

QC Development
PO Box 916
Storrs, CT 06268
860-670-9068
Mark.Roberts@QCDevelopment.net

June 14, 2015

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) 530 Bushy Hill Road, Simsbury, CT 06092 N 41-49-05.26 W 72-51-46.93

Dear Ms. Bachman:

AT&T currently maintains three (3) antennas at the 104-foot level of the existing 120-foot Stealth Flagpole Tower at 530 Bushy Hill Road, Simsbury, CT. The tower and property are owned by E and A / I and G Simsbury Commons LP. AT&T now intends to install three (3) additional Andrew SBNHH-1D65A antennas. These antennas would be installed at the 96-foot level of the tower. AT&T also intends to install six (6) Kaelus TMAs and six (6) Kaelus Triplexers at the same 96-foot level. All equipment would be installed within the existing stealth shroud.

This facility was approved by the Connecticut Siting Council, Docket No. 279 on June 23, 2004. This approval included the condition that the facility be designed as a flagpole not to exceed 120 feet above ground level. AT&T's proposed modification would not alter the flagpole design or overall height of the structure. 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 Lisa V. Heavner, First Selectman for the Town of Simsbury, 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,

Mark Roberts
QC Development
Consultant for AT&T

Attachments

cc: Lisa V. Heavner - as elected official (via e-mail)

E and A / I and G Simsbury Commons LP - as tower & property owner (via e-mail)

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*		(,	and great (1.1)	(,,	(**************************************	,,	1.21%
AT&T LTE	1	500	104	0.0187	700	0.4667	0.40%
AT&T LTE	1	500	104	0.0187	1900	1.0000	0.19%
AT&T GSM	2	500	104	0.0374	880	0.5867	0.64%
AT&T UMTS	1	500	104	0.0187	1900	1.0000	0.19%
AT&T WCS	1	500	104	0.0187	2300	1.0000	0.19%
Site Total							2.82%

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

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)	%МРЕ
Other Carriers*							1.21%
AT&T LTE	1	1791	104	0.0510	2300	1.0000	0.67%
AT&T LTE	1	1104	104	0.0314	734	0.4893	0.84%
AT&T LTE	1	2203	104	0.0627	1900	1.0000	0.82%
AT&T GSM	2	492	104	0.0140	880	0.5867	0.63%
AT&T UMTS	1	817	104	0.0232	1900	1.0000	0.31%
Site Total							4.49%

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

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

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

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

PROJECT INFORMATION

TELECOMMUNICATIONS FACILITY UPGRADE (LTE-1C UPGRADE):

SITE ADDRESS: 530 BUSHY HILL ROAD SIMSBURY, CT 06092

LATITUDE: 41.818108° N 41° 49′ 05.19″ N

LONGITUDE: 72.863039° W 72° 51' 46.94" W

TYPE OF SITE: FLAGPOLE / INDOOR EQUIPMENT

FLAGPOLE HEIGHT: 120'±

RAD CENTER:

JURISDICTION: NATIONAL, STATE & LOCAL CODES OR ORDINANCES

CURRENT USE: TELECOMMUNICATIONS FACILITY

PROPOSED USE: TELECOMMUNICATIONS FACILITY



SITE NUMBER: CT1171

SITE NAME: SIMSBURY-BUSHY HILL ROAD

PROJECT: LTE-1C UPGRADE

	DRAWING INDEX						
SHEET NO.	DESCRIPTION	REV.					
T-1	TITLE SHEET	5					
GN-1	GENERAL NOTES	5					
A-1	COMPOUND & EQUIPMENT PLANS	5					
A-2	ANTENNA LAYOUTS & ELEVATION	5					
A-3	DETAILS	5					
RF-1	RF PLUMBING DIAGRAM	5					
G-1	GROUNDING DETAILS	5					

START OUT GOING NORTHEAST ON ENTERPRISE DR TOWARD CAPITOL BLVD. TURN LEFT ONTO WEST ST. MERGE ONTO I-91 N VIA THE RAMP ON THE LEFT TOWARD HARTFORD. TAKE THE I-84 W EXIT, EXIT 32A-32B, ON THE LEFT TOWARD TRUMBULL ST/WATERBURY TAKE THE I-91 N EXIT TOWARD SPRINGFIELD. TAKE THE TRUMBULL STREET EXIT, EXIT 32B, ON THE LEFT. STAY STRAIGHT TO GO ONTO TRUMBULL ST. TURN RIGHT ONTO US-44/MAIN ST. CONTINUE TO FOLLOW US-44. TURN RIGHT ONTO CT-167/BUSHY HILL RD. DESTINATION IS ON THE RIGHT.

VICINITY MAP



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.

GENERAL NOTES

- 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.
- 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.

72 HOURS



BEFORE YOU DIG

CALL TOLL FREE 1-888-DIG-SAFE

OR CALL 811 WINDE CONNOCIO

UNDERGROUND SERVICE ALERT

OF CONNE





SITE NUMBER: CT1171 SITE NAME: SIMSBURY-BUSHY HILL ROAD

DIRECTIONS TO SITE:

530 BUSHY HILL ROAD SIMSBURY, CT 06092 HARTFORD COUNTY



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4	04/06/16	ISSUED FOR	R CONSTRUCTIO	N		RB	(T	_DPH	V
3	10/23/14	ISSUED FOR	R CONSTRUCTIO	N		SG	Ā	DP H	Λ
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	1171.05	T-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 RTS FOLIPMENT
- 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 GROLIND 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.
- "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.
- 3. 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
LIGHTENING 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	Р	PROPOSED	TYP	TYPICAL
Е	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		三分多
		5	06 /00 /16 ISSUED FOR CONSTRUCTION		ED AT SON





