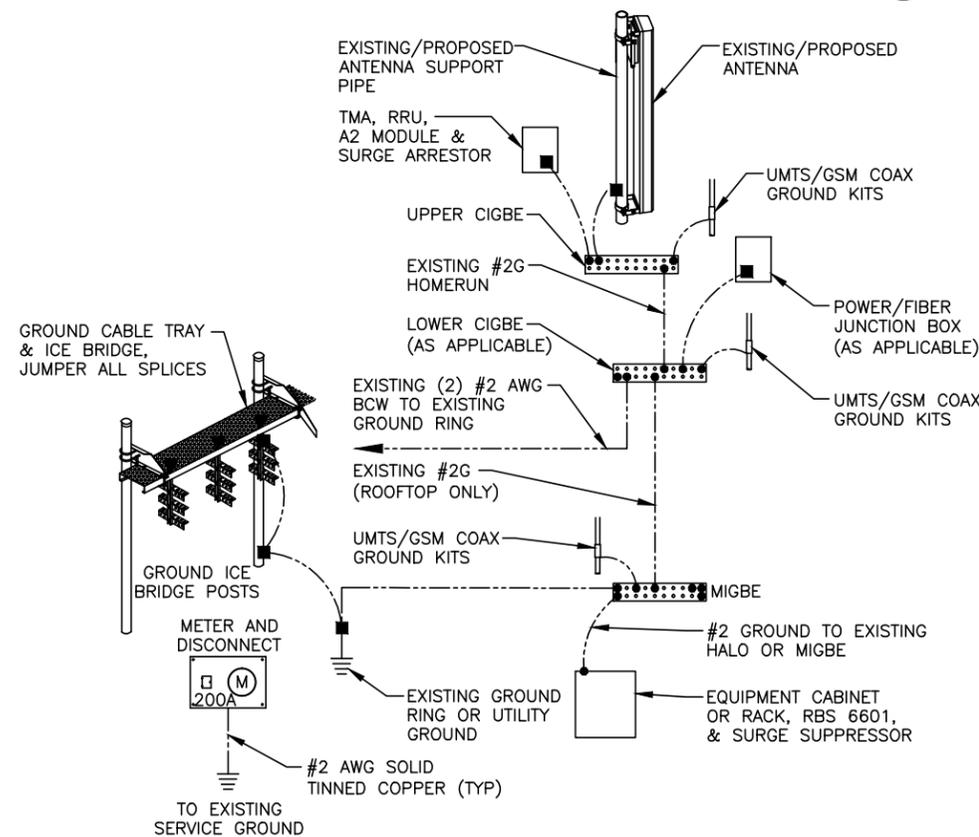
AT&T	
RF PLUMBING DIAGRAM (LTE BWE & FILTER)	
SITE NUMBER	DRAWING NUMBER
CT1283	RF-1
	REV
	1



GROUND WIRE TO GROUND BAR CONNECTION DETAIL

SCALE: N.T.S.

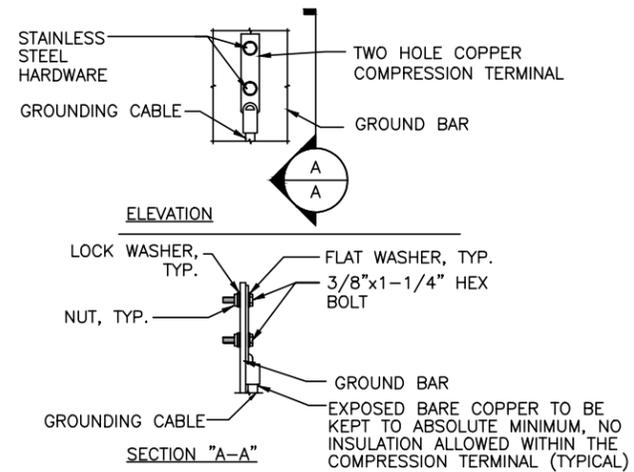
1
G-1



GROUNDING RISER DIAGRAM

SCALE: N.T.S.