SITE NUMBER: CT1171 SITE NAME: SIMSBURY-BUSHY HILL ROAD

> 530 BUSHY HILL ROAD SIMSBURY, CT 06092 HARTFORD COUNTY



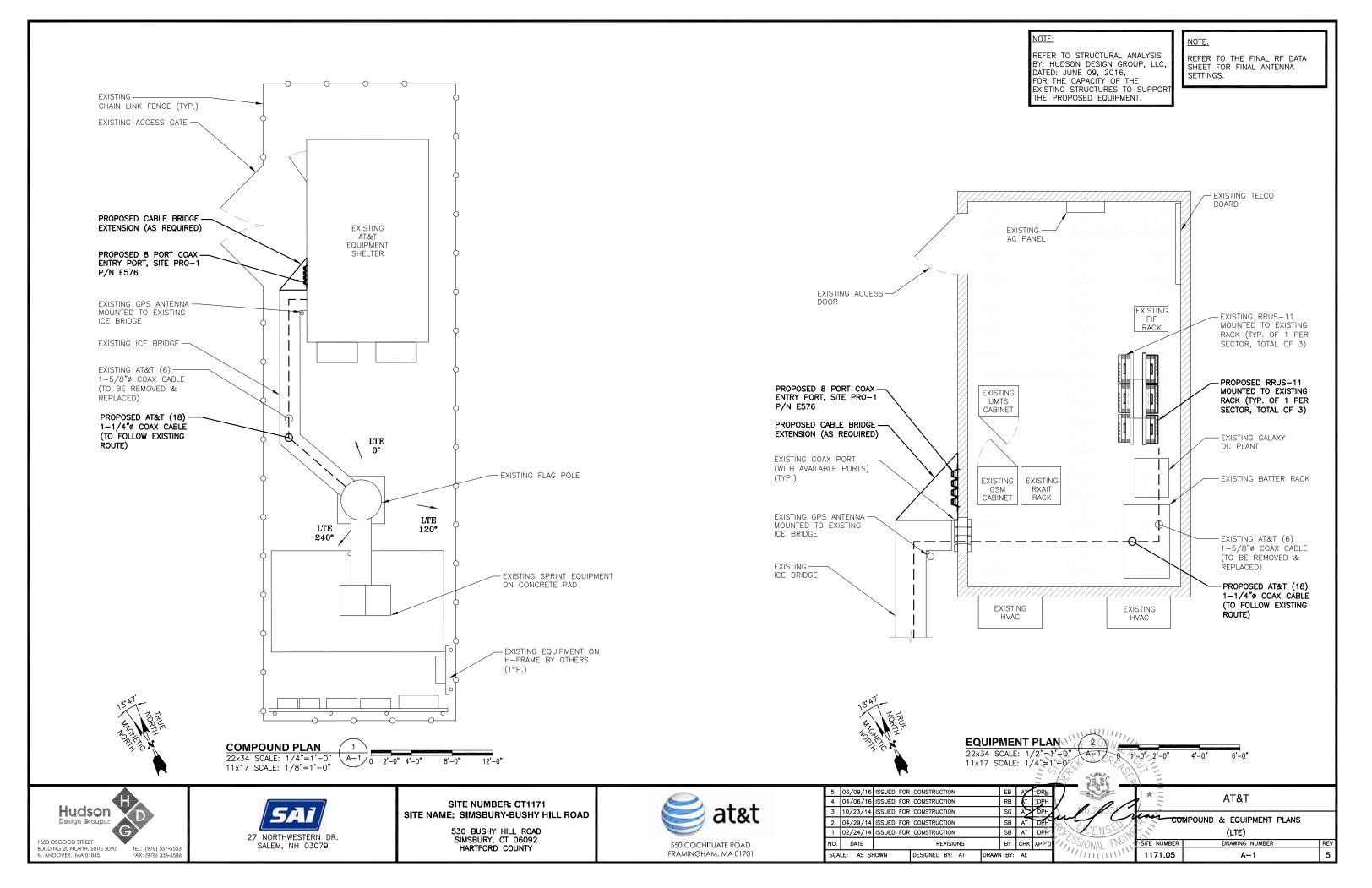
550 COCHITHATE ROAD

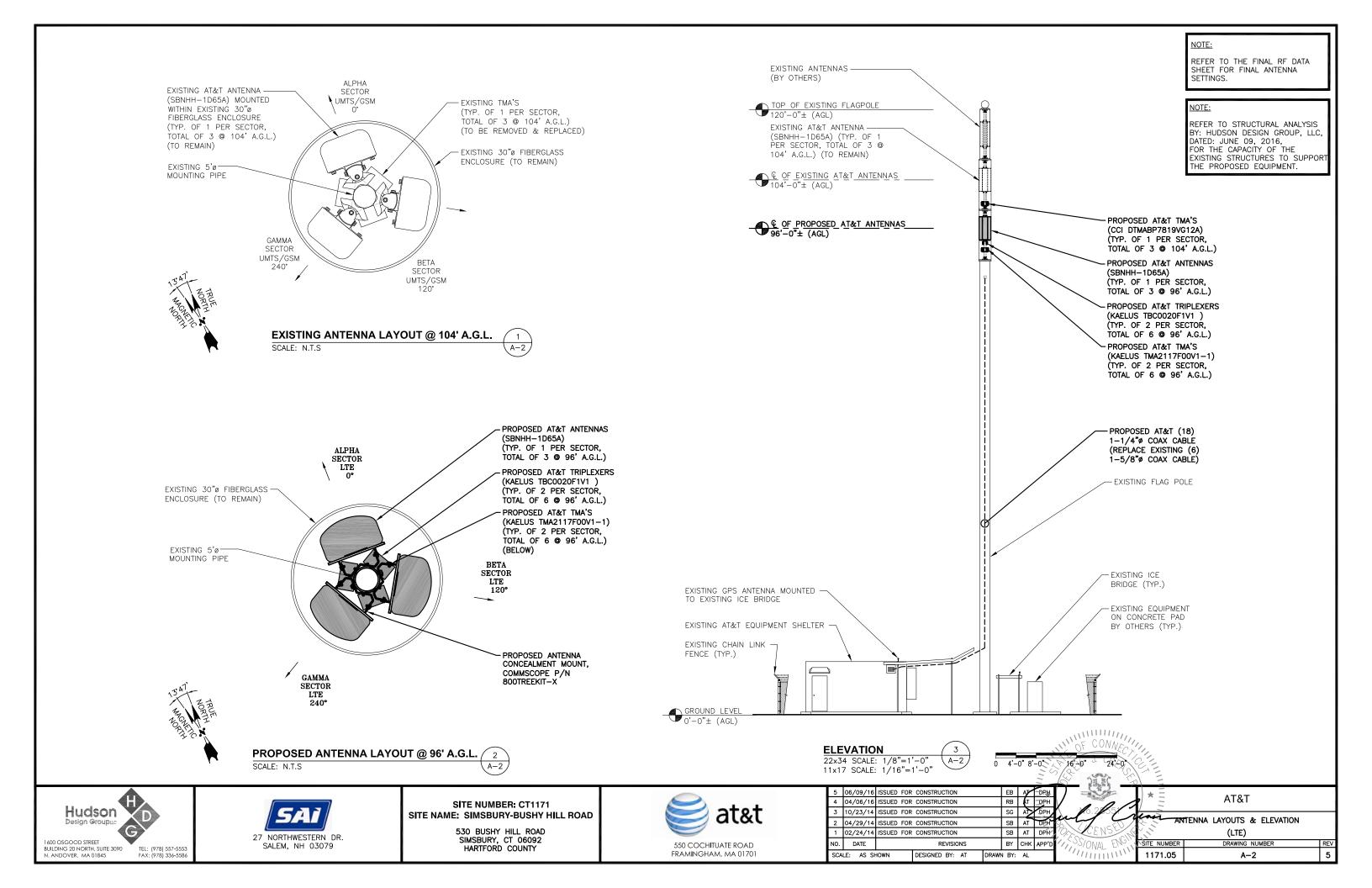
FRAMINGHAM, MA 0170

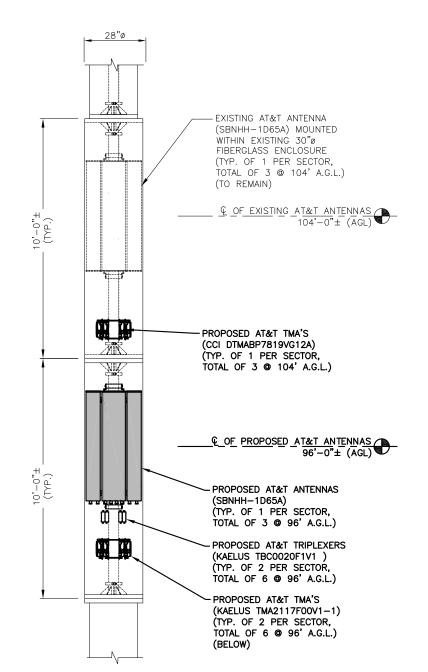
GENERAL NOTES
(LTE)

SITE NUMBER DRAWING NUMBER

1171.05 GN-1







EXISTING ANTENNA SCHEDULE @ 104' A.G.L. **SECTOR** MODEL# SIZE (INCHES) MAKE ALPHA: ANDREW SBNHH-1D65A 55X11.9X7.1 BETA: ANDREW SBNHH-1D65A 55X11.9X7.1 GAMMA: ANDREW SBNHH-1D65A 55X11.9X7.1

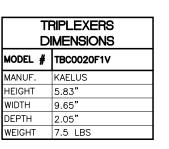
PROPOSED ANTENNA SCHEDULE @ 96' A.G.L. **SECTOR** MODEL# SIZE (INCHES) <u>MAKE</u> ALPHA: ANDREW SBNHH-1D65A 55X11.9X7.1 SBNHH-1D65A 55X11.9X7.1 ANDREW 55X11.9X7.1 BETA: ANDREW SBNHH-1D65A ANDREW SBNHH-1D65A 55X11.9X7.1 SBNHH-1D65A 55X11.9X7.1 GAMMA: ANDREW SBNHH-1D65A **ANDREW** 55X11.9X7.1

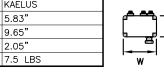
NOTE:

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

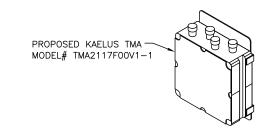
NOTE:

REFER TO STRUCTURAL ANALYSIS BY: HUDSON DESIGN GROUP, LLC DATED: JUNE 09, 2016, FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT.





PROPOSED TRIPLEXERS / 3 SCALE: N.T.S



TMA DETAIL SCALE: N.T.S (A-3 THE OF CONNY,

	RRU (CHAR	Τ					
QUANTITY	MODEL	L	W	D				
(P) 3 &(E) 3	RRUS-11	19.7"	17.0"	7.2"				
-	RRUS-12	20.4"	18.5"	7.5"				
_	RRUS-32	27.2"	12.1"	7.0"				
_	RRUS-E2	20.4"	18.5"	7.5"				
-	LTE-A2	16.4"	15.2"	3.4"				
NOTE: MOUNT PER MANUFACTURER'S SPECIFICATIONS								
	PR	OPOSED	RRU R	EFER T				

NOTE: MOUNT PER MANUFACTURER'S SPECIFICATIONS.







PROPOSED ANTENNA & TMA

MOUNTING DETAIL

22x34 SCALE: 1/2"=1'-0" 11x17 SCALE: 1/4"=1'-0"



(A-3

0 1'-0" 2'-0"

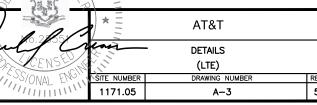
SITE NUMBER: CT1171 SITE NAME: SIMSBURY-BUSHY HILL ROAD

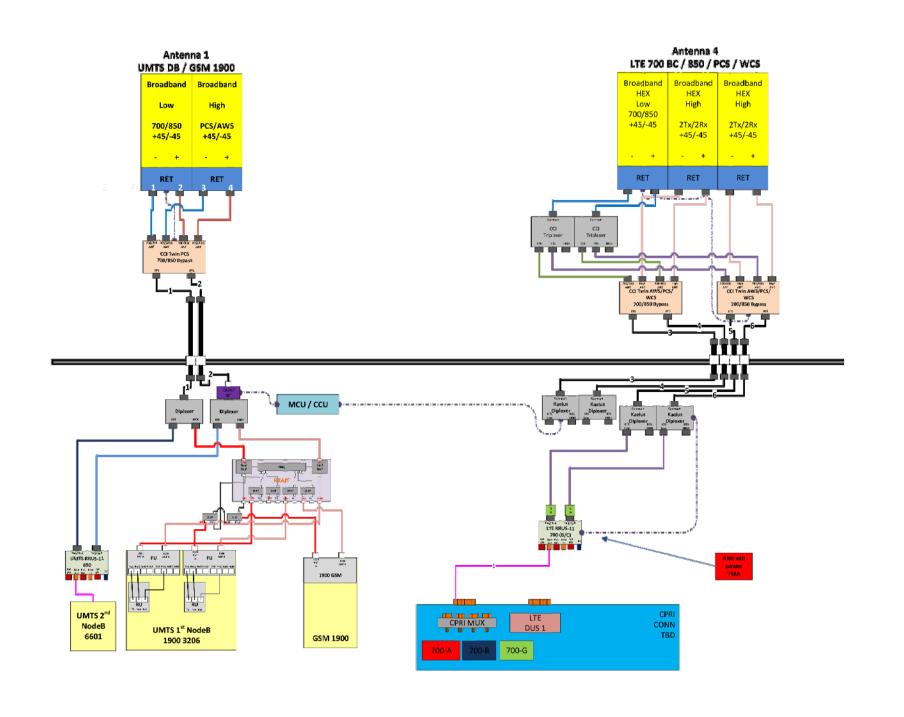
530 BUSHY HILL ROAD SIMSBURY, CT 06092 HARTFORD COUNTY



FRAMINGHAM, MA 0170

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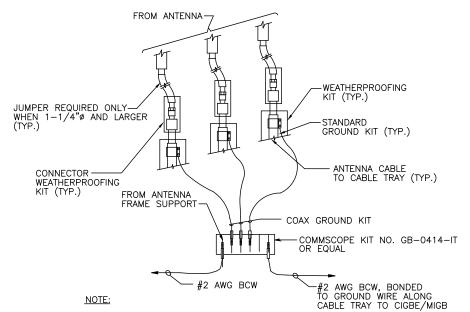
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> 530 BUSHY HILL ROAD SIMSBURY, CT 06092 HARTFORD COUNTY

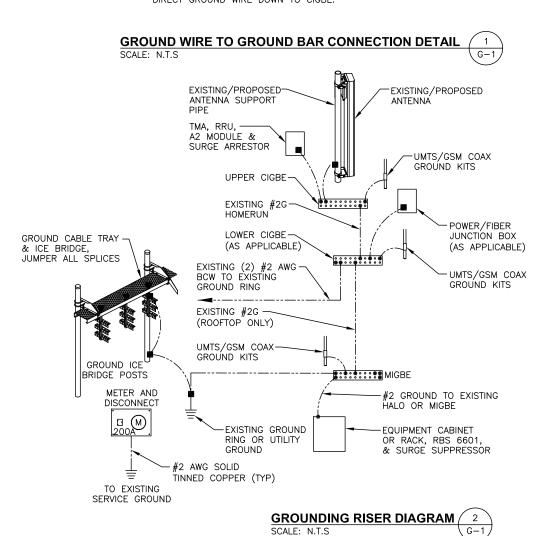


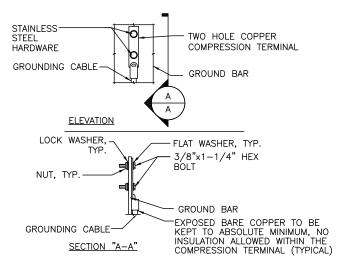
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	WILLIAM CONTRACTOR	1171.05	RF-1	5
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1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO CIGBE.





NOTE:

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



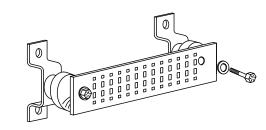
EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.

SECTION "P" - SURGE PRODUCERS

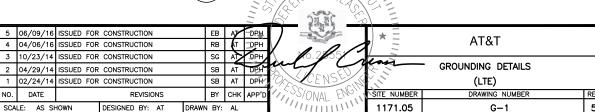
CABLE ENTRY PORTS (HATCH PLATES) (#2)
GENERATOR FRAMEWORK (IF AVAILABLE) (#2)
TELCO GROUND BAR
COMMERCIAL POWER COMMON NEUTRAL/GROUND BOND (#2)
+24V POWER SUPPLY RETURN BAR (#2)
-48V POWER SUPPLY RETURN BAR (#2)
RECTIFIER FRAMES.

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)











SITE NUMBER: CT1171
SITE NAME: SIMSBURY-BUSHY HILL ROAD

530 BUSHY HILL ROAD SIMSBURY, CT 06092 HARTFORD COUNTY



STRUCTURAL ANALYSIS REPORT

For

CT1171

SIMSBURY - BUSHY HILL ROAD

530 Bushy Hill Road Simsbury, CT 06070

Antennas Enclosed within Fiberglass Shroud Secured to the Existing Flag Pole



Prepared for:





Dated: June 9, 2016

Prepared by:



1600 Osgood Street Bldg. 20N Suite 3090 North Andover, MA 01845 (P) 978.557.5553 (F) 978.336.5586

www.hudsondesigngroupllc.com



SCOPE OF WORK:

Hudson Design Group LLC (HDG) has been authorized by AT&T to conduct a structural evaluation of the 120' flagpole supporting the proposed AT&T antennas located at elevation 88'-98' above the ground level.

This report represents this office's findings, conclusions and recommendations pertaining to the support of AT&T's existing and proposed antennas listed below.

Record drawings of the existing flagpole and foundation prepared by Engineered Endeavors Inc., dated August 12, 2004, were available for our use. Geotechnical study prepared by Dr. Clarence Welti, PE, P.C., dated July 18, 2003, was also available and obtained for our use.

CONCLUSION SUMMARY:

Based on our evaluation, we have determined that the existing flagpole and foundation <u>are in conformance</u> with the ANSI/TIA-222-F Standard for the loading considered under the criteria listed in this report. <u>The flagpole structure is rated at 81.8% - (Base Plate at EL.1.5'</u> Controlling).



APPURTENANCES CONFIGURATION:

Tenant	Appurtenances	Elev.	Mount
	20" dia. x 10.0' Fiberglass Shroud	108′ -118′	
AT&T	30" dia. x 10.0' Fiberglass Shroud	98′-108′	
AT&T	30" dia. x 10.0' Fiberglass Shroud	88′-98′	

^{*}Proposed AT&T Appurtenances shown in Bold.

AT&T EXISTING/PROPOSED COAX CABLES:

Tenant	Coax Cables	Elev.	Mount
AT&T	(9) 1 1/4" Cables	103′	Inside Flagpole
AT&T	(9) 1 1/4" Cables	93′	Inside Flagpole

^{*}Proposed AT&T Coax Cables shown in Bold.

ANALYSIS RESULTS SUMMARY:

Component	Max. Stress	Elev. of Component	Pass/Fail	Comments
	Ratio	(π)		
Pole Section-L1	33.2 %	108.0 – 118.0	PASS	
Pole Section-L2	66.0 %	98.0 – 108.0	PASS	
Pole Section-L3	77.4 %	88.0 – 98.0	PASS	
Pole Section-L4	36.0 %	48.7 – 88.0	PASS	
Pole Section-L5	64.2 %	1.5 – 48.7	PASS	
Base Plate	81.8 %	1.5	PASS	Controlling



DESIGN CRITERIA:

1. EIA/TIA-222-F Structural Standards for Steel Antenna Towers and Antenna Supporting Structures

County: Hartford

Wind Load: 80 mph (fastest mile) 100 mph (3 second gust)

Nominal Ice Thickness: 1/2 inch

2. Approximate height above grade to proposed antennas: 88'-98'

*Calculations and referenced documents are attached.

ASSUMPTIONS:

- 1. HDG did not perform any mapping of the flag pole or the spinal pipes within the flag pole shroud.
- 2. The appurtenances configuration is as stated in this report. All antennas, coax cables and waveguide cables are assumed to be properly installed and supported as per the manufacturer's requirements.
- 3. The flagpole and foundation are properly constructed and maintained. All structural members and their connections are assumed to be in good condition and are free from defects with no deterioration to its member capacities.
- 4. The support mounts and platforms are not analyzed and are considered adequate to support the loading. The analysis is limited to the primary support structure itself.
- 5. All prior structural modification, if any, are assumed to be as per the data supplied (if available), and installed properly.



SUPPORT RECOMMENDATIONS:

HDG recommends that the proposed antennas and TMAs be mounted on the inside of fiberglass shroud supported by the flagpole.