2
G-1



NOTE:

- "DOUBLING UP" OR "STACKING" OF CONNECTION IS NOT PERMITTED.
- OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATION.
- CADWELDED DOWNLEADS FROM UPPER EGB, LOWER EGB, AND MGB

TYPICAL GROUND BAR CONNECTION DETAIL

SCALE: N.T.S.

3
G-1

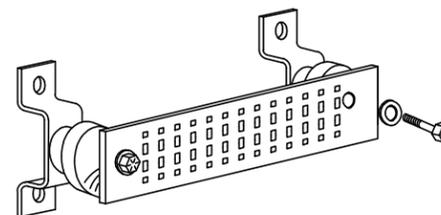
EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.

SECTION "P" - SURGE PRODUCERS

- CABLE ENTRY PORTS (HATCH PLATES) (#2)
- GENERATOR FRAMEWORK (IF AVAILABLE) (#2)
- TELCO GROUND BAR
- COMMERCIAL POWER COMMON NEUTRAL/GROUND BOND (#2)
- +24V POWER SUPPLY RETURN BAR (#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)



GROUND BAR - DETAIL

SCALE: N.T.S.

4
G-1



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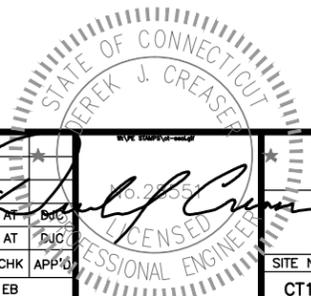
27 NORTHWESTERN DR.
SALEM, NH 03079

SITE NUMBER: CT1283
SITE NAME: BRANFORD SHORT BEACH ROAD
ATC SITE # 283422
171 SHORT BEACH ROAD
BRANFORD, CT 06405
NEW HAVEN COUNTY



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

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A	08/02/16	ISSUED FOR REVIEW	EB	AT	DJG
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: AT	DRAWN BY: EB		



AT&T

GROUNDING DETAILS
(LTE BWE & FILTER)

SITE NUMBER	DRAWING NUMBER	REV
CT1283	G-1	1



AMERICAN TOWER®
CORPORATION

Structural Evaluation	
ATC Site Number & Name	283422, Short Beach Branford CT, CT
Carrier Site Number & Name	CT1283, Branford - Short Beach
Site Location	171 Short Beach Road Branford, CT 06405-4930, New Haven County 41.26278888 N / -72.83442770 W
Tower Description	119 ft Monopole
Basic Wind Speed	110 mph (3-Second Gust)
Basic Wind Speed w/ Ice	50 mph (3-Second Gust) w/ 3/4" ice
Code	ANSI/TIA-222-G / 2003 IBC / 2005 CT Supplement & 2009 CT Amendment

Existing and Reserved Equipment

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
120.0	120.0	3	Raycap DC6-48-60-18-8F	T-Arms	(3) 3/8" (0.38") RET Control Cable	AT&T Mobility
		9	Ericsson RRUS 11 (Band 12)			
		3	Ericsson RRUS 32 B30			
		9	Andrew SBNH-1D6565C			
		3	CCI HPA-65R-BUU-H8			
102.0	102.0	3	Alcatel-Lucent RRH2X60-AWS	Low Profile Platform	(12) 1 5/8" Coax (2) 1 5/8" Hybriflex	Verizon
		3	Alcatel-Lucent RRH2x60 700			
		3	Alcatel-Lucent PCS B25 RRH2x60/4x30			
		2	RFS DB-T1-6Z-8AB-OZ			
		3	Antel BXA-70063-6CF-EDIN-X			
		6	Commscope SBNHH-1D65B			
3	Andrew LNX-6514DS-A1M					

Equipment to be Removed

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
No loading considered as to be removed						