Reference HDG's Latest Construction Drawings for all component and connection requirements (attached).

ONGOING AND PERIODIC INSPECTION AND MAINTENANCE:

After the Contractor has successfully completed the installation and the work has been accepted, the Owner will be responsible for the ongoing and periodic inspection and maintenance of the tower.

The owner shall refer to TIA/EIA-222-F for recommendations for maintenance and inspection. The frequency of the inspection and maintenance intervals is to be determined by the owner based upon actual site and environmental conditions. It is recommended that a complete and thorough inspection of the entire tower structural system be performed at least yearly and more frequently as conditions warrant. According to TIA/EIA-222-F section 14.1, Note 1: It is recommended that the structure be inspected after severe wind and/or ice storms or other extreme loading conditions.





Photo 1: Photo illustrating the Flagpole with Appurtenances shown.



CALCULATIONS

DESIGNED APPURTENANCE LOADING

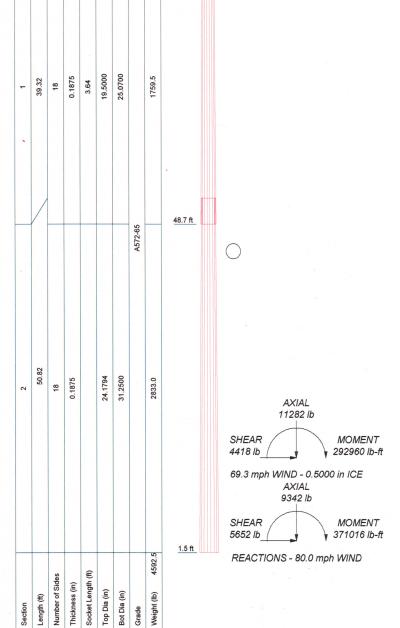
TYPE	ELEVATION	TYPE	ELEVATION
20"x10' Shroud (CT 1171)	113	30"x10' Shroud (CT 1171) (ATI -	93
30"x10' Shroud (CT 1171) (ATI - existing)	103	existing)	

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-65	65 ksi	80 ksi			

TOWER DESIGN NOTES

- 1: Tower is located in Hartford County, Connecticut.
- Tower designed for a 80.0 mph basic wind in accordance with the TIA/EIA-222-F Standard.
- 3. Tower is also designed for a 69.3 mph basic wind with 0.50 in ice.
- 4. Deflections are based upon a 50.0 mph wind.
- 5. TOWER RATING: 81.8%



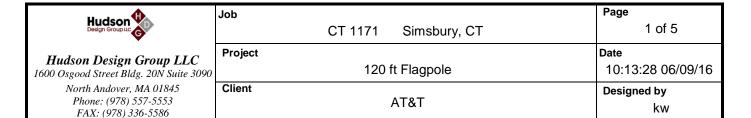
88.0 ft

Hudson Design Group LC

Hudson Design Group LLC
 1600 Osgood Street Bldg. 20N Suite 3090
 North Andover, MA 01845

Phone: (978) 557-5553 FAX: (978) 336-5586

Job: CT 1171 Sims	bury, CT	
Project: 120 ft Flagpole		
Client: AT&T	Drawn by: kw	App'd:
Code: TIA/EIA-222-F	Date: 06/09/16	Scale: NTS
Path:		Dwg No. F-1



Tower Input Data

There is a pole section.

This tower is designed using the TIA/EIA-222-F standard.

The following design criteria apply:

Tower is located in Hartford County, Connecticut.

Basic wind speed of 80.0 mph.

Nominal ice thickness of 0.5000 in.

Ice density of 56.0 pcf.

A wind speed of 69.3 mph is used in combination with ice.

Temperature drop of 50.0 °F.

Deflections calculated using a wind speed of 50.0 mph.

A non-linear (P-delta) analysis was used.

Pressures are calculated at each section.

Stress ratio used in pole design is 1.333.

Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

	Tapered Pole Section Geometry								
Section	Elevation	Section Length	Splice Length	Number of	Top Diameter	Bottom Diameter	Wall Thickness	Bend Radius	Pole Grade
L1	88.00-48.68	39.32	3.64	Sides 18	19.5000	25.0700	0.1875	0.7500	A572-65
L2	48.68-1.50	50.82		18	24.1794	31.2500	0.1875	0.7500	(65 ksi) A572-65 (65 ksi)

Monopole Base Plate Data

Base Plate Da	ata
Base plate is square	
Base plate is grouted	
Anchor bolt grade	A615-75
Anchor bolt size	2.2500 in
Number of bolts	4
Embedment length	72.0000 in
f'c	4.0 ksi
Grout space	3.2500 in
Base plate grade	A572-60
Base plate thickness	1.5000 in
Bolt circle diameter	39.0000 in
Outer diameter	45.0000 in
Inner diameter	21.2500 in
Base plate type	Plain Plate



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Client		Designed by
	AT&T	kw

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or	Allow Shield	Component Type	Placement	Total Number		C_AA_A	Weight
	Leg	Smeta	1 уре	ft	rumber		ft²/ft	plf
1 5/8	A	No	Inside Pole	88.00 - 8.00	6	No Ice	0.00	1.04
						1/2" Ice	0.00	1.04
1 1/4	A	No	Inside Pole	88.00 - 8.00	9	No Ice	0.00	0.66
(AT&T - proposed)						1/2" Ice	0.00	0.66
1 1/4	A	No	Inside Pole	88.00 - 8.00	9	No Ice	0.00	0.66
(AT&T - proposed)						1/2" Ice	0.00	0.66

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral	Azimuth Adjustment	Placement		C _A A _A Front	C_AA_A Side	Weight
	-		Vert ft ft ft	٥	ft		ft ²	ft^2	lb
20"x10' Shroud (CT 1171)	A	None		0.0000	113.00	No Ice	13.33	13.33	900.00
						1/2" Ice	14.12	14.12	1036.45
30"x10' Shroud (CT 1171)	A	None		0.0000	103.00	No Ice	20.00	20.00	1200.00
(AT&T - existing)						1/2" Ice	20.84	20.84	1410.77
30"x10' Shroud (CT 1171)	A	None		0.0000	93.00	No Ice	20.00	20.00	1200.00
(AT&T - existing)						1/2" Ice	20.84	20.84	1410.77

Load Combinations

Comb.	Description
No.	·
1	Dead Only
2	Dead+Wind 0 deg - No Ice
3	Dead+Wind 30 deg - No Ice
4	Dead+Wind 60 deg - No Ice
5	Dead+Wind 90 deg - No Ice
6	Dead+Wind 120 deg - No Ice
7	Dead+Wind 150 deg - No Ice
8	Dead+Wind 180 deg - No Ice
9	Dead+Wind 210 deg - No Ice
10	Dead+Wind 240 deg - No Ice
11	Dead+Wind 270 deg - No Ice
12	Dead+Wind 300 deg - No Ice
13	Dead+Wind 330 deg - No Ice
14	Dead+Ice+Temp
15	Dead+Wind 0 deg+Ice+Temp
16	Dead+Wind 30 deg+Ice+Temp
17	Dead+Wind 60 deg+Ice+Temp
18	Dead+Wind 90 deg+Ice+Temp
19	Dead+Wind 120 deg+Ice+Temp
20	Dead+Wind 150 deg+Ice+Temp
21	Dead+Wind 180 deg+Ice+Temp
22	Dead+Wind 210 deg+Ice+Temp
23	Dead+Wind 240 deg+Ice+Temp



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Client		Designed by
	AT&T	kw

Description

Maximum Reactions

Location	Condition	Gov.	Vertical	Horizontal, X	Horizontal, Z
		Load	lb	lb	lb
		Comb.			
Pole	Max. Vert	18	11281.95	-4417.87	0.00
	Max. H _x	11	9342.10	5652.31	0.00
	Max. H _z	2	9342.10	0.00	5652.31
	Max. M_x	2	371015.08	0.00	5652.31
	Max. M _z	5	371015.08	-5652.31	0.00
	Max. Torsion	4	0.00	-4895.04	2826.15
	Min. Vert	1	9342.10	0.00	0.00
	Min. H _x	5	9342.10	-5652.31	0.00
	Min. Hz	8	9342.10	0.00	-5652.31
	Min. M _x	8	-371015.08	0.00	-5652.31
	Min. M _z	11	-371015.08	5652.31	0.00
	Min. Torsion	6	-0.00	-4895.04	-2826.15

Tower Mast Reaction Summary

Load	Vertical	$Shear_x$	$Shear_z$	Overturning	Overturning	Torque
Combination				Moment, M_x	Moment, M_z	
	lb	lb	lb	lb-ft	lb-ft	lb-ft
Dead Only	9342.10	0.00	0.00	0.00	0.00	0.00
Dead+Wind 0 deg - No Ice	9342.10	0.00	-5652.31	-371015.08	0.00	0.00
Dead+Wind 30 deg - No Ice	9342.10	2826.15	-4895.04	-321309.60	-185508.18	0.00
Dead+Wind 60 deg - No Ice	9342.10	4895.04	-2826.15	-185508.18	-321309.60	-0.00
Dead+Wind 90 deg - No Ice	9342.10	5652.31	0.00	0.00	-371015.08	0.00
Dead+Wind 120 deg - No Ice	9342.10	4895.04	2826.15	185508.18	-321309.60	0.00
Dead+Wind 150 deg - No Ice	9342.10	2826.15	4895.04	321309.60	-185508.18	-0.00
Dead+Wind 180 deg - No Ice	9342.10	0.00	5652.31	371015.08	0.00	0.00
Dead+Wind 210 deg - No Ice	9342.10	-2826.15	4895.04	321309.60	185508.18	0.00
Dead+Wind 240 deg - No Ice	9342.10	-4895.04	2826.15	185508.18	321309.60	-0.00
Dead+Wind 270 deg - No Ice	9342.10	-5652.31	0.00	0.00	371015.08	0.00
Dead+Wind 300 deg - No Ice	9342.10	-4895.04	-2826.15	-185508.18	321309.60	0.00
Dead+Wind 330 deg - No Ice	9342.10	-2826.15	-4895.04	-321309.60	185508.18	-0.00
Dead+Ice+Temp	11281.95	0.00	0.00	0.00	0.00	0.00



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	AT&T	kw

Load	Vertical	$Shear_x$	$Shear_z$	Overturning	Overturning	Torque
Combination				Moment, M_x	Moment, M_z	
	lb	lb	lb	lb-ft	lb-ft	lb-ft
Dead+Wind 0 deg+Ice+Temp	11281.95	0.00	-4417.87	-292959.56	0.00	0.00
Dead+Wind 30 deg+Ice+Temp	11281.95	2208.94	-3825.99	-253710.42	-146479.78	0.00
Dead+Wind 60 deg+Ice+Temp	11281.95	3825.99	-2208.94	-146479.78	-253710.42	-0.00
Dead+Wind 90 deg+Ice+Temp	11281.95	4417.87	0.00	0.00	-292959.56	0.00
Dead+Wind 120 deg+Ice+Temp	11281.95	3825.99	2208.94	146479.78	-253710.42	0.00
Dead+Wind 150 deg+Ice+Temp	11281.95	2208.94	3825.99	253710.42	-146479.78	-0.00
Dead+Wind 180 deg+Ice+Temp	11281.95	0.00	4417.87	292959.56	0.00	0.00
Dead+Wind 210 deg+Ice+Temp	11281.95	-2208.94	3825.99	253710.42	146479.78	0.00
Dead+Wind 240 deg+Ice+Temp	11281.95	-3825.99	2208.94	146479.78	253710.42	-0.00
Dead+Wind 270 deg+Ice+Temp	11281.95	-4417.87	0.00	0.00	292959.56	0.00
Dead+Wind 300 deg+Ice+Temp	11281.95	-3825.99	-2208.94	-146479.78	253710.42	0.00
Dead+Wind 330 deg+Ice+Temp	11281.95	-2208.94	-3825.99	-253710.42	146479.78	-0.00
Dead+Wind 0 deg - Service	9342.10	0.00	-2207.93	-144982.66	0.00	0.00
Dead+Wind 30 deg - Service	9342.10	1103.97	-1912.13	-125558.67	-72491.33	0.00
Dead+Wind 60 deg - Service	9342.10	1912.13	-1103.97	-72491.33	-125558.67	-0.00
Dead+Wind 90 deg - Service	9342.10	2207.93	0.00	0.00	-144982.66	0.00
Dead+Wind 120 deg - Service	9342.10	1912.13	1103.97	72491.33	-125558.67	0.00
Dead+Wind 150 deg - Service	9342.10	1103.97	1912.13	125558.67	-72491.33	-0.00
Dead+Wind 180 deg - Service	9342.10	0.00	2207.93	144982.66	0.00	0.00
Dead+Wind 210 deg - Service	9342.10	-1103.97	1912.13	125558.67	72491.33	0.00
Dead+Wind 240 deg - Service	9342.10	-1912.13	1103.97	72491.33	125558.67	-0.00
Dead+Wind 270 deg - Service	9342.10	-2207.93	0.00	0.00	144982.66	0.00
Dead+Wind 300 deg - Service	9342.10	-1912.13	-1103.97	-72491.33	125558.67	0.00
Dead+Wind 330 deg - Service	9342.10	-1103.97	-1912.13	-125558.67	72491.33	-0.00

Solution Summary

	Su	m of Applied Forces	S		Sum of Reaction	es .	
Load	PX	PY	PZ	PX	PY	PZ	% Error
Comb.	lb	lb	lb	lb	lb	lb	
1	0.00	-9342.10	0.00	0.00	9342.10	0.00	0.000%
2	0.00	-9342.10	-5652.31	0.00	9342.10	5652.31	0.000%
3	2826.15	-9342.10	-4895.04	-2826.15	9342.10	4895.04	0.000%
4	4895.04	-9342.10	-2826.15	-4895.04	9342.10	2826.15	0.000%
5	5652.31	-9342.10	0.00	-5652.31	9342.10	0.00	0.000%
6	4895.04	-9342.10	2826.15	-4895.04	9342.10	-2826.15	0.000%
7	2826.15	-9342.10	4895.04	-2826.15	9342.10	-4895.04	0.000%
8	0.00	-9342.10	5652.31	0.00	9342.10	-5652.31	0.000%
9	-2826.15	-9342.10	4895.04	2826.15	9342.10	-4895.04	0.000%
10	-4895.04	-9342.10	2826.15	4895.04	9342.10	-2826.15	0.000%
11	-5652.31	-9342.10	0.00	5652.31	9342.10	0.00	0.000%
12	-4895.04	-9342.10	-2826.15	4895.04	9342.10	2826.15	0.000%
13	-2826.15	-9342.10	-4895.04	2826.15	9342.10	4895.04	0.000%
14	0.00	-11281.95	0.00	0.00	11281.95	0.00	0.000%
15	0.00	-11281.95	-4417.87	0.00	11281.95	4417.87	0.000%
16	2208.94	-11281.95	-3825.99	-2208.94	11281.95	3825.99	0.000%
17	3825.99	-11281.95	-2208.94	-3825.99	11281.95	2208.94	0.000%
18	4417.87	-11281.95	0.00	-4417.87	11281.95	0.00	0.000%
19	3825.99	-11281.95	2208.94	-3825.99	11281.95	-2208.94	0.000%
20	2208.94	-11281.95	3825.99	-2208.94	11281.95	-3825.99	0.000%
21	0.00	-11281.95	4417.87	0.00	11281.95	-4417.87	0.000%
22	-2208.94	-11281.95	3825.99	2208.94	11281.95	-3825.99	0.000%
23	-3825.99	-11281.95	2208.94	3825.99	11281.95	-2208.94	0.000%
24	-4417.87	-11281.95	0.00	4417.87	11281.95	0.00	0.000%
25	-3825.99	-11281.95	-2208.94	3825.99	11281.95	2208.94	0.000%
26	-2208.94	-11281.95	-3825.99	2208.94	11281.95	3825.99	0.000%
27	0.00	-9342.10	-2207.93	0.00	9342.10	2207.93	0.000%



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	AT&T	kw

	Sui	n of Applied Force.	s		Sum of Reaction	ıs	
Load	PX	PY	PZ	PX	PY	PZ	% Error
Comb.	lb	lb	lb	lb	lb	lb	
28	1103.97	-9342.10	-1912.13	-1103.97	9342.10	1912.13	0.000%
29	1912.13	-9342.10	-1103.97	-1912.13	9342.10	1103.97	0.000%
30	2207.93	-9342.10	0.00	-2207.93	9342.10	0.00	0.000%
31	1912.13	-9342.10	1103.97	-1912.13	9342.10	-1103.97	0.000%
32	1103.97	-9342.10	1912.13	-1103.97	9342.10	-1912.13	0.000%
33	0.00	-9342.10	2207.93	0.00	9342.10	-2207.93	0.000%
34	-1103.97	-9342.10	1912.13	1103.97	9342.10	-1912.13	0.000%
35	-1912.13	-9342.10	1103.97	1912.13	9342.10	-1103.97	0.000%
36	-2207.93	-9342.10	0.00	2207.93	9342.10	0.00	0.000%
37	-1912.13	-9342.10	-1103.97	1912.13	9342.10	1103.97	0.000%
38	-1103.97	-9342.10	-1912.13	1103.97	9342.10	1912.13	0.000%