**Proposed Equipment**

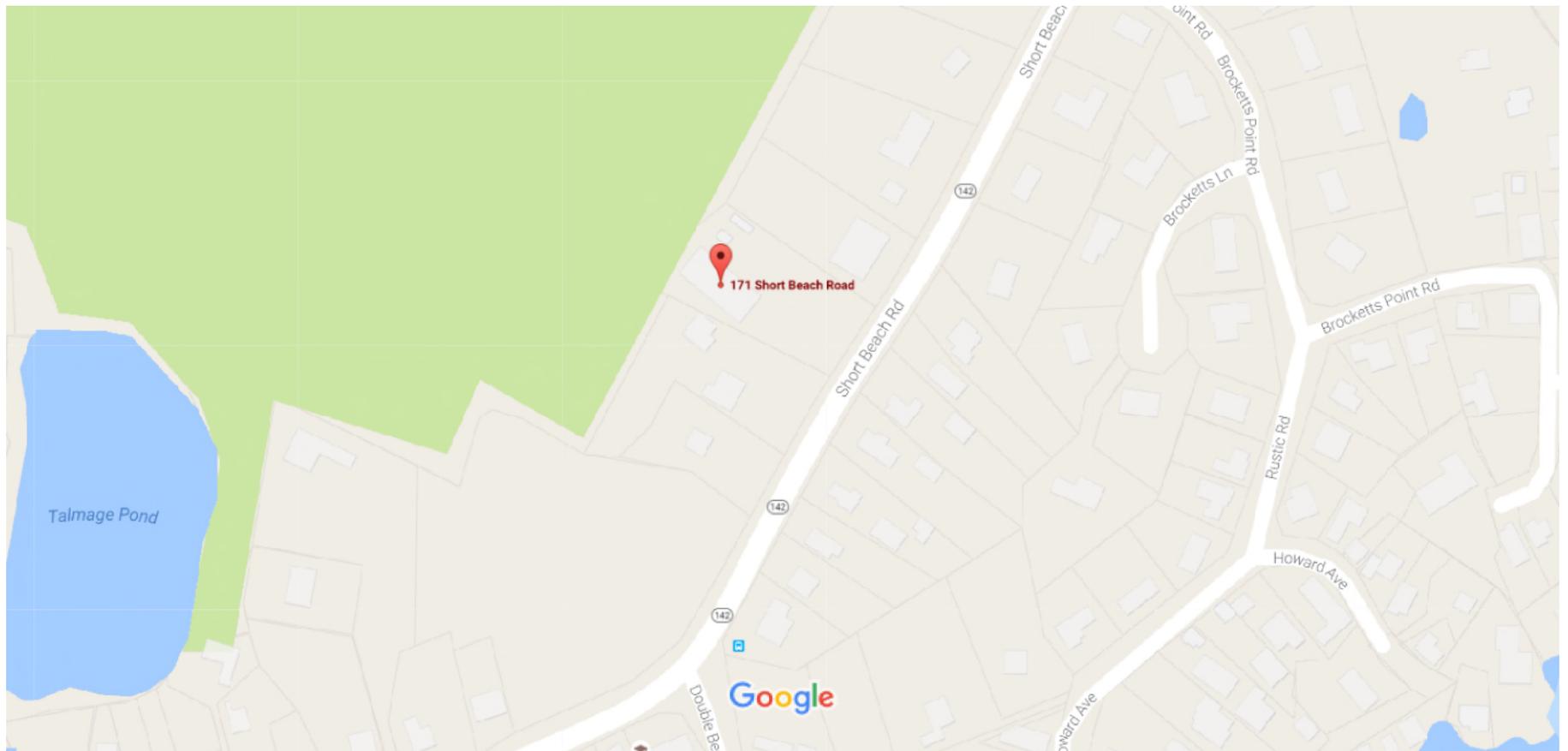
Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
120.0	120.0	1	Commscope WCS-IMFQ-AMT	T-Arms	(6) 0.78" 8 AWG 6 (3) 0.39" Fiber Trunk (3) 2" conduit	AT&T Mobility
		3	Ericsson RRUS-12 B2			

¹Mount elevation is defined as height above bottom of steel structure to bottom of mount, RAD elevation is defined as center of antenna above grade level (AGL).

Install proposed coax inside of the pole shaft.

The existing and proposed loads listed in the tables above are compared to the tower's current design capacity or previous structural analysis. The tower should be re-evaluated as future loads are added or if actual loads are found different from those listed in the tables. The subject tower and foundation **are adequate** to support the above stated loads in conformance with specified requirements.