Maximum Tower Deflections - Service Wind

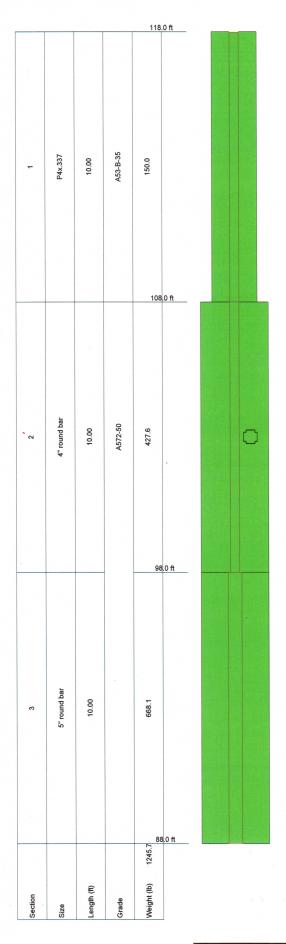
Section	Elevation	Horz.	Gov.	Tilt	Twist
No.		Deflection	Load		
	ft	in	Comb.	0	0
L1	88 - 48.68	12.4110	27	1.1918	0.0000
L2	52.32 - 1.5	4.7029	27	0.8253	0.0000

Critical Deflections and Radius of Curvature - Service Wind

Elevation	Appurtenance	Gov.	Deflection	Tilt	Twist	Radius of
		Load				Curvature
ft		Comb.	in	0	0	ft
113.00	20"x10' Shroud (CT 1171)	27	12.4110	1.1918	0.0000	20005
103.00	30"x10' Shroud (CT 1171)	27	12.4110	1.1918	0.0000	20005
93.00	30"x10' Shroud (CT 1171)	27	12.4110	1.1918	0.0000	20005

Section Capacity Table

Section	Elevation	Component	Size	Critical	P	$SF*P_{allow}$	%	Pass
No.	ft	Туре		Element	lb	lb	Capacity	Fail
L1	88 - 48.68	Pole	TP25.07x19.5x0.1875	1	-5390.19	753880.78	36.0	Pass
L2	48.68 - 1.5	Pole	TP31.25x24.1794x0.1875	2	-9336.34	918015.73	64.2	Pass
							Summary	
						Pole (L2)	64.2	Pass
						Base Plate	81.8	Pass
						RATING =	81.8	Pass



DESIGNED APPURTENANCE LOADING

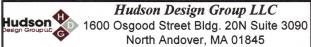
TYPE	ELEVATION	TYPE	ELEVATION
20"x10' Shroud (CT 1171)	113	30"x10' Shroud (CT 1171) (ATI -	93
30"x10' Shroud (CT 1171) (ATI -	103	existing)	
existing)			

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A53-B-35	35 ksi	63 ksi	A572-50	50 ksi	65 ksi

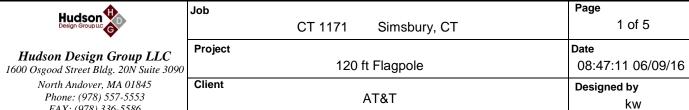
TOWER DESIGN NOTES

- 1. Tower is located in Hartford County, Connecticut.
- Tower designed for a 80.0 mph basic wind in accordance with the TIA/EIA-222-F Standard
- 3. Tower is also designed for a 69.3 mph basic wind with 0.50 in ice.
- 4. Deflections are based upon a 50.0 mph wind.



Phone: (978) 557-5553 FAX: (978) 336-5586

Job: CT 1171 S	ob: CT 1171 Simsbury, CT						
Project: 120 ft Flagpe	le						
Client: AT&T	Drawn by: kw	App'd:					
Code: TIA/EIA-222-I	Date: 06/09/16	Scale: NTS					
Path:	SIGN GROUPAAANCT1171 Rev - FP (AT&T SAIVCT 1171 Rev - TooNCT 1171 Rev - Too	Dwg No. E-1					



Osgood Street Bldg. 20N Suite 309
North Andover, MA 01845
Phone: (978) 557-5553
FAX: (978) 336-5586

Tower Input Data

There is a pole section.

This tower is designed using the TIA/EIA-222-F standard.

The following design criteria apply:

Tower is located in Hartford County, Connecticut.

Basic wind speed of 80.0 mph.

Nominal ice thickness of 0.5000 in.

Ice density of 56.0 pcf.

A wind speed of 69.3 mph is used in combination with ice.

Temperature drop of 50.0 °F.

Deflections calculated using a wind speed of 50.0 mph.

A non-linear (P-delta) analysis was used.

Pressures are calculated at each section.

Stress ratio used in pole design is 1.333.

Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Pole Section Geometry							
Section	Elevation	Section	Pole	Pole	Socket Length		
		Length	Size	Grade	ft		
	ft	ft					
L1	118.00-108.00	10.00	P4x.337	A53-B-35			
				(35 ksi)			
L2	108.00-98.00	10.00	4" round bar	A572-50			
				(50 ksi)			
L3	98.00-88.00	10.00	5" round bar	A572-50			
				(50 ksi)			

Description	Face or	Allow Shield	Component Type	Placement	Total Number		C_AA_A	Weight
	Leg	Silverta	1)// 0	ft	110000		ft²/ft	plf
1 5/8	A	No	Inside Pole	113.00 - 88.00	6	No Ice	0.00	1.04
						1/2" Ice	0.00	1.04
1 1/4	A	No	Inside Pole	103.00 - 88.00	9	No Ice	0.00	0.66
AT&T - proposed)						1/2" Ice	0.00	0.66
1 1/4	A	No	Inside Pole	93.00 - 88.00	9	No Ice	0.00	0.66
AT&T - proposed)						1/2" Ice	0.00	0.66

Discrete Tower Loads



North Andover, MA 01845 Phone: (978) 557-5553 FAX: (978) 336-5586

Job		Page
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Project		Date
	120 ft Flagpole	08:47:11 06/09/16
Client		Designed by
	AT&T	kw

Description	Face or Leg	Offset Type	Offsets: Horz Lateral	Azimuth Adjustment	Placement		C _A A _A Front	C_AA_A Side	Weight
			Vert ft ft ft	0	ft		ft ²	ft ²	lb
20"x10' Shroud (CT 1171)	A	None		0.0000	113.00	No Ice 1/2" Ice	13.33 14.12	13.33 14.12	900.00 1036.45
30"x10' Shroud (CT 1171) (AT&T - existing)	A	None		0.0000	103.00	No Ice 1/2" Ice	20.00 20.84	20.00 20.84	1200.00 1410.77
30"x10' Shroud (CT 1171) (AT&T - existing)	A	None		0.0000	93.00	No Ice 1/2" Ice	20.00 20.84	20.00 20.84	1200.00 1410.77

Load Combinations

Comb.	Description
No.	
1	Dead Only
2	Dead+Wind 0 deg - No Ice
3	Dead+Wind 30 deg - No Ice
4	Dead+Wind 60 deg - No Ice
5	Dead+Wind 90 deg - No Ice
6	Dead+Wind 120 deg - No Ice
7	Dead+Wind 150 deg - No Ice
8	Dead+Wind 180 deg - No Ice
9	Dead+Wind 210 deg - No Ice
10	Dead+Wind 240 deg - No Ice
11	Dead+Wind 270 deg - No Ice
12	Dead+Wind 300 deg - No Ice
13	Dead+Wind 330 deg - No Ice
14	Dead+Ice+Temp
15	Dead+Wind 0 deg+Ice+Temp
16	Dead+Wind 30 deg+Ice+Temp
17	Dead+Wind 60 deg+Ice+Temp
18	Dead+Wind 90 deg+Ice+Temp
19	Dead+Wind 120 deg+Ice+Temp
20	Dead+Wind 150 deg+Ice+Temp
21	Dead+Wind 180 deg+Ice+Temp
22	Dead+Wind 210 deg+Ice+Temp
23	Dead+Wind 240 deg+Ice+Temp
24	Dead+Wind 270 deg+Ice+Temp
25	Dead+Wind 300 deg+Ice+Temp
26	Dead+Wind 330 deg+Ice+Temp
27	Dead+Wind 0 deg - Service
28	Dead+Wind 30 deg - Service
29	Dead+Wind 60 deg - Service
30	Dead+Wind 90 deg - Service
31	Dead+Wind 120 deg - Service
32	Dead+Wind 150 deg - Service
33	Dead+Wind 180 deg - Service
34	Dead+Wind 210 deg - Service
35	Dead+Wind 240 deg - Service
36	Dead+Wind 270 deg - Service
37	Dead+Wind 300 deg - Service
38	Dead+Wind 330 deg - Service



Osgood Street Bldg. 20N Suite 3090 North Andover, MA 01845 Phone: (978) 557-5553 FAX: (978) 336-5586

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	120 ft Flagpole	08:47:11 06/09/16
Client		Designed by
	AT&T	kw

Maximum Reactions

Location	Condition	Gov.	Vertical	Horizontal, X	Horizontal, Z
		Load	lb	lb	lb
		Comb.			
Pole	Max. Vert	15	5470.15	0.00	1864.12
	Max. H _x	11	4820.52	2286.61	0.00
	Max. H _z	2	4820.52	0.00	2286.61
	Max. M _x	2	34554.61	0.00	2286.61
	Max. Mz	5	34554.61	-2286.61	0.00
	Max. Torsion	4	0.00	-1980.26	1143.31
	Min. Vert	1	4820.52	0.00	0.00
	Min. H _x	5	4820.52	-2286.61	0.00
	Min. H _z	8	4820.52	0.00	-2286.61
	Min. M _x	8	-34554.61	0.00	-2286.61
	Min. Mz	11	-34554.61	2286.61	0.00
	Min. Torsion	6	-0.00	-1980.26	-1143.31

Tower Mast Reaction Summary

Load Combination	Vertical	Shear _x	$Shear_z$	Overturning Moment, M_x	Overturning Moment, M_z	Torque
	lb	lb	lb	lb-ft	lb-ft	lb-ft
Dead Only	4820.52	0.00	0.00	0.00	0.00	0.00
Dead+Wind 0 deg - No Ice	4820.52	0.00	-2286.61	-34554.61	0.00	0.00
Dead+Wind 30 deg - No Ice	4820.52	1143.31	-1980.26	-29925.18	-17277.31	0.00
Dead+Wind 60 deg - No Ice	4820.52	1980.26	-1143.31	-17277.31	-29925.18	-0.00
Dead+Wind 90 deg - No Ice	4820.52	2286.61	0.00	0.00	-34554.61	0.00
Dead+Wind 120 deg - No Ice	4820.52	1980.26	1143.31	17277.31	-29925.18	0.00
Dead+Wind 150 deg - No Ice	4820.52	1143.31	1980.26	29925.18	-17277.31	-0.00
Dead+Wind 180 deg - No Ice	4820.52	0.00	2286.61	34554.61	0.00	0.00
Dead+Wind 210 deg - No Ice	4820.52	-1143.31	1980.26	29925.18	17277.31	0.00
Dead+Wind 240 deg - No Ice	4820.52	-1980.26	1143.31	17277.31	29925.18	-0.00
Dead+Wind 270 deg - No Ice	4820.52	-2286.61	0.00	0.00	34554.61	0.00
Dead+Wind 300 deg - No Ice	4820.52	-1980.26	-1143.31	-17277.31	29925.18	0.00
Dead+Wind 330 deg - No Ice	4820.52	-1143.31	-1980.26	-29925.18	17277.31	-0.00
Dead+Ice+Temp	5470.15	0.00	0.00	0.00	0.00	0.00
Dead+Wind 0 deg+Ice+Temp	5470.15	0.00	-1864.12	-28543.49	0.00	0.00
Dead+Wind 30 deg+Ice+Temp	5470.15	932.06	-1614.37	-24719.39	-14271.75	0.00
Dead+Wind 60 deg+Ice+Temp	5470.15	1614.37	-932.06	-14271.75	-24719.39	-0.00
Dead+Wind 90 deg+Ice+Temp	5470.15	1864.12	0.00	0.00	-28543.49	0.00
Dead+Wind 120 deg+Ice+Temp	5470.15	1614.37	932.06	14271.75	-24719.39	0.00
Dead+Wind 150 deg+Ice+Temp	5470.15	932.06	1614.37	24719.39	-14271.75	-0.00
Dead+Wind 180 deg+Ice+Temp	5470.15	0.00	1864.12	28543.49	0.00	0.00
Dead+Wind 210 deg+Ice+Temp	5470.15	-932.06	1614.37	24719.39	14271.75	0.00
Dead+Wind 240 deg+Ice+Temp	5470.15	-1614.37	932.06	14271.75	24719.39	-0.00
Dead+Wind 270 deg+Ice+Temp	5470.15	-1864.12	0.00	0.00	28543.49	0.00
Dead+Wind 300 deg+Ice+Temp	5470.15	-1614.37	-932.06	-14271.75	24719.39	0.00
Dead+Wind 330 deg+Ice+Temp	5470.15	-932.06	-1614.37	-24719.39	14271.75	-0.00
Dead+Wind 0 deg - Service	4820.52	0.00	-897.37	-13530.90	0.00	0.00
Dead+Wind 30 deg - Service	4820.52	448.69	-777.15	-11718.10	-6765.45	0.00
Dead+Wind 60 deg - Service	4820.52	777.15	-448.69	-6765.45	-11718.10	-0.00
Dead+Wind 90 deg - Service	4820.52	897.37	0.00	0.00	-13530.90	0.00
Dead+Wind 120 deg - Service	4820.52	777.15	448.69	6765.45	-11718.10	0.00
Dead+Wind 150 deg - Service	4820.52	448.69	777.15	11718.10	-6765.45	-0.00
Dead+Wind 180 deg - Service	4820.52	0.00	897.37	13530.90	0.00	0.00
Dead+Wind 210 deg - Service	4820.52	-448.69	777.15	11718.10	6765.45	0.00
Dead+Wind 240 deg - Service	4820.52	-777.15	448.69	6765.45	11718.10	-0.00



Osgood Street Bldg. 20N Suite 309 North Andover, MA 01845 Phone: (978) 557-5553 FAX: (978) 336-5586

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	120 ft Flagpole	08:47:11 06/09/16
Client		Designed by
	AT&T	kw

Load Combination	Vertical	$Shear_x$	Shearz	Overturning Moment, M _x	Overturning Moment, Mz	Torque
	lb	lb	lb	lb-ft	lb-ft	lb-ft
Dead+Wind 270 deg - Service	4820.52	-897.37	0.00	0.00	13530.90	0.00
Dead+Wind 300 deg - Service	4820.52	-777.15	-448.69	-6765.45	11718.10	0.00
Dead+Wind 330 deg - Service	4820.52	-448.69	-777.15	-11718.10	6765.45	-0.00

Solution Summary

		n of Applied Force			Sum of Reaction		
Load	PX	PY	PZ	PX	PY	PZ	% Error
Comb.	lb	lb	lb	lb	lb	lb	
1	0.00	-4820.52	0.00	0.00	4820.52	0.00	0.000%
2	0.00	-4820.52	-2286.61	0.00	4820.52	2286.61	0.000%
3	1143.31	-4820.52	-1980.26	-1143.31	4820.52	1980.26	0.000%
4	1980.26	-4820.52	-1143.31	-1980.26	4820.52	1143.31	0.000%
5	2286.61	-4820.52	0.00	-2286.61	4820.52	0.00	0.000%
6	1980.26	-4820.52	1143.31	-1980.26	4820.52	-1143.31	0.000%
7	1143.31	-4820.52	1980.26	-1143.31	4820.52	-1980.26	0.000%
8	0.00	-4820.52	2286.61	0.00	4820.52	-2286.61	0.000%
9	-1143.31	-4820.52	1980.26	1143.31	4820.52	-1980.26	0.000%
10	-1980.26	-4820.52	1143.31	1980.26	4820.52	-1143.31	0.000%
11	-2286.61	-4820.52	0.00	2286.61	4820.52	0.00	0.000%
12	-1980.26	-4820.52	-1143.31	1980.26	4820.52	1143.31	0.000%
13	-1143.31	-4820.52	-1980.26	1143.31	4820.52	1980.26	0.000%
14	0.00	-5470.15	0.00	0.00	5470.15	0.00	0.000%
15	0.00	-5470.15	-1864.12	0.00	5470.15	1864.12	0.000%
16	932.06	-5470.15	-1614.37	-932.06	5470.15	1614.37	0.000%
17	1614.37	-5470.15	-932.06	-1614.37	5470.15	932.06	0.000%
18	1864.12	-5470.15	0.00	-1864.12	5470.15	0.00	0.000%
19	1614.37	-5470.15	932.06	-1614.37	5470.15	-932.06	0.000%
20	932.06	-5470.15	1614.37	-932.06	5470.15	-1614.37	0.000%
21	0.00	-5470.15	1864.12	0.00	5470.15	-1864.12	0.000%
22	-932.06	-5470.15	1614.37	932.06	5470.15	-1614.37	0.000%
23	-1614.37	-5470.15	932.06	1614.37	5470.15	-932.06	0.000%
24	-1864.12	-5470.15	0.00	1864.12	5470.15	0.00	0.000%
25	-1614.37	-5470.15	-932.06	1614.37	5470.15	932.06	0.000%
26	-932.06	-5470.15	-1614.37	932.06	5470.15	1614.37	0.000%
27	0.00	-4820.52	-897.37	0.00	4820.52	897.37	0.000%
28	448.69	-4820.52	-777.15	-448.69	4820.52	777.15	0.000%
29	777.15	-4820.52	-448.69	-777.15	4820.52	448.69	0.000%
30	897.37	-4820.52	0.00	-897.37	4820.52	0.00	0.000%
31	777.15	-4820.52	448.69	-777.15	4820.52	-448.69	0.000%
32	448.69	-4820.52	777.15	-448.69	4820.52	-777.15	0.000%
33	0.00	-4820.52	897.37	0.00	4820.52	-897.37	0.000%
34	-448.69	-4820.52	777.15	448.69	4820.52	-777.15	0.000%
35	-777.15	-4820.52	448.69	777.15	4820.52	-448.69	0.000%
36	-897.37	-4820.52	0.00	897.37	4820.52	0.00	0.000%
37	-777.15	-4820.52	-448.69	777.15	4820.52	448.69	0.000%
38	-448.69	-4820.52	-777.15	448.69	4820.52	777.15	0.000%