IPD/AMS



171 SHORT BEACH RD

Location	171 SHORT BEACH RD	Assessment	\$368,500
Mblu	C10/000 002/ 00009/ /	Appraisal	\$526,500
Acct#	000573	PID	688
Owner	171 SHORT BEACH ROAD REALTY LLC	Building Count	1

Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2014	\$225,000	\$301,500	\$526,500

Assessment			
Valuation Year	Improvements	Land	Total
2014	\$157,400	\$211,100	\$368,500

Owner of Record

Owner	171 SHORT BEACH ROAD REALTY LLC	Sale Price	\$380,000
Co-Owner		Certificate	
Address	171 SHORT BEACH RD BRANFORD, CT 06405	Book & Page	0960/0925
		Sale Date	08/29/2006

Ownership History

Ownership History				
Owner	Sale Price	Certificate	Book & Page	Sale Date
171 SHORT BEACH ROAD REALTY LLC	\$380,000		0960/0925	08/29/2006
BATROW ALICE			0640/0284	01/12/1998
BATROW ALICE ET ALS			0475/0297	

Building Information

Building 1 : Section 1

Year Built: 1955
Living Area: 6528
Replacement Cost: \$367,696
Building Percent Good: 55
Replacement Cost Less Depreciation: \$202,200

Building Photo

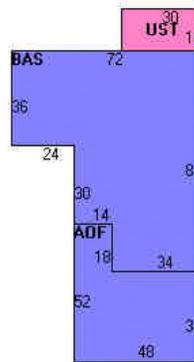
Building Attributes	
Field	Description
STYLE	Lt. Industrial
MODEL	Ind/Comm

Grade	C
Stories:	1
Occupancy	1
Exterior Wall 1	Concr/Cinder
Exterior Wall 2	Vinyl Siding
Roof Structure	Gable/Hip
Roof Cover	Asphalt
Interior Wall 1	Minim/Masonry
Interior Wall 2	
Interior Floor 1	Concr-Finished
Interior Floor 2	Vinyl/Asphalt
Heating Fuel	Gas
Heating Type	Forced Air-Duc
AC Type	Heat Pump
Bldg Use	MFRG MDL96
Total Rooms	
Total Bedrms	00
Total Baths	0
1st Floor Use:	4000
Heat/AC	HEAT/AC SPLIT
Frame Type	MASONRY
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & MIN WL
Rooms/Prtns	AVERAGE
Wall Height	10
% Comn Wall	0



(http://images.vgsi.com/photos/BranfordCTPhotos//\00\01\42\13.jpg)

Building Layout



Building Sub-Areas		Legend	
Code	Description	Gross Area	Living Area
BAS	First Floor	4644	4644
AOF	Office	1884	1884
UST	Utility, Storage, Unfinished	480	0
		7008	6528

Extra Features

Extra Features				Legend
Code	Description	Size	Value	Bldg #
A/C	AIR CONDITION	1884 S.F.	\$2,300	1

Land

Land Use

Use Code 4000
Description MFRG MDL96
Zone R-3
Neighborhood 0050
Alt Land Appr No
Category

Land Line Valuation

Size (Acres) 0.87
Frontage
Depth
Assessed Value \$211,100
Appraised Value \$301,500

Outbuildings

Outbuildings						Legend
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
PAV1	PAVING-ASPHALT			4000 S.F.	\$3,300	1
PAV2	PAVING-CONC			600 S.F.	\$2,000	1
SHD6	SHED COM MAS			240 S.F.	\$5,300	1
SHD6	SHED COM MAS			360 S.F.	\$7,900	1
FN9	W/O TOP RL-8'			200 L.F.	\$2,000	1

Valuation History

Appraisal			
Valuation Year	Improvements	Land	Total
2013	\$254,700	\$301,500	\$556,200
2012	\$237,500	\$101,500	\$339,000
2011	\$237,500	\$101,500	\$339,000

Assessment			
Valuation Year	Improvements	Land	Total
2013	\$178,200	\$211,100	\$389,300
2012	\$166,200	\$71,100	\$237,300
2011	\$166,200	\$71,100	\$237,300

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