Maximum Tower Deflections - Service Wind

Section	Elevation	Horz.	Gov.	Tilt	Twist
No.		Deflection	Load		
	ft	in	Comb.	٥	•



00 Osgood Street Bldg. 20N Suite 309 North Andover, MA 01845 Phone: (978) 557-5553 FAX: (978) 336-5586

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Project		Date
	120 ft Flagpole	08:47:11 06/09/16
Client		Designed by
	AT&T	kw

Section	Elevation	Horz.	Gov.	Tilt	Twist
No.		Deflection	Load		
	ft	in	Comb.	0	0
L1	118 - 108	7.3396	27	1.7129	0.0000
L2	108 - 98	3.7974	27	1.6015	0.0000
L3	98 - 88	1.0329	27	0.8682	0.0000

Critical Deflections and Radius of Curvature - Service Wind

Elevation	Appurtenance	Gov. Load	Deflection	Tilt	Twist	Radius of Curvature
ft		Comb.	in	0	٥	ft
113.00	20"x10' Shroud (CT 1171)	27	5.5340	1.7160	0.0000	4356
103.00	30"x10' Shroud (CT 1171)	27	2.2270	1.2916	0.0000	798
93.00	30"x10' Shroud (CT 1171)	28	0.3627	0.4320	0.0000	976

Section Capacity Table

Section	Elevation	Component	Size	Critical	P	$SF*P_{allow}$	%	Pass
No.	ft	Туре		Element	lb	lb	Capacity	Fail
L1	118 - 108	Pole	P4x.337	1	-1032.76	123377.41	33.2	Pass
L2	108 - 98	Pole	4" round bar	2	-2737.78	502528.98	66.0	Pass
L3	98 - 88	Pole	5" round bar	3	-4814.25	785202.28	77.4	Pass
							Summary	
						Pole (L3)	77.4	Pass
						RATING =	77.4	Pass

Monopole Pier and Pad Foundation

BU #: CT 1171

Site Name: App. Number:

TIA-222 Revision: F

TIT Y ELL TYOUGHT		
Design Reactions		
Shear, S:	5.7	kips
Moment, M:	371	ft-kips
Tower Height, H:	120	ft
Tower Weight, Wt:	9.3	kips
Base Diameter, BD:	2.60	ft

Foundation Dimensions					
Depth, D :	6.5	ft			
Pad Width, W:	12.5	ft			
Neglected Depth, N:	0	ft			
Thickness, T:	3.00	ft			
Pier Diameter, Pd:	5.60	ft			
Ext. Above Grade, E:	1.00	ft			
BP Dist. Above Pier:	3	in.			
Clear Cover, Cc:	3.0	in			

Soil Properties					
Soil Unit Weight, γ:	0.125	kcf			
Ult. Bearing Capacity, Bc:	6.0	ksf			
Angle of Friction, Φ:	34	deg			
Cohesion, Co:	0.000	ksf			
Passive Pressure, Pp :	0.000	ksf			
Base Friction, μ:	0.60				

Material Properties				
Rebar Yield Strength, Fy:	60000	psi		
Concrete Strength, F'c:	4000	psi		
Concrete Unit Weight, δc:	0.150	kcf		
Seismic Zone, z:	1			

Rebar Properties		
Pier Rebar Size, Sp :	8	
Pier Rebar Quanity, mp:	24	23
Pad Rebar Size, Spad:	8	
Pad Rebar Quanity, mpad:	13	7
Pier Tie Size, St:	4	3
Tie Quanity, mt :	5	6

Design Checks							
	Capacity/ Availability	Demand/ Limits	Check				
Req'd Pier Diam.(ft)	5.6	4.1	ок				
Overturning (ft-kips)	496.29	371.00	74.8%				
Shear Capacity (kips)	54.87	5.70	10.4%				
Bearing (ksf)	4.50	2.69	59.7%				
Pad Shear - 1-way (kips)	462.48	28.57	6.2%				
Pad Shear - 2-way (kips)	1931.43	48.11	2.5%				
Pad Moment Capacity (k-ft)	1474.07	106.37	7.2%				
Pier Moment Capacity (k-ft)	9815.92	396.65	4.0%				

Town of SimsburyGeographic Information System (GIS)



Date Printed: 6/2/2016



MAP DISCLAIMER - NOTICE OF LIABILITY

This map is for assessment purposes only. It is not for legal description or conveyances. All information is subject to verification by any user. The Town of Simsbury and its mapping contractors assume no legal responsibility for the information contained herein.

Approximate Scale: 1 inch = 200 feet





The Assessor's office is responsible for the maintenance of records on the ownership of properties. Assessments are computed at 70% of the estimated market value of real property at the time of the last revaluation which was 2012.



Information on the Property Records for the Municipality of Simsbury was last updated on 6/2/2016.

Parcel Information

Location:	530 BUSHY HILL ROAD	Property Use:	Retail	Primary Use:	Community Shopping Center
Unique ID:	31116200	Map Block Lot:	B20 508 001-B	Acres:	16.40
490 Acres:	0.00	Zone:	B-3	Volume / Page:	0676/0582
Developers Map / Lot:		Census:	4661020		

Value Information

	Appraised Value	70% Assessed Value
Land	8,200,000	5,740,000

	Appraised Value	70% Assessed Value
Buildings	22,678,000	15,874,600
Detached Outbuildings	2,622,000	1,835,400
Total	33,500,000	23,450,000

Owner's Information

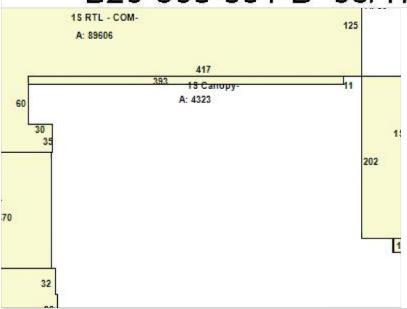
Owner's Data

E AND A/ I AND G SIMSBURY COMMONS LP PO BOX 528 COLUMBIA SC 29202

Building 1



B20-508-001-B 05/17/2012



Category:	Retail	Use:	Community Shopping Center	Stories:	1.00
Above Grade:	173,538	Below Grade:	24,032	Below Grade Finish:	24,032
Construction:	Good/Very Good	Year Built:	1972	Heating:	FHA

Fuel:		Cooling Percent:	88%	Siding:	Stucco
Roof Material:	Compo_Built-Up	Beds/Units:	0		

Special Features

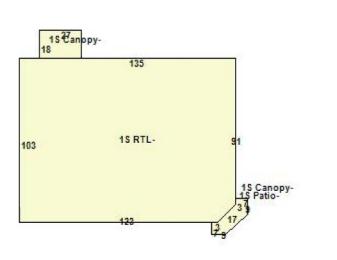
Commercial Elevator	1
Wet Sprinklers	173538

Attached Components

Type:	Year Built:	Area:
Canopy Canopy	2000	300
Canopy Canopy	1999	1,350
Canopy Canopy	2000	4,323
Canopy Canopy	1972	156
Finished Mezzanine Mezzanine	1999	5,846
Comm Concrete/Masonry Patio	2000	80
Comm Concrete/Masonry Patio	1999	1,350
Comm Flagstone Patio	1972	156

Building 2





Category:	Retail	Use:	Drug Store	Stories:	1.00
Above Grade:	13,833	Below Grade:	0	Below Grade Finish:	0
Construction:	Very Good	Year Built:	1999	Heating:	FHA
Fuel:	Heat Pump	Cooling Percent:	85%	Siding:	Concrete Block
Roof Material:	Compo_Built-Up	Beds/Units:	0		

Special Features

Wet Sprinklers	13833

Attached Components

Type:	Year Built:	Area:
Canopy Canopy	1999	247
Canopy Canopy	1999	486
Comm Concrete/Masonry Patio	1999	246

Detached Outbuildings

Туре:	Year Built:	Length:	Width:	Area:
Paving Paving	2000			527,000

Owner History - Sales

Owner Name	Volume	Page	Sale Date	Deed Type	Valid Sale	Sale Price
E AND A/I I AND G COMMONS LP	0676	0582	11/10/2004		No	\$0
SIMSBURY COMMONS SOUTH E&A LLC	0595	0584	11/21/2002	Quit Claim	No	\$24,467,182
AVON SIMSBURY MALL ASSOCIATES	0444	0321	07/05/1995	Warranty Deed	No	\$